Core network design module for Nkom's fi

Information

Title	Core network design module for Nkom's fixed LRIC model
Objective	Forecast asset requirements, investment and operating costs to meet input level of demand
Version	vAcc2.3
Status	Approved for release
Author	Matthew Starling
Email	matthew.starling@analysysmason.com

Contents

Sheet	Description	Status
C	This contents sheet	Approved for release
V	A history of the versions of this workbook	Approved for release
S	A guide to the styles used in this workbook	Approved for release
CL	Change log	Approved for release
A0_Lists	Defines the names of commonly used lists in the model	Approved for release
A1_LinkedIn	Links outputs from other modules	Approved for release
A2a_NwDesScen	Scenario sheet for network design inputs sheet (A2b_NwDesIn)	Approved for release
A2b_NwDesIn	Defines network design inputs	Approved for release
A3_DmdSubCalc	Demand and subscriber/connections calculations	Approved for release
A4_Erlang	Erlang look-up table used by network design calculations	Approved for release
A5_Cov	Coverage calculations	Approved for release
A6_NwDes	Calculates network assets required	Approved for release
A7_AssetIn	Defines asset inputs	Approved for release
B1_FullNw	Collates the number of network elements required in each year according to demand drivers	Approved for release
B2_NwDeploy	Calculates total number of items deployed and incremental deployment in each year (includi	Approved for release
B3_ServiceDemand	Summarises network demand volumes for cost recovery	Approved for release
B4_RF	Collates values and calculations specifying routeing factor load of each service on each netv	Approved for release
B5_NwEleOut	Calculates the recovery profile and traffic loading on each type of network element	Approved for release
B6_CostTrends	Determines the capex and opex cost trends for each network element	Approved for release
B7_UnitCapex	Calculates capex per network element according to base price and capex trend	Approved for release
B8_TotalCapex	Calculates total capital expenditures	Approved for release
B9_UnitOpex	Calculates opex per network element according to base price and opex trend	Approved for release
C0_TotalOpex	Calculates total operating expenditures	Approved for release
Charts ==>	Collates outputs for charts	Approved for release
Cx	Charts showing network design outputs	Approved for release

Insert extra rows above here

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xed LRIC model

Notes

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History

Version	Date Released	Author	Details
1.0	11 Feb 10		v0.1 - draft model for consultation
1.1	08 Mar 10		draft model for information; includes confidential scenario
1.2	15 Mar 10		draft model for consultation; includes 'other operator' scenarios
1.3	n/a		1.3 used for draft access model
1.4	27 Jan 11		finalised model for core model; includes refinements for draft access model
1.6	18 May 11	Matthew Starling	finalised model for core model following draft pricing decision consultation for Markets 2 and 3
v2.0D	10 Dec 13	Matthew Starling	Draft model for 2013/14 update
v2.0F	01 Apr 14	Matthew Starling	Final model for 2013/14 update
v2.0F rev1	18 Jan 16	Matthew Starling	Revision for BSA costing by speed
vAcc2.2	14 Dec 17	Matthew Starling	Issued for Nkom
vAcc2.3	20 Jul 18	Matthew Starling	Issued for Nkom
vAcc2.3	29 Aug 18	Matthew Starling	Issued to Nkom for publication

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model

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Style Guidelines

NB Use Window Unfreeze Panes (on each worksheet) to have row 1 scroll with the rest of the worksheet
NB Consider using File Page Setup Sheet Rows to repeat at top: $1:$1 to include row 1 at the top of all printed pages (as is done on this worksheet)

Input cell styles

Use these styles to identify inputs to a model

NB These styles change most aspects of a cells formatting (all except Number and Alignment)

Input Parameter	100	unlocked	An input to the model that it is expected the user will change (change at will)
Input Parameter	250	unlocked	Consider using Data Validation to ensure that only acceptable values are entered
Input Parameter	300	unlocked	If a parameter can take only one of a small number of values, consider using Data Validation Allow List with In-cell dropdown selected
Input Data	100	unlocked	A piece of real data (only change if you have better data)
Input Estimate	100	unlocked	An estimate used in the absence of real data (only change if you have a better estimate, or real data)
Input Calculation	100	locked	An input to the model that has, none the less, been calculated from other inputs (e.g. interpolated input values)
Input Link	100	locked	An input to this part of the model, which is linked to a source on this or another worksheet within this workbook
Input Link (different	100	locked	An input to this part of the model, which is linked to a source on a worksheet in a different workbook

Other cell styles

Use these styles to identify the role of other cells in a model

NB These styles change a variety of different aspects of cell formatting (as appropriate to the context)

Calculation	100	locked	A calculation of the model
Total	**123**		A total (use if not part of a "Sub-total row" or a "Total row" in a table - see below)
Checksum	*0.00*	locked	A side calculation intended solely to cross check a result (and which therefore should not be referenced anywhere else in the model)
Checksum	***0.10***	locked	Consider using Format Conditional Formatting to highlight unacceptable results of cross check calculations (e.g. non-zero)
Output	100		A key result from this part of the model (in particular one that will be used elsewhere in the model)
Name	*Name*	locked	An Excel Name applying to one or more adjacent cells (use Insert Name Create to actually create the Excel Names)
Note	Note		A note (NB smaller than standard font size)
Highlight	100		A cell that is special in some way
Unhighlight	100		And one that isn't anymore

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Number styles

Use these styles to consistently format numbers (and dates)

NB All number styles use the decimal symbol and digit grouping symbol (thousands separator) defined under Regional Options in Control Panel. So if you want to change them do it there, and not here in Excel !
NB Most number styles leave space for a ')' to the right of the number, but only the Currency styles actually use '(…)' for negatives

	Number	Number (2dp)	Percentage	Percentage (2dp)	Currency	Currency (2dp)	Comma	Percent
Positive	1,235	123.45	12%	12.34%	1,235	123.45	1,235	12%
Negative	-1,235	-123.45	-12%	-12.34%	(1,235)	(123.45)	-1,235	-12%
Zero	-	-	0%	0.00%	-	-	0	0%
Text	Text	Text	Text	Text	Text	Text	Text	Text

	Currency EUR	Currency EUR (2dp)	Currency Euro	Currency Euro (2dp)
Positive	EUR 1,235	EUR 123.45	€ 1,235	€ 123.45
Negative	EUR (1,235)	EUR (123.45)	€ (1,235)	€ (123.45)
Zero	EUR -	EUR -	€ -	€ -
Text	Text	Text	Text	Text

	Currency USD	Currency USD (2dp)	Currency Dollar	Currency Dollar (2dp)
Positive	USD 1,235	USD 123.45	$ 1,235	$ 123.45
Negative	USD (1,235)	USD (123.45)	$ (1,235)	$ (123.45)
Zero	USD -	USD -	$ -	$ -
Text	Text	Text	Text	Text

	Currency GBP	Currency GBP (2dp)	Currency Pound	Currency Pound (2dp)
Positive	GBP 1,235	GBP 123.45	£ 1,235	£ 123.45
Negative	GBP (1,235)	GBP (123.45)	£ (1,235)	£ (123.45)
Zero	GBP -	GBP -	£ -	£ -
Text	Text	Text	Text	Text

	Date	Date (Month)	Date (Year)
Date	01 Dec 02	Dec 02	2002

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Heading styles

Use these styles to format headings

NB These styles change only the font used in a cell

H1	**Title**	Heading level 1
H2	**Title**	Heading level 2
H3	**Title**	Heading level 3
H4	**Title**	Heading level 4

Table styles

Use these styles to consistently format tables

NB These styles change a variety of different aspects of cell formatting (as appropriate to the context)

A simple table

Column label (left aligned)	Column label	Column label	Column label	Column label
Row label				
Row label				
Row label				
(Table finish row)				

A more complex table

		Column label (no wrap)		Column label (no wrap)	
Column label (left aligned)	Column label (not bold)	**Column label**	**Column label**	**Column label**	**Column label**
Row label		(Table unshading)		(Table shading)	
Row label (indent)					
Sub-total row					
Total row					

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Examples of use

NB To avoid having spurious names in this template the names shown below have not actually been created

Number of subscribers (year end)

Service	Units	Notes	2000	2001	2002	2003	
Dial-up	Subscribers	Linear interpolatio	1,000,000	1,000,000	1,000,000	1,000,000	*Subscribers.Year End.By Service*
ADSL	Subscribers	Linear interpolatio	100,000	133,333	166,667	200,000	
Cable Modem	Subscribers	Linear interpolatio	50,000	100,000	150,000	200,000	
Total	**Subscribers**		**1,150,000**	**1,233,333**	**1,316,667**	**1,400,000**	

Number of subscribers (year end)

Service	Units	Notes	2000	2001	2002	2003
Dial-up	Subscribers	From above	1,000,000	1,000,000	1,000,000	1,000,000
ADSL	Subscribers	From above	100,000	133,333	166,667	200,000
Cable Modem	Subscribers	From Cable_mod	50,000	100,000	150,000	200,000
Total	**Subscribers**		**1,150,000**	**1,233,333**	**1,316,667**	**1,400,000**

Number of subscribers (simple year average)

Service	Units	Notes	2000	2001	2002	2003	
Dial-up	Subscribers			1,000,000	1,000,000	1,000,000	
ADSL	Subscribers			116,667	150,000	183,333	
Cable Modem	Subscribers			75,000	125,000	175,000	
Total	**Subscribers**			**1,191,667**	**1,275,000**	**1,358,333**	*Subscribers.Year Average.Total*

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Change log - Network Design

This sheet tracks notable changes between versions that impact results

Version	Sheet	Reference/ *Named range*	Change
2.0D	A1_LinkedIn	0	Add fibre connections link
	A2a_NwDesSc	2	Add NGN number of *consolidated* PoIs parameter
		NGN DSLAMs	Add NGN DSLAM paramters
		NGN call serve	Add NGN CS paramters
	A3_DemdSubC	0	Link in fibre and canle volumes
		0	Add fibre and cable to billed volumes array
		2	Update routing factor table for new services
		0	NGN call servers now an asset driven by call and traffic volum
	A2b_NwDesnIn	0	Change linear IPTV deployment profile
		Deployment opt	Revised migration to NGN controls
		0	Add NGN deployment profile
		0	Add xDSL enabled nodes profile
		1	Add RSX retirement profile
		2	Modify RSX and DSLAM retirement profiles
		0	Revise PSTN/ISDN fixed voice connections migration profile
		0	xDSL lines migrayion profile revised
		0.5	Revise Layer 3 distribution router ports utilisation parameter
		48	Add NGN DSLAM, PE router, IMS Core and NGN CS design
		1	Add further SBC design paramters
		13	Revise number of national PoI profile
		260	Revise number of MGW national interconnection circuit group
		Display order	Add further Ethernet transmission parameters
	A5_Cov	1895	No of xDSL enabled access nodes - revise formulas and para
		0	Add xDSL enabled nodes as a proportion of the total
		Access Node (<	Add RSX that are not replaced by NGN DSLAM
	A6_NwDes	0	Add PSTN enabled access nodes by size
		NGN DSLAM c	Add NGN DSLAM dimesnioing calculations
		0	Update locations that may contain L2 agg/metro switched calc
		0	Update traffic requirements by DSLAM/NGN DSLAM rack cal
		0	Add required 1GE ports for NGN DSLAM connecticvity calcul
		0	Add NGN DLSAM facing ports calc
		0	Amend number of ports required to include NGN DSLAM
		0	Amend number of ports required to include NGN DSLAM
		Core router faci	Modify dimensioinng of DWDM rings
		PE routers	Add PE router and IMS CS asset dimensioning
		0	Add fibre and cable to layer 2 service switch traffic requiremer
		0	Add Software calcs to iSBC dimensioning
		0	Add broadband connections drivers to table
		0	Add NGN DSLAM drivers to table

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		0	Amended formulae for mix of CWDM and DWDM
		0	Update calculations for number of 10GE links/logical pathes
		0	Add NGN DSLAM racks to accomodation calculation
		0	Add NGN DSLAM racks to power calculation
		0	Add PE router to core node site usage calculation
	B!_FullNw	0	Update links in Network Elements
		0	Add block for Network elements (accounting for deactivated a
	A7_AssetIn	AN-IP: layer 3 e	Deactivated Layer 3 edge router parameter
		2012	Amend year of final capex
		CN-IP: IP/MPLS	Add IP/MPLS core router parameters
		Distribution tran	Add DWDM asset parameters
		Core transmissi	Add DWDM asset parameters
		NGN DSLAM -	Add NGN DSLAM, PE router, CS, IMS Core asset parameters
	B4_RF	2	Update new/updated assets in routing factor table
		1	Update new/updated assets in routing factor table for LRAIC^
	B6_Cost trends	0.025	Update Sites capex trend
		-0.03	Update Sites opex trend
	N8_Total Capex	0	Revise total annual capex calc
		75.239	Amend CPI forecast
2.0F	A2a_NwDesSce	2	Minimum call servers revised
	A2b_NwDesIn	0.242478162	Migration inputs revised
		75.239	Amend CPI forecast
vAcc2.2	A6_NwDes	1Gbps	Updated links to Distribution router facing ports, all nodes
	A6_NwDes	0	Added 40 GE to Distribution router facing ports, all nodes
	A6_NwDes	0	Added Edge router facing ports - 40GE optical
	A6_NwDes	0	Added 40 GE to Service platform facing ports
	A6_NwDes	0	Adeed Core router facing ports - 40 GE optical
	A6_NwDes	0	Added 40 GE deployment calculation
	A6_NwDes	40GE optical pc	Added link to 40GE optical ports per line card
	A6_NwDes	0	Added 40 GE to Total number of ports required
	A6_NwDes	0	Added 40 GE to Required ports per node
	A6_NwDes	0	Added 40 GE to Required line cards per node
	A6_NwDes	0	Updated calculation for Required chassis per node
	A6_NwDes	0	Added 40 GE to Totals
	A6_NwDes	0	Updated Totals
	A6_NwDes	10Gbps	Updated links for Core router facing ports per DN connected t
	A6_NwDes	10Gbps	Updated links for Total number of core router facing ports
	A6_NwDes	10Gbps	Updated links for Transponders required at Distribution Nodes
	A6_NwDes	10Gbps	Updated links for Additional transponders required for regener
	A6_NwDes	0	Added 40 GE to Distribution router facing ports
	A6_NwDes	0	Added 40 GE to Service platform facing ports
	A6_NwDes	0	Added 40 GE to Line cards and chassis calculations - Total nu
	A6_NwDes	40 GE optical p	Added link to 40 GE optical ports per line card
	A6_NwDes	0	Added 40 GE to Line cards and chassis calculations - Require
	A6_NwDes	0	Updated Required chassis per service node calculation
	A6_NwDes	0	Added 40 GE to totals summation

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A6_NwDes	10,000	Updated link to Capacity 10GigE port
A6_NwDes	10Gbps	Updated link to Total number of ports required
A6_NwDes	10Gbps	Updated link to Required ports per node
A6_NwDes	10Gbps	Updated link to Required line cards per node
A0_Lists	Logical list	Linked in new inputs
A0_Lists	Bitstream (direc	Added bitstream to service list
A3_DmdSubCa	0	Added network services calculation
A3_DmdSubCa	DSLAM/MSAN-	Added routing factors
A3_DmdSubCa	1	Linked in new routing factors
A3_DmdSubCa	1	Linked in new routing factors
A3_DmdSubCa	0	Added bitstream to billed volumes
B4_RF	0	Modified service routing factors
B4_RF	0	Modified service routing factors
A2b_NwDesIn	40GE (electrica	Added 40GE (electrical) ports per layer 2 switch line card
A2b_NwDesIn	3	Added 40 GE service to IP backhaul
A7_AssetIn	CN-IP: layer 2 s	Added 40 GE to Asset List
B1_FullNw	0	Added 40 GE network element calculations
B4_RF	Specific	Added routing factor calculation for 40 GE elements
B4_RF	Specific	Added routing factor LRAIC calculation for 40 GE elements
B8_TotalCapex	113.2838062	Updated inflation

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.xls

Additional comment	Impact on base case
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
nes	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
parameters	Yes
	Yes
	Yes
s profile	Yes
	Yes
meters from geoanalysis	Yes
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culation	Yes
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ation	Yes
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	Yes
	Yes

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	Yes
	Yes
	Yes
	Yes
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	Yes
ssets)	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
s	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

o DWDM Distribution rings

s ADMs
ration

umber of ports required, per service node

ed line cards per service node

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Lists

Years	Core services at market level	Units
1991	On-net calls (retail)	minutes
1992	Outgoing calls to international (retail)	minutes
1993	Outgoing calls to mobile (retail)	minutes
1994	Outgoing calls to other fixed operators (retail)	minutes
1995	Outgoing calls to non-geographic numbers (retail)	minutes
1996	Local incoming calls (wholesale)	minutes
1997	Tandem incoming calls (wholesale)	minutes
1998	Local outgoing calls (wholesale)	minutes
1999	Tandem outgoing calls (wholesale)	minutes
2000	Local transit calls (wholesale)	minutes
2001	Tandem transit calls (wholesale)	minutes
2002	Dial-up Internet traffic (retail)	minutes
2003	spare voice	minutes
2004	xDSL lines (retail based on own/unbundled access lines)	# subs
2005	xDSL lines (retail based on resold access lines)	# subs
2006	xDSL lines (wholesale)	# subs
2007	xDSL (contended)	Mbps
2008	Fibre subscribers	# subs
2009	Low capacity digital leased lines (<=8 Mbps)	Mbps
2010	High capacity digital leased lines (>8 Mbps)	Mbps
2011	Fibre (dark or wavelength)	# connections
2012	Data transmission services	Mbps
2013	pure VoIP lines (no broadband delivered)	# subs
2014	PSTN lines	# subs
2015	ISDN2 lines	# subs
2016	ISDN30 lines	# subs
2017	TV (linear broadcast)	# subs
2018	TV (linear broadcast)	Mbps per link
2019	TV (VoD)	# subs
2020	TV (VoD, contended)	Mbps
2021	Cable (contended)	Mbps
2022	Fibre (contended)	Mbps
2023	Residential voice subscribers	# subs
2024	Business voice subscribers	# subs
2025	BSA traffic	Mbps
2026	*Retail_Services*	*Retail_services.Units*

Defined numbers	
1,000,000,000	*billion*
1,000,000	*million*
1,000	*thousand*
12	*months*
60	*hour_to_minutes*
0.00010	*epsilon*

Logic
TRUE
FALSE

logic

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2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2037
2038
2039
2040
2041
2042
2043
2044
2045
2046
2047
2048
2049
2050

Years

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Voice operator services
On-net calls (retail)
Outgoing calls to international (retail)
Outgoing calls to mobile (retail)
Outgoing calls to other fixed operators (retail)
Outgoing calls to non-geographic numbers (retail)
Local incoming calls (wholesale)
Tandem incoming calls (wholesale)
Local outgoing calls (wholesale)
Tandem outgoing calls (wholesale)
Local transit calls (wholesale)
Tandem transit calls (wholesale)
Dial-up Internet traffic (retail)
spare voice

voice_services

Other operator services
xDSL lines (retail based on own/unbundled access lines)
xDSL lines (retail based on resold access lines)
xDSL lines (wholesale)
xDSL (contended)
Fibre subscribers
Low capacity digital leased lines (<=8 Mbps)
High capacity digital leased lines (>8 Mbps)
Fibre (dark or wavelength)
Data transmission services
pure VoIP lines (no broadband delivered)
PSTN lines
ISDN2 lines
ISDN30 lines
TV (linear broadcast)
TV (linear broadcast)
TV (VoD)
TV (VoD, contended)
Cable (contended)
Fibre (contended)

Type of fixed voice connections based on procurement type
using own access lines
resold voice connections
using unbundled access lines
no access lines

voice_access_types

Type of broadband connections based on procurement type
using own access lines
resold broadband connections
using unbundled access lines
spare

broadband_access_types

Logical list
TRUE
FALSE

Router locations	
ER	*label.ER*
DR	*label.DR*
CR	*label.CR*

ER	*BSA.ope*

Location	Indirect	Route	
ER	FALSE	DSLAM/MSAN-L2S-ER	ERUSAI
DR	FALSE	DSLAM/MSAN-L2S-ER-DR	DRUSAI
CR	FALSE	DSLAM/MSAN-L2S-ER-DR-CR	CRUSAI
CR	TRUE	DSLAM/MSAN-L2S-ER-DR-CR-CR	CRSANI
DR	TRUE	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR	DRSANI
ER	TRUE	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR-ER	ERSANI

routes.by.BSA.option

Indirect	Label
FALSE	Bitstream (direct, contended)
TRUE	Bitstream (indirect, contended)

FALSE	*Indirect.BSA*

Da

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Residential voice subscribers
Business voice subscribers
BSA traffic
other_services

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Network service groups		Network service costing list	Network service group	Units
voice	network	TDM Local on-net calls	Voice	BHE
voice ports		TDM Regional on-net calls	Voice	BHE
subscribers		TDM National on-net calls	Voice	BHE
Leased lines		TDM Regional outgoing calls	Voice	BHE
Internet data		TDM National outgoing calls	Voice	BHE
IP/E VPN circuits		TDM Outgoing calls - international leg	Voice	BHE
TV - VoD + Linear		TDM Regional incoming calls	Voice	BHE
network_service_groups		TDM National incoming calls	Voice	BHE
?		TDM Incoming calls - international leg	Voice	BHE
?		TDM Local transit calls (wholesale)	Voice	BHE
?		TDM Tandem transit calls (wholesale)	Voice	BHE
		TDM Dial-up Internet traffic	xDSL/dial-up	BHE
erator.PoP		NGN Local on-net calls	Voice	BHMbps
		NGN Regional on-net calls	Voice	BHMbps
		NGN National on-net calls	Voice	BHMbps
		NGN Regional outgoing calls	Voice	BHMbps
		NGN National outgoing calls	Voice	BHMbps
		NGN Outgoing ss7 leg	Voice	BHMbps
NN		NGN Outgoing SIP leg	Voice	BHMbps
NN		NGN Regional incoming calls	Voice	BHMbps
NN		NGN National incoming calls	Voice	BHMbps
N		NGN Incoming ss7 leg	Voice	BHMbps
N		NGN Incoming SIP leg	Voice	BHMbps
N		NGN Local transit calls	Voice	BHMbps
		NGN Tandem transit calls	Voice	BHMbps
		spare	spare	spare
		Low capacity digital leased lines (<=8 Mbps)	Leased lines	BHMbps
		High capacity digital leased lines (>8 Mbps)	Leased lines	BHMbps
		Fibre (dark or wavelength)	Leased lines	Units
		Data services (sublocal VPN, contended)	IP/E VPN circuits	BHMbps
		Data services (local VPN, contended)	IP/E VPN circuits	BHMbps
		Data services (regional VPN, contended)	IP/E VPN circuits	BHMbps
		Data services (national VPN, contended)	IP/E VPN circuits	BHMbps
ata_trans_network_services		Bitstream (direct, contended)	Internet data	BHMbps
		xDSL (direct, contended)	Internet data	BHMbps
		xDSL (indirect, contended)	Internet data	BHMbps

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VoD (direct, contended)	TV - VoD + Linear	BHMbps
VoD (indirect, contended)	TV - VoD + Linear	BHMbps
Fibre traffic (direct, contended)	Internet data	BHMbps
Subscribers	subscribers	Units
Fibre traffic (indirect, contended)	Internet data	BHMbps
linear TV broadcast (distribution to DSLAM/MSANs)	TV - VoD + Linear	BHMbps
linear TV broadcast (distribution to ER)	TV - VoD + Linear	BHMbps
linear TV broadcast (distribution to DR)	TV - VoD + Linear	BHMbps
linear TV broadcast (provisioning to CR)	TV - VoD + Linear	BHMbps
Cable traffic (direct, contended)	Internet data	BHMbps
Cable traffic (indirect, contended)	Internet data	BHMbps
TDM ss7 interconnection ports	voice ports	Units
NGN ss7 interconnection ports	voice ports	Units
sip interconnection ports	voice ports	Units
Network_service_list	*network_service_group*	*Network_service_unit*

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Network service type	Nodes routing path
TDM	RSX-LS-RSX
TDM	RSX-LS-MGW-LS-RSX
TDM	RSX-LS-MGW-MGW-LS-RSX
TDM	RSX-LS-MGW-other operators
TDM	RSX-LS-MGW-MGW-other operators
TDM	...-IGW-international operators
TDM	other operators-MGW-LS-RSX
TDM	other operators-MGW-MGW-LS-RSX
TDM	international operators-IGW-…
TDM	other operators-MGW-other operators
TDM	other operators-MGW-MGW-other operators
TDM	varying over time (e.g. from "RSX-LS-MGW"<c>-CR to "RSX-LS-<c>-DR-CR"
NGN	MSAN-L2S-ER-DR-ER-L2S-MSAN
NGN	MSAN-L2S-ER-DR-CR-DR-ER-L2S-MSAN
NGN	MSAN-L2S-ER-DR-CR-CR-DR-ER-L2S-MSAN
NGN	MSAN-L2S-ER-DR-CR
NGN	MSAN-L2S-ER-DR-CR-CR
NGN	...-SBC-<c>-TGW-other operators
NGN	...-SBC-PR-other operators
NGN	CR-DR-ER-L2S-MSAN
NGN	CR-CR-DR-ER-L2S-MSAN
NGN	other operators-TGW-<c>-SBC-…
NGN	other operators-PR-SBC-…
NGN	other operators-CR-other operators
NGN	other operators-CR-CR-other operators
spare	*spare*
TDM	spare
TDM	spare
Common	spare
Common	L2S-ER-L2S
Common	L2S-ER-DR-ER-L2S
Common	L2S-ER-DR-CR-DR-ER-L2S
Common	L2S-ER-DR-CR-CR-DR-ER-L2S
Common	DSLAM/MSAN-L2S-ER
Common	DSLAM/MSAN-L2S-ER-DR
Common	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR

Capex categories
Accommodation: civils
Accommodation: power systems
Voice platform
Broadband platform
Converged platform
Data network
Transmission trenching, ducting and cabling
Other core platforms
Transmission active equipment
Access trenching and ducting
Access network cabling
Other access
Other
Overheads
n/a
CPE
Cost_cat17
Cost_cat18
Cost_cat19
Cost_cat20
Cost_cat21
Cost_cat22
Cost_cat23
Cost_cat24
Cost_cat25
Cost_cat26
Cost_cat27
Cost_cat28
Cost_cat29
Cost_cat30

Capex_categories

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Common	DSLAM/MSAN-L2S-ER-DR
Common	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR
Common	DSLAM/MSAN-L2S-ER-DR
Common	*spare*
Common	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR
Common	DSLAM/MSAN-L2S-ER
Common	ER-DR
Common	DR-CR
Common	CR-service platforms
Common	ER-DR-ER
Common	ER-DR-CR-CR-DR-ER
TDM	ports
NGN	ports
NGN	ports
Network_service_type	*Network_service_nodes_routing*

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Opex categories
Accommodation: civils
Accommodation: power systems
Voice platform
Broadband platform
Converged platform
Data network
Transmission trenching, ducting and cabling
Other core platforms
Transmission active equipment
Access trenching and ducting
Access network cabling
Other access
Other
Overheads
n/a
CPE
Cost_cat17
Cost_cat18
Cost_cat19
Cost_cat20
Cost_cat21
Cost_cat22
Cost_cat23
Cost_cat24
Cost_cat25
Cost_cat26
Cost_cat27
Cost_cat28
Cost_cat29
Cost_cat30

Opex_categories

Asset groups	Units for traffic volumes	Units for call attempts	Asset groups notes
TDM Access transmission	BHE	n/a	RSX-LS
TDM Distribution transmission	BHE	n/a	LS-MGW
TDM Core transmission	BHE	n/a	MGW-MGW/IGW
TDM Access switching	BHE	BHCA	RSX
TDM Distribution switching	BHE	BHCA	LS
TDM Core switching	BHE	BHCA	MGW
TDM International switching	BHE	BHCA	IGW
TDM Voice interconnection	BHE	n/a	MGW-other operators
TDM call servers	BHCA	BHCA	Call Servers
IP Access transmission	BHMbit/s	n/a	DSLAM/MSAN-L2S-ER-DR
IP Distribution transmission	BHMbit/s	n/a	DR-CR
IP Core transmission	BHMbit/s	n/a	CR-CR
IP Access routing	BHMbit/s	n/a	ER
IP Distribution routing	BHMbit/s	n/a	DR
IP Core routing	BHMbit/s	n/a	CR
spare	*spare*	*n/a*	spare
NGN Distribution SBC	BHMbit/s	n/a	Distribution SBCs
NGN Interconnect SBC	BHMbit/s	n/a	Interconnection SBCs
NGN SIP Voice interconnection	BHMbit/s	n/a	Border Gateway
NGN ss7 Voice interconnection	BHMbit/s	n/a	TGW
NGN call servers	BHCA	BHCA	Call Servers
Digital cross-connects	n/a	n/a	DCX
VPN access transmission	BHMbit/s	n/a	L2S-ER for VPN traffic
NGN voice access	BHMbit/s	n/a	DSLAM/MSAN-L2S-ER-DR
spare1	*spare1*	*n/a*	spare1
spare2	*spare2*	*n/a*	spare2
spare3	*spare3*	*n/a*	spare3
spare4	*spare4*	*n/a*	spare4
spare5	*spare5*	*n/a*	spare5
spare6	*spare6*	*n/a*	spare6
spare7	*spare7*	*n/a*	spare7
spare8	*spare8*	*n/a*	spare8
spare9	*spare9*	*n/a*	spare9
spare10	*spare10*	*n/a*	spare10
spare11	*spare11*	*n/a*	spare11
Asset_groups	*Asset_groups_units_volumes*	*Asset_groups_units_ca*	*Asset_groups_notes*

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Access node types	Maximum number of buildings
Access Node (< 500 buildings)	500
Access Node (< 1000 buildings)	1000
Access Node (< 2000 buildings)	2000
Access Node (< 5000 buildings)	5000
Access Node (< 15000 buildings)	15000
Access_node_types	*Access_node_types_sizes*

Interconnect ports (current deployment)
2 Mbit/s PDH
155Mbit/s SDH
155Mbit/s ATM
spare
spare
icx_ports_current

Interconnect ports (NGN deployment)
10Mbit/s Ethernet
100Mbit/s Ethernet
1Gbit/s Ethernet
spare
spare
icx_ports_NGN

Layer 3 edge router locations	Maximum number of buildings of AN housing ER
ER-equipped Access Node (< 500 buildings)	500
ER-equipped Access Node (< 1000 buildings)	1,000
ER-equipped Access Node (< 2000 buildings)	2,000
ER-equipped Access Node (< 5000 buildings)	5,000
ER-equipped Access Node (< 15000 buildings)	15,000
ER_node_types	*ER_node_types_sizes*

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Interconnect protocol (NGN deployment)
ss7
SIP
spare

icx_protocols_NGN

Modelled operator list	
Spare_1	
CONF_TN	
PUBLIC_TN	
PURE_VoIP	*voip*
PURE_unbundl	*unbundler*
PURE_own_ac	*fibre*

modelled_operator_data

	Transmission resources type	Requires own fibre, trench, C/DWDM assets?	Requires leased lines, dark fibre assets?
own.fibre	own fibre	1	-
dark.fibre	leased dark fibre	-	1
ethernet.LL	Ethernet leased lines	-	1
	none	-	-
	none	-	-
	transmission.resources.type	*transmission.resources.type*	*transmission.resources.type*

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Comment
assumes C/DWDM equipment needed for optical multiplexing
assumes routers in the network are able to interface directly with dark fibre
assumes routers in the network are able to interface directly with Ethernet leased lines

e.leased.assets

Ethernet Leased Line Connection speeds - decreasing	Display order	Ethernet Leased Line Connection speeds - increasing
1,000	10	4
600	9	10
450	8	20
300	7	50
150	6	100
100	5	150
50	4	300
20	3	450
10	2	600
4	1	1000

Ethernet.LL.speeds.decrea Ethernet.LL.spe Ethernet.LL.speeds.increas

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Linked inputs

	Source	Note	Period	Units	1991	1992	2008

Scenarios selected

Select operator mode:

PUBLIC_TN	*modelled_operator_selected*	3	*modelled_operator_selected_index*
With terminatio	*increment_selected*	2	*increment_selected_index*

Cost of capital

5.70%	*input_wacc*		6%	6%	6%
Real discount rate multiplier		2009 = 1	37%	39%	95%
Real discount rate divider		2009 = 1	271%	257%	106%

Working capital allowance (days/365)

0.082	*input_wc*

Activate business connectivity

TRUE	*input_bcs*

Level of trench sharing

			Cost covered by core	
input_tr	0km	1 *input_trench_sh*	50%	*input_trench_sharing_cost_to_core*
	0km			
	1km			
	2km			
	3km			
	4km			
	5km			
	6km			

NGN operator type

Migration to NG	*input_NGN*
Pure NGN	*input_NGN_pure*
Migration to NG	*input_NGN_migration*
2010	*pure.NGN.start*

Network connections

			1991	1992	2008
PSTN/ISDN fixed voice connections			2,198,243	2,233,365	1,492,013
PSTN	YA	#	2,198,243	2,233,365	1,071,242
ISDN2	YA	#	-	-	412,063
ISDN30	YA	#	-	-	8,707

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xDSL lines	YA	#	-	-	750,554
Fibre lines	YA	#	-	-	251
pure VoIP lines (no broadband delivere	YA	#	-	-	-

Network traffic

Annual (year total)

Service	Units			
On-net calls (retail)	minutes	11,611,688,693	11,966,775,244	2,689,814,158
BSA traffic	Mbps	-	-	-

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2009	2010	2011	2012	2013	2014	2015	2016	2017
6%	6%	6%	6%	6%	6%	6%	6%	6%
100%	106%	112%	118%	125%	132%	139%	147%	156%
100%	95%	90%	85%	80%	76%	72%	68%	64%
1,351,191	1,217,735	1,095,507	979,138	858,110	742,606	640,298	550,397	471,354
989,281	910,300	834,689	757,546	670,384	583,802	512,602	450,808	390,486
354,299	300,870	255,164	216,685	183,455	155,133	124,677	97,177	78,806
7,611	6,565	5,654	4,907	4,271	3,671	3,019	2,411	2,061

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713,494	675,304	647,827	617,902	582,783	546,945	518,775	492,046	456,164
3,455	9,651	18,012	33,131	61,493	91,998	110,787	136,238	174,314
-	-	-	-	-	-	-	-	-
2,043,367,455	1,730,325,214	1,364,229,752	1,109,291,368	884,717,916	694,204,402	523,989,075	433,656,889	339,050,101
-	-	-	-	-	-	-	-	-

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2018	2019	2020	2021	2022	2023	2024	2025	2026
6%	6%	6%	6%	6%	6%	6%	6%	6%
165%	174%	184%	194%	206%	217%	230%	243%	257%
61%	57%	54%	51%	49%	46%	44%	41%	39%
404,007	344,518	286,916	237,186	195,739	162,104	135,324	114,253	97,774
332,264	281,341	238,190	200,075	167,513	140,417	118,312	100,512	86,280
70,066	61,947	47,835	36,485	27,796	21,396	16,819	13,616	11,414
1,677	1,230	891	627	431	291	193	126	80

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409,152	361,082	317,053	271,537	226,529	183,757	144,660	110,299	81,293
216,836	262,571	308,551	354,751	399,415	440,969	478,278	510,746	538,263
-	-	-	-	-	-	-	-	-
276,095,486	229,860,465	188,729,985	156,640,384	131,893,798	112,824,300	97,976,730	86,207,247	76,702,361
0	0	0	0	0	0	0	0	0

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2027	2028	2029	2030	2031	2032	2033	2034	2035
6%	6%	6%	6%	6%	6%	6%	6%	6%
271%	287%	303%	320%	339%	358%	378%	400%	423%
37%	35%	33%	31%	30%	28%	26%	25%	24%
84,926	74,945	67,241	61,353	56,918	53,637	51,263	49,593	48,458
74,949	65,971	58,914	53,433	49,244	46,106	43,807	42,169	41,038
9,929	8,946	8,311	7,912	7,669	7,529	7,455	7,424	7,420
49	29	16	8	4	2	1	0	0

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57,806	39,596	26,093	16,527	10,054	5,873	3,294	1,773	917
561,114	579,851	595,173	607,761	618,241	627,149	634,900	641,820	648,137
-	-	-	-	-	-	-	-	-
68,931,255	62,561,014	57,370,336	53,186,881	49,855,142	47,227,289	45,165,565	43,547,419	42,269,015
0	0	0	0	0	0	0	0	0

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2036	2037	2038	2039	2040	2041	2042	2043	2044
6%	6%	6%	6%	6%	6%	6%	6%	6%
447%	472%	499%	528%	558%	589%	623%	658%	696%
22%	21%	20%	19%	18%	17%	16%	15%	14%
47,726	47,290	47,070	47,005	47,049	47,168	47,337	47,540	47,764
40,291	39,829	39,576	39,473	39,477	39,554	39,681	39,842	40,024
7,435	7,461	7,494	7,532	7,572	7,614	7,656	7,698	7,741
0	0	0	0	0	0	0	0	0

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455	217	99	44	18	7	3	1	0
654,001	659,510	664,736	669,722	674,494	679,066	683,460	687,718	691,838
-	-	-	-	-	-	-	-	-
41,246,042	40,412,283	39,716,994	39,121,964	38,598,782	38,126,583	37,690,245	37,278,992	36,885,304
0	0	0	0	0	0	0	0	0

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2045	2046	2047	2048	2049	2050	
6%	6%	6%	6%	6%	6%	*real_discount_rate*
736%	778%	822%	869%	918%	971%	*real_discount_rate_multiplier*
14%	13%	12%	12%	11%	10%	*real_discount_rate_divider*
48,000	48,246	48,499	48,754	49,011	49,269	*PSTN.ISDN.Connections.Total*
40,218	40,422	40,632	40,845	41,060	41,276	*PSTN.Connections*
7,782	7,824	7,867	7,909	7,951	7,993	*ISDN2.Connections*
0	0	0	0	0	0	*ISDN30.Connections*

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						PSTN.ISDN.Connections
0	0	0	0	0	0	*xDSL.Connections*
695,838	699,776	703,661	707,495	711,280	715,032	*Fibre.Connections*
-	-	-	-	-	-	*pure.VoIP.connections*
36,504,065	36,131,876	35,766,540	35,406,677	35,051,440	34,700,319	
0	0	0	0	0	0	
						Inputs.NetworkTraffic

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Demand and subscriber/connect

	Source/Note	Period	Units	1
				1991

Annual traffic (year total)

Service				
On-net calls (retail)			minutes	-
Outgoing calls to international (retail)			minutes	-
Outgoing calls to mobile (retail)			minutes	-
Outgoing calls to other fixed operators (retail)			minutes	-
Outgoing calls to non-geographic numbers (retail)			minutes	-
Local incoming calls (wholesale)			minutes	-
Tandem incoming calls (wholesale)			minutes	-
Local outgoing calls (wholesale)			minutes	-
Tandem outgoing calls (wholesale)			minutes	-
Local transit calls (wholesale)			minutes	-
Tandem transit calls (wholesale)			minutes	-
Dial-up Internet traffic (retail)			minutes	-
spare voice			minutes	-
xDSL lines (retail based on own/unbundled access lines)			# subs	-
xDSL lines (retail based on resold access lines)			# subs	-
xDSL lines (wholesale)			# subs	-
xDSL (contended)			Mbps	-
Fibre subscribers			# subs	-
Low capacity digital leased lines (<=8 Mbps)			Mbps	-
High capacity digital leased lines (>8 Mbps)			Mbps	-
Fibre (dark or wavelength)			# connections	-
Data transmission services			Mbps	-
pure VoIP lines (no broadband delivered)			# subs	-
PSTN lines			# subs	-
ISDN2 lines			# subs	-
ISDN30 lines			# subs	-
TV (linear broadcast)			# subs	-
TV (linear broadcast)			Mbps per link	-
TV (VoD)			# subs	-
TV (VoD, contended)			Mbps	-
Cable (contended)			Mbps	-
Fibre (contended)			Mbps	-
Residential voice subscribers			# subs	-
Business voice subscribers			# subs	-
BSA traffic			Mbps	-

Voice calculations

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Converts demand volume from Market to busy hour traffic as required for network dimensioning

Total occupancy minutes calculations

Number of voice calls	Average call durations			
On-net calls (retail)	5.00	0.96	#	-
Outgoing calls to international (retail)	4.00		#	-
Outgoing calls to mobile (retail)	2.50		#	-
Outgoing calls to other fixed operators (retail)	5.00		#	-
Outgoing calls to non-geographic numbers (retail)	4.00		#	-
Local incoming calls (wholesale)	4.00		#	-
Tandem incoming calls (wholesale)	4.00		#	-
Local outgoing calls (wholesale)	4.00		#	-
Tandem outgoing calls (wholesale)	4.00		#	-
Local transit calls (wholesale)	4.00		#	-
Tandem transit calls (wholesale)	4.00		#	-
Dial-up Internet traffic (retail)	30.00	0.99	#	-
spare voice	4.00		#	-

Number of call attempts	Average number of call attempts per successful call			
On-net calls (retail)	1.10		#	-
Outgoing calls to international (retail)	1.10		#	-
Outgoing calls to mobile (retail)	1.10		#	-
Outgoing calls to other fixed operators (retail)	1.10		#	-
Outgoing calls to non-geographic numbers (retail)	1.10		#	-
Local incoming calls (wholesale)	1.10		#	-
Tandem incoming calls (wholesale)	1.10		#	-
Local outgoing calls (wholesale)	1.10		#	-
Tandem outgoing calls (wholesale)	1.10		#	-
Local transit calls (wholesale)	1.10		#	-
Tandem transit calls (wholesale)	1.10		#	-
Dial-up Internet traffic (retail)	1.10		#	-
spare voice	1.10		#	-

Occupancy minutes	Average answered call set-up time (minutes)	Average unanswered call duration (minutes)		
On-net calls (retail)	0.17	0.40	minutes	-
Outgoing calls to international (retail)	0.17	0.40	minutes	-
Outgoing calls to mobile (retail)	0.17	0.40	minutes	-
Outgoing calls to other fixed operators (retail)	0.17	0.40	minutes	-

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Outgoing calls to non-geographic numbers (retail)	0.17	0.40	minutes	-
Local incoming calls (wholesale)	0.17	0.40	minutes	-
Tandem incoming calls (wholesale)	0.17	0.40	minutes	-
Local outgoing calls (wholesale)	0.17	0.40	minutes	-
Tandem outgoing calls (wholesale)	0.17	0.40	minutes	-
Local transit calls (wholesale)	0.17	0.40	minutes	-
Tandem transit calls (wholesale)	0.17	0.40	minutes	-
Dial-up Internet traffic (retail)	0.17	0.40	minutes	-
spare voice	0.17	0.40	minutes	-

Migration of voice traffic to NGN

TDM occupancy minutes	Service available in NGN?		
On-net calls (retail)	yes	minutes	-
Outgoing calls to international (retail)	yes	minutes	-
Outgoing calls to mobile (retail)	yes	minutes	-
Outgoing calls to other fixed operators (retail)	yes	minutes	-
Outgoing calls to non-geographic numbers (retail)	yes	minutes	-
Local incoming calls (wholesale)	yes	minutes	-
Tandem incoming calls (wholesale)	yes	minutes	-
Local outgoing calls (wholesale)	yes	minutes	-
Tandem outgoing calls (wholesale)	yes	minutes	-
Local transit calls (wholesale)	yes	minutes	-
Tandem transit calls (wholesale)	yes	minutes	-
Dial-up Internet traffic (retail)	no	minutes	-
spare voice	yes	minutes	-

TDM call attempts			
On-net calls (retail)		#	-
Outgoing calls to international (retail)		#	-
Outgoing calls to mobile (retail)		#	-
Outgoing calls to other fixed operators (retail)		#	-
Outgoing calls to non-geographic numbers (retail)		#	-
Local incoming calls (wholesale)		#	-
Tandem incoming calls (wholesale)		#	-
Local outgoing calls (wholesale)		#	-
Tandem outgoing calls (wholesale)		#	-
Local transit calls (wholesale)		#	-
Tandem transit calls (wholesale)		#	-
Dial-up Internet traffic (retail)		#	-
spare voice		#	-

TDM billed minutes

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On-net calls (retail)	minutes	-
Outgoing calls to international (retail)	minutes	-
Outgoing calls to mobile (retail)	minutes	-
Outgoing calls to other fixed operators (retail)	minutes	-
Outgoing calls to non-geographic numbers (retail)	minutes	-
Local incoming calls (wholesale)	minutes	-
Tandem incoming calls (wholesale)	minutes	-
Local outgoing calls (wholesale)	minutes	-
Tandem outgoing calls (wholesale)	minutes	-
Local transit calls (wholesale)	minutes	-
Tandem transit calls (wholesale)	minutes	-
Dial-up Internet traffic (retail)	minutes	-
spare voice	minutes	-

NGN occupancy minutes

On-net calls (retail)	minutes	-
Outgoing calls to international (retail)	minutes	-
Outgoing calls to mobile (retail)	minutes	-
Outgoing calls to other fixed operators (retail)	minutes	-
Outgoing calls to non-geographic numbers (retail)	minutes	-
Local incoming calls (wholesale)	minutes	-
Tandem incoming calls (wholesale)	minutes	-
Local outgoing calls (wholesale)	minutes	-
Tandem outgoing calls (wholesale)	minutes	-
Local transit calls (wholesale)	minutes	-
Tandem transit calls (wholesale)	minutes	-
Dial-up Internet traffic (retail)	minutes	-
spare voice	minutes	-

NGN call attempts

On-net calls (retail)	#	-
Outgoing calls to international (retail)	#	-
Outgoing calls to mobile (retail)	#	-
Outgoing calls to other fixed operators (retail)	#	-
Outgoing calls to non-geographic numbers (retail)	#	-
Local incoming calls (wholesale)	#	-
Tandem incoming calls (wholesale)	#	-
Local outgoing calls (wholesale)	#	-
Tandem outgoing calls (wholesale)	#	-
Local transit calls (wholesale)	#	-
Tandem transit calls (wholesale)	#	-
Dial-up Internet traffic (retail)	#	-
spare voice	#	-

NGN billed minutes

On-net calls (retail)	minutes	-

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Outgoing calls to international (retail)		minutes	-
Outgoing calls to mobile (retail)		minutes	-
Outgoing calls to other fixed operators (retail)		minutes	-
Outgoing calls to non-geographic numbers (retail)		minutes	-
Local incoming calls (wholesale)		minutes	-
Tandem incoming calls (wholesale)		minutes	-
Local outgoing calls (wholesale)		minutes	-
Tandem outgoing calls (wholesale)		minutes	-
Local transit calls (wholesale)		minutes	-
Tandem transit calls (wholesale)		minutes	-
Dial-up Internet traffic (retail)		minutes	-
spare voice		minutes	-

Busy Hour calculations

TDM Busy Hour Erlangs	Voice weekday proportion		
On-net calls (retail)	85%	BHE	-
Outgoing calls to international (retail)	75%	BHE	-
Outgoing calls to mobile (retail)	85%	BHE	-
Outgoing calls to other fixed operators (retail)	85%	BHE	-
Outgoing calls to non-geographic numbers (retail)	85%	BHE	-
Local incoming calls (wholesale)	85%	BHE	-
Tandem incoming calls (wholesale)	85%	BHE	-
Local outgoing calls (wholesale)	85%	BHE	-
Tandem outgoing calls (wholesale)	85%	BHE	-
Local transit calls (wholesale)	85%	BHE	-
Tandem transit calls (wholesale)	85%	BHE	-
Dial-up Internet traffic (retail)	85%	BHE	-
spare voice	85%	BHE	-

TDM Busy Hour Call Attempts		
On-net calls (retail)	BHCA	-
Outgoing calls to international (retail)	BHCA	-
Outgoing calls to mobile (retail)	BHCA	-
Outgoing calls to other fixed operators (retail)	BHCA	-
Outgoing calls to non-geographic numbers (retail)	BHCA	-
Local incoming calls (wholesale)	BHCA	-
Tandem incoming calls (wholesale)	BHCA	-
Local outgoing calls (wholesale)	BHCA	-
Tandem outgoing calls (wholesale)	BHCA	-
Local transit calls (wholesale)	BHCA	-
Tandem transit calls (wholesale)	BHCA	-
Dial-up Internet traffic (retail)	BHCA	-
spare voice	BHCA	-

NGN Busy Hour kbps

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On-net calls (retail)	BHkbps	-
Outgoing calls to international (retail)	BHkbps	-
Outgoing calls to mobile (retail)	BHkbps	-
Outgoing calls to other fixed operators (retail)	BHkbps	-
Outgoing calls to non-geographic numbers (retail)	BHkbps	-
Local incoming calls (wholesale)	BHkbps	-
Tandem incoming calls (wholesale)	BHkbps	-
Local outgoing calls (wholesale)	BHkbps	-
Tandem outgoing calls (wholesale)	BHkbps	-
Local transit calls (wholesale)	BHkbps	-
Tandem transit calls (wholesale)	BHkbps	-
Dial-up Internet traffic (retail)	BHkbps	-
spare voice	BHkbps	-

NGN Busy Hour Call Attempts

On-net calls (retail)	BHCA	-
Outgoing calls to international (retail)	BHCA	-
Outgoing calls to mobile (retail)	BHCA	-
Outgoing calls to other fixed operators (retail)	BHCA	-
Outgoing calls to non-geographic numbers (retail)	BHCA	-
Local incoming calls (wholesale)	BHCA	-
Tandem incoming calls (wholesale)	BHCA	-
Local outgoing calls (wholesale)	BHCA	-
Tandem outgoing calls (wholesale)	BHCA	-
Local transit calls (wholesale)	BHCA	-
Tandem transit calls (wholesale)	BHCA	-
Dial-up Internet traffic (retail)	BHCA	-
spare voice	BHCA	-

Network traffic calculations

Voice traffic routing

Number of switching locations

Access nodes (AN)		-
Distribution nodes (DN)		-
Core nodes (CN)		-
National call regions	12	-

On-net voice traffic routing

	Localisation factor		100.0%
local	10	switching/routing at 1 DN only	-%
regional	10	switching/routing at 2 DN and 1 CN only	-%
national	n/a	switching/routing at 2 DN and 2 CN	100.0%

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Outgoing voice traffic routing	Localisation factor		
regional	10	switching/routing at 1 DN and 1 CN only	-%
national	n/a	switching/routing at 1 DN and 2 CN	100.0%

TDM leased lines traffic routing

Number of transmission locations	
Access nodes (AN)	-
Distribution nodes (DN)	-
Core nodes (CN)	-

Leased lines traffic routing	Localisation factor	
Percentage of leased lines traffic using Access transmission (colocation, r	n/a	100%
Percentage of leased lines traffic using Distribution transmission (rings be	10.00	0%
Percentage of leased lines traffic using Core transmission (rings between	10.00	0%

IP traffic routing

Number of routing locations	
Edge router (ER) nodes	-
Distribution router (DR) nodes	-
Core router (CR) nodes	-
Services-facing nodes	-

IP traffic routing	Localisation factor		100.0%
sublocal	1.00	routing at 1 ER only	0.0%
local	1.00	routing at 2 ER and 1 DR only	0.0%
regional	1.00	routing at 2 ER, 2 DR and 1 CR only	0.0%
national	n/a	routing at 2 ER, 2 DR and 2 CR	100.0%

IP services routing	100.0%
direct	0.0%
indirect	100.0%

Penetration of business connectivity services	Saturation	
Proportion of access nodes offering data business services	2015	0%

Network services volumes

Network services	Network service type	Nodes routing		
TDM Local on-net calls	TDM	RSX-LS-RSX	BHE	-

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TDM Regional on-net calls	TDM	RSX-LS-MGW-LS-RSX		BHE	-
TDM National on-net calls	TDM	RSX-LS-MGW-MGW-LS-RSX		BHE	-
TDM Regional outgoing calls	TDM	RSX-LS-MGW-other operators		BHE	-
TDM National outgoing calls	TDM	RSX-LS-MGW-MGW-other operators		BHE	-
TDM Outgoing calls - international leg	TDM	...-IGW-international operators		BHE	-
TDM Regional incoming calls	TDM	other operators-MGW-LS-RSX		BHE	-
TDM National incoming calls	TDM	other operators-MGW-MGW-LS-RSX		BHE	-
TDM Incoming calls - international leg	TDM	international operators-IGW-…		BHE	-
TDM Local transit calls (wholesale)	TDM	other operators-MGW-other operators		BHE	-
TDM Tandem transit calls (wholesale)	TDM	other operators-MGW-MGW-other operators		BHE	-
TDM Dial-up Internet traffic	TDM	varying over time (e.g. from "RSX-LS-MGW"<c>-(		BHE	-
NGN Local on-net calls	NGN	MSAN-L2S-ER-DR-ER-L2S-MSAN		BHMbps	-
NGN Regional on-net calls	NGN	MSAN-L2S-ER-DR-CR-DR-ER-L2S-MSAN		BHMbps	-
NGN National on-net calls	NGN	MSAN-L2S-ER-DR-CR-CR-DR-ER-L2S-MSAN		BHMbps	-
NGN Regional outgoing calls	NGN	MSAN-L2S-ER-DR-CR		BHMbps	-
NGN National outgoing calls	NGN	MSAN-L2S-ER-DR-CR-CR		BHMbps	-
NGN Outgoing ss7 leg	NGN	...-SBC-<c>-TGW-other operators		BHMbps	-
NGN Outgoing SIP leg	NGN	...-SBC-PR-other operators		BHMbps	-
NGN Regional incoming calls	NGN	CR-DR-ER-L2S-MSAN		BHMbps	-
NGN National incoming calls	NGN	CR-CR-DR-ER-L2S-MSAN		BHMbps	-
NGN Incoming ss7 leg	NGN	other operators-TGW-<c>-SBC-…		BHMbps	-
NGN Incoming SIP leg	NGN	other operators-PR-SBC-…		BHMbps	-
NGN Local transit calls	NGN	other operators-CR-other operators		BHMbps	-
NGN Tandem transit calls	NGN	other operators-CR-CR-other operators		BHMbps	-
spare	spare	spare		spare	-
Low capacity digital leased lines (<=8 Mbps)	TDM	spare		BHMbps	-
High capacity digital leased lines (>8 Mbps)	TDM	spare		BHMbps	-
Fibre (dark or wavelength)	Common	spare	**Contention ratio**	Units	-
Data services (sublocal VPN, contended)	Common	L2S-ER-L2S	1	BHMbps	-
Data services (local VPN, contended)	Common	L2S-ER-DR-ER-l	1	BHMbps	-
Data services (regional VPN, contended)	Common	L2S-ER-DR-CR-l	1	BHMbps	-
Data services (national VPN, contended)	Common	L2S-ER-DR-CR-(	1	BHMbps	-
Bitstream (direct, contended)	Common	DSLAM/MSAN-L2S-ER		BHMbps	-
xDSL (direct, contended)	Common	DSLAM/MSAN-L2S-ER-DR		BHMbps	-
xDSL (indirect, contended)	Common	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR		BHMbps	-
VoD (direct, contended)	Common	DSLAM/MSAN-L2S-ER-DR		BHMbps	-
VoD (indirect, contended)	Common	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR		BHMbps	-
Fibre traffic (direct, contended)	Common	DSLAM/MSAN-L2S-ER-DR		BHMbps	-
Subscribers	Common	spare		Units	-
Fibre traffic (indirect, contended)	Common	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR		BHMbps	-
linear TV broadcast (distribution to DSLAM/MSANs)	Common	DSLAM/MSAN-L2S-ER		BHMbps	-
linear TV broadcast (distribution to ER)	Common	ER-DR		BHMbps	-
linear TV broadcast (distribution to DR)	Common	DR-CR		BHMbps	-
linear TV broadcast (provisioning to CR)	Common	CR-service platforms		BHMbps	-
Cable traffic (direct, contended)	Common	ER-DR-ER		BHMbps	-

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Cable traffic (indirect, contended)	Common	ER-DR-CR-CR-DR-ER	BHMbps	-
TDM ss7 interconnection ports	TDM	ports	Units	-
NGN ss7 interconnection ports	NGN	ports	Units	-
sip interconnection ports	NGN	ports	Units	-

Check retail services allocation to network services

TDM voice	0
NGN voice	0

Incoming/outgoing ratio

TDM voice	0%
NGN voice	0%

Network services - annual volumes for service demand matrix

Annual voice minutes per peak Mbps	With terminatior	-
Current value	2	-
Pasted value - for use in pure LRIC calculation		-
	parameter size of voice call	
Annual voice minutes		-
TDM	64	-
NGN	95	-
Blended size of voice call		-
Peak Mbps		-
TDM Mbps		-
NGN Mbps		-

Billed volumes to be used for cost recovery

Network services	Adjustment for billed minutes		
TDM Local on-net calls	100.00%	minutes	-
TDM Regional on-net calls	100.00%	minutes	-
TDM National on-net calls	100.00%	minutes	-
TDM Regional outgoing calls	100.00%	minutes	-
TDM National outgoing calls	100.00%	minutes	-
TDM Outgoing calls - international leg	100.00%	minutes	-
TDM Regional incoming calls	100.00%	minutes	-
TDM National incoming calls	100.00%	minutes	-
TDM Incoming calls - international leg	100.00%	minutes	-
TDM Local transit calls (wholesale)	100.00%	minutes	-
TDM Tandem transit calls (wholesale)	100.00%	minutes	-
TDM Dial-up Internet traffic	100.00%	minutes	-

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NGN Local on-net calls	100.00%	minutes	-
NGN Regional on-net calls	100.00%	minutes	-
NGN National on-net calls	100.00%	minutes	-
NGN Regional outgoing calls	100.00%	minutes	-
NGN National outgoing calls	100.00%	minutes	-
NGN Outgoing ss7 leg		minutes	-
NGN Outgoing SIP leg		minutes	-
NGN Regional incoming calls	100.00%	minutes	-
NGN National incoming calls	100.00%	minutes	-
NGN Incoming ss7 leg		minutes	-
NGN Incoming SIP leg		minutes	-
NGN Local transit calls	100.00%	minutes	-
NGN Tandem transit calls	100.00%	minutes	-
spare		Unitary	-
Low capacity digital leased lines (<=8 Mbps)		Converted to ec	-
High capacity digital leased lines (>8 Mbps)		Converted to ec	-
Fibre (dark or wavelength)		Unitary	-
Data services (sublocal VPN, contended)		Converted to ec	-
Data services (local VPN, contended)		Converted to ec	-
Data services (regional VPN, contended)		Converted to ec	-
Data services (national VPN, contended)		Converted to ec	-
Bitstream (direct, contended)		Converted to ec	-
xDSL (direct, contended)		Converted to ec	-
xDSL (indirect, contended)		Converted to ec	-
VoD (direct, contended)		Converted to ec	-
VoD (indirect, contended)		Converted to ec	-
Fibre traffic (direct, contended)		Converted to ec	-
Subscribers		Unitary	-
Fibre traffic (indirect, contended)		Converted to ec	-
linear TV broadcast (distribution to DSLAM/MSANs)		Converted to ec	-
linear TV broadcast (distribution to ER)		Converted to ec	-
linear TV broadcast (distribution to DR)		Converted to ec	-
linear TV broadcast (provisioning to CR)		Converted to ec	-
Cable traffic (direct, contended)		Converted to ec	-
Cable traffic (indirect, contended)		Converted to ec	-
TDM ss7 interconnection ports		Unitary	-
NGN ss7 interconnection ports		Unitary	-
sip interconnection ports		Unitary	-
		*Network_services_volumes_annual_*	

Check retail services allocation to network services

TDM voice	*0*
NGN voice	*0*

Routing factors

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Network services	Network service type	Nodes routing		TDM Access transmission
				RSX-LS
TDM Local on-net calls	TDM	RSX-LS-RSX	BHE	2
TDM Regional on-net calls	TDM	RSX-LS-MGW-LS-RSX	BHE	2
TDM National on-net calls	TDM	RSX-LS-MGW-MGW-LS-RSX	BHE	2
TDM Regional outgoing calls	TDM	RSX-LS-MGW-other operators	BHE	1
TDM National outgoing calls	TDM	RSX-LS-MGW-MGW-other operators	BHE	1
TDM Outgoing calls - international leg	TDM	...-IGW-international operators	BHE	-
TDM Regional incoming calls	TDM	other operators-MGW-LS-RSX	BHE	1
TDM National incoming calls	TDM	other operators-MGW-MGW-LS-RSX	BHE	1
TDM Incoming calls - international leg	TDM	international operators-IGW-…	BHE	-
TDM Local transit calls (wholesale)	TDM	other operators-MGW-other operators	BHE	-
TDM Tandem transit calls (wholesale)	TDM	other operators-MGW-MGW-other operators	BHE	-
TDM Dial-up Internet traffic	TDM	varying over time (e.g. from "RSX-LS-MGW"<c>-(	BHE	-
NGN Local on-net calls	NGN	MSAN-L2S-ER-DR-ER-L2S-MSAN	BHMbps	-
NGN Regional on-net calls	NGN	MSAN-L2S-ER-DR-CR-DR-ER-L2S-MSAN	BHMbps	-
NGN National on-net calls	NGN	MSAN-L2S-ER-DR-CR-CR-DR-ER-L2S-MSAN	BHMbps	-
NGN Regional outgoing calls	NGN	MSAN-L2S-ER-DR-CR	BHMbps	-
NGN National outgoing calls	NGN	MSAN-L2S-ER-DR-CR-CR	BHMbps	-
NGN Outgoing ss7 leg	NGN	...-SBC-<c>-TGW-other operators	BHMbps	-
NGN Outgoing SIP leg	NGN	...-SBC-PR-other operators	BHMbps	-
NGN Regional incoming calls	NGN	CR-DR-ER-L2S-MSAN	BHMbps	-
NGN National incoming calls	NGN	CR-CR-DR-ER-L2S-MSAN	BHMbps	-
NGN Incoming ss7 leg	NGN	other operators-TGW-<c>-SBC-…	BHMbps	-
NGN Incoming SIP leg	NGN	other operators-PR-SBC-…	BHMbps	-
NGN Local transit calls	NGN	other operators-CR-other operators	BHMbps	-
NGN Tandem transit calls	NGN	other operators-CR-CR-other operators	BHMbps	-
spare	spare	spare	spare	-
Low capacity digital leased lines (<=8 Mbps)	TDM	spare	BHMbps	-
High capacity digital leased lines (>8 Mbps)	TDM	spare	BHMbps	-
Fibre (dark or wavelength)	Common	spare	Units	-
Data services (sublocal VPN, contended)	Common	L2S-ER-L2S	BHMbps	-
Data services (local VPN, contended)	Common	L2S-ER-DR-ER-L2S	BHMbps	-
Data services (regional VPN, contended)	Common	L2S-ER-DR-CR-DR-ER-L2S	BHMbps	-
Data services (national VPN, contended)	Common	L2S-ER-DR-CR-CR-DR-ER-L2S	BHMbps	-
Bitstream (direct, contended)	Common	DSLAM/MSAN-L2S-ER	BHMbps	-
xDSL (direct, contended)	Common	DSLAM/MSAN-L2S-ER-DR	BHMbps	-
xDSL (indirect, contended)	Common	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR	BHMbps	-
VoD (direct, contended)	Common	DSLAM/MSAN-L2S-ER-DR	BHMbps	-
VoD (indirect, contended)	Common	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR	BHMbps	-
Fibre traffic (direct, contended)	Common	DSLAM/MSAN-L2S-ER-DR	BHMbps	-
Subscribers	Common	spare	Units	-

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Fibre traffic (indirect, contended)	Common	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR	BHMbps	-
linear TV broadcast (distribution to DSLAM/MSANs)	Common	DSLAM/MSAN-L2S-ER	BHMbps	-
linear TV broadcast (distribution to ER)	Common	ER-DR	BHMbps	-
linear TV broadcast (distribution to DR)	Common	DR-CR	BHMbps	-
linear TV broadcast (provisioning to CR)	Common	CR-service platforms	BHMbps	-
Cable traffic (direct, contended)	Common	ER-DR-ER	BHMbps	-
Cable traffic (indirect, contended)	Common	ER-DR-CR-CR-DR-ER	BHMbps	-
TDM ss7 interconnection ports	TDM	ports	Units	-
NGN ss7 interconnection ports	NGN	ports	Units	-
sip interconnection ports	NGN	ports	Units	-

Total Network traffic volumes, excluding dial-up, TDM leased lines and linear TV

Asset groups		Asset driven by traffic volumes?		
TDM Access transmission	RSX-LS	yes	BHE	-
TDM Distribution transmission	LS-MGW	yes	BHE	-
TDM Core transmission	MGW-MGW/IGW	yes	BHE	-
TDM Access switching	RSX	yes	BHE	-
TDM Distribution switching	LS	yes	BHE	-
TDM Core switching	MGW	yes	BHE	-
TDM International switching	IGW	yes	BHE	-
TDM Voice interconnection	MGW-other opera	yes	BHE	-
TDM call servers	Call Servers	no	BHCA	-
IP Access transmission	DSLAM/MSAN-L2	yes	BHMbit/s	-
IP Distribution transmission	DR-CR	yes	BHMbit/s	-
IP Core transmission	CR-CR	yes	BHMbit/s	-
IP Access routing	ER	yes	BHMbit/s	-
IP Distribution routing	DR	yes	BHMbit/s	-
IP Core routing	CR	yes	BHMbit/s	-
spare	spare	yes	spare	-
NGN Distribution SBC	Distribution SBCs	yes	BHMbit/s	-
NGN Interconnect SBC	Interconnection S	yes	BHMbit/s	-
NGN SIP Voice interconnection	Border Gateway	yes	BHMbit/s	-
NGN ss7 Voice interconnection	TGW	yes	BHMbit/s	-
NGN call servers	Call Servers	no	BHCA	-
Digital cross-connects	DCX	no	n/a	-
VPN access transmission	L2S-ER for VPN t	yes	BHMbit/s	-
NGN voice access	DSLAM/MSAN-L2	yes	BHMbit/s	-

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spare1	spare1	no	spare1	-
spare2	spare2	no	spare2	-
spare3	spare3	no	spare3	-
spare4	spare4	no	spare4	-
spare5	spare5	no	spare5	-
spare6	spare6	no	spare6	-
spare7	spare7	no	spare7	-
spare8	spare8	no	spare8	-
spare9	spare9	no	spare9	-
spare10	spare10	no	spare10	-
spare11	spare11	no	spare11	-

Asset call attempts

Asset groups		Asset driven by call attempts?		
TDM Access transmission	RSX-LS	no	n/a	-
TDM Distribution transmission	LS-MGW	no	n/a	-
TDM Core transmission	MGW-MGW/IGW	no	n/a	-
TDM Access switching	RSX	yes	BHCA	-
TDM Distribution switching	LS	yes	BHCA	-
TDM Core switching	MGW	yes	BHCA	-
TDM International switching	IGW	yes	BHCA	-
TDM Voice interconnection	MGW-other opera	no	n/a	-
TDM call servers	Call Servers	yes	BHCA	-
IP Access transmission	DSLAM/MSAN-L2	no	n/a	-
IP Distribution transmission	DR-CR	no	n/a	-
IP Core transmission	CR-CR	no	n/a	-
IP Access routing	ER	no	n/a	-
IP Distribution routing	DR	no	n/a	-
IP Core routing	CR	no	n/a	-
spare	spare	no	n/a	-
NGN Distribution SBC	Distribution SBCs	no	n/a	-
NGN Interconnect SBC	Interconnection S	no	n/a	-
NGN SIP Voice interconnection	Border Gateway	no	n/a	-
NGN ss7 Voice interconnection	TGW	no	n/a	-
NGN call servers	Call Servers	yes	BHCA	-
Digital cross-connects	DCX	no	n/a	-
VPN access transmission	L2S-ER for VPN t	no	n/a	-
NGN voice access	DSLAM/MSAN-L2	no	n/a	-
spare1	spare1	no	n/a	-
spare2	spare2	no	n/a	-
spare3	spare3	no	n/a	-
spare4	spare4	no	n/a	-
spare5	spare5	no	n/a	-
spare6	spare6	no	n/a	-
spare7	spare7	no	n/a	-

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spare8	spare8	no	n/a	-
spare9	spare9	no	n/a	-
spare10	spare10	no	n/a	-
spare11	spare11	no	n/a	-

Network services call attempts

	Nodes routing		
TDM Local on-net calls	RSX-LS-RSX	BHCA	-
TDM Regional on-net calls	RSX-LS-MGW-LS-RSX	BHCA	-
TDM National on-net calls	RSX-LS-MGW-MGW-LS-RSX	BHCA	-
TDM Regional outgoing calls	RSX-LS-MGW-other operators	BHCA	-
TDM National outgoing calls	RSX-LS-MGW-MGW-other operators	BHCA	-
TDM Outgoing calls - international leg	...-IGW-international operators	BHCA	-
TDM Regional incoming calls	other operators-MGW-LS-RSX	BHCA	-
TDM National incoming calls	other operators-MGW-MGW-LS-RSX	BHCA	-
TDM Incoming calls - international leg	international operators-IGW-…	BHCA	-
TDM Local transit calls (wholesale)	other operators-MGW-other operators	BHCA	-
TDM Tandem transit calls (wholesale)	other operators-MGW-MGW-other operators	BHCA	-
TDM Dial-up Internet traffic	varying over time (e.g. from "RSX-LS-MGW"<c>-(	BHCA	-
NGN Local on-net calls	MSAN-L2S-ER-DR-ER-L2S-MSAN	BHCA	-
NGN Regional on-net calls	MSAN-L2S-ER-DR-CR-DR-ER-L2S-MSAN	BHCA	-
NGN National on-net calls	MSAN-L2S-ER-DR-CR-CR-DR-ER-L2S-MSAN	BHCA	-
NGN Regional outgoing calls	MSAN-L2S-ER-DR-CR	BHCA	-
NGN National outgoing calls	MSAN-L2S-ER-DR-CR-CR	BHCA	-
NGN Outgoing ss7 leg	...-SBC-<c>-TGW-other operators	BHCA	-
NGN Outgoing SIP leg	...-SBC-PR-other operators	BHCA	-
NGN Regional incoming calls	CR-DR-ER-L2S-MSAN	BHCA	-
NGN National incoming calls	CR-CR-DR-ER-L2S-MSAN	BHCA	-
NGN Incoming ss7 leg	other operators-TGW-<c>-SBC-…	BHCA	-
NGN Incoming SIP leg	other operators-PR-SBC-…	BHCA	-
NGN Local transit calls	other operators-CR-other operators	BHCA	-
NGN Tandem transit calls	other operators-CR-CR-other operators	BHCA	-
spare	spare	BHCA	-
Low capacity digital leased lines (<=8 Mbps)	spare	BHCA	-
High capacity digital leased lines (>8 Mbps)	spare	BHCA	-
Fibre (dark or wavelength)	spare	BHCA	-
Data services (sublocal VPN, contended)	L2S-ER-L2S	BHCA	-
Data services (local VPN, contended)	L2S-ER-DR-ER-L2S	BHCA	-
Data services (regional VPN, contended)	L2S-ER-DR-CR-DR-ER-L2S	BHCA	-
Data services (national VPN, contended)	L2S-ER-DR-CR-CR-DR-ER-L2S	BHCA	-
Bitstream (direct, contended)	DSLAM/MSAN-L2S-ER	BHCA	-
xDSL (direct, contended)	DSLAM/MSAN-L2S-ER-DR	BHCA	-
xDSL (indirect, contended)	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR	BHCA	-
VoD (direct, contended)	DSLAM/MSAN-L2S-ER-DR	BHCA	-
VoD (indirect, contended)	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR	BHCA	-
Fibre traffic (direct, contended)	DSLAM/MSAN-L2S-ER-DR	BHCA	-
Subscribers	spare	BHCA	-

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Fibre traffic (indirect, contended)	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR	BHCA	-
linear TV broadcast (distribution to DSLAM/MSANs)	DSLAM/MSAN-L2S-ER	BHCA	-
linear TV broadcast (distribution to ER)	ER-DR	BHCA	-
linear TV broadcast (distribution to DR)	DR-CR	BHCA	-
linear TV broadcast (provisioning to CR)	CR-service platforms	BHCA	-
Cable traffic (direct, contended)	ER-DR-ER	BHCA	-
Cable traffic (indirect, contended)	ER-DR-CR-CR-DR-ER	BHCA	-
TDM ss7 interconnection ports	ports	BHCA	-
NGN ss7 interconnection ports	ports	BHCA	-
sip interconnection ports	ports	BHCA	-

Check retail services allocation to network services

TDM voice	*0*
NGN voice	*0*

Wholesale billing system calculation

Annual demand

Voice calls (successful)	-
Approx daily CDRs	-

Wholesale billed voice traffic

Originated minutes	-
Terminated minutes	-

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tions calculatio

2	3	4	5	6	7	8	9	10
1992	1993	1994	1995	1996	1997	1998	1999	2000
11,966,775,244	12,332,720,375	12,608,078,490	12,688,821,053	12,689,699,133	12,571,160,674	12,335,187,684	12,494,941,018	12,172,594,429
412,345,040	424,954,591	436,569,358	446,608,496	454,904,824	457,801,569	457,000,000	541,084,756	500,607,334
-	-	67,271,081	296,829,556	558,309,401	779,147,648	1,011,000,000	1,387,543,626	1,514,286,364
-	-	-	-	-	-	-	150,157,385	484,865,519
1,076,895,708	1,109,827,282	1,134,606,888	1,141,872,949	1,141,951,968	1,131,284,636	1,110,049,316	1,137,938,327	1,139,050,748
412,345,040	424,954,591	511,528,521	777,503,978	1,077,654,513	1,327,417,818	1,586,348,303	2,623,324,773	3,501,333,032
-	-	-	-	-	-	-	67,264,738	184,280,686
-	-	-	-	-	-	-	920,469,733	3,067,260,959
-	-	-	-	-	-	-	23,601,788	161,434,787
-	-	23,846,485	115,689,823	244,401,311	380,613,289	564,197,922	248,018,353	453,791,836
-	-	-	-	-	-	-	-	-
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,297,000
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	669
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-
9,419	10,481	11,662	12,976	14,439	16,066	17,877	19,213	20,624
73,121	75,353	77,654	80,024	82,468	84,985	87,580	82,712	77,466
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
2,233,365	2,301,661	2,363,439	2,411,657	2,435,728	2,382,598	2,245,270	2,110,260	1,974,466
-	-	1,044	6,834	26,700	93,912	225,321	433,207	670,118
-	-	87	454	1,452	3,059	4,637	6,762	8,989
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-
2,233,365	2,301,661	2,363,439	2,411,657	2,435,728	2,382,598	2,245,270	2,103,211	1,943,027
-	-	1,131	7,288	28,151	96,971	229,957	439,969	679,107
-	-	-	-	-	-	-	-	-

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2,393,355,049	2,466,544,075	2,521,615,698	2,537,764,211	2,537,939,827	2,514,232,135	2,467,037,537	2,498,988,204	2,434,518,886
103,086,260	106,238,648	109,142,339	111,652,124	113,726,206	114,450,392	114,250,000	135,271,189	125,151,834
-	-	26,908,432	118,731,822	223,323,761	311,659,059	404,400,000	555,017,450	605,714,546
-	-	-	-	-	-	-	30,031,477	96,973,104
269,223,927	277,456,821	283,651,722	285,468,237	285,487,992	282,821,159	277,512,329	284,484,582	284,762,687
103,086,260	106,238,648	127,882,130	194,375,994	269,413,628	331,854,454	396,587,076	655,831,193	875,333,258
-	-	-	-	-	-	-	16,816,184	46,070,171
-	-	-	-	-	-	-	230,117,433	766,815,240
-	-	-	-	-	-	-	5,900,447	40,358,697
-	-	5,961,621	28,922,456	61,100,328	95,153,322	141,049,480	62,004,588	113,447,959
-	-	-	-	-	-	-	-	-
-	-	3,333,333	9,333,333	19,666,667	35,985,800	70,392,100	161,194,167	246,709,900
-	-	-	-	-	-	-	-	-

2,632,690,554	2,713,198,483	2,773,777,268	2,791,540,632	2,791,733,809	2,765,655,348	2,713,741,290	2,748,887,024	2,677,970,774
113,394,886	116,862,512	120,056,573	122,817,336	125,098,827	125,895,432	125,675,000	148,798,308	137,667,017
-	-	29,599,276	130,605,004	245,656,137	342,824,965	444,840,000	610,519,195	666,286,000
-	-	-	-	-	-	-	33,034,625	106,670,414
296,146,320	305,202,503	312,016,894	314,015,061	314,036,791	311,103,275	305,263,562	312,933,040	313,238,956
113,394,886	116,862,512	140,670,343	213,813,594	296,354,991	365,039,900	436,245,783	721,414,313	962,866,584
-	-	-	-	-	-	-	18,497,803	50,677,189
-	-	-	-	-	-	-	253,129,177	843,496,764
-	-	-	-	-	-	-	6,490,492	44,394,567
-	-	6,557,783	31,814,701	67,210,361	104,668,654	155,154,428	68,205,047	124,792,755
-	-	-	-	-	-	-	-	-
-	-	3,666,667	10,266,667	21,633,333	39,584,380	77,431,310	177,313,583	271,380,890
-	-	-	-	-	-	-	-	-

12,461,401,954	12,842,472,817	13,129,212,401	13,213,292,324	13,214,206,697	13,090,768,648	12,845,042,108	13,011,398,581	12,675,728,332
433,649,534	446,910,578	459,125,441	469,683,268	478,408,240	481,454,650	480,611,667	569,040,802	526,472,046
-	-	72,832,157	321,367,466	604,462,978	843,557,187	1,094,576,000	1,502,247,232	1,639,467,370
-	-	-	-	-	-	-	156,363,890	504,906,627

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1,132,535,320	1,167,168,358	1,193,228,244	1,200,869,718	1,200,952,819	1,189,734,342	1,167,401,864	1,196,731,807	1,197,901,704
433,649,534	446,910,578	537,957,495	817,675,017	1,133,333,329	1,396,001,071	1,668,309,632	2,758,863,220	3,682,235,238
-	-	-	-	-	-	-	70,740,083	193,801,855
-	-	-	-	-	-	-	968,027,336	3,225,736,109
-	-	-	-	-	-	-	24,821,214	169,775,585
-	-	25,078,553	121,667,130	257,028,712	400,278,309	593,348,147	260,832,635	477,237,747
-	-	-	-	-	-	-	-	-
-	-	100,688,889	281,928,889	594,064,444	1,087,011,065	2,126,310,701	4,869,138,461	7,452,283,713
-	-	-	-	-	-	-	-	-

12,461,401,954	12,842,472,817	13,129,212,401	13,213,292,324	13,214,206,697	13,090,768,648	12,845,042,108	13,011,398,581	12,675,728,332
433,649,534	446,910,578	459,125,441	469,683,268	478,408,240	481,454,650	480,611,667	569,040,802	526,472,046
-	-	72,832,157	321,367,466	604,462,978	843,557,187	1,094,576,000	1,502,247,232	1,639,467,370
-	-	-	-	-	-	-	156,363,890	504,906,627
1,132,535,320	1,167,168,358	1,193,228,244	1,200,869,718	1,200,952,819	1,189,734,342	1,167,401,864	1,196,731,807	1,197,901,704
433,649,534	446,910,578	537,957,495	817,675,017	1,133,333,329	1,396,001,071	1,668,309,632	2,758,863,220	3,682,235,238
-	-	-	-	-	-	-	70,740,083	193,801,855
-	-	-	-	-	-	-	968,027,336	3,225,736,109
-	-	-	-	-	-	-	24,821,214	169,775,585
-	-	25,078,553	121,667,130	257,028,712	400,278,309	593,348,147	260,832,635	477,237,747
-	-	-	-	-	-	-	-	-
-	-	100,688,889	281,928,889	594,064,444	1,087,011,065	2,126,310,701	4,869,138,461	7,452,283,713
-	-	-	-	-	-	-	-	-

2,632,690,554	2,713,198,483	2,773,777,268	2,791,540,632	2,791,733,809	2,765,655,348	2,713,741,290	2,748,887,024	2,677,970,774
113,394,886	116,862,512	120,056,573	122,817,336	125,098,827	125,895,432	125,675,000	148,798,308	137,667,017
-	-	29,599,276	130,605,004	245,656,137	342,824,965	444,840,000	610,519,195	666,286,000
-	-	-	-	-	-	-	33,034,625	106,670,414
296,146,320	305,202,503	312,016,894	314,015,061	314,036,791	311,103,275	305,263,562	312,933,040	313,238,956
113,394,886	116,862,512	140,670,343	213,813,594	296,354,991	365,039,900	436,245,783	721,414,313	962,866,584
-	-	-	-	-	-	-	18,497,803	50,677,189
-	-	-	-	-	-	-	253,129,177	843,496,764
-	-	-	-	-	-	-	6,490,492	44,394,567
-	-	6,557,783	31,814,701	67,210,361	104,668,654	155,154,428	68,205,047	124,792,755
-	-	-	-	-	-	-	-	-
-	-	3,666,667	10,266,667	21,633,333	39,584,380	77,431,310	177,313,583	271,380,890
-	-	-	-	-	-	-	-	-

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11,966,775,244	12,332,720,375	12,608,078,490	12,688,821,053	12,689,699,133	12,571,160,674	12,335,187,684	12,494,941,018	12,172,594,429
412,345,040	424,954,591	436,569,358	446,608,496	454,904,824	457,801,569	457,000,000	541,084,756	500,607,334
-	-	67,271,081	296,829,556	558,309,401	779,147,648	1,011,000,000	1,387,543,626	1,514,286,364
-	-	-	-	-	-	-	150,157,385	484,865,519
1,076,895,708	1,109,827,282	1,134,606,888	1,141,872,949	1,141,951,968	1,131,284,636	1,110,049,316	1,137,938,327	1,139,050,748
412,345,040	424,954,591	511,528,521	777,503,978	1,077,654,513	1,327,417,818	1,586,348,303	2,623,324,773	3,501,333,032
-	-	-	-	-	-	-	67,264,738	184,280,686
-	-	-	-	-	-	-	920,469,733	3,067,260,959
-	-	-	-	-	-	-	23,601,788	161,434,787
-	-	23,846,485	115,689,823	244,401,311	380,613,289	564,197,922	248,018,353	453,791,836
-	-	-	-	-	-	-	-	-
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,297,000
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
84,738	87,329	89,279	89,850	89,857	89,017	87,346	88,478	86,195
2,602	2,681	2,755	2,818	2,870	2,889	2,884	3,414	3,159
-	-	495	2,185	4,110	5,736	7,443	10,215	11,148
-	-	-	-	-	-	-	1,063	3,433
7,701	7,937	8,114	8,166	8,166	8,090	7,938	8,138	8,146
2,949	3,039	3,658	5,560	7,707	9,493	11,345	18,760	25,039
-	-	-	-	-	-	-	481	1,318
-	-	-	-	-	-	-	6,583	21,935
-	-	-	-	-	-	-	169	1,154
-	-	171	827	1,748	2,722	4,035	1,774	3,245
-	-	-	-	-	-	-	-	-
-	-	685	1,917	4,040	7,392	14,459	33,110	50,676
-	-	-	-	-	-	-	-	-
1,074,138	1,106,985	1,131,701	1,138,949	1,139,027	1,128,387	1,107,206	1,121,546	1,092,612
40,822	42,071	43,220	44,214	45,036	45,322	45,243	53,567	49,560
-	-	12,077	53,287	100,228	139,873	181,495	249,092	271,845
-	-	-	-	-	-	-	13,478	43,522
120,828	124,523	127,303	128,118	128,127	126,930	124,548	127,677	127,801
46,265	47,680	57,394	87,236	120,913	148,936	177,988	294,337	392,850
-	-	-	-	-	-	-	7,547	20,676
-	-	-	-	-	-	-	103,277	344,147
-	-	-	-	-	-	-	2,648	18,113
-	-	2,676	12,980	27,422	42,705	63,303	27,828	50,915
-	-	-	-	-	-	-	-	-
-	-	1,496	4,189	8,826	16,150	31,592	72,344	110,723
-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28
12	12	12	12	12	12	12	12	12

100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*
6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%
77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%

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83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28
100%	100%	100%	100%	100%	100%	100%	100%	100%
94%	94%	94%	94%	94%	94%	94%	94%	94%
64%	64%	64%	64%	64%	64%	64%	64%	64%
-	-	-	-	-	-	-	-	14
-	-	-	-	-	-	-	-	7
-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	1
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.1%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.1%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	85.7%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
0%	0%	0%	0%	0%	0%	0%	0%	0%
5,199	5,358	5,477	5,512	5,513	5,461	5,359	5,428	5,288

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65,416	67,416	68,922	69,363	69,368	68,720	67,430	68,303	66,541
14,123	14,555	14,880	14,975	14,976	14,836	14,558	14,746	14,366
8,586	8,849	9,470	10,974	12,623	13,929	15,221	25,608	43,507
1,717	1,770	1,894	2,195	2,525	2,786	3,044	3,974	5,469
2,602	2,681	2,755	2,818	2,870	2,889	2,884	3,414	3,159
2,949	3,039	3,658	5,560	7,707	9,493	11,345	18,760	25,039
-	-	-	-	-	-	-	481	1,318
745	767	887	1,190	1,460	1,641	1,791	2,877	3,216
-	-	171	827	1,748	2,722	4,035	1,774	3,245
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-	-	685	1,917	4,040	7,392	14,459	33,110	50,676
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9,419	10,481	11,662	12,976	14,439	16,066	17,877	19,213	20,624
73,121	75,353	77,654	80,024	82,468	84,985	87,580	82,712	77,466
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2,211,392	**2,211,392**	**2,211,285**	**2,210,226**	**2,209,547**	**2,209,887**	**2,212,025**	**2,216,932**	**2,217,815**
2,211,392	2,211,392	2,211,285	2,210,226	2,209,547	2,209,887	2,212,025	2,216,932	2,217,815
2,211,392	2,211,392	2,211,285	2,210,226	2,209,547	2,209,887	2,212,025	2,216,932	2,217,815
13,868,361,032	14,292,456,839	14,881,900,823	15,747,325,855	16,756,921,150	17,726,999,634	19,175,546,225	24,430,169,498	30,580,802,694
13,868,361,032	14,292,456,839	14,881,900,823	15,747,325,855	16,756,921,150	17,726,999,634	19,175,546,225	24,430,169,498	30,580,802,694
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64	64	64	64	64	64	64	64	64
6,271	6,463	6,730	7,125	7,584	8,022	8,669	11,020	13,789
6,271	6,463	6,730	7,125	7,584	8,022	8,669	11,020	13,789
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734,157,990	756,608,612	773,501,748	778,455,279	778,509,149	771,236,851	756,759,981	766,560,799	746,784,934
9,238,154,713	9,520,658,367	9,733,230,327	9,795,562,265	9,796,240,128	9,704,730,377	9,522,563,089	9,645,890,050	9,397,043,756
1,994,462,541	2,055,453,396	2,101,346,415	2,114,803,509	2,114,949,856	2,095,193,446	2,055,864,614	2,082,490,170	2,028,765,738
1,241,033,957	1,278,984,894	1,365,372,772	1,571,092,500	1,795,971,827	1,973,528,211	2,148,374,430	3,601,073,145	6,099,602,597
248,206,791	255,796,979	273,074,554	314,218,500	359,194,365	394,705,642	429,674,886	559,722,470	767,903,115
412,345,040	424,954,591	436,569,358	446,608,496	454,904,824	457,801,569	457,000,000	541,084,756	500,607,334
412,345,040	424,954,591	511,528,521	777,503,978	1,077,654,513	1,327,417,818	1,586,348,303	2,623,324,773	3,501,333,032
-	-	-	-	-	-	-	67,264,738	184,280,686
114,171,219	117,662,586	136,298,357	184,181,752	227,467,486	256,602,176	281,205,317	452,583,724	507,046,335
-	-	23,846,485	115,689,823	244,401,311	380,613,289	564,197,922	248,018,353	453,791,836
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20,829,312,338	23,176,964,600	25,787,968,854	28,680,771,351	31,903,552,849	35,504,827,977	39,544,771,878	42,594,815,014	45,739,667,334
161,698,811,390	166,635,446,520	171,714,474,883	176,872,181,868	182,216,077,155	187,807,958,858	193,728,979,781	183,367,216,263	171,804,307,916
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TDM Transmission	TDM Equipment	TDM Equipment	

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TDM Distribution transmission	TDM Core transmission	TDM Access switching	TDM Distribution switching	TDM Core switching	TDM International switching	TDM Voice interconnection	TDM call servers	IP Access transmission
LS-MGW	MGW-MGW/IGW	RSX	LS	MGW	IGW	MGW-other operators	Call Servers	DSLAM/MSAN-L2S-ER-
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2	-	2	2	1	-	-	1	-
2	1	2	2	2	-	-	1	-
1	-	1	1	1	-	1	1	-
1	1	1	1	2	-	1	1	-
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1	-	1	1	1	-	1	1	-
1	1	1	1	2	-	1	1	-
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DSLAM/MSAN-L2S-ER-DR-CR-CR	1
DSLAM/MSAN-L2S-ER-DR-CR-CR-DR	1
DSLAM/MSAN-L2S-ER-DR-CR-CR-DR-ER	1

182,727	188,315	193,579	198,430	202,567	204,242	204,302	225,778	247,723
172,330	177,600	182,625	187,406	191,542	193,320	193,585	214,922	237,147
15,840	16,325	16,774	17,170	17,501	17,622	17,602	19,201	21,153
182,727	188,315	193,579	198,430	202,567	204,242	204,302	225,778	247,723
177,528	182,957	188,102	192,918	197,054	198,781	198,944	220,350	242,435
108,631	111,953	115,768	121,065	126,446	130,108	133,234	152,848	180,638
3,347	3,449	3,642	4,008	4,331	4,529	4,675	6,292	6,375
13,252	13,657	15,363	20,384	26,350	31,652	37,679	52,371	81,823
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2,356,190	2,428,243	2,503,396	2,590,752	2,672,358	2,717,836	2,743,686	3,094,715	3,453,738
2,290,292	2,360,330	2,433,966	2,520,878	2,602,479	2,648,610	2,675,760	3,025,908	3,386,706
1,422,119	1,465,608	1,523,991	1,622,338	1,726,276	1,803,013	1,874,938	2,203,279	2,648,022
40,822	42,071	43,220	44,214	45,036	45,322	45,243	53,567	49,560
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1,322,875	1,363,329	1,417,590	1,508,998	1,605,788	1,677,476	1,745,026	2,054,564	2,461,601
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65,898	67,913	69,430	69,874	69,879	69,226	67,927	68,806	67,031
829,217	854,574	873,655	879,250	879,311	871,097	854,745	865,815	843,479
179,023	184,497	188,617	189,825	189,838	188,065	184,534	186,924	182,102
134,708	138,828	152,166	188,016	227,825	260,104	292,738	473,122	754,753
26,942	27,766	30,433	37,603	45,565	52,021	58,548	76,617	100,234
40,822	42,071	43,220	44,214	45,036	45,322	45,243	53,567	49,560
46,265	47,680	57,394	87,236	120,913	148,936	177,988	294,337	392,850
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-	-	2,676	12,980	27,422	42,705	63,303	27,828	50,915
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-	-	1,496	4,189	8,826	16,150	31,592	72,344	110,723
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2,868,751,496	2,956,478,191	3,078,495,277	3,286,248,178	3,510,658,408	3,686,156,322	3,871,228,522	4,635,656,915	5,635,856,281
9,753,755	10,052,026	10,466,884	11,173,244	11,936,239	12,532,931	13,162,177	15,761,234	19,161,911
-	-	-	-	-	-	-	944,071,521	3,228,695,747
412,345,040	424,954,591	511,528,521	777,503,978	1,077,654,513	1,327,417,818	1,586,348,303	2,690,589,511	3,685,613,718

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2001	2002	2003	2004	2005	2006	2007	2008	2009
10,646,148,431	8,833,713,801	7,475,664,138	5,845,078,509	4,770,662,532	3,885,291,980	3,223,262,500	2,689,814,158	2,043,367,455
526,179,260	450,114,956	408,333,382	348,920,065	365,548,217	390,560,011	383,261,783	379,632,514	140,801,738
1,571,713,934	1,597,884,118	1,549,886,849	1,376,896,022	1,350,472,306	1,323,332,936	1,164,488,517	1,022,690,636	852,491,936
748,616,097	885,032,692	989,967,181	1,031,484,443	841,881,623	685,639,761	568,811,029	474,673,087	360,594,257
1,025,420,196	874,594,548	761,826,127	618,825,120	505,075,477	411,340,288	341,250,473	284,773,689	290,121,551
4,201,318,780	4,392,425,552	4,609,425,278	4,433,788,299	3,856,572,968	3,177,136,174	2,861,356,996	2,503,088,824	1,887,304,529
340,647,469	488,047,284	658,489,325	782,433,229	680,571,700	560,671,090	504,945,352	441,721,557	333,053,740
4,184,021,789	4,090,095,614	4,353,466,051	4,250,000,000	3,612,500,000	2,975,000,000	2,337,500,000	1,700,000,000	1,239,680,644
339,245,010	454,455,068	621,923,722	750,000,000	637,500,000	525,000,000	412,500,000	300,000,000	218,767,172
684,593,733	803,251,457	915,403,993	1,000,000,000	1,000,000,000	1,000,000,000	1,000,000,000	1,000,000,000	906,619,103
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8,723,000,000	8,176,000,000	7,322,862,992	5,486,000,000	3,366,000,000	1,608,906,000	804,985,197	323,081,000	138,530,000
-	-	-	-	-	-	-	-	-
16,482	73,512	146,060	249,269	391,964	509,519	588,094	625,554	618,114
-	-	-	-	-	-	-	-	-
-	-	-	45,500	100,000	125,000	142,500	125,000	95,380
2	26	126	597	2,199	5,910	13,397	25,613	42,873
0	3	3	176	319	613	586	251	3,455
22,108	25,588	23,641	23,394	21,804	16,916	15,612	16,400	16,640
83,289	70,043	61,735	72,574	92,450	95,629	72,477	77,552	97,336
-	-	-	-	-	-	-	-	-
-	-	2,370	9,654	19,069	24,624	24,679	29,689	33,814
-	-	-	-	-	-	-	-	-
1,804,582	1,662,163	1,591,857	1,530,567	1,427,875	1,292,616	1,164,489	1,071,242	989,281
806,162	845,527	844,375	798,745	698,417	572,251	477,549	412,063	354,299
10,664	12,133	13,239	14,062	13,261	11,253	9,786	8,707	7,611
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1	5	19	59	204	670	1,962	5,817	15,405
0	0	0	1	3	10	17	12	275
1,743,469	1,577,038	1,471,699	1,375,905	1,306,822	1,268,996	1,218,166	1,161,230	1,091,841
816,826	857,660	857,614	812,807	711,678	583,504	487,334	420,770	361,910
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2,129,229,686	1,766,742,760	1,495,132,828	1,169,015,702	954,132,506	777,058,396	644,652,500	537,962,832	408,673,491
131,544,815	112,528,739	102,083,345	87,230,016	91,387,054	97,640,003	95,815,446	94,908,129	35,200,434
628,685,574	639,153,647	619,954,739	550,758,409	540,188,922	529,333,174	465,795,407	409,076,254	340,996,775
149,723,219	177,006,538	197,993,436	206,296,889	168,376,325	137,127,952	113,762,206	94,934,617	72,118,851
256,355,049	218,648,637	190,456,532	154,706,280	126,268,869	102,835,072	85,312,618	71,193,422	72,530,388
1,050,329,695	1,098,106,388	1,152,356,319	1,108,447,075	964,143,242	794,284,044	715,339,249	625,772,206	471,826,132
85,161,867	122,011,821	164,622,331	195,608,307	170,142,925	140,167,772	126,236,338	110,430,389	83,263,435
1,046,005,447	1,022,523,903	1,088,366,513	1,062,500,000	903,125,000	743,750,000	584,375,000	425,000,000	309,920,161
84,811,252	113,613,767	155,480,930	187,500,000	159,375,000	131,250,000	103,125,000	75,000,000	54,691,793
171,148,433	200,812,864	228,850,998	250,000,000	250,000,000	250,000,000	250,000,000	250,000,000	226,654,776
-	-	-	-	-	-	-	-	-
290,766,667	272,533,333	244,095,433	182,866,667	112,200,000	53,630,200	26,832,840	10,769,367	4,617,667
-	-	-	-	-	-	-	-	-

2,342,152,655	1,943,417,036	1,644,646,110	1,285,917,272	1,049,545,757	854,764,236	709,117,750	591,759,115	449,540,840
144,699,296	123,781,613	112,291,680	95,953,018	100,525,760	107,404,003	105,396,990	104,398,941	38,720,478
691,554,131	703,069,012	681,950,213	605,834,250	594,207,815	582,266,492	512,374,948	449,983,880	375,096,452
164,695,541	194,707,192	217,792,780	226,926,577	185,213,957	150,840,747	125,138,426	104,428,079	79,330,737
281,990,554	240,513,501	209,502,185	170,176,908	138,895,756	113,118,579	93,843,880	78,312,764	79,783,426
1,155,362,665	1,207,917,027	1,267,591,951	1,219,291,782	1,060,557,566	873,712,448	786,873,174	688,349,427	519,008,745
93,678,054	134,213,003	181,084,564	215,169,138	187,157,218	154,184,550	138,859,972	121,473,428	91,589,779
1,150,605,992	1,124,776,294	1,197,203,164	1,168,750,000	993,437,500	818,125,000	642,812,500	467,500,000	340,912,177
93,292,378	124,975,144	171,029,023	206,250,000	175,312,500	144,375,000	113,437,500	82,500,000	60,160,972
188,263,277	220,894,151	251,736,098	275,000,000	275,000,000	275,000,000	275,000,000	275,000,000	249,320,253
-	-	-	-	-	-	-	-	-
319,843,333	299,786,667	268,504,976	201,153,333	123,420,000	58,993,220	29,516,124	11,846,303	5,079,433
-	-	-	-	-	-	-	-	-

11,086,189,233	9,198,840,638	7,784,658,256	6,086,675,087	4,967,849,917	4,045,884,048	3,356,490,684	2,800,993,143	2,127,826,644
553,365,188	473,370,895	429,430,607	366,947,602	384,434,875	410,738,945	403,063,642	399,246,861	148,076,494
1,701,642,286	1,729,975,872	1,678,010,828	1,490,719,427	1,462,111,350	1,432,728,459	1,260,752,901	1,107,233,062	922,964,603
779,558,895	921,614,043	1,030,885,824	1,074,119,133	876,679,397	713,979,538	592,321,885	494,292,908	375,498,819

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1,078,400,240	919,781,933	801,187,143	650,797,752	531,171,043	432,592,869	358,881,747	299,486,996	305,111,164
4,418,386,917	4,619,367,538	4,847,578,917	4,662,867,361	4,055,829,238	3,341,288,210	3,009,193,774	2,632,415,080	1,984,815,263
358,247,588	513,263,060	692,511,274	822,858,946	715,734,571	589,639,096	531,034,195	464,543,838	350,261,517
4,400,196,248	4,301,417,220	4,578,395,131	4,469,583,333	3,799,145,833	3,128,708,333	2,458,270,833	1,787,833,333	1,303,730,810
356,772,669	477,935,247	654,056,447	788,750,000	670,437,500	552,125,000	433,812,500	315,500,000	230,070,143
719,964,410	844,752,782	962,699,866	1,051,666,667	1,051,666,667	1,051,666,667	1,051,666,667	1,051,666,667	953,461,090
-	-	-	-	-	-	-	-	-
8,783,091,778	8,232,323,556	7,373,309,382	5,523,792,444	3,389,188,000	1,619,989,575	810,530,650	325,306,669	139,484,318
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11,086,189,233	9,198,840,638	7,784,658,256	6,086,675,087	4,967,849,917	4,045,884,048	3,356,490,684	2,800,993,143	2,127,826,644
553,365,188	473,370,895	429,430,607	366,947,602	384,434,875	410,738,945	403,063,642	399,246,861	148,076,494
1,701,642,286	1,729,975,872	1,678,010,828	1,490,719,427	1,462,111,350	1,432,728,459	1,260,752,901	1,107,233,062	922,964,603
779,558,895	921,614,043	1,030,885,824	1,074,119,133	876,679,397	713,979,538	592,321,885	494,292,908	375,498,819
1,078,400,240	919,781,933	801,187,143	650,797,752	531,171,043	432,592,869	358,881,747	299,486,996	305,111,164
4,418,386,917	4,619,367,538	4,847,578,917	4,662,867,361	4,055,829,238	3,341,288,210	3,009,193,774	2,632,415,080	1,984,815,263
358,247,588	513,263,060	692,511,274	822,858,946	715,734,571	589,639,096	531,034,195	464,543,838	350,261,517
4,400,196,248	4,301,417,220	4,578,395,131	4,469,583,333	3,799,145,833	3,128,708,333	2,458,270,833	1,787,833,333	1,303,730,810
356,772,669	477,935,247	654,056,447	788,750,000	670,437,500	552,125,000	433,812,500	315,500,000	230,070,143
719,964,410	844,752,782	962,699,866	1,051,666,667	1,051,666,667	1,051,666,667	1,051,666,667	1,051,666,667	953,461,090
-	-	-	-	-	-	-	-	-
8,783,091,778	8,232,323,556	7,373,309,382	5,523,792,444	3,389,188,000	1,619,989,575	810,530,650	325,306,669	139,484,318
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2,342,152,655	1,943,417,036	1,644,646,110	1,285,917,272	1,049,545,757	854,764,236	709,117,750	591,759,115	449,540,840
144,699,296	123,781,613	112,291,680	95,953,018	100,525,760	107,404,003	105,396,990	104,398,941	38,720,478
691,554,131	703,069,012	681,950,213	605,834,250	594,207,815	582,266,492	512,374,948	449,983,880	375,096,452
164,695,541	194,707,192	217,792,780	226,926,577	185,213,957	150,840,747	125,138,426	104,428,079	79,330,737
281,990,554	240,513,501	209,502,185	170,176,908	138,895,756	113,118,579	93,843,880	78,312,764	79,783,426
1,155,362,665	1,207,917,027	1,267,591,951	1,219,291,782	1,060,557,566	873,712,448	786,873,174	688,349,427	519,008,745
93,678,054	134,213,003	181,084,564	215,169,138	187,157,218	154,184,550	138,859,972	121,473,428	91,589,779
1,150,605,992	1,124,776,294	1,197,203,164	1,168,750,000	993,437,500	818,125,000	642,812,500	467,500,000	340,912,177
93,292,378	124,975,144	171,029,023	206,250,000	175,312,500	144,375,000	113,437,500	82,500,000	60,160,972
188,263,277	220,894,151	251,736,098	275,000,000	275,000,000	275,000,000	275,000,000	275,000,000	249,320,253
-	-	-	-	-	-	-	-	-
319,843,333	299,786,667	268,504,976	201,153,333	123,420,000	58,993,220	29,516,124	11,846,303	5,079,433
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10,646,148,431	8,833,713,801	7,475,664,138	5,845,078,509	4,770,662,532	3,885,291,980	3,223,262,500	2,689,814,158	2,043,367,455
526,179,260	450,114,956	408,333,382	348,920,065	365,548,217	390,560,011	383,261,783	379,632,514	140,801,738
1,571,713,934	1,597,884,118	1,549,886,849	1,376,896,022	1,350,472,306	1,323,332,936	1,164,488,517	1,022,690,636	852,491,936
748,616,097	885,032,692	989,967,181	1,031,484,443	841,881,623	685,639,761	568,811,029	474,673,087	360,594,257
1,025,420,196	874,594,548	761,826,127	618,825,120	505,075,477	411,340,288	341,250,473	284,773,689	290,121,551
4,201,318,780	4,392,425,552	4,609,425,278	4,433,788,299	3,856,572,968	3,177,136,174	2,861,356,996	2,503,088,824	1,887,304,529
340,647,469	488,047,284	658,489,325	782,433,229	680,571,700	560,671,090	504,945,352	441,721,557	333,053,740
4,184,021,789	4,090,095,614	4,353,466,051	4,250,000,000	3,612,500,000	2,975,000,000	2,337,500,000	1,700,000,000	1,239,680,644
339,245,010	454,455,068	621,923,722	750,000,000	637,500,000	525,000,000	412,500,000	300,000,000	218,767,172
684,593,733	803,251,457	915,403,993	1,000,000,000	1,000,000,000	1,000,000,000	1,000,000,000	1,000,000,000	906,619,103
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8,723,000,000	8,176,000,000	7,322,862,992	5,486,000,000	3,366,000,000	1,608,906,000	804,985,197	323,081,000	138,530,000
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75,386	62,552	52,936	41,389	33,781	27,512	22,824	19,047	14,469
3,320	2,840	2,577	2,202	2,307	2,464	2,418	2,395	888
11,571	11,764	11,410	10,137	9,942	9,743	8,573	7,529	6,276
5,301	6,267	7,010	7,304	5,961	4,855	4,028	3,361	2,553
7,333	6,255	5,448	4,425	3,612	2,942	2,440	2,037	2,075
30,045	31,412	32,964	31,707	27,580	22,721	20,463	17,900	13,497
2,436	3,490	4,709	5,595	4,867	4,010	3,611	3,159	2,382
29,921	29,250	31,133	30,393	25,834	21,275	16,716	12,157	8,865
2,426	3,250	4,448	5,364	4,559	3,754	2,950	2,145	1,564
4,896	5,744	6,546	7,151	7,151	7,151	7,151	7,151	6,484
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59,725	55,980	50,139	37,562	23,046	11,016	5,512	2,212	948
-	-	-	-	-	-	-	-	-
955,598	792,914	671,016	524,654	428,215	348,744	289,320	241,438	183,413
52,092	44,561	40,425	34,543	36,189	38,665	37,943	37,584	13,939
282,154	286,852	278,236	247,180	242,437	237,565	209,049	183,593	153,039
67,196	79,441	88,859	92,586	75,567	61,543	51,056	42,607	32,367
115,052	98,130	85,477	69,432	56,669	46,152	38,288	31,952	32,552
471,388	492,830	517,178	497,471	432,707	356,475	321,044	280,847	211,756
38,221	54,759	73,883	87,789	76,360	62,907	56,655	49,561	37,369
469,447	458,909	488,459	476,850	405,323	333,795	262,268	190,740	139,092
38,063	50,990	69,780	84,150	71,528	58,905	46,283	33,660	24,546
76,811	90,125	102,708	112,200	112,200	112,200	112,200	112,200	101,723
-	-	-	-	-	-	-	-	-
130,496	122,313	109,550	82,071	50,355	24,069	12,043	4,833	2,072
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28
12	12	12	12	12	12	12	12	12

100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*
6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%
77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%

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83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%

3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28

100%	100%	100%	100%	100%	100%	100%	100%	100%
94%	94%	94%	94%	94%	94%	94%	94%	94%
64%	64%	64%	64%	64%	64%	64%	64%	64%

40	60	117	147	176	206	235	264	294
13	19	25	31	37	44	50	56	62
2	2	3	3	4	5	5	6	6
2	2	2	2	2	2	2	2	2

100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*
2.5%	1.7%	0.9%	0.7%	0.6%	0.5%	0.4%	0.4%	0.3%
5.2%	3.6%	3.1%	2.5%	2.1%	1.8%	1.6%	1.4%	1.3%
42.3%	44.7%	29.3%	30.1%	22.3%	17.7%	18.0%	14.9%	15.1%
50.0%	50.0%	66.7%	66.7%	75.0%	80.0%	80.0%	83.3%	83.3%

100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*
100.0%	100.0%	66.7%	66.7%	50.0%	40.0%	40.0%	33.3%	33.3%
0.0%	0.0%	33.3%	33.3%	50.0%	60.0%	60.0%	66.7%	66.7%

0%	0%	15%	60%	100%	100%	100%	100%	100%

4,625	3,838	3,248	2,539	2,072	1,688	1,400	1,169	888

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58,197	48,289	40,865	31,952	26,079	21,239	17,620	14,704	11,170
12,564	10,425	8,823	6,898	5,630	4,585	3,804	3,174	2,412
52,859	51,854	53,171	50,450	44,019	37,945	31,266	24,926	18,693
7,014	7,771	8,855	9,375	8,196	7,088	5,860	4,699	3,530
3,320	2,840	2,577	2,202	2,307	2,464	2,418	2,395	888
30,045	31,412	32,964	31,707	27,580	22,721	20,463	17,900	13,497
2,436	3,490	4,709	5,595	4,867	4,010	3,611	3,159	2,382
3,918	3,654	3,670	3,412	3,430	3,293	3,334	3,292	1,196
4,896	5,744	6,546	7,151	7,151	7,151	7,151	7,151	6,484
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59,725	55,980	50,139	37,562	23,046	11,016	5,512	2,212	948
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22,108	25,588	23,641	23,394	21,804	16,916	15,612	16,400	16,640
83,289	70,043	61,735	72,574	92,450	95,629	72,477	77,552	97,336
-	-	-	-	-	-	-	-	-
-	-	20	66	108	120	105	112	115
-	-	75	246	407	440	389	418	430
-	-	695	2,907	4,252	4,365	4,442	4,418	5,090
-	-	1,580	6,436	14,302	19,699	19,743	24,741	28,178
-	-	-	-	-	-	-	-	-
2	26	84	398	1,099	2,364	5,359	8,538	14,291
-	-	42	199	1,099	3,546	8,038	17,075	28,582
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0	0	0	1	1	4	7	4	92
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-	-	0.00	0.28	1.42	6.00	10.09	8.13	183.40
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0.71	4.60	12.77	39.13	102.10	267.88	784.64	1,939.15	5,134.87

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-	-	6.38	19.57	102.10	401.82	1,176.96	3,878.31	10,269.75
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0	0	0	0	0	0	0	0	0
37%	38%	39%	40%	40%	39%	41%	43%	44%
0%	0%	0%	0%	0%	0%	0%	0%	0%
2,218,458	**2,217,004**	**2,214,566**	**2,210,627**	**2,206,106**	**2,200,920**	**2,198,207**	**2,196,635**	**2,190,364**
2,218,458	2,217,004	2,214,566	2,210,627	2,206,106	2,200,920	2,198,207	2,196,635	2,190,364
2,218,458	2,217,004	2,214,566	2,210,627	2,206,106	2,200,920	2,198,207	2,196,635	2,190,364
32,990,904,698	31,045,615,089	29,667,249,038	25,923,425,687	20,986,784,824	16,542,878,239	13,602,361,847	11,119,475,465	8,411,332,125
32,990,904,698	31,045,615,089	29,667,249,038	25,923,425,687	20,986,784,824	16,542,878,239	13,602,361,847	11,119,475,465	8,411,332,125
-	-	-	-	-	-	-	-	-
64	64	64	64	64	64	64	64	64
14,871	14,003	13,396	11,727	9,513	7,516	6,188	5,062	3,840
14,871	14,003	13,396	11,727	9,513	7,516	6,188	5,062	3,840
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653,137,941	541,945,632	458,629,702	358,593,774	292,678,683	238,361,471	197,746,166	165,019,273	125,359,967
8,218,652,419	6,819,482,536	5,771,090,414	4,512,304,984	3,682,873,427	2,999,381,845	2,488,305,918	2,076,492,525	1,577,446,246
1,774,358,072	1,472,285,634	1,245,944,023	974,179,751	795,110,422	647,548,663	537,210,417	448,302,360	340,561,243
7,410,629,694	7,263,117,543	7,445,144,000	7,063,438,042	6,164,981,353	5,317,394,163	4,385,676,502	3,501,474,938	2,609,688,545
984,566,591	1,089,059,454	1,240,259,311	1,312,687,608	1,147,996,271	993,478,833	822,135,300	660,294,988	492,768,753
526,179,260	450,114,956	408,333,382	348,920,065	365,548,217	390,560,011	383,261,783	379,632,514	140,801,738
4,201,318,780	4,392,425,552	4,609,425,278	4,433,788,299	3,856,572,968	3,177,136,174	2,861,356,996	2,503,088,824	1,887,304,529
340,647,469	488,047,284	658,489,325	782,433,229	680,571,700	560,671,090	504,945,352	441,721,557	333,053,740
617,234,495	576,940,496	579,799,875	539,092,600	541,481,313	519,353,969	524,928,328	517,143,733	190,163,321
684,593,733	803,251,457	915,403,993	1,000,000,000	1,000,000,000	1,000,000,000	1,000,000,000	1,000,000,000	906,619,103
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8,723,000,000	8,176,000,000	7,322,862,992	5,486,000,000	3,366,000,000	1,608,906,000	804,985,197	323,081,000	138,530,000

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49,045,530,208	56,729,024,145	52,354,956,081	51,716,266,249	48,101,368,195	37,230,858,232	34,318,784,197	36,025,760,031	36,447,722,658
184,774,068,551	155,285,005,233	136,716,729,781	160,434,165,254	203,953,676,232	210,472,046,091	159,319,542,267	170,353,284,183	213,202,131,593
-	-	-	-	-	-	-	-	-
-	-	44,864,338	145,181,670	239,029,620	263,081,312	230,849,903	247,030,235	251,921,738
-	-	165,100,763	543,260,443	897,976,141	968,617,559	854,144,642	917,540,875	942,674,889
-	-	1,539,744,068	6,425,459,726	9,380,297,528	9,607,251,193	9,764,950,907	9,704,759,251	11,149,568,512
-	-	3,499,418,337	14,227,803,679	31,551,909,865	43,355,800,253	43,399,781,808	54,346,651,806	61,720,825,694
-	-	-	-	-	-	-	-	-
4,849,524	56,869,759	186,644,751	879,624,995	2,425,507,743	5,203,173,559	11,779,470,832	18,753,993,123	31,302,457,220
-	-	93,322,376	439,812,498	2,425,507,743	7,804,760,338	17,669,206,248	37,507,986,246	62,604,914,439
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
24	8,405	11,345	1,225,479	3,141,860	8,804,189	14,783,510	8,925,548	200,860,740
1	1	1	1	1	1	1	1	1
-	-	5,672	612,740	3,141,860	13,206,284	22,175,266	17,851,097	401,721,480
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1,573,854	10,209,141	28,275,674	86,511,181	225,252,797	589,581,372	1,724,799,032	4,259,610,803	11,247,242,179
-	-	14,137,837	43,255,591	225,252,797	884,372,059	2,587,198,547	8,519,221,606	22,494,484,358
-	-	8,240	8,240	7,600	6,960	6,320	5,680	4,800
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10	10	10	10	10	10	10	10	10
IP Transmission		**IP Equipment**			**NGN Voice Equipment**			

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IP Distribution transmission	IP Core transmission	IP Access routing	IP Distribution routing	IP Core routing	spare	NGN Distribution SBC	NGN Interconnect SBC	NGN SIP Voice interconnection
DR-CR	CR-CR	ER	DR	CR	spare	Distribution SBCs	Interconnection SBCs	Border Gateway
-	-	-	-	-	-	-	-	-
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2	-	2	2	1	-	2	-	-
2	1	2	2	2	-	2	-	-
1	-	1	**1**	1	-	1	-	-
1	1	1	**1**	2	-	1	-	-
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-	-	-	-	-	-	-	1	1
1	-	1	**1**	1	-	1	-	-
1	1	1	**1**	2	-	1	-	-
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243,126	219,631	205,570	179,906	152,225	126,788	106,848	88,778	67,040
233,876	211,956	199,075	174,828	148,080	123,412	104,047	86,441	65,264
22,014	21,686	22,387	21,869	18,693	15,683	13,275	11,032	8,323
243,126	219,631	205,570	179,906	152,225	126,788	106,848	88,778	67,040
238,501	215,794	202,322	177,367	150,152	125,100	105,447	87,609	66,152
190,025	180,672	178,320	164,998	142,216	120,422	103,050	86,746	66,489
7,238	6,495	6,247	5,614	5,736	5,758	5,753	5,688	2,085
102,146	106,016	112,791	111,430	98,965	86,066	75,502	64,987	51,068
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3	30	4,886	19,965	40,545	55,837	64,733	90,821	126,181
3	30	4,745	19,561	40,717	58,672	72,971	110,722	164,125
-	-	1,629	6,655	15,505	23,653	28,968	45,703	67,213
3	30	4,866	19,899	40,437	55,718	64,628	90,708	126,066
3	30	4,820	19,806	41,124	59,112	73,360	111,140	164,555
3	30	4,050	16,654	36,465	54,307	68,529	106,304	159,035
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-	-	4,741	19,308	38,139	49,247	49,358	59,378	67,628
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3,444,809	3,152,300	2,984,327	2,639,310	2,253,210	1,893,495	1,601,226	1,333,418	1,011,485
3,386,184	3,103,654	2,943,160	2,607,123	2,226,939	1,872,100	1,583,476	1,318,606	1,000,232
2,829,030	2,723,597	2,712,518	2,528,007	2,198,658	1,879,480	1,613,570	1,362,119	1,049,675
52,092	44,561	40,425	34,543	36,189	38,665	37,943	37,584	13,939
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2,618,114	2,494,072	2,456,445	2,261,399	1,973,384	1,695,617	1,462,049	1,241,764	943,734
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58,626	48,645	41,167	32,187	26,271	21,395	17,750	14,812	11,252
737,706	612,117	518,013	405,024	330,575	269,225	223,350	186,386	141,592
159,266	132,152	111,836	87,442	71,369	58,124	48,220	40,240	30,569
899,859	883,062	899,290	846,635	747,708	653,733	542,548	437,186	332,340
124,146	135,820	151,946	158,107	140,005	122,893	102,339	82,949	63,195
52,092	44,561	40,425	34,543	36,189	38,665	37,943	37,584	13,939
471,388	492,830	517,178	497,471	432,707	356,475	321,044	280,847	211,756
38,221	54,759	73,883	87,789	76,360	62,907	56,655	49,561	37,369
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76,811	90,125	102,708	112,200	112,200	112,200	112,200	112,200	101,723
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130,496	122,313	109,550	82,071	50,355	24,069	12,043	4,833	2,072
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
6,023,761,705	5,743,682,399	5,639,393,406	5,154,929,344	4,439,339,844	3,757,076,613	3,211,246,604	2,705,047,216	2,080,493,903
20,480,790	19,528,520	19,173,938	17,526,760	15,093,755	12,774,060	10,918,238	9,197,161	7,073,679
4,523,266,799	4,544,550,682	4,975,389,773	5,000,000,000	4,250,000,000	3,500,000,000	2,750,000,000	2,000,000,000	1,458,447,816
4,541,966,249	4,880,472,835	5,267,914,603	5,216,221,528	4,537,144,668	3,737,807,264	3,366,302,348	2,944,810,381	2,220,358,269

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20	21	22	23	24	25	26	27	28
2010	2011	2012	2013	2014	2015	2016	2017	2018
1,730,325,214	1,364,229,752	1,109,291,368	884,717,916	694,204,402	523,989,075	433,656,889	339,050,101	276,095,486
139,418,147	134,838,507	114,114,517	98,092,282	79,683,081	63,148,084	53,057,998	35,524,879	32,317,593
770,320,433	675,187,149	606,227,667	521,444,420	473,550,018	426,214,146	392,413,147	354,798,151	312,951,165
305,351,508	240,746,427	195,757,300	169,619,187	131,669,672	105,158,926	90,460,397	65,442,558	52,071,855
258,714,720	235,531,319	206,542,722	166,864,011	130,706,451	99,571,720	82,949,099	64,016,781	51,937,202
1,821,947,509	1,706,862,063	1,567,395,710	1,637,555,246	1,512,295,063	1,456,070,055	1,357,879,694	1,220,554,787	1,067,292,852
321,520,149	301,210,952	276,599,243	-	-	-	-	-	-
987,002,455	765,823,531	582,171,948	498,946,655	354,037,600	242,251,248	170,941,962	110,076,444	88,869,852
174,176,904	135,145,329	102,736,226	-	-	-	-	-	-
812,108,809	686,093,391	509,907,496	357,061,058	322,481,607	290,792,752	278,767,800	218,659,939	216,869,197
-	-	-	-	-	-	-	-	-
98,765,000	59,000,000	49,166,667	39,333,333	29,500,000	19,666,667	9,833,333	-	-
-	-	-	-	-	-	-	-	-
593,330	569,217	540,491	508,872	477,061	449,867	425,713	395,105	356,477
-	-	-	-	-	-	-	-	-
81,974	78,610	77,411	73,911	69,884	68,909	66,334	61,059	52,675
67,673	102,664	147,050	198,112	253,129	312,272	369,035	409,662	424,370
9,651	18,012	33,131	61,493	91,998	110,787	136,238	174,314	216,836
15,266	15,197	14,481	11,177	9,229	7,480	5,874	4,794	3,021
100,445	106,035	96,132	98,469	112,512	129,096	146,033	170,115	235,720
-	-	-	-	-	-	-	-	-
35,876	32,357	27,533	23,236	18,935	16,201	13,956	14,846	13,540
-	-	-	-	-	-	-	-	-
910,300	834,689	757,546	670,384	583,802	512,602	450,808	390,486	332,264
300,870	255,164	216,685	183,455	155,133	124,677	97,177	78,806	70,066
6,565	5,654	4,907	4,271	3,671	3,019	2,411	2,061	1,677
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
33,636	62,888	105,437	160,488	228,898	315,216	413,589	506,089	594,927
1,214	3,455	9,364	24,766	51,086	82,148	130,772	210,226	319,311
1,017,766	945,080	864,675	773,848	682,569	595,407	512,904	437,784	371,824
307,435	260,818	221,591	187,726	158,803	127,696	99,589	80,867	71,743
-	-	-	-	-	-	-	-	0.00

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346,065,043	272,845,950	221,858,274	176,943,583	138,840,880	104,797,815	86,731,378	67,810,020	55,219,097
34,854,537	33,709,627	28,528,629	24,523,071	19,920,770	15,787,021	13,264,500	8,881,220	8,079,398
308,128,173	270,074,860	242,491,067	208,577,768	189,420,007	170,485,658	156,965,259	141,919,261	125,180,466
61,070,302	48,149,285	39,151,460	33,923,837	26,333,934	21,031,785	18,092,079	13,088,512	10,414,371
64,678,680	58,882,830	51,635,681	41,716,003	32,676,613	24,892,930	20,737,275	16,004,195	12,984,300
455,486,877	426,715,516	391,848,928	409,388,811	378,073,766	364,017,514	339,469,923	305,138,697	266,823,213
80,380,037	75,302,738	69,149,811	-	-	-	-	-	-
246,750,614	191,455,883	145,542,987	124,736,664	88,509,400	60,562,812	42,735,491	27,519,111	22,217,463
43,544,226	33,786,332	25,684,057	-	-	-	-	-	-
203,027,202	171,523,348	127,476,874	89,265,265	80,620,402	72,698,188	69,691,950	54,664,985	54,217,299
-	-	-	-	-	-	-	-	-
3,292,167	1,966,667	1,638,889	1,311,111	983,333	655,556	327,778	-	-
-	-	-	-	-	-	-	-	-

380,671,547	300,130,545	244,044,101	194,637,942	152,724,969	115,277,596	95,404,515	74,591,022	60,741,007
38,339,991	37,080,589	31,381,492	26,975,378	21,912,847	17,365,723	14,590,949	9,769,342	8,887,338
338,940,990	297,082,345	266,740,174	229,435,545	208,362,008	187,534,224	172,661,785	156,111,187	137,698,513
67,177,332	52,964,214	43,066,606	37,316,221	28,967,328	23,134,964	19,901,287	14,397,363	11,455,808
71,146,548	64,771,113	56,799,249	45,887,603	35,944,274	27,382,223	22,811,002	17,604,615	14,282,731
501,035,565	469,387,067	431,033,820	450,327,693	415,881,142	400,419,265	373,416,916	335,652,567	293,505,534
88,418,041	82,833,012	76,064,792	-	-	-	-	-	-
271,425,675	210,601,471	160,097,286	137,210,330	97,360,340	66,619,093	47,009,040	30,271,022	24,439,209
47,898,649	37,164,965	28,252,462	-	-	-	-	-	-
223,329,922	188,675,683	140,224,561	98,191,791	88,682,442	79,968,007	76,661,145	60,131,483	59,639,029
-	-	-	-	-	-	-	-	-
3,621,383	2,163,333	1,802,778	1,442,222	1,081,667	721,111	360,556	-	-
-	-	-	-	-	-	-	-	-

1,801,845,323	1,420,617,915	1,155,142,078	921,286,256	722,898,184	545,647,290	451,581,373	353,064,171	287,507,433
146,621,418	141,805,163	120,010,433	103,160,384	83,800,040	66,410,735	55,799,328	37,360,331	33,987,336
834,000,255	731,002,620	656,342,488	564,550,492	512,696,820	461,447,848	424,852,634	384,128,132	338,821,795
317,972,704	250,697,279	203,848,602	176,630,113	137,112,018	109,505,495	94,199,426	68,147,517	54,224,158

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272,081,647	247,700,437	217,214,096	175,485,318	137,459,617	104,716,259	87,234,802	67,324,315	54,620,624
1,916,081,464	1,795,049,936	1,648,377,822	1,722,162,267	1,590,430,307	1,531,300,341	1,428,036,811	1,283,616,785	1,122,436,316
338,132,023	316,773,518	290,890,204	-	-	-	-	-	-
1,037,997,582	805,391,080	612,250,832	524,725,566	372,329,543	254,767,562	179,773,964	115,763,727	93,461,461
183,176,044	142,127,838	108,044,264	-	-	-	-	-	-
854,067,764	721,541,550	536,252,716	375,509,213	339,143,156	305,817,044	293,170,803	229,957,369	228,074,106
-	-	-	-	-	-	-	-	-
99,445,381	59,406,444	49,505,370	39,604,296	29,703,222	19,802,148	9,901,074	-	-
-	-	-	-	-	-	-	-	-

1,801,845,323	1,420,617,915	1,155,142,078	248,356,632	147,622,808	75,759,523	33,180,895	-	-
146,621,418	141,805,163	120,010,433	27,809,560	17,112,779	9,220,692	4,099,973	-	-
834,000,255	731,002,620	656,342,488	152,189,244	104,697,654	64,068,986	31,216,944	-	-
317,972,704	250,697,279	203,848,602	47,615,233	27,999,601	15,204,115	6,921,502	-	-
272,081,647	247,700,437	217,214,096	47,306,624	28,070,585	14,539,161	6,409,761	-	-
1,916,081,464	1,795,049,936	1,648,377,822	464,253,556	324,781,266	212,610,940	104,928,020	-	-
338,132,023	316,773,518	290,890,204	-	-	-	-	-	-
1,037,997,582	805,391,080	612,250,832	141,453,401	76,033,297	35,372,794	13,209,272	-	-
183,176,044	142,127,838	108,044,264	-	-	-	-	-	-
854,067,764	721,541,550	536,252,716	101,228,259	69,256,316	42,460,677	21,541,344	-	-
-	-	-	-	-	-	-	-	-
99,445,381	59,406,444	49,505,370	39,604,296	29,703,222	19,802,148	9,901,074	-	-
-	-	-	-	-	-	-	-	-

380,671,547	300,130,545	244,044,101	52,469,711	31,187,917	16,005,533	7,010,048	-	-
38,339,991	37,080,589	31,381,492	7,271,913	4,474,816	2,411,116	1,072,101	-	-
338,940,990	297,082,345	266,740,174	61,850,309	42,549,539	26,037,889	12,686,689	-	-
67,177,332	52,964,214	43,066,606	10,059,556	5,915,409	3,212,137	1,462,289	-	-
71,146,548	64,771,113	56,799,249	12,370,195	7,340,169	3,801,841	1,676,087	-	-
501,035,565	469,387,067	431,033,820	121,397,523	84,926,955	55,595,571	27,437,596	-	-
88,418,041	82,833,012	76,064,792	-	-	-	-	-	-
271,425,675	210,601,471	160,097,286	36,988,607	19,881,924	9,249,621	3,454,088	-	-
47,898,649	37,164,965	28,252,462	-	-	-	-	-	-
223,329,922	188,675,683	140,224,561	26,470,147	18,109,813	11,103,030	5,632,839	-	-
-	-	-	-	-	-	-	-	-
3,621,383	2,163,333	1,802,778	1,442,222	1,081,667	721,111	360,556	-	-
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1,730,325,214	1,364,229,752	1,109,291,368	238,498,687	141,763,260	72,752,423	31,863,855	-	-
139,418,147	134,838,507	114,114,517	26,443,322	16,272,056	8,767,694	3,898,548	-	-
770,320,433	675,187,149	606,227,667	140,568,883	96,703,498	59,177,019	28,833,384	-	-
305,351,508	240,746,427	195,757,300	45,725,256	26,888,222	14,600,622	6,646,769	-	-
258,714,720	235,531,319	206,542,722	44,982,527	26,691,523	13,824,876	6,094,860	-	-
1,821,947,509	1,706,862,063	1,567,395,710	441,445,537	308,825,292	202,165,712	99,773,077	-	-
321,520,149	301,210,952	276,599,243	-	-	-	-	-	-
987,002,455	765,823,531	582,171,948	134,504,027	72,297,905	33,634,986	12,560,322	-	-
174,176,904	135,145,329	102,736,226	-	-	-	-	-	-
812,108,809	686,093,391	509,907,496	96,255,080	65,853,866	40,374,653	20,483,053	-	-
-	-	-	-	-	-	-	-	-
98,765,000	59,000,000	49,166,667	39,333,333	29,500,000	19,666,667	9,833,333	-	-
-	-	-	-	-	-	-	-	-
-	-	-	672,929,624	575,275,377	469,887,767	418,400,478	353,064,171	287,507,433
-	-	-	75,350,824	66,687,260	57,190,043	51,699,355	37,360,331	33,987,336
-	-	-	412,361,248	407,999,166	397,378,862	393,635,690	384,128,132	338,821,795
-	-	-	129,014,880	109,112,417	94,301,380	87,277,925	68,147,517	54,224,158
-	-	-	128,178,694	109,389,033	90,177,098	80,825,041	67,324,315	54,620,624
-	-	-	1,257,908,710	1,265,649,042	1,318,689,401	1,323,108,792	1,283,616,785	1,122,436,316
-	-	-	-	-	-	-	-	-
-	-	-	383,272,165	296,296,245	219,394,769	166,564,692	115,763,727	93,461,461
-	-	-	-	-	-	-	-	-
-	-	-	274,280,954	269,886,841	263,356,367	271,629,459	229,957,369	228,074,106
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	142,168,230	121,537,051	99,272,063	88,394,467	74,591,022	60,741,007
-	-	-	19,703,464	17,438,032	14,954,607	13,518,849	9,769,342	8,887,338
-	-	-	167,585,236	165,812,469	161,496,335	159,975,095	156,111,187	137,698,513
-	-	-	27,256,665	23,051,919	19,922,827	18,438,998	14,397,363	11,455,808
-	-	-	33,517,408	28,604,105	23,580,382	21,134,916	17,604,615	14,282,731
-	-	-	328,930,170	330,954,187	344,823,694	345,979,320	335,652,567	293,505,534
-	-	-	-	-	-	-	-	-
-	-	-	100,221,723	77,478,416	57,369,472	43,554,951	30,271,022	24,439,209
-	-	-	-	-	-	-	-	-
-	-	-	71,721,644	70,572,629	68,864,977	71,028,305	60,131,483	59,639,029
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	646,219,229	552,441,143	451,236,652	401,793,033	339,050,101	276,095,486

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-	-	-	71,648,961	63,411,024	54,380,390	49,159,450	35,524,879	32,317,593
-	-	-	380,875,537	376,846,520	367,037,126	363,579,762	354,798,151	312,951,165
-	-	-	123,893,931	104,781,450	90,558,304	83,813,628	65,442,558	52,071,855
-	-	-	121,881,484	104,014,928	85,746,845	76,854,239	64,016,781	51,937,202
-	-	-	1,196,109,709	1,203,469,770	1,253,904,344	1,258,106,616	1,220,554,787	1,067,292,852
-	-	-	-	-	-	-	-	-
-	-	-	364,442,629	281,739,695	208,616,262	158,381,641	110,076,444	88,869,852
-	-	-	-	-	-	-	-	-
-	-	-	260,805,978	256,627,741	250,418,098	258,284,747	218,659,939	216,869,197
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
12,253	9,660	7,855	1,689	1,004	515	226	-	-
880	851	720	167	103	55	25	-	-
5,671	4,971	4,463	1,035	712	436	212	-	-
2,162	1,705	1,386	324	190	103	47	-	-
1,850	1,684	1,477	322	191	99	44	-	-
13,029	12,206	11,209	3,157	2,209	1,446	714	-	-
2,299	2,154	1,978	-	-	-	-	-	-
7,058	5,477	4,163	962	517	241	90	-	-
1,246	966	735	-	-	-	-	-	-
5,808	4,906	3,647	688	471	289	146	-	-
-	-	-	-	-	-	-	-	-
676	404	337	269	202	135	67	-	-
-	-	-	-	-	-	-	-	-
155,314	122,453	99,570	21,408	12,725	6,530	2,860	-	-
13,802	13,349	11,297	2,618	1,611	868	386	-	-
138,288	121,210	108,830	25,235	17,360	10,623	5,176	-	-
27,408	21,609	17,571	4,104	2,413	1,311	597	-	-
29,028	26,427	23,174	5,047	2,995	1,551	684	-	-
204,423	191,510	175,862	49,530	34,650	22,683	11,195	-	-
36,075	33,796	31,034	-	-	-	-	-	-
110,742	85,925	65,320	15,091	8,112	3,774	1,409	-	-
19,543	15,163	11,527	-	-	-	-	-	-
91,119	76,980	57,212	10,800	7,389	4,530	2,298	-	-
-	-	-	-	-	-	-	-	-
1,478	883	736	588	441	294	147	-	-
-	-	-	-	-	-	-	-	-

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-	-	-	434,713	371,628	303,547	270,287	228,079	185,730
-	-	-	42,950	38,012	32,598	29,469	21,295	19,373
-	-	-	266,385	263,567	256,707	254,289	248,147	218,879
-	-	-	83,344	70,487	60,919	56,382	44,023	35,029
-	-	-	82,803	70,665	58,254	52,213	43,492	35,285
-	-	-	812,609	817,609	851,873	854,728	829,216	725,094
-	-	-	-	-	-	-	-	-
-	-	-	247,594	191,407	141,729	107,601	74,783	60,376
-	-	-	-	-	-	-	-	-
-	-	-	177,185	174,347	170,128	175,473	148,552	147,336
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

-	-	-	58,005	49,587	40,503	36,065	30,433	24,782
-	-	-	7,093	6,278	5,384	4,867	3,517	3,199
-	-	-	68,375	67,651	65,891	65,270	63,693	56,181
-	-	-	11,121	9,405	8,129	7,523	5,874	4,674
-	-	-	13,675	11,670	9,621	8,623	7,183	5,827
-	-	-	134,204	135,029	140,688	141,160	136,946	119,750
-	-	-	-	-	-	-	-	-
-	-	-	40,890	31,611	23,407	17,770	12,351	9,971
-	-	-	-	-	-	-	-	-
-	-	-	29,262	28,794	28,097	28,980	24,534	24,333
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28
12	12	12	12	12	12	12	12	12

100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*
6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%
77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%

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83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28
100%	100%	100%	100%	100%	100%	100%	100%	100%
94%	94%	94%	94%	94%	94%	94%	94%	94%
64%	64%	64%	64%	64%	64%	64%	64%	64%
323	352	382	411	441	470	499	529	558
68	74	80	80	80	80	80	80	80
7	7	7	7	7	7	7	7	7
2	2	2	2	2	2	2	2	2
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
0.3%	0.3%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
1.2%	1.1%	1.0%	1.0%	1.0%	1.0%	1.0%	1.1%	1.1%
12.8%	12.9%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%
85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%
71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%
100%	100%	100%	100%	100%	100%	86%	92%	84%
752	593	482	104	62	32	14	-	-

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9,459	7,458	6,064	1,304	775	398	174	-	-
2,042	1,610	1,309	281	167	86	38	-	-
15,861	13,152	10,869	2,501	1,514	818	363	-	-
3,006	2,502	2,076	308	199	116	55	-	-
880	851	720	167	103	55	25	-	-
13,029	12,206	11,209	3,157	2,209	1,446	714	-	-
2,299	2,154	1,978	-	-	-	-	-	-
1,277	1,327	1,180	285	190	115	54	-	-
5,808	4,906	3,647	688	471	289	146	-	-
-	-	-	-	-	-	-	-	-
676	404	337	269	202	135	-	-	-
-	-	-	27	23	19	17	14	11
-	-	-	336	287	234	209	176	143
-	-	-	72	62	51	45	38	31
-	-	-	644	560	482	435	372	318
-	-	-	79	74	68	65	59	51
-	-	-	900	808	720	675	580	516
-	-	-	-	-	-	-	-	-
-	-	-	812.61	817.61	851.87	854.73	829.22	725.09
-	-	-	-	-	-	-	-	-
-	-	-	990	992	1,022	1,030	978	872
-	-	-	-	-	-	-	-	-
-	-	-	177	174	170	175	149	147
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
15,266	15,197	14,481	11,177	9,229	7,480	-	-	-
100,445	106,035	96,132	98,469	112,512	129,096	-	-	-
-	-	-	-	-	-	-	-	-
111	92	72	57	43	34	28	28	24
417	345	272	234	194	168	146	158	145
4,598	4,185	3,589	3,029	2,468	2,112	1,819	1,935	1,765
30,751	27,734	23,599	19,916	16,230	13,887	11,962	12,725	11,605
-	-	-	-	-	-	-	-	0.00
19,335	29,333	42,014	56,603	72,323	89,220	105,438	117,046	121,249
48,338	73,332	105,036	141,508	180,807	223,051	263,596	292,616	303,121
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
347	987	2,676	7,076	14,596	23,471	37,364	60,065	91,232
-	-	-	-	-	-	-	-	-
866.86	2,467.54	6,688.77	17,689.95	36,489.92	58,677.06	93,408.90	150,161.61	228,079.10
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
9,610.29	17,968.10	30,124.98	45,853.83	65,399.55	90,061.64	118,168.15	144,596.75	169,979.13

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24,025.73	44,920.24	75,312.44	114,634.57	163,498.89	225,154.11	295,420.36	361,491.88	424,947.82
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
0	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
46%	48%	50%	52%	55%	59%	60%	0%	0%
0%	0%	0%	52%	55%	59%	60%	63%	63%
2,190,192	**2,189,854**	**2,189,217**	**1,512,299**	**1,495,427**	**1,482,829**	**1,474,445**	**1,470,530**	**1,470,397**
2,190,192	2,189,854	2,189,217	1,512,299	1,495,427	1,482,829	1,474,445	1,470,530	1,470,397
2,190,192	2,189,854	2,189,217	1,512,299	1,495,427	1,482,829	1,474,445	1,470,530	1,470,397
7,419,650,846	6,304,668,420	5,319,910,864	4,373,634,109	3,728,127,893	3,226,862,672	2,860,126,985	2,408,123,640	2,098,405,203
7,419,650,846	6,304,668,420	5,319,910,864	1,207,756,651	784,795,622	464,964,652	210,153,869	-	-
-	-	-	3,165,877,458	2,943,332,271	2,761,898,020	2,649,973,116	2,408,123,640	2,098,405,203
64	64	64	86	88	91	93	95	95
3,388	2,879	2,430	2,892	2,493	2,176	1,940	1,638	1,427
3,388	2,879	2,430	744	495	300	139	-	-
-	-	-	2,148	1,998	1,876	1,800	1,638	1,427
106,154,921	83,695,077	68,054,685	14,631,821	8,697,132	4,463,339	1,954,838	-	-
1,335,782,757	1,053,163,050	856,354,788	184,117,084	109,438,917	56,163,680	24,598,375	-	-
288,387,536	227,371,625	184,881,895	39,749,781	23,627,210	12,125,404	5,310,643	-	-
2,215,173,128	1,837,743,033	1,517,707,120	349,270,683	211,093,988	113,943,496	50,454,956	-	-
419,811,038	349,529,229	289,843,260	42,953,331	27,759,216	16,061,702	7,578,927	-	-
139,418,147	134,838,507	114,114,517	26,443,322	16,272,056	8,767,694	3,898,548	-	-
1,821,947,509	1,706,862,063	1,567,395,710	441,445,537	308,825,292	202,165,712	99,773,077	-	-
321,520,149	301,210,952	276,599,243	-	-	-	-	-	-
202,766,532	210,498,991	187,438,697	45,294,455	30,171,496	18,392,895	8,553,765	-	-
812,108,809	686,093,391	509,907,496	96,255,080	65,853,866	40,374,653	20,483,053	-	-
-	-	-	-	-	-	-	-	-
98,765,000	59,000,000	49,166,667	39,333,333	29,500,000	19,666,667	-	-	-

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-	-	-	39,645,351.49	33,892,094.65	27,683,230.20	24,649,879.33	20,800,619.67	16,938,373.39
-	-	-	498,870,672.91	426,475,524.31	348,347,313.35	310,177,648.25	261,741,130.84	213,141,198.55
-	-	-	107,703,204.88	92,073,523.79	75,206,108.71	66,965,505.52	56,508,350.10	46,015,914.39
-	-	-	946,359,223	822,617,963	706,718,482	636,220,873	543,228,418	463,268,031
-	-	-	116,383,319	108,175,654	99,620,444	95,567,846	86,630,395	74,879,636
-	-	-	1,323,548,520	1,187,421,358	1,056,757,024	990,073,466	848,518,752	755,016,864
-	-	-	-	-	-	-	-	-
-	-	-	1,196,109,709	1,203,469,770	1,253,904,344	1,258,106,616	1,220,554,787	1,067,292,852
-	-	-	-	-	-	-	-	-
-	-	-	1,456,915,687	1,460,097,511	1,504,322,442	1,516,391,363	1,439,214,727	1,284,162,049
-	-	-	-	-	-	-	-	-
-	-	-	260,805,978	256,627,741	250,418,098	258,284,747	218,659,939	216,869,197
-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1
33,434,845,734	33,279,403,975	31,701,502,328	16,902,228,312	13,801,619,299	11,091,672,395	-	-	-
219,993,110,337	232,200,314,007	210,454,144,636	148,915,121,713	168,253,954,539	191,427,045,218	-	-	-
-	-	-	-	-	-	-	-	-
243,267,456	201,295,643	157,787,840	85,497,192	64,208,810	51,114,804	41,236,294	41,268,711	35,678,567
912,252,960	756,218,767	595,649,097	353,744,633	289,742,255	249,184,668	215,975,092	231,620,641	213,179,435
10,069,535,049	9,164,780,779	7,857,270,923	4,580,664,751	3,691,203,967	3,131,694,486	2,682,347,320	2,845,846,095	2,595,233,446
67,350,332,785	60,733,771,131	51,664,247,163	30,119,439,458	24,270,930,191	20,591,963,743	17,637,352,241	18,712,412,677	17,064,548,689
-	-	-	-	-	-	-	-	1,470.40
42,347,519,077	64,234,161,904	91,978,431,097	85,601,145,751	108,153,276,138	132,298,696,511	155,463,155,214	172,120,229,933	178,283,491,603
105,868,797,693	160,585,404,759	229,946,077,743	214,002,864,378	270,383,190,346	330,746,741,277	388,657,888,034	430,300,574,831	445,708,729,008
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
759,439,263	2,161,424,447	5,857,267,494	10,700,993,130	21,827,200,565	34,803,212,659	55,090,509,893	88,326,870,922	134,146,736,365
1	1	1	1	1	1	1	1	1
1,898,598,158	5,403,561,119	14,643,168,734	26,752,482,825	54,568,001,414	87,008,031,648	137,726,274,732	220,817,177,306	335,366,840,913
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
21,048,382,879	39,347,516,420	65,950,097,137	69,344,676,899	97,800,254,816	133,545,996,036	174,232,421,930	212,633,889,022	249,936,815,836
52,620,957,197	98,368,791,049	164,875,242,841	173,361,692,248	244,500,637,039	333,864,990,091	435,581,054,826	531,584,722,555	624,842,039,590
4,160	4,160	4,160	1,440	1,440	1,440	-	-	-
-	-	-	1,160	1,080	1,080	1,040	960	880
-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	0	0
0	0	0	1	1	1	1	1	1

	NGN Equipment	Digital cross-connects

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NGN ss7 Voice interconnection	NGN call servers	Digital cross-connects	VPN access transmission	NGN voice access	spare1	spare2	spare3	spare4
TGW	Call Servers	DCX	L2S-ER for VPN traffi	DSLAM/MSAN-L2S-E	spare1			
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	1	-	-	2	-	-	-	-
-	1	-	-	2	-	-	-	-
-	1	-	-	2	-	-	-	-
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-	1	-	-	1	-	-	-	-
-	1	-	-	1	-	-	-	-
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-	-	-	2	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

58,701	49,335	41,841	9,344	5,929	3,410	1,582	-	-
57,198	48,149	40,878	9,136	5,806	3,347	1,554	-	-
7,348	6,266	5,363	589	367	201	92	-	-
58,701	49,335	41,841	9,344	5,929	3,410	1,582	-	-
57,949	48,742	41,359	9,240	5,868	3,378	1,568	-	-
58,852	50,254	42,514	8,829	5,701	3,353	1,581	-	-
2,156	2,177	1,900	452	292	171	78	-	-
45,811	39,827	33,424	7,343	4,863	2,957	1,424	-	-
-	-	-	-	-	-	-	-	-
174,274	233,720	316,917	432,243	573,179	744,047	943,202	1,157,386	1,367,152
246,450	353,565	503,266	705,441	953,455	1,250,487	1,595,245	1,961,256	2,322,939
103,981	148,453	210,636	293,901	397,161	520,888	664,498	817,092	967,836
174,163	233,628	316,845	432,186	573,136	744,013	943,174	1,157,358	1,367,128
246,866	353,910	503,538	705,879	953,846	1,250,844	1,595,584	1,961,576	2,323,243
241,852	349,380	499,677	702,156	950,774	1,248,209	1,593,283	1,959,204	2,321,082
-	-	-	-	-	-	-	-	-
-	-	-	2,405	2,195	2,009	1,895	1,717	1,465
-	-	-	1,890	1,800	1,742	1,706	1,558	1,389
-	-	-	-	-	-	-	-	-
-	-	-	1,890	1,800	1,742	1,706	1,558	1,389
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
71,752	64,713	55,065	46,471	37,870	32,403	27,911	29,692	27,079
-	-	-	2,405	2,195	2,009	1,895	1,717	1,465

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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
889,936	753,896	643,756	144,441	92,591	53,871	25,167	-	-
880,407	746,383	637,647	143,128	91,810	53,470	24,991	-	-
932,469	800,710	681,257	142,255	92,658	54,950	26,046	-	-
13,802	13,349	11,297	2,618	1,611	868	386	-	-
-	-	-	-	-	-	-	-	-
839,543	721,771	612,694	136,451	88,866	52,738	24,991	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	362,625	340,026	321,718	310,257	284,531	248,718
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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9,528	7,512	6,109	1,313	781	401	175	-	-
119,900	94,532	76,866	16,526	9,823	5,041	2,208	-	-
25,886	20,409	16,595	3,568	2,121	1,088	477	-	-
284,514	238,088	199,380	45,928	28,428	15,735	7,111	-	-
54,297	45,596	38,339	6,167	4,063	2,392	1,140	-	-
13,802	13,349	11,297	2,618	1,611	868	386	-	-
204,423	191,510	175,862	49,530	34,650	22,683	11,195	-	-
36,075	33,796	31,034	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
91,119	76,980	57,212	10,800	7,389	4,530	2,298	-	-
-	-	-	-	-	-	-	-	-
1,478	883	736	588	441	294	147	-	-
-	-	-	3,559	3,042	2,485	2,213	1,867	1,520
-	-	-	44,779	38,280	31,268	27,842	23,494	19,132
-	-	-	9,667	8,265	6,751	6,011	5,072	4,130
-	-	-	124,444	110,782	97,593	89,673	79,240	68,206
-	-	-	16,711	15,834	14,837	14,380	13,378	11,647
-	-	-	170,417	155,410	140,527	133,033	117,151	104,186
-	-	-	-	-	-	-	-	-
-	-	-	134,204	135,029	140,688	141,160	136,946	119,750
-	-	-	-	-	-	-	-	-
-	-	-	163,466	163,823	168,785	170,139	161,480	144,083
-	-	-	-	-	-	-	-	-
-	-	-	29,262	28,794	28,097	28,980	24,534	24,333
-	-	-	-	-	-	-	-	-
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0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
1,847,277,857	1,584,413,035	1,345,006,655	1,110,386,113	955,379,106	834,929,279	748,015,632	635,026,000	555,135,608
6,280,745	5,387,004	4,573,023	3,775,313	3,248,289	2,838,760	2,543,253	2,159,088	1,887,461
1,161,179,359	900,968,860	684,908,174	498,946,655	354,037,600	242,251,248	170,941,962	110,076,444	88,869,852
2,143,467,658	2,008,073,015	1,843,994,953	1,637,555,246	1,512,295,063	1,456,070,055	1,357,879,694	1,220,554,787	1,067,292,852

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29	30	31	32	33	34	35	36	37
2019	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**
229,860,465	188,729,985	156,640,384	131,893,798	112,824,300	97,976,730	86,207,247	76,702,361	68,931,255
27,750,217	23,737,138	20,532,729	18,026,239	16,085,350	14,578,945	13,393,343	12,440,653	11,659,598
273,204,026	236,999,338	207,416,115	183,833,022	165,277,492	150,671,934	139,027,301	129,556,892	121,707,411
47,476,954	45,367,981	43,648,185	42,393,767	41,611,257	41,238,885	41,163,567	41,250,017	41,373,295
43,892,636	37,049,370	31,698,547	27,583,514	24,441,648	22,032,873	20,158,263	18,667,660	17,457,282
923,751,394	795,925,523	684,382,151	590,263,695	512,981,017	450,776,409	401,350,974	362,370,066	331,750,450
-	-	-	-	-	-	-	-	-
77,827,248	67,020,180	57,987,559	50,560,967	44,479,544	39,453,596	35,223,839	31,598,159	28,459,209
-	-	-	-	-	-	-	-	-
211,064,627	208,578,336	209,395,217	213,448,579	220,289,606	229,089,695	238,764,055	248,192,876	256,458,505
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
317,003	278,693	239,165	200,045	162,767	128,557	98,348	72,720	51,867
-	-	-	-	-	-	-	-	-
44,079	38,360	32,372	26,484	20,990	16,104	11,951	8,573	5,939
418,876	400,126	364,274	317,093	264,594	212,054	163,426	121,182	86,451
262,571	308,551	354,751	399,415	440,969	478,278	510,746	538,263	561,114
1,480	-	-	-	-	-	-	-	-
118,551	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
13,351	13,133	12,963	12,846	12,782	12,765	12,785	12,834	12,903
-	-	-	-	-	-	-	-	-
281,341	238,190	200,075	167,513	140,417	118,312	100,512	86,280	74,949
61,947	47,835	36,485	27,796	21,396	16,819	13,616	11,414	9,929
1,230	891	627	431	291	193	126	80	49
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
682,242	756,007	811,613	849,166	870,917	880,502	881,963	878,929	874,209
459,499	625,560	813,790	1,014,560	1,216,415	1,408,389	1,581,910	1,731,783	1,856,278
319,080	274,145	234,448	200,550	172,427	149,658	131,582	117,443	106,510
63,177	48,726	37,111	28,226	21,687	17,012	13,742	11,494	9,977
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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45,972,093	37,745,997	31,328,077	26,378,760	22,564,860	19,595,346	17,241,449	15,340,472	13,786,251
6,937,554	5,934,285	5,133,182	4,506,560	4,021,338	3,644,736	3,348,336	3,110,163	2,914,899
109,281,611	94,799,735	82,966,446	73,533,209	66,110,997	60,268,774	55,610,921	51,822,757	48,682,964
9,495,391	9,073,596	8,729,637	8,478,753	8,322,251	8,247,777	8,232,713	8,250,003	8,274,659
10,973,159	9,262,343	7,924,637	6,895,878	6,110,412	5,508,218	5,039,566	4,666,915	4,364,320
230,937,848	198,981,381	171,095,538	147,565,924	128,245,254	112,694,102	100,337,744	90,592,517	82,937,612
-	-	-	-	-	-	-	-	-
19,456,812	16,755,045	14,496,890	12,640,242	11,119,886	9,863,399	8,805,960	7,899,540	7,114,802
-	-	-	-	-	-	-	-	-
52,766,157	52,144,584	52,348,804	53,362,145	55,072,401	57,272,424	59,691,014	62,048,219	64,114,626
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

50,569,302	41,520,597	34,460,884	29,016,635	24,821,346	21,554,881	18,965,594	16,874,519	15,164,876
7,631,310	6,527,713	5,646,500	4,957,216	4,423,471	4,009,210	3,683,169	3,421,180	3,206,389
120,209,772	104,279,709	91,263,091	80,886,530	72,722,096	66,295,651	61,172,013	57,005,032	53,551,261
10,444,930	9,980,956	9,602,601	9,326,629	9,154,477	9,072,555	9,055,985	9,075,004	9,102,125
12,070,475	10,188,577	8,717,100	7,585,466	6,721,453	6,059,040	5,543,522	5,133,607	4,800,752
254,031,633	218,879,519	188,205,092	162,322,516	141,069,780	123,963,512	110,371,518	99,651,768	91,231,374
-	-	-	-	-	-	-	-	-
21,402,493	18,430,550	15,946,579	13,904,266	12,231,875	10,849,739	9,686,556	8,689,494	7,826,282
-	-	-	-	-	-	-	-	-
58,042,772	57,359,043	57,583,685	58,698,359	60,579,642	62,999,666	65,660,115	68,253,041	70,526,089
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

239,361,364	196,530,824	163,114,853	137,345,408	117,487,705	102,026,435	89,770,480	79,872,726	71,780,414
29,183,978	24,963,557	21,593,587	18,957,595	16,916,427	15,332,190	14,085,333	13,083,420	12,262,010
295,788,893	256,591,284	224,562,514	199,029,885	178,940,431	163,127,480	150,520,225	140,266,928	131,768,557
49,439,335	47,243,191	45,452,310	44,146,042	43,331,189	42,943,425	42,864,995	42,955,018	43,083,391

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46,160,422	38,963,588	33,336,305	29,008,662	25,704,467	23,171,239	21,199,774	19,632,156	18,359,241
971,478,549	837,048,341	719,741,895	620,760,653	539,485,037	474,066,523	422,087,441	381,092,520	348,890,890
-	-	-	-	-	-	-	-	-
81,848,322	70,482,890	60,983,583	53,173,284	46,777,654	41,492,032	37,043,737	33,230,730	29,929,601
-	-	-	-	-	-	-	-	-
221,969,633	219,354,884	220,213,970	224,476,755	231,671,235	240,925,996	251,100,198	261,016,175	269,708,861
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239,361,364	196,530,824	163,114,853	137,345,408	117,487,705	102,026,435	89,770,480	79,872,726	71,780,414
29,183,978	24,963,557	21,593,587	18,957,595	16,916,427	15,332,190	14,085,333	13,083,420	12,262,010
295,788,893	256,591,284	224,562,514	199,029,885	178,940,431	163,127,480	150,520,225	140,266,928	131,768,557
49,439,335	47,243,191	45,452,310	44,146,042	43,331,189	42,943,425	42,864,995	42,955,018	43,083,391
46,160,422	38,963,588	33,336,305	29,008,662	25,704,467	23,171,239	21,199,774	19,632,156	18,359,241
971,478,549	837,048,341	719,741,895	620,760,653	539,485,037	474,066,523	422,087,441	381,092,520	348,890,890
-	-	-	-	-	-	-	-	-
81,848,322	70,482,890	60,983,583	53,173,284	46,777,654	41,492,032	37,043,737	33,230,730	29,929,601
-	-	-	-	-	-	-	-	-
221,969,633	219,354,884	220,213,970	224,476,755	231,671,235	240,925,996	251,100,198	261,016,175	269,708,861
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
50,569,302	41,520,597	34,460,884	29,016,635	24,821,346	21,554,881	18,965,594	16,874,519	15,164,876
7,631,310	6,527,713	5,646,500	4,957,216	4,423,471	4,009,210	3,683,169	3,421,180	3,206,389
120,209,772	104,279,709	91,263,091	80,886,530	72,722,096	66,295,651	61,172,013	57,005,032	53,551,261
10,444,930	9,980,956	9,602,601	9,326,629	9,154,477	9,072,555	9,055,985	9,075,004	9,102,125
12,070,475	10,188,577	8,717,100	7,585,466	6,721,453	6,059,040	5,543,522	5,133,607	4,800,752
254,031,633	218,879,519	188,205,092	162,322,516	141,069,780	123,963,512	110,371,518	99,651,768	91,231,374
-	-	-	-	-	-	-	-	-
21,402,493	18,430,550	15,946,579	13,904,266	12,231,875	10,849,739	9,686,556	8,689,494	7,826,282
-	-	-	-	-	-	-	-	-
58,042,772	57,359,043	57,583,685	58,698,359	60,579,642	62,999,666	65,660,115	68,253,041	70,526,089
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
229,860,465	188,729,985	156,640,384	131,893,798	112,824,300	97,976,730	86,207,247	76,702,361	68,931,255

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27,750,217	23,737,138	20,532,729	18,026,239	16,085,350	14,578,945	13,393,343	12,440,653	11,659,598
273,204,026	236,999,338	207,416,115	183,833,022	165,277,492	150,671,934	139,027,301	129,556,892	121,707,411
47,476,954	45,367,981	43,648,185	42,393,767	41,611,257	41,238,885	41,163,567	41,250,017	41,373,295
43,892,636	37,049,370	31,698,547	27,583,514	24,441,648	22,032,873	20,158,263	18,667,660	17,457,282
923,751,394	795,925,523	684,382,151	590,263,695	512,981,017	450,776,409	401,350,974	362,370,066	331,750,450
-	-	-	-	-	-	-	-	-
77,827,248	67,020,180	57,987,559	50,560,967	44,479,544	39,453,596	35,223,839	31,598,159	28,459,209
-	-	-	-	-	-	-	-	-
211,064,627	208,578,336	209,395,217	213,448,579	220,289,606	229,089,695	238,764,055	248,192,876	256,458,505
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

154,627	126,959	105,372	88,725	75,897	65,909	57,992	51,598	46,370
16,635	14,229	12,308	10,806	9,642	8,739	8,029	7,458	6,989
191,080	165,758	145,067	128,573	115,596	105,380	97,236	90,612	85,122
31,938	30,519	29,362	28,518	27,992	27,741	27,691	27,749	27,832
29,820	25,170	21,535	18,740	16,605	14,969	13,695	12,682	11,860
627,575	540,733	464,953	401,011	348,507	306,247	272,668	246,186	225,384
-	-	-	-	-	-	-	-	-
52,874	45,532	39,395	34,350	30,218	26,804	23,930	21,467	19,335
-	-	-	-	-	-	-	-	-
143,392	141,703	142,258	145,012	149,660	155,638	162,211	168,616	174,232
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
20,632	16,940	14,060	11,839	10,127	8,794	7,738	6,885	6,187
2,747	2,350	2,033	1,785	1,592	1,443	1,326	1,232	1,154
49,046	42,546	37,235	33,002	29,671	27,049	24,958	23,258	21,849
4,262	4,072	3,918	3,805	3,735	3,702	3,695	3,703	3,714
4,925	4,157	3,557	3,095	2,742	2,472	2,262	2,095	1,959
103,645	89,303	76,788	66,228	57,556	50,577	45,032	40,658	37,222
-	-	-	-	-	-	-	-	-
8,732	7,520	6,506	5,673	4,991	4,427	3,952	3,545	3,193
-	-	-	-	-	-	-	-	-
23,681	23,402	23,494	23,949	24,716	25,704	26,789	27,847	28,775
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28
12	12	12	12	12	12	12	12	12
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%
77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%

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83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28
100%	100%	100%	100%	100%	100%	100%	100%	100%
94%	94%	94%	94%	94%	94%	94%	94%	94%
64%	64%	64%	64%	64%	64%	64%	64%	64%
558	558	558	558	558	558	558	558	558
80	80	80	80	80	80	80	80	80
7	7	7	7	7	7	7	7	7
2	2	2	2	2	2	2	2	2
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%
13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%
85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%
71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%
82%	81%	80%	79%	79%	79%	79%	79%	80%
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-	-	-	-	-	-	-	-	-
9	8	6	5	5	4	4	3	3
119	98	81	68	59	51	45	40	36
26	21	18	15	13	11	10	9	8
277	242	213	190	172	157	146	137	129
45	39	35	31	28	26	24	23	22
466	423	390	366	350	339	333	329	325
-	-	-	-	-	-	-	-	-
627.58	540.73	464.95	401.01	348.51	306.25	272.67	246.19	225.38
-	-	-	-	-	-	-	-	-
771	682	607	546	498	462	435	415	400
-	-	-	-	-	-	-	-	-
143	142	142	145	150	156	162	169	174
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-	-	-	-	-	-	-	-	-
24	24	23	23	23	23	23	23	23
143	141	139	138	137	137	137	137	138
1,740	1,712	1,690	1,675	1,666	1,664	1,667	1,673	1,682
11,444	11,257	11,111	11,011	10,956	10,941	10,959	11,000	11,060
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119,679	114,322	104,078	90,598	75,598	60,587	46,693	34,623	24,700
299,197	285,805	260,196	226,495	188,996	151,467	116,733	86,558	61,751
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
131,285	178,731	232,511	289,874	347,547	402,397	451,974	494,795	530,365
-	-	-	-	-	-	-	-	-
328,213.44	446,828.51	581,278.75	724,685.67	868,867.98	1,005,991.92	1,129,935.61	1,236,987.74	1,325,912.70
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
194,926.26	216,001.94	231,889.30	242,618.92	248,833.52	251,572.11	251,989.43	251,122.64	249,774.00

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487,315.64	540,004.84	579,723.25	606,547.30	622,083.80	628,930.28	629,973.56	627,806.61	624,435.01
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0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
0%	0%	0%	0%	0%	0%	0%	0%	0%
62%	62%	61%	60%	59%	58%	57%	56%	55%
1,470,284	**1,470,202**	**1,470,135**	**1,470,085**	**1,470,049**	**1,470,028**	**1,470,022**	**1,470,027**	**1,470,042**
1,470,284	1,470,202	1,470,135	1,470,085	1,470,049	1,470,028	1,470,022	1,470,027	1,470,042
1,470,284	1,470,202	1,470,135	1,470,085	1,470,049	1,470,028	1,470,022	1,470,027	1,470,042
1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215	1,045,819,067	975,288,590	920,778,685	877,797,004
-	-	-	-	-	-	-	-	-
1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215	1,045,819,067	975,288,590	920,778,685	877,797,004
95	95	95	95	95	95	95	95	95
1,248	1,091	960	856	774	711	663	626	597
-	-	-	-	-	-	-	-	-
1,248	1,091	960	856	774	711	663	626	597

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14,101,869.03	11,578,526.68	9,609,839.51	8,091,644.02	6,921,736.22	6,010,842.36	5,288,788.14	4,705,666.34	4,228,911.35
177,448,518.66	145,696,460.68	120,923,813.81	101,819,853.93	87,098,514.12	75,636,433.03	66,550,584.14	59,212,968.07	53,213,801.19
38,310,077.54	31,454,997.47	26,106,730.66	21,982,299.59	18,804,050.07	16,329,455.08	14,367,874.46	12,783,726.88	11,488,542.51
404,763,775	352,981,703	310,733,873	277,091,418	250,659,333	229,889,127	213,342,568	199,860,844	188,623,863
65,387,305	57,192,305	50,549,263	45,306,090	41,235,958	38,087,106	35,623,746	33,652,537	32,032,931
681,215,707	618,752,344	570,678,353	535,846,088	512,184,897	497,065,928	487,730,370	481,706,258	477,115,299
-	-	-	-	-	-	-	-	-
923,751,394	795,925,523	684,382,151	590,263,695	512,981,017	450,776,409	401,350,974	362,370,066	331,750,450
-	-	-	-	-	-	-	-	-
1,134,816,021	1,004,503,859	893,777,368	803,712,274	733,270,623	679,866,104	640,115,029	610,562,943	588,208,954
-	-	-	-	-	-	-	-	-
211,064,627	208,578,336	209,395,217	213,448,579	220,289,606	229,089,695	238,764,055	248,192,876	256,458,505
-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1
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-	-	-	-	-	-	-	-	-
35,178,998	34,603,167	34,152,192	33,843,420	33,675,367	33,628,909	33,681,198	33,809,778	33,993,120
210,194,513	206,753,920	204,059,347	202,214,432	201,210,317	200,932,734	201,245,159	202,013,422	203,108,889
2,558,895,190	2,517,009,616	2,484,206,050	2,461,746,162	2,449,522,136	2,446,142,849	2,449,946,301	2,459,299,078	2,472,635,234
16,825,612,208	16,550,200,214	16,334,505,534	16,186,824,076	16,106,446,925	16,084,226,951	16,109,235,954	16,170,733,665	16,258,423,455
1,470.28	1,470.20	1,470.14	1,470.08	1,470.05	1,470.03	1,470.02	1,470.03	1,470.04
175,961,925,431	168,076,131,182	153,009,288,538	133,186,676,173	111,133,155,961	89,064,315,134	68,640,106,693	50,897,301,783	36,310,516,622
439,904,813,578	420,190,327,955	382,523,221,345	332,966,690,432	277,832,889,903	222,660,787,834	171,600,266,732	127,243,254,457	90,776,291,555
-	-	-	-	-	-	-	-	-
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193,026,786,137	262,771,182,576	341,823,399,962	426,139,689,846	510,911,343,228	591,534,616,584	664,412,032,361	727,362,385,981	779,658,780,153
1	1	1	1	1	1	1	1	1
482,566,965,342	656,927,956,439	854,558,499,906	##############	##############	##############	##############	##############	##############
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286,596,956,464	317,566,380,945	340,908,682,786	356,670,331,784	365,797,425,641	369,818,113,638	370,429,972,537	369,157,187,444	367,178,200,746
716,492,391,159	793,915,952,363	852,271,706,965	891,675,829,459	914,493,564,103	924,545,284,095	926,074,931,342	922,892,968,610	917,945,501,865
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760	720	640	600	560	520	520	480	480
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Spare

Routing factors - p

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spare5	spare6	spare7	spare8	spare9	spare10	spare11	TDM Access transmission
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Routing_factors_Small_matrix

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1,588,578	1,809,036	2,016,526	2,207,310	2,378,192	2,527,097	2,653,428	2,758,071	2,843,214
2,702,952	3,081,330	3,437,387	3,764,706	4,057,810	4,313,159	4,529,744	4,709,096	4,854,984
1,126,241	1,283,955	1,432,361	1,568,785	1,690,945	1,797,368	1,887,635	1,962,385	2,023,188
1,588,554	1,809,012	2,016,503	2,207,287	2,378,169	2,527,074	2,653,405	2,758,048	2,843,190
2,703,247	3,081,620	3,437,674	3,764,994	4,058,102	4,313,455	4,530,047	4,709,405	4,855,299
2,701,137	3,079,559	3,435,650	3,762,994	4,056,114	4,311,470	4,528,057	4,707,406	4,853,288
-	-	-	-	-	-	-	-	-
1,259	1,076	923	799	700	622	559	509	469
1,237	1,105	997	912	848	801	768	743	725
-	-	-	-	-	-	-	-	-
1,237	1,105	997	912	848	801	768	743	725
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
26,702	26,267	25,925	25,692	25,565	25,530	25,570	25,667	25,806
1,259	1,076	923	799	700	622	559	509	469

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0	0	0	0	0	0	0	0	0
485,820,625	424,696,965	374,023,211	333,361,470	301,567,400	277,094,776	258,307,702	243,730,586	232,190,135
1,651,790	1,443,970	1,271,679	1,133,429	1,025,329	942,122	878,246	828,684	789,446
77,827,248	67,020,180	57,987,559	50,560,967	44,479,544	39,453,596	35,223,839	31,598,159	28,459,209
923,751,394	795,925,523	684,382,151	590,263,695	512,981,017	450,776,409	401,350,974	362,370,066	331,750,450

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38	39	40	41	42	43	44	45	46
2028	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**
62,561,014	57,370,336	53,186,881	49,855,142	47,227,289	45,165,565	43,547,419	42,269,015	41,246,042
11,010,803	10,469,615	10,019,378	9,646,847	9,339,948	9,087,202	8,877,961	8,702,805	8,553,792
115,125,450	109,592,520	104,961,079	101,110,541	97,926,467	95,296,524	93,114,288	91,284,286	89,725,340
41,443,709	41,415,838	41,281,910	41,057,083	40,765,064	40,428,673	40,065,728	39,688,494	39,304,716
16,460,243	15,634,333	14,951,045	14,388,167	13,926,056	13,546,519	13,232,983	12,970,955	12,748,316
307,761,598	289,010,088	274,374,999	262,947,865	253,989,544	246,902,245	241,209,201	236,540,772	232,616,322
-	-	-	-	-	-	-	-	-
25,747,941	23,436,445	21,503,636	19,921,264	18,650,439	17,644,850	16,856,245	16,239,228	15,754,225
-	-	-	-	-	-	-	-	-
262,994,714	267,605,642	270,388,874	271,614,829	271,616,156	270,714,627	269,184,395	267,236,296	265,023,342
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
35,625	23,532	14,934	9,100	5,323	2,988	1,610	833	414
-	-	-	-	-	-	-	-	-
3,971	2,561	1,593	954	551	306	164	84	42
59,314	39,117	24,784	15,080	8,810	4,941	2,660	1,375	683
579,851	595,173	607,761	618,241	627,149	634,900	641,820	648,137	654,001
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
12,986	13,077	13,173	13,271	13,369	13,465	13,560	13,654	13,746
-	-	-	-	-	-	-	-	-
65,971	58,914	53,433	49,244	46,106	43,807	42,169	41,038	40,291
8,946	8,311	7,912	7,669	7,529	7,455	7,424	7,420	7,435
29	16	8	4	2	1	0	0	0
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
869,721	866,603	865,329	865,959	868,328	872,138	877,073	882,816	889,081
1,956,559	2,035,714	2,097,590	2,146,107	2,184,789	2,216,471	2,243,338	2,266,921	2,288,231
98,155	91,857	87,193	83,814	81,440	79,837	78,817	78,230	77,959
8,974	8,327	7,920	7,673	7,531	7,456	7,424	7,420	7,435
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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12,512,203	11,474,067	10,637,376	9,971,028	9,445,458	9,033,113	8,709,484	8,453,803	8,249,208
2,752,701	2,617,404	2,504,844	2,411,712	2,334,987	2,271,800	2,219,490	2,175,701	2,138,448
46,050,180	43,837,008	41,984,432	40,444,216	39,170,587	38,118,609	37,245,715	36,513,714	35,890,136
8,288,742	8,283,168	8,256,382	8,211,417	8,153,013	8,085,735	8,013,146	7,937,699	7,860,943
4,115,061	3,908,583	3,737,761	3,597,042	3,481,514	3,386,630	3,308,246	3,242,739	3,187,079
76,940,400	72,252,522	68,593,750	65,736,966	63,497,386	61,725,561	60,302,300	59,135,193	58,154,081
-	-	-	-	-	-	-	-	-
6,436,985	5,859,111	5,375,909	4,980,316	4,662,610	4,411,212	4,214,061	4,059,807	3,938,556
-	-	-	-	-	-	-	-	-
65,748,679	66,901,411	67,597,218	67,903,707	67,904,039	67,678,657	67,296,099	66,809,074	66,255,835
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

13,763,423	12,621,474	11,701,114	10,968,131	10,390,004	9,936,424	9,580,432	9,299,183	9,074,129
3,027,971	2,879,144	2,755,329	2,652,883	2,568,486	2,498,980	2,441,439	2,393,271	2,352,293
50,655,198	48,220,709	46,182,875	44,488,638	43,087,646	41,930,470	40,970,287	40,165,086	39,479,149
9,117,616	9,111,484	9,082,020	9,032,558	8,968,314	8,894,308	8,814,460	8,731,469	8,647,038
4,526,567	4,299,442	4,111,537	3,956,746	3,829,665	3,725,293	3,639,070	3,567,013	3,505,787
84,634,440	79,477,774	75,453,125	72,310,663	69,847,124	67,898,117	66,332,530	65,048,712	63,969,489
-	-	-	-	-	-	-	-	-
7,080,684	6,445,022	5,913,500	5,478,347	5,128,871	4,852,334	4,635,467	4,465,788	4,332,412
-	-	-	-	-	-	-	-	-
72,323,546	73,591,552	74,356,940	74,694,078	74,694,443	74,446,522	74,025,709	73,489,981	72,881,419
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

65,146,869	59,741,644	55,385,272	51,915,821	49,179,351	47,032,409	45,347,379	44,016,134	42,950,879
11,579,695	11,010,545	10,537,045	10,145,268	9,822,512	9,556,707	9,336,656	9,152,450	8,995,738
124,642,487	118,652,168	113,637,862	109,469,012	106,021,722	103,174,370	100,811,735	98,830,453	97,142,634
43,156,716	43,127,692	42,988,229	42,754,109	42,450,020	42,099,725	41,721,778	41,328,952	40,929,311

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17,310,689	16,442,107	15,723,516	15,131,556	14,645,568	14,246,423	13,916,687	13,641,121	13,406,979
323,662,614	303,942,276	288,551,040	276,533,505	267,112,337	259,658,861	253,671,676	248,762,045	244,634,832
-	-	-	-	-	-	-	-	-
27,078,251	24,647,328	22,614,657	20,950,529	19,614,045	18,556,500	17,727,151	17,078,254	16,568,194
-	-	-	-	-	-	-	-	-
276,582,775	281,431,934	284,358,965	285,648,261	285,649,657	284,701,549	283,092,255	281,043,504	278,716,215
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
65,146,869	59,741,644	55,385,272	51,915,821	49,179,351	47,032,409	45,347,379	44,016,134	42,950,879
11,579,695	11,010,545	10,537,045	10,145,268	9,822,512	9,556,707	9,336,656	9,152,450	8,995,738
124,642,487	118,652,168	113,637,862	109,469,012	106,021,722	103,174,370	100,811,735	98,830,453	97,142,634
43,156,716	43,127,692	42,988,229	42,754,109	42,450,020	42,099,725	41,721,778	41,328,952	40,929,311
17,310,689	16,442,107	15,723,516	15,131,556	14,645,568	14,246,423	13,916,687	13,641,121	13,406,979
323,662,614	303,942,276	288,551,040	276,533,505	267,112,337	259,658,861	253,671,676	248,762,045	244,634,832
-	-	-	-	-	-	-	-	-
27,078,251	24,647,328	22,614,657	20,950,529	19,614,045	18,556,500	17,727,151	17,078,254	16,568,194
-	-	-	-	-	-	-	-	-
276,582,775	281,431,934	284,358,965	285,648,261	285,649,657	284,701,549	283,092,255	281,043,504	278,716,215
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
13,763,423	12,621,474	11,701,114	10,968,131	10,390,004	9,936,424	9,580,432	9,299,183	9,074,129
3,027,971	2,879,144	2,755,329	2,652,883	2,568,486	2,498,980	2,441,439	2,393,271	2,352,293
50,655,198	48,220,709	46,182,875	44,488,638	43,087,646	41,930,470	40,970,287	40,165,086	39,479,149
9,117,616	9,111,484	9,082,020	9,032,558	8,968,314	8,894,308	8,814,460	8,731,469	8,647,038
4,526,567	4,299,442	4,111,537	3,956,746	3,829,665	3,725,293	3,639,070	3,567,013	3,505,787
84,634,440	79,477,774	75,453,125	72,310,663	69,847,124	67,898,117	66,332,530	65,048,712	63,969,489
-	-	-	-	-	-	-	-	-
7,080,684	6,445,022	5,913,500	5,478,347	5,128,871	4,852,334	4,635,467	4,465,788	4,332,412
-	-	-	-	-	-	-	-	-
72,323,546	73,591,552	74,356,940	74,694,078	74,694,443	74,446,522	74,025,709	73,489,981	72,881,419
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
62,561,014	57,370,336	53,186,881	49,855,142	47,227,289	45,165,565	43,547,419	42,269,015	41,246,042

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11,010,803	10,469,615	10,019,378	9,646,847	9,339,948	9,087,202	8,877,961	8,702,805	8,553,792
115,125,450	109,592,520	104,961,079	101,110,541	97,926,467	95,296,524	93,114,288	91,284,286	89,725,340
41,443,709	41,415,838	41,281,910	41,057,083	40,765,064	40,428,673	40,065,728	39,688,494	39,304,716
16,460,243	15,634,333	14,951,045	14,388,167	13,926,056	13,546,519	13,232,983	12,970,955	12,748,316
307,761,598	289,010,088	274,374,999	262,947,865	253,989,544	246,902,245	241,209,201	236,540,772	232,616,322
-	-	-	-	-	-	-	-	-
25,747,941	23,436,445	21,503,636	19,921,264	18,650,439	17,644,850	16,856,245	16,239,228	15,754,225
-	-	-	-	-	-	-	-	-
262,994,714	267,605,642	270,388,874	271,614,829	271,616,156	270,714,627	269,184,395	267,236,296	265,023,342
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

42,085	38,593	35,779	33,538	31,770	30,383	29,294	28,434	27,746
6,600	6,276	6,006	5,783	5,599	5,447	5,322	5,217	5,128
80,519	76,649	73,410	70,717	68,490	66,651	65,124	63,844	62,754
27,879	27,860	27,770	27,619	27,423	27,196	26,952	26,699	26,440
11,183	10,622	10,157	9,775	9,461	9,203	8,990	8,812	8,661
209,086	196,347	186,404	178,641	172,555	167,740	163,872	160,700	158,034
-	-	-	-	-	-	-	-	-
17,493	15,922	14,609	13,534	12,671	11,987	11,452	11,033	10,703
-	-	-	-	-	-	-	-	-
178,672	181,805	183,696	184,529	184,530	183,917	182,878	181,554	180,051
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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5,615	5,150	4,774	4,475	4,239	4,054	3,909	3,794	3,702
1,090	1,036	992	955	925	900	879	862	847
20,667	19,674	18,843	18,151	17,580	17,108	16,716	16,387	16,107
3,720	3,717	3,705	3,685	3,659	3,629	3,596	3,562	3,528
1,847	1,754	1,678	1,614	1,563	1,520	1,485	1,455	1,430
34,531	32,427	30,785	29,503	28,498	27,702	27,064	26,540	26,100
-	-	-	-	-	-	-	-	-
2,889	2,630	2,413	2,235	2,093	1,980	1,891	1,822	1,768
-	-	-	-	-	-	-	-	-
29,508	30,025	30,338	30,475	30,475	30,374	30,202	29,984	29,736
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28
12	12	12	12	12	12	12	12	12

100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*
6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%
77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%

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83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28
100%	100%	100%	100%	100%	100%	100%	100%	100%
94%	94%	94%	94%	94%	94%	94%	94%	94%
64%	64%	64%	64%	64%	64%	64%	64%	64%
558	558	558	558	558	558	558	558	558
80	80	80	80	80	80	80	80	80
7	7	7	7	7	7	7	7	7
2	2	2	2	2	2	2	2	2
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%
13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%
85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%
71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%
80%	81%	81%	82%	83%	83%	84%	84%	85%
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
3	2	2	2	2	2	2	2	2
32	30	28	26	25	23	23	22	21
7	6	6	6	5	5	5	5	5
123	117	112	108	105	102	100	98	97
21	20	20	19	18	18	18	17	17
322	319	316	312	308	304	301	297	294
-	-	-	-	-	-	-	-	-
209.09	196.35	186.40	178.64	172.55	167.74	163.87	160.70	158.03
-	-	-	-	-	-	-	-	-
388	378	370	363	357	352	347	342	338
-	-	-	-	-	-	-	-	-
179	182	184	185	185	184	183	182	180
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
23	23	24	24	24	24	24	24	25
139	140	141	142	143	144	145	146	147
1,693	1,705	1,717	1,730	1,743	1,755	1,768	1,780	1,792
11,131	11,209	11,292	11,375	11,459	11,542	11,623	11,703	11,782
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16,947	11,176	7,081	4,309	2,517	1,412	760	393	195
42,367	27,941	17,703	10,772	6,293	3,529	1,900	982	488
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
559,017	581,633	599,311	613,173	624,225	633,278	640,954	647,692	653,780
-	-	-	-	-	-	-	-	-
1,397,542.07	1,454,081.39	1,498,278.62	1,532,933.44	1,560,563.37	1,583,193.88	1,602,384.58	1,619,229.56	1,634,451.05
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
248,491.85	247,601.00	247,236.76	247,416.80	248,093.72	249,182.28	250,592.19	252,233.12	254,023.18

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621,229.62	619,002.50	618,091.91	618,542.00	620,234.30	622,955.70	626,480.47	630,582.80	635,057.95
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
0%	0%	0%	0%	0%	0%	0%	0%	0%
55%	54%	54%	54%	54%	54%	54%	54%	54%
1,470,061	**1,470,082**	**1,470,102**	**1,470,121**	**1,470,136**	**1,470,149**	**1,470,158**	**1,470,166**	**1,470,171**
1,470,061	1,470,082	1,470,102	1,470,121	1,470,136	1,470,149	1,470,158	1,470,166	1,470,171
1,470,061	1,470,082	1,470,102	1,470,121	1,470,136	1,470,149	1,470,158	1,470,166	1,470,171
843,105,473	814,534,818	790,667,801	770,541,737	753,440,962	738,786,205	726,088,219	714,931,850	704,972,095
-	-	-	-	-	-	-	-	-
843,105,473	814,534,818	790,667,801	770,541,737	753,440,962	738,786,205	726,088,219	714,931,850	704,972,095
95	95	95	95	95	95	95	95	95
574	554	538	524	512	503	494	486	480
-	-	-	-	-	-	-	-	-
574	554	538	524	512	503	494	486	480
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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3,838,099.01	3,519,652.54	3,262,998.82	3,058,597.66	2,897,379.72	2,770,893.58	2,671,620.81	2,593,191.11	2,530,432.05
48,296,079.26	44,288,961.14	41,059,401.80	38,487,353.89	36,458,694.76	34,867,077.52	33,617,895.13	32,630,988.18	31,841,269.90
10,426,835.66	9,561,722.74	8,864,480.12	8,309,190.31	7,871,214.90	7,527,594.22	7,257,903.19	7,044,835.86	6,874,340.39
179,114,778	171,030,033	164,181,479	158,423,462	153,615,051	149,610,615	146,265,378	143,444,678	141,031,028
30,673,368	29,518,718	28,535,569	27,700,440	26,992,922	26,393,153	25,881,827	25,441,090	25,055,361
472,782,860	468,154,393	463,105,921	457,738,730	452,224,129	446,718,395	441,331,599	436,122,063	431,109,731
-	-	-	-	-	-	-	-	-
307,761,598	289,010,088	274,374,999	262,947,865	253,989,544	246,902,245	241,209,201	236,540,772	232,616,322
-	-	-	-	-	-	-	-	-
570,756,313	556,615,731	544,763,872	534,562,694	525,605,699	517,616,872	510,393,596	503,777,068	497,639,664
-	-	-	-	-	-	-	-	-
262,994,714	267,605,642	270,388,874	271,614,829	271,616,156	270,714,627	269,184,395	267,236,296	265,023,342
-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
34,212,365	34,453,316	34,706,634	34,964,502	35,221,921	35,476,584	35,727,089	35,973,687	36,216,562
204,418,880	205,858,561	207,372,138	208,912,896	210,450,977	211,972,588	213,469,357	214,942,782	216,393,955
2,488,582,980	2,506,109,570	2,524,535,766	2,543,292,865	2,562,017,362	2,580,541,364	2,598,762,934	2,616,700,322	2,634,366,817
16,363,285,348	16,478,528,680	16,599,687,229	16,723,021,575	16,846,141,561	16,967,943,218	17,087,756,276	17,205,700,749	17,321,864,000
1,470.06	1,470.08	1,470.10	1,470.12	1,470.14	1,470.15	1,470.16	1,470.17	1,470.17
24,912,776,925	16,430,106,673	10,410,178,151	6,334,173,565	3,700,335,706	2,075,253,880	1,117,388,136	577,673,386	286,780,566
62,281,942,313	41,075,266,681	26,025,445,378	15,835,433,913	9,250,839,264	5,188,134,699	2,793,470,340	1,444,183,466	716,951,414
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
821,788,800,092	855,047,538,590	881,049,213,256	901,438,886,454	917,696,266,826	931,012,130,100	942,303,614,666	952,214,273,748	961,169,055,666
1	1	1	1	1	1	1	1	1
##############	##############	##############	##############	##############	##############	##############	##############	##############
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
365,298,156,258	363,993,766,625	363,463,365,934	363,732,563,602	364,731,551,272	366,334,989,082	368,410,194,492	370,824,467,573	373,457,528,589
913,245,390,645	909,984,416,564	908,658,414,835	909,331,409,006	911,828,878,181	915,837,472,705	921,025,486,230	927,061,168,934	933,643,821,472
-	-	-	-	-	-	-	-	-
480	480	480	440	440	440	440	440	440
-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1

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TDM Transmission	TDM Equipment	TDM Equipment	

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TDM Distribution transmission	TDM Core transmission	TDM Access switching	TDM Distribution switching	TDM Core switching	TDM International switching	TDM Voice interconnection	TDM call servers	IP Access transmission
LS-MGW	MGW-MGW/IGW	RSX	LS	MGW	IGW	MGW-other operators	Call Servers	DSLAM/MSAN-L2S-E
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1	-	1	1	**1**	-	-	1	-
1	1	1	1	**2**	-	-	1	-
1	-	1	1	1	-	1	1	-
1	1	1	1	2	-	1	1	-
-	-	-	-	-	1	-	1	-
1	-	1	1	1	-	1	1	-
1	1	1	1	2	-	1	1	-
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2,912,003	2,968,000	3,014,440	3,054,061	3,089,023	3,120,830	3,150,532	3,178,753	3,205,814
4,972,812	5,068,693	5,148,180	5,215,972	5,275,775	5,330,168	5,380,955	5,429,203	5,475,464
2,072,298	2,112,261	2,145,391	2,173,647	2,198,573	2,221,243	2,242,411	2,262,520	2,281,801
2,911,980	2,967,977	3,014,416	3,054,037	3,088,999	3,120,805	3,150,508	3,178,729	3,205,790
4,973,132	5,069,018	5,148,507	5,216,301	5,276,105	5,330,498	5,381,284	5,429,533	5,475,793
4,971,108	5,066,979	5,146,455	5,214,235	5,274,027	5,328,407	5,379,182	5,427,419	5,473,668
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437	411	390	373	360	349	340	333	327
710	697	686	675	665	656	647	639	632
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710	697	686	675	665	656	647	639	632
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25,972	26,155	26,347	26,542	26,737	26,931	27,121	27,308	27,492
437	411	390	373	360	349	340	333	327

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345	316	293	275	260	249	240	233	227
4,335	3,975	3,685	3,455	3,273	3,130	3,018	2,929	2,858
936	858	796	746	707	676	651	632	617
25,659	24,448	23,427	22,574	21,864	21,276	20,788	20,378	20,028
4,554	4,364	4,203	4,068	3,954	3,859	3,779	3,711	3,652
59,721	58,837	57,968	57,116	56,294	55,510	54,770	54,073	53,416
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34,531	32,427	30,785	29,503	28,498	27,702	27,064	26,540	26,100
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64,039	62,452	61,123	59,978	58,973	58,077	57,266	56,524	55,835
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29,508	30,025	30,338	30,475	30,475	30,374	30,202	29,984	29,736
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0	0	0	0	0	0	0	0	0
222,844,949	215,133,274	208,687,673	203,256,404	198,649,593	194,711,318	191,308,541	188,327,730	185,674,287
757,673	731,453	709,538	691,072	675,409	662,018	650,449	640,314	631,293
25,747,941	23,436,445	21,503,636	19,921,264	18,650,439	17,644,850	16,856,245	16,239,228	15,754,225
307,761,598	289,010,088	274,374,999	262,947,865	253,989,544	246,902,245	241,209,201	236,540,772	232,616,322

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47	48	49	50	51	52	53	54	55
2037	2038	2039	2040	2041	2042	2043	2044	2045
40,412,283	39,716,994	39,121,964	38,598,782	38,126,583	37,690,245	37,278,992	36,885,304	36,504,065
8,424,497	8,309,879	8,206,076	8,110,176	8,020,018	7,934,027	7,851,072	7,770,362	7,691,354
88,371,359	87,170,279	86,082,044	85,076,387	84,130,805	83,228,832	82,358,668	81,512,030	80,683,236
38,918,985	38,533,904	38,150,903	37,770,744	37,393,828	37,020,360	36,650,435	36,284,093	35,921,348
12,555,314	12,384,330	12,229,543	12,086,576	11,952,191	11,824,028	11,700,395	11,580,109	11,462,363
229,226,972	226,219,770	223,484,393	220,941,894	218,536,368	216,228,945	213,992,224	211,807,892	209,664,187
-	-	-	-	-	-	-	-	-
15,368,593	15,056,440	14,797,792	14,577,544	14,384,472	14,210,378	14,049,393	13,897,407	13,751,619
-	-	-	-	-	-	-	-	-
262,651,535	260,191,431	257,687,829	255,168,579	252,650,469	250,142,950	247,652,514	245,182,523	242,734,173
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197	90	40	17	7	3	1	0	0
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20	9	4	2	1	0	0	0	0
325	149	66	28	11	4	2	1	0
659,510	664,736	669,722	674,494	679,066	683,460	687,718	691,838	695,838
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13,837	13,926	14,014	14,100	14,186	14,269	14,351	14,432	14,513
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39,829	39,576	39,473	39,477	39,554	39,681	39,842	40,024	40,218
7,461	7,494	7,532	7,572	7,614	7,656	7,698	7,741	7,782
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895,633	902,303	908,963	915,521	921,913	928,122	934,174	940,050	945,765
2,307,917	2,326,407	2,343,954	2,360,699	2,376,717	2,392,104	2,407,010	2,421,432	2,435,433
77,914	78,029	78,255	78,557	78,907	79,289	79,692	80,106	80,525
7,461	7,494	7,532	7,572	7,614	7,656	7,698	7,741	7,782
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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8,082,457	7,943,399	7,824,393	7,719,756	7,625,317	7,538,049	7,455,798	7,377,061	7,300,813
2,106,124	2,077,470	2,051,519	2,027,544	2,005,005	1,983,507	1,962,768	1,942,590	1,922,838
35,348,543	34,868,112	34,432,818	34,030,555	33,652,322	33,291,533	32,943,467	32,604,812	32,273,295
7,783,797	7,706,781	7,630,181	7,554,149	7,478,766	7,404,072	7,330,087	7,256,819	7,184,270
3,138,829	3,096,083	3,057,386	3,021,644	2,988,048	2,956,007	2,925,099	2,895,027	2,865,591
57,306,743	56,554,942	55,871,098	55,235,474	54,634,092	54,057,236	53,498,056	52,951,973	52,416,047
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3,842,148	3,764,110	3,699,448	3,644,386	3,596,118	3,552,595	3,512,348	3,474,352	3,437,905
-	-	-	-	-	-	-	-	-
65,662,884	65,047,858	64,421,957	63,792,145	63,162,617	62,535,737	61,913,129	61,295,631	60,683,543
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8,890,702	8,737,739	8,606,832	8,491,732	8,387,848	8,291,854	8,201,378	8,114,767	8,030,894
2,316,737	2,285,217	2,256,671	2,230,298	2,205,505	2,181,857	2,159,045	2,136,849	2,115,122
38,883,398	38,354,923	37,876,099	37,433,610	37,017,554	36,620,686	36,237,814	35,865,293	35,500,624
8,562,177	8,477,459	8,393,199	8,309,564	8,226,642	8,144,479	8,063,096	7,982,500	7,902,696
3,452,711	3,405,691	3,363,124	3,323,808	3,286,853	3,251,608	3,217,609	3,184,530	3,152,150
63,037,417	62,210,437	61,458,208	60,759,021	60,097,501	59,462,960	58,847,862	58,247,170	57,657,651
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4,226,363	4,140,521	4,069,393	4,008,825	3,955,730	3,907,854	3,863,583	3,821,787	3,781,695
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72,229,172	71,552,644	70,864,153	70,171,359	69,478,879	68,789,311	68,104,441	67,425,194	66,751,898
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42,082,657	41,358,630	40,739,005	40,194,199	39,702,482	39,248,109	38,819,857	38,409,897	38,012,899
8,859,762	8,739,223	8,630,056	8,529,201	8,434,386	8,343,952	8,256,711	8,171,830	8,088,740
95,676,724	94,376,356	93,198,160	92,109,369	91,085,619	90,109,082	89,166,985	88,250,357	87,353,051
40,527,637	40,126,639	39,727,806	39,331,935	38,939,439	38,550,535	38,165,319	37,783,835	37,406,097

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13,204,005	13,024,187	12,861,402	12,711,049	12,569,721	12,434,936	12,304,915	12,178,415	12,054,585
241,070,365	237,907,791	235,031,086	232,357,226	229,827,414	227,400,774	225,048,489	222,751,300	220,496,837
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16,162,637	15,834,356	15,562,344	15,330,717	15,127,670	14,944,581	14,775,278	14,615,440	14,462,120
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276,221,864	273,634,655	271,001,700	268,352,289	265,704,076	263,067,002	260,447,894	257,850,286	255,275,438
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42,082,657	41,358,630	40,739,005	40,194,199	39,702,482	39,248,109	38,819,857	38,409,897	38,012,899
8,859,762	8,739,223	8,630,056	8,529,201	8,434,386	8,343,952	8,256,711	8,171,830	8,088,740
95,676,724	94,376,356	93,198,160	92,109,369	91,085,619	90,109,082	89,166,985	88,250,357	87,353,051
40,527,637	40,126,639	39,727,806	39,331,935	38,939,439	38,550,535	38,165,319	37,783,835	37,406,097
13,204,005	13,024,187	12,861,402	12,711,049	12,569,721	12,434,936	12,304,915	12,178,415	12,054,585
241,070,365	237,907,791	235,031,086	232,357,226	229,827,414	227,400,774	225,048,489	222,751,300	220,496,837
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16,162,637	15,834,356	15,562,344	15,330,717	15,127,670	14,944,581	14,775,278	14,615,440	14,462,120
-	-	-	-	-	-	-	-	-
276,221,864	273,634,655	271,001,700	268,352,289	265,704,076	263,067,002	260,447,894	257,850,286	255,275,438
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8,890,702	8,737,739	8,606,832	8,491,732	8,387,848	8,291,854	8,201,378	8,114,767	8,030,894
2,316,737	2,285,217	2,256,671	2,230,298	2,205,505	2,181,857	2,159,045	2,136,849	2,115,122
38,883,398	38,354,923	37,876,099	37,433,610	37,017,554	36,620,686	36,237,814	35,865,293	35,500,624
8,562,177	8,477,459	8,393,199	8,309,564	8,226,642	8,144,479	8,063,096	7,982,500	7,902,696
3,452,711	3,405,691	3,363,124	3,323,808	3,286,853	3,251,608	3,217,609	3,184,530	3,152,150
63,037,417	62,210,437	61,458,208	60,759,021	60,097,501	59,462,960	58,847,862	58,247,170	57,657,651
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4,226,363	4,140,521	4,069,393	4,008,825	3,955,730	3,907,854	3,863,583	3,821,787	3,781,695
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72,229,172	71,552,644	70,864,153	70,171,359	69,478,879	68,789,311	68,104,441	67,425,194	66,751,898
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40,412,283	39,716,994	39,121,964	38,598,782	38,126,583	37,690,245	37,278,992	36,885,304	36,504,065

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8,424,497	8,309,879	8,206,076	8,110,176	8,020,018	7,934,027	7,851,072	7,770,362	7,691,354
88,371,359	87,170,279	86,082,044	85,076,387	84,130,805	83,228,832	82,358,668	81,512,030	80,683,236
38,918,985	38,533,904	38,150,903	37,770,744	37,393,828	37,020,360	36,650,435	36,284,093	35,921,348
12,555,314	12,384,330	12,229,543	12,086,576	11,952,191	11,824,028	11,700,395	11,580,109	11,462,363
229,226,972	226,219,770	223,484,393	220,941,894	218,536,368	216,228,945	213,992,224	211,807,892	209,664,187
-	-	-	-	-	-	-	-	-
15,368,593	15,056,440	14,797,792	14,577,544	14,384,472	14,210,378	14,049,393	13,897,407	13,751,619
-	-	-	-	-	-	-	-	-
262,651,535	260,191,431	257,687,829	255,168,579	252,650,469	250,142,950	247,652,514	245,182,523	242,734,173
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

27,185	26,718	26,317	25,965	25,648	25,354	25,078	24,813	24,556
5,050	4,981	4,919	4,862	4,808	4,756	4,706	4,658	4,611
61,807	60,967	60,206	59,503	58,841	58,210	57,602	57,010	56,430
26,181	25,922	25,664	25,408	25,155	24,904	24,655	24,408	24,164
8,530	8,414	8,308	8,211	8,120	8,033	7,949	7,867	7,787
155,731	153,688	151,830	150,103	148,469	146,901	145,381	143,897	142,441
-	-	-	-	-	-	-	-	-
10,441	10,229	10,053	9,904	9,772	9,654	9,545	9,442	9,343
-	-	-	-	-	-	-	-	-
178,439	176,768	175,067	173,356	171,645	169,941	168,249	166,571	164,908
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
3,627	3,565	3,512	3,465	3,422	3,383	3,346	3,311	3,277
834	823	812	803	794	785	777	769	761
15,864	15,649	15,453	15,273	15,103	14,941	14,785	14,633	14,484
3,493	3,459	3,424	3,390	3,356	3,323	3,290	3,257	3,224
1,409	1,390	1,372	1,356	1,341	1,327	1,313	1,299	1,286
25,719	25,382	25,075	24,790	24,520	24,261	24,010	23,765	23,524
-	-	-	-	-	-	-	-	-
1,724	1,689	1,660	1,636	1,614	1,594	1,576	1,559	1,543
-	-	-	-	-	-	-	-	-
29,470	29,193	28,913	28,630	28,347	28,066	27,787	27,509	27,235
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28
12	12	12	12	12	12	12	12	12
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*
6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%	6.1%
77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%	77.2%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%

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83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%
16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
163	163	163	163	163	163	163	163	163
28	28	28	28	28	28	28	28	28
100%	100%	100%	100%	100%	100%	100%	100%	100%
94%	94%	94%	94%	94%	94%	94%	94%	94%
64%	64%	64%	64%	64%	64%	64%	64%	64%
558	558	558	558	558	558	558	558	558
80	80	80	80	80	80	80	80	80
7	7	7	7	7	7	7	7	7
2	2	2	2	2	2	2	2	2
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%
13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%
85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%	28.6%
71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%
85%	86%	86%	87%	88%	88%	89%	89%	90%
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2	2	2	2	2	2	2	2	2
21	21	20	20	20	20	19	19	19
5	4	4	4	4	4	4	4	4
95	94	93	92	91	90	89	88	87
17	17	17	16	16	16	16	16	15
290	287	284	281	278	275	273	270	267
-	-	-	-	-	-	-	-	-
155.73	153.69	151.83	150.10	148.47	146.90	145.38	143.90	142.44
-	-	-	-	-	-	-	-	-
334	330	327	323	320	317	314	310	307
-	-	-	-	-	-	-	-	-
178	177	175	173	172	170	168	167	165
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
25	25	25	25	25	26	26	26	26
148	149	150	151	152	153	154	155	155
1,804	1,815	1,827	1,838	1,849	1,860	1,871	1,881	1,892
11,860	11,936	12,012	12,086	12,159	12,231	12,301	12,371	12,439
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	43	19	8	3	1	0	0	0
232	106	47	20	8	3	1	0	0
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
659,405	664,688	669,701	674,485	679,062	683,458	687,717	691,838	695,838
-	-	-	-	-	-	-	-	-
1,648,511.90	1,661,719.18	1,674,252.94	1,686,213.44	1,697,654.97	1,708,645.81	1,719,292.79	1,729,594.03	1,739,594.86
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
255,895.23	257,800.93	259,703.77	261,577.37	263,403.74	265,177.66	266,906.95	268,585.82	270,218.68

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639,738.09	644,502.32	649,259.41	653,943.43	658,509.35	662,944.14	667,267.37	671,464.55	675,546.71
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
0%	0%	0%	0%	0%	0%	0%	0%	0%
53%	53%	53%	53%	53%	53%	53%	53%	53%
1,470,175	**1,470,178**	**1,470,180**	**1,470,181**	**1,470,182**	**1,470,182**	**1,470,183**	**1,470,183**	**1,470,183**
1,470,175	1,470,178	1,470,180	1,470,181	1,470,182	1,470,182	1,470,183	1,470,183	1,470,183
1,470,175	1,470,178	1,470,180	1,470,181	1,470,182	1,470,182	1,470,183	1,470,183	1,470,183
695,929,537	687,583,029	679,760,542	672,330,682	665,194,734	658,279,765	651,533,693	644,919,720	638,412,344
-	-	-	-	-	-	-	-	-
695,929,537	687,583,029	679,760,542	672,330,682	665,194,734	658,279,765	651,533,693	644,919,720	638,412,344
95	95	95	95	95	95	95	95	95
473	468	462	457	452	448	443	439	434
-	-	-	-	-	-	-	-	-
473	468	462	457	452	448	443	439	434
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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2,479,281.15	2,436,625.43	2,400,120.48	2,368,023.46	2,339,054.17	2,312,284.99	2,287,054.71	2,262,902.10	2,239,513.18
31,197,621.11	30,660,869.95	30,201,516.08	29,797,628.59	29,433,098.33	29,096,252.77	28,778,771.75	28,474,851.42	28,180,540.82
6,735,380.45	6,619,499.07	6,520,327.31	6,433,130.41	6,354,430.50	6,281,707.55	6,213,165.29	6,147,550.70	6,084,010.80
138,927,055	137,055,101	135,354,929	133,780,779	132,298,507	130,883,084	129,516,534	128,186,235	126,883,536
24,711,692	24,399,732	24,111,427	23,840,647	23,582,807	23,334,541	23,093,428	22,857,766	22,626,383
426,290,282	421,646,265	417,154,185	412,790,006	408,531,783	404,360,575	400,262,477	396,226,524	392,244,093
-	-	-	-	-	-	-	-	-
229,226,972	226,219,770	223,484,393	220,941,894	218,536,368	216,228,945	213,992,224	211,807,892	209,664,187
-	-	-	-	-	-	-	-	-
491,878,507	486,411,201	481,172,222	476,110,473	471,186,837	466,371,895	461,644,738	456,990,415	452,398,360
-	-	-	-	-	-	-	-	-
262,651,535	260,191,431	257,687,829	255,168,579	252,650,469	250,142,950	247,652,514	245,182,523	242,734,173
-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
36,455,636	36,690,839	36,922,557	37,150,794	37,375,240	37,595,441	37,811,773	38,025,797	38,236,718
217,822,424	219,227,765	220,612,278	221,975,997	223,317,061	224,632,758	225,925,342	227,204,140	228,464,393
2,651,756,909	2,668,865,449	2,685,720,419	2,702,322,255	2,718,648,289	2,734,665,498	2,750,401,341	2,765,969,349	2,781,311,586
17,436,209,811	17,548,704,320	17,659,531,525	17,768,694,281	17,876,043,543	17,981,362,177	18,084,830,732	18,187,195,717	18,288,076,181
1,470.17	1,470.18	1,470.18	1,470.18	1,470.18	1,470.18	1,470.18	1,470.18	1,470.18
136,719,839	62,594,013	27,518,420	11,615,408	4,706,112	1,829,671	682,362	244,000	83,608
341,799,598	156,485,034	68,796,051	29,038,520	11,765,280	4,574,176	1,705,905	610,001	209,020
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
969,440,372,928	977,209,025,420	984,581,057,064	991,615,579,445	998,344,623,054	##############	##############	##############	##############
1	1	1	1	1	1	1	1	1
##############	##############	##############	##############	##############	##############	##############	##############	##############
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376,210,770,177	379,013,188,255	381,811,196,599	384,566,082,203	387,251,402,396	389,859,532,081	392,402,003,622	394,870,316,195	397,270,957,659
940,526,925,442	947,532,970,637	954,527,991,498	961,415,205,508	968,128,505,989	974,648,830,203	981,005,009,055	987,175,790,488	993,177,394,148
-	-	-	-	-	-	-	-	-
440	440	400	400	400	400	400	400	400
-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1

IP Transmission	IP Equipment	NGN Voice Equipment

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IP Distribution transmission	IP Core transmission	IP Access routing	IP Distribution routing	IP Core routing	spare	NGN Distribution SBC	NGN Interconnect SBC	NGN SIP Voice interconnection
DR-CR	CR-CR	ER	DR	CR	spare	Distribution SBCs	Interconnection SBCs	Border Gateway
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	1	-	-	-	1	-	-
1	-	1	1	**1**	-	1	-	-
1	1	1	1	**2**	-	1	-	-
1	-	1	**1**	1	-	1	-	-
1	1	1	**1**	2	-	1	-	-
-	-	-	-	-	-	-	1	-
-	-	-	-	-	-	-	1	1
1	-	1	**1**	1	-	1	-	-
1	1	1	**1**	2	-	1	-	-
-	-	-	-	-	-	-	1	-
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3,231,871	3,257,028	3,281,324	3,304,758	3,327,319	3,349,072	3,370,188	3,390,644	3,410,517
5,520,004	5,563,005	5,604,530	5,644,579	5,683,133	5,720,305	5,756,388	5,791,340	5,825,293
2,300,364	2,318,286	2,335,592	2,352,283	2,368,352	2,383,844	2,398,882	2,413,449	2,427,601
3,231,846	3,257,004	3,281,299	3,304,733	3,327,293	3,349,046	3,370,163	3,390,619	3,410,491
5,520,332	5,563,333	5,604,856	5,644,905	5,683,459	5,720,629	5,756,711	5,791,662	5,825,615
5,518,196	5,561,186	5,602,699	5,642,737	5,681,281	5,718,441	5,754,513	5,789,455	5,823,398
-	-	-	-	-	-	-	-	-
322	318	314	310	306	303	300	297	294
625	618	611	605	598	592	586	580	575
-	-	-	-	-	-	-	-	-
625	618	611	605	598	592	586	580	575
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
27,673	27,852	28,028	28,201	28,371	28,538	28,703	28,865	29,025
322	318	314	310	306	303	300	297	294

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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
223	219	215	213	210	208	205	203	201
2,800	2,752	2,711	2,675	2,642	2,612	2,583	2,556	2,529
605	594	585	577	570	564	558	552	546
19,725	19,456	19,212	18,987	18,776	18,575	18,380	18,191	18,006
3,600	3,553	3,510	3,470	3,432	3,396	3,361	3,326	3,293
52,794	52,203	51,635	51,088	50,556	50,037	49,528	49,027	48,534
-	-	-	-	-	-	-	-	-
25,719	25,382	25,075	24,790	24,520	24,261	24,010	23,765	23,524
-	-	-	-	-	-	-	-	-
55,189	54,575	53,988	53,420	52,867	52,327	51,797	51,274	50,759
-	-	-	-	-	-	-	-	-
29,470	29,193	28,913	28,630	28,347	28,066	27,787	27,509	27,235
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
0	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
183,271,525	181,058,754	178,988,799	177,025,652	175,142,284	173,318,736	171,540,752	169,798,265	168,084,301
623,123	615,600	608,562	601,887	595,484	589,284	583,239	577,314	571,487
15,368,593	15,056,440	14,797,792	14,577,544	14,384,472	14,210,378	14,049,393	13,897,407	13,751,619
229,226,972	226,219,770	223,484,393	220,941,894	218,536,368	216,228,945	213,992,224	211,807,892	209,664,187

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56	57	58	59	60	
2046	**2047**	**2048**	**2049**	**2050**	
					Voice_billed_minutes
36,131,876	35,766,540	35,406,677	35,051,440	34,700,319	
7,613,687	7,537,127	7,461,524	7,386,785	7,312,854	
79,868,503	79,065,376	78,272,293	77,488,277	76,712,727	
35,562,191	35,206,601	34,854,553	34,506,016	34,160,959	
11,346,617	11,232,520	11,119,850	11,008,468	10,898,288	
207,553,327	205,470,030	203,411,148	201,374,829	199,359,836	
-	-	-	-	-	
13,610,169	13,471,856	13,335,927	13,201,924	13,069,571	
-	-	-	-	-	
240,308,309	237,905,934	235,527,298	233,172,300	230,840,942	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
0	0	0	0	0	
-	-	-	-	-	
0	0	0	0	0	
0	0	0	0	0	
699,776	703,661	707,495	711,280	715,032	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
14,592	14,671	14,750	14,829	14,908	
-	-	-	-	-	
40,422	40,632	40,845	41,060	41,276	
7,824	7,867	7,909	7,951	7,993	
0	0	0	0	0	
-	-	-	-	-	
-	-	-	-	-	*Network_services_volumes_Linear_IPTV*
-	-	-	-	-	
-	-	-	-	-	
951,396	956,955	962,440	967,858	973,227	
2,449,216	2,462,814	2,476,232	2,489,481	2,502,613	
80,952	81,383	81,816	82,249	82,684	*Network_subs_voice_Res*
7,824	7,867	7,909	7,951	7,993	*Network_subs_voice_Bus*
0.00	0.00	0.00	0.00	0.00	

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7,226,375	7,153,308	7,081,335	7,010,288	6,940,064	
1,903,422	1,884,282	1,865,381	1,846,696	1,828,213	
31,947,401	31,626,150	31,308,917	30,995,311	30,685,091	
7,112,438	7,041,320	6,970,911	6,901,203	6,832,192	
2,836,654	2,808,130	2,779,963	2,752,117	2,724,572	
51,888,332	51,367,507	50,852,787	50,343,707	49,839,959	
-	-	-	-	-	
3,402,542	3,367,964	3,333,982	3,300,481	3,267,393	
-	-	-	-	-	
60,077,077	59,476,483	58,881,825	58,293,075	57,710,235	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_calls

7,949,013	7,868,639	7,789,469	7,711,317	7,634,070
2,093,764	2,072,710	2,051,919	2,031,366	2,011,035
35,142,141	34,788,765	34,439,809	34,094,842	33,753,600
7,823,682	7,745,452	7,668,002	7,591,324	7,515,411
3,120,320	3,088,943	3,057,959	3,027,329	2,997,029
57,077,165	56,504,258	55,938,066	55,378,078	54,823,955
-	-	-	-	-
3,742,796	3,704,760	3,667,380	3,630,529	3,594,132
-	-	-	-	-
66,084,785	65,424,132	64,770,007	64,122,383	63,481,259
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Voice_call_attempts

37,625,327	37,244,890	36,870,153	36,500,233	36,134,599
8,007,061	7,926,545	7,847,036	7,768,436	7,690,685
86,470,966	85,601,447	84,742,802	83,893,975	83,054,313
37,032,095	36,661,807	36,295,207	35,932,265	35,572,946

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11,932,859	11,812,867	11,694,376	11,577,239	11,461,366	
218,276,916	216,085,981	213,920,724	211,779,195	209,660,094	
-	-	-	-	-	
14,313,361	14,167,901	14,024,950	13,884,024	13,744,833	
-	-	-	-	-	
252,724,238	250,197,741	247,696,208	245,219,536	242,767,724	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_occupancy_minutes
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_occupancy_minutes_TDM
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_call_attempts_TDM

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-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
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-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_billed_minutes_TDM
37,625,327	37,244,890	36,870,153	36,500,233	36,134,599	
8,007,061	7,926,545	7,847,036	7,768,436	7,690,685	
86,470,966	85,601,447	84,742,802	83,893,975	83,054,313	
37,032,095	36,661,807	36,295,207	35,932,265	35,572,946	
11,932,859	11,812,867	11,694,376	11,577,239	11,461,366	
218,276,916	216,085,981	213,920,724	211,779,195	209,660,094	
-	-	-	-	-	
14,313,361	14,167,901	14,024,950	13,884,024	13,744,833	
-	-	-	-	-	
252,724,238	250,197,741	247,696,208	245,219,536	242,767,724	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_occupancy_minutes_NGN
7,949,013	7,868,639	7,789,469	7,711,317	7,634,070	
2,093,764	2,072,710	2,051,919	2,031,366	2,011,035	
35,142,141	34,788,765	34,439,809	34,094,842	33,753,600	
7,823,682	7,745,452	7,668,002	7,591,324	7,515,411	
3,120,320	3,088,943	3,057,959	3,027,329	2,997,029	
57,077,165	56,504,258	55,938,066	55,378,078	54,823,955	
-	-	-	-	-	
3,742,796	3,704,760	3,667,380	3,630,529	3,594,132	
-	-	-	-	-	
66,084,785	65,424,132	64,770,007	64,122,383	63,481,259	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_call_attempts_NGN
36,131,876	35,766,540	35,406,677	35,051,440	34,700,319	

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7,613,687	7,537,127	7,461,524	7,386,785	7,312,854	
79,868,503	79,065,376	78,272,293	77,488,277	76,712,727	
35,562,191	35,206,601	34,854,553	34,506,016	34,160,959	
11,346,617	11,232,520	11,119,850	11,008,468	10,898,288	
207,553,327	205,470,030	203,411,148	201,374,829	199,359,836	
-	-	-	-	-	
13,610,169	13,471,856	13,335,927	13,201,924	13,069,571	
-	-	-	-	-	
240,308,309	237,905,934	235,527,298	233,172,300	230,840,942	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_billed_minutes_NGN
-	-	-	-	-	*Voice_BHE_onnet*
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_BHE
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_BHCA_TDM

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24,306	24,060	23,818	23,579	23,343	*Voice_BHkbs_onnet*
4,564	4,518	4,473	4,428	4,384	
55,860	55,299	54,744	54,196	53,653	
23,923	23,684	23,447	23,212	22,980	
7,709	7,631	7,555	7,479	7,404	
141,007	139,592	138,193	136,809	135,440	
-	-	-	-	-	
9,246	9,152	9,060	8,969	8,879	
-	-	-	-	-	
163,260	161,628	160,012	158,412	156,828	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_BHkbs
3,243	3,210	3,178	3,146	3,115	
754	746	739	731	724	
14,338	14,194	14,051	13,911	13,771	
3,192	3,160	3,129	3,097	3,066	
1,273	1,260	1,248	1,235	1,223	
23,287	23,054	22,823	22,594	22,368	
-	-	-	-	-	
1,527	1,512	1,496	1,481	1,466	
-	-	-	-	-	
26,963	26,693	26,426	26,162	25,900	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Voice_BHCA_NGN
3,948	3,948	3,948	3,948	3,948	
163	163	163	163	163	
28	28	28	28	28	
12	12	12	12	12	
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	
6.1%	6.1%	6.1%	6.1%	6.1%	
77.2%	77.2%	77.2%	77.2%	77.2%	
16.7%	16.7%	16.7%	16.7%	16.7%	
					on_net_traffic_routing

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83.3%	83.3%	83.3%	83.3%	83.3%	
16.7%	16.7%	16.7%	16.7%	16.7%	
					outgoing_traffic_routing
3,948	3,948	3,948	3,948	3,948	
163	163	163	163	163	
28	28	28	28	28	
100%	100%	100%	100%	100%	*access_ll_traffic_routing*
94%	94%	94%	94%	94%	*distribution_ll_traffic_routing*
64%	64%	64%	64%	64%	*core_ll_traffic_routing*
558	558	558	558	558	
80	80	80	80	80	
7	7	7	7	7	
2	2	2	2	2	
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	
0.2%	0.2%	0.2%	0.2%	0.2%	
1.1%	1.1%	1.1%	1.1%	1.1%	
13.0%	13.0%	13.0%	13.0%	13.0%	
85.7%	85.7%	85.7%	85.7%	85.7%	
					ip_traffic_routing
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	
28.6%	28.6%	28.6%	28.6%	28.6%	*ip_services_traffic_routing_direct*
71.4%	71.4%	71.4%	71.4%	71.4%	*ip_services_traffic_routing_indirect*
					ip_services_traffic_routing
90%	91%	91%	92%	92%	*bsc.penetration*
-	-	-	-	-	

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-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
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-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	Network_services_volumes_dial_up
1	1	1	1	1	
19	19	18	18	18	
4	4	4	4	4	
86	85	84	83	83	
15	15	15	15	15	
265	262	259	257	254	
-	-	-	-	-	
141.01	139.59	138.19	136.81	135.44	
-	-	-	-	-	
304	301	298	295	292	
-	-	-	-	-	
163	162	160	158	157	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	Network_services_volumes_TDM_LL_Low_Capa
-	-	-	-	-	Network_services_volumes_TDM_LL_High_Capa
-	-	-	-	-	
26	26	26	27	27	Network_services_volumes_VPN_sublocal
156	157	158	159	160	Network_services_volumes_VPN_local
1,902	1,912	1,923	1,933	1,943	Network_services_volumes_VPN_regional
12,507	12,575	12,643	12,710	12,778	Network_services_volumes_VPN_core
0.00	0.00	0.00	0.00	0.00	Network_services_volumes_BSA
0	0	0	0	0.00	Network_services_volumes_xDSL_direct
0	0	0	0	0.00	Network_services_volumes_xDSL_indirect
-	-	-	-	-	Network_services_volumes_VoD_direct
-	-	-	-	-	Network_services_volumes_VoD_indirect
699,776	703,661	707,495	711,280	715,032	Network_services_volumes_fibre_direct
-	-	-	-	-	
1,749,439.71	1,759,153.04	1,768,736.95	1,778,201.02	1,787,580.43	Network_services_volumes_fibre_indirect
-	-	-	-	-	Network_services_volumes_Linear_IPTV_access
-	-	-	-	-	Network_services_volumes_Linear_IPTV_local
-	-	-	-	-	Network_services_volumes_Linear_IPTV_regional
-	-	-	-	-	Network_services_volumes_Linear_IPTV_provisioning
271,827.56	273,415.66	274,982.92	276,530.72	278,064.73	Network_services_volumes_CATV_direct

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679,568.91	683,539.15	687,457.29	691,326.80	695,161.83	*Network_services_volumes_CATV_indirect*
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Network_services_volumes
0	*0*	*0*	*0*	*0*	
0	*0*	*0*	*0*	*0*	
0%	0%	0%	0%	0%	*interco_BHE_incoming_share*
53%	53%	53%	53%	53%	*interco_BHMbps_incoming_share*
1,470,183	**1,470,183**	**1,470,183**	**1,470,183**	**1,470,183**	*Network_minutes_per_Mbps*
1,470,183	1,470,183	1,470,183	1,470,183	1,470,183	*Network_minutes_per_Mbps.current*
1,470,183	1,470,183	1,470,183	1,470,183	1,470,183	*Network_minutes_per_Mbps.pasted*
631,994,678	625,655,984	619,389,270	613,190,040	607,055,497	
-	-	-	-	-	
631,994,678	625,655,984	619,389,270	613,190,040	607,055,497	
95	95	95	95	95	
430	426	421	417	413	
-	-	-	-	-	
430	426	421	417	413	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
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-	-	-	-	-	
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-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	

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2,216,679.50	2,194,266.26	2,172,188.79	2,150,395.12	2,128,853.92
27,893,217.00	27,611,183.81	27,333,375.56	27,059,138.61	26,788,078.55
6,021,979.30	5,961,090.02	5,901,112.87	5,841,906.75	5,783,386.50
125,602,667	124,339,876	123,092,777	121,859,879	120,640,262
22,398,500	22,173,604	21,951,370	21,731,591	21,514,138
388,309,475	384,419,414	380,571,445	376,763,771	372,995,342
-	-	-	-	-
207,553,327	205,470,030	203,411,148	201,374,829	199,359,836
-	-	-	-	-
447,861,636	443,375,964	438,938,446	434,547,129	430,200,778
-	-	-	-	-
240,308,309	237,905,934	235,527,298	233,172,300	230,840,942
-	-	-	-	-
1	1	1	1	1
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
38,444,939	38,653,254	38,861,723	39,069,949	39,277,747
229,708,513	230,953,191	232,198,798	233,442,943	234,684,538
2,796,457,433	2,811,610,066	2,826,774,006	2,841,920,158	2,857,035,259
18,387,665,311	18,487,299,064	18,587,007,165	18,686,598,299	18,785,985,266
1,470.18	1,470.18	1,470.18	1,470.18	1,470.18
27,436	8,616	2,586	741	203
68,591	21,539	6,466	1,853	506
-	-	-	-	-
-	-	-	-	-
##############	##############	##############	##############	##############
1	1	1	1	1
##############	##############	##############	##############	##############
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
399,636,330,211	401,971,135,795	404,275,296,970	406,550,852,410	408,806,137,556
999,090,825,527	##############	##############	##############	##############
-	-	-	-	-
400	400	400	400	400
-	-	-	-	-

Network_services_volumes_annual

0	*0*	*0*	*0*	*0*	*0*
1	*1*	*1*	*1*	*1*	*0*

	NGN Equipment	Digital cross-connects	

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NGN ss7 Voice interconnection	NGN call servers	Digital cross-connects	VPN access transmission	NGN voice access	spare1	spare2	spare3	spare4
TGW	Call Servers	DCX	L2S-ER for VPN traffi	DSLAM/MSAN-L2S-E	spare1			
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	1	-	-	-	-
-	-	-	-	1	-	-	-	-
-	-	-	-	1	-	-	-	-
-	1	-	-	1	-	-	-	-
-	1	-	-	1	-	-	-	-
1	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	1	-	-	1	-	-	-	-
-	1	-	-	1	-	-	-	-
1	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	1	-	-	-	-	-	-	-
-	1	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	1	-	-	-	-	-	-
-	-	1	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	2	-	-	-	-	-
-	-	-	2	-	-	-	-	-
-	-	-	2	-	-	-	-	-
-	-	-	2	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

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-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
3,430,086	3,449,398	3,468,457	3,487,279	3,505,934
5,858,727	5,891,721	5,924,279	5,956,433	5,988,301
2,441,535	2,455,286	2,468,856	2,482,257	2,495,539
3,430,060	3,449,372	3,468,430	3,487,252	3,505,907
5,859,048	5,892,041	5,924,599	5,956,752	5,988,618
5,856,822	5,889,805	5,922,353	5,954,497	5,986,354
-	-	-	-	-
291	288	285	282	279
569	563	557	552	546
-	-	-	-	-
569	563	557	552	546
-	-	-	-	-
-	-	-	-	-
29,183	29,341	29,500	29,658	29,815
291	288	285	282	279

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-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Asset_traffic_volumes

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Asset_call_attempts

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
199	197	195	193	191
2,504	2,478	2,453	2,429	2,404
541	535	530	524	519
17,824	17,645	17,468	17,293	17,120
3,259	3,227	3,194	3,162	3,131
48,047	47,565	47,089	46,618	46,151
-	-	-	-	-
23,287	23,054	22,823	22,594	22,368
-	-	-	-	-
50,250	49,747	49,249	48,756	48,269
-	-	-	-	-
26,963	26,693	26,426	26,162	25,900
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
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-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

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-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
					Network_services_call_attempts
0	*0*	*0*	*0*	*0*	
0	*0*	*0*	*0*	*0*	
166,394,242	164,725,145	163,075,100	161,442,879	159,827,719	
565,740	560,065	554,455	548,906	543,414	*CDRs_per_day*
13,610,169	13,471,856	13,335,927	13,201,924	13,069,571	*WS.originated.minutes*
207,553,327	205,470,030	203,411,148	201,374,829	199,359,836	*WS.terminated.minutes*

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Spare

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spare5	spare6	spare7	spare8	spare9	spare10	spare11
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Routing_factors_Small_matrix.pure_LRI

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Selected operator network design

Network coverage parameters

Number of nodes

Reference year for number of nodes	2009	2009	2009	2009
	Reference.year.parameter			

Number of access nodes	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Access Node (< 500 buildings)	3,091	3,091	3,091	3,091
Access Node (< 1000 buildings)	456	456	456	456
Access Node (< 2000 buildings)	264	264	264	264
Access Node (< 5000 buildings)	128	128	128	128
Access Node (< 15000 buildings)	9	9	9	9
Total	*Number.of.access.r*	**3,948**	**3,948**	**3,948**

Number of edge nodes	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Number of edge nodes	558	558	558	558
	Number.of.edge.nodes.parameter			

Number of distribution nodes	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Number of distribution nodes	163	163	163	163
	Number.of.distribution.nodes.parameter			

Number of core nodes		Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Number of core nodes	*Number.of.core.nodes.parameter*	28	28	28	28
Proportion of collocated core nodes	*Coloc.core.nodes.proportion.para*	7%	7%	7%	7%

Deployment of technologies within nodes

	Start year	End year	End value	
Penetration of DSLAMs in access nodes	2000	2010	85%	*DSLAM.penetration.par*
Spare_1	2000	2010	85%	
CONF_TN	2000	2010	85%	
PUBLIC_TN	2000	2010	85%	
PURE_VoIP	2051	2051	0%	
PURE_unbundler	1992	1992	100%	
PURE_own_access	1992	1992	100%	

Penetration of layer 3 edge routers in transmission hubs	2000	2018	100%	*ER.penetration.parameter*
Spare_1	2000	2018	100%	
CONF_TN	2000	2018	100%	

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PUBLIC_TN	2000	2018	100%	
PURE_VoIP	2051	2051	0%	
PURE_unbundler	1992	1992	100%	
PURE_own_access	1992	1992	100%	
Penetration of layer 3 distribution routers in DN	2000	2012	49%	*DR.penetration.paramei*
Spare_1	2000	2012	49%	
CONF_TN	2000	2012	49%	
PUBLIC_TN	2000	2012	49%	
PURE_VoIP	2010	2010	100%	
PURE_unbundler	1992	1992	100%	
PURE_own_access	1992	1992	100%	
Penetration of layer 3 core routers in CN	2000	2010	23%	*CR.penetration.paramei*
Spare_1	2000	2010	23%	
CONF_TN	2000	2010	23%	
PUBLIC_TN	2000	2010	23%	
PURE_VoIP	2010	2010	100%	
PURE_unbundler	1992	1992	100%	
PURE_own_access	1992	1992	100%	
Deployment of SBC nodes	2013	2015	*SBC.penetration.parameters*	
Spare_1	2013	2015	2	
CONF_TN	2013	2015	2	
PUBLIC_TN	2013	2015	2	
PURE_VoIP	2013	2013		
PURE_unbundler	2013	2013		
PURE_own_access	2013	2013		

Deployment of SBC nodes	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Penetration of SBCs in distribution routers nodes	SBCs where DR co	SBCs where DR co-loc	SBCs where DR co-loc	SBCs where DR co-loc
SBCs where DR co-located with CR	*DN.DR.DSBC.deployment.profile.parameter*			
SBCs at all DR				
SBCs at all MGW				

Transmission resources

Access trees

Resources available	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
own fibre	own fibre	own fibre	own fibre	own fibre
leased dark fibre	*transmission.resources.type.access.trees*			
Ethernet leased lines				
none				
none				

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Assumed lifetime for Ethernet leased lines	5	*AN.Eth.LL.lifetime*
Assumed lifetime for Dark fibre	15	*AN.Dark.Fibre.lifetime*

Table 15

Unbundler access transmission statistics

This table contains statistics on the access transmission used by the unbundler to connect Access Nodes to ER

Access node types	Number of access nodes unbundled	Average distance to parent ER	Threshold between Ethernet LL and dark fibre	Da Pricing by length in NOK per month
	AN.unbundler	*AN.unbundler.AN.ER.d*	*AN.unbundler.thresholds*	
Access Node (< 500 buildings)	-	-	-	-
Access Node (< 1000 buildings)	456	19.4	450	43,600
Access Node (< 2000 buildings)	264	19.5	450	43,600
Access Node (< 5000 buildings)	128	15.9	300	37,300
Access Node (< 15000 buildings)	9	12.1	300	30,550
Total/Average	**857**	**18.8**		**42,522**
Source: Analysys Mason offline calculations (Table 15)				*AN.unbundler.average.*
	456	19.4	-	43,600

Cost information

Ethernet Leased Line reference speed for cost	300	*AN.unbundler.Eth.LL.c*	7
Ethernet Leased Line cost index			
Access Node (< 500 buildings)			
Access Node (< 1000 buildings)			
Access Node (< 2000 buildings)			
Access Node (< 5000 buildings)			
Access Node (< 15000 buildings)			

Table 16

Fibre access transmission statistics

This table contains statistics on the access transmission used by the fibre access operator to connect Access Nodes to ER

Access node types	Number of access nodes fibre	Average distance to parent ER	Threshold between Ethernet LL and dark fibre	Da Pricing by length in NOK per month
	AN.fibre	*AN.fibre.AN.ER.distanc*	*AN.fibre.thresholds*	
Access Node (< 500 buildings)	-	-	-	-
Access Node (< 1000 buildings)	239	21.1	450	46,750
Access Node (< 2000 buildings)	173	20.8	450	46,300
Access Node (< 5000 buildings)	84	19.4	450	43,600
Access Node (< 15000 buildings)	2	22.5	450	49,000
Total/Average	**498**	**20.7**		**46,071**
Source: Analysys Mason offline calculations (Table 16)				*AN.fibre.average.dark.f*

Cost information

Ethernet Leased Line reference speed for cost	300	*AN.fibre.Eth.LL.cost.ref*	7
Ethernet Leased Line cost index			

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Access Node (< 500 buildings)
Access Node (< 1000 buildings)
Access Node (< 2000 buildings)
Access Node (< 5000 buildings)
Access Node (< 15000 buildings)

Average cost used in access network between DSLAM/MSANs and ER

	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Ethernet LL monthly charge				
AN.Eth.LL.monthly.input.cost	-	-	-	-
Ethernet LL connection charge				
AN.Eth.LL.connection.input.cost	-	-	-	-
Dark fibre monthly charge				
AN.dark.fibre.monthly.input.cost	-	-	-	-
Dark fibre connection charge				
AN.dark.fibre.connection.input.cc	-	-	-	-

Access rings

	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Resources used	own fibre	own fibre	own fibre	own fibre
	transmission.resources.type.access.rings			

own fibre
leased dark fibre
Ethernet leased lines
none
none

Table 14 **Edge routes topology and costs**

Edge routes Identifier	Crow-flies fibre distance	Spread routing	Da Pricing by length in NOK per month
ER-DR-1	12	1.25	29,650
ER-DR-80	42	1.25	85,000
Total/Average	**4,325**	**1.25**	**118,123**
			AN.ER.DR.average.dar

Repeaters 22 *access.ER.DR.fibre.repeaters*

Cost information

Ethernet Leased Line reference speed for cost 300 *AN.ER.DR.Eth.LL.cost.* 7

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Average cost used in access network between ER and DR

	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Ethernet LL monthly charge				
AN.ER.DR.Eth.LL.monthly.input.	-	-	-	-
Ethernet LL connection charge				
AN.ER.DR.Eth.LL.connection.inp	-	-	-	-
Dark fibre monthly charge				
AN.ER.DR.dark.fibre.monthly.inp	-	-	-	-
Dark fibre connection charge				
AN.ER.DR.dark.fibre.connection.	-	-	-	-

Distribution rings

	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Resources used	own fibre	own fibre	own fibre	own fibre
own fibre				
leased dark fibre				
Ethernet leased lines				
none				
none				

transmission.resources.type.distribution.rings

Table 13 **Distribution routes topology and costs**

Distribution routes Identifier	Crow-flies fibre distance	Spread routing	Dark fibre: Pricing by length in NOK per month	Dark fibre: Standard connection cost
DR-CR-1	235	1.25	432,400	30,000
DR-CR-2	240	1.25	440,050	30,000
DR-CR-3	884	1.25	1,600,600	30,000
DR-CR-4	467	1.25	849,100	30,000
DR-CR-5	-	1.25	-	-
DR-CR-6	430	1.25	782,050	30,000
DR-CR-7	36	1.25	72,850	30,000
DR-CR-8	40	1.25	80,500	30,000
DR-CR-9	79	1.25	150,250	30,000
DR-CR-10	80	1.25	152,500	30,000
DR-CR-11	98	1.25	185,350	30,000
DR-CR-12	96	1.25	182,200	30,000
DR-CR-13	-	1.25	-	-
DR-CR-14	4	1.25	16,600	30,000
DR-CR-15	4	1.25	16,600	30,000

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DR-CR-16	-	1.25	-	-
DR-CR-17	163	1.25	302,350	30,000
DR-CR-18	305	1.25	557,500	30,000
DR-CR-19	101	1.25	190,300	30,000
DR-CR-20	105	1.25	197,500	30,000
DR-CR-21	430	1.25	782,050	30,000
DR-CR-22	-	1.25	-	-
DR-CR-23	291	1.25	532,300	30,000
DR-CR-24	257	1.25	471,100	30,000
DR-CR-25	1,207	1.25	2,180,650	30,000
DR-CR-26	787	1.25	1,426,000	30,000

Distribution routes overall costs

all routes	69	1.25	11,600,800	660,000
	distribution.fibre.rep	*distribution.spread.routi*	*distribution.dark.fibre.m*	*distribution.dark.fibre.co*

Core rings

	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Resources used	own fibre	own fibre	own fibre	own fibre
	transmission.resources.type.core.rings			

own fibre
leased dark fibre
Ethernet leased lines
none
none

	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Fibre road distance (km)	11,786	11,786	11,786	11,786
	core_rings_terrestrial_fibre_length_total.parameter			

	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Submarine cable distance (km)	605	605	605	605
	core_rings_submarine_fibre_length_total.parameter			

Table 12 **Core routes topology and costs**

Core routes Identifier	Crow-flies fibre distance	Spread routing	Dark fibre: Pricing by length in NOK per month	Dark fibre: Standard connection cost
CR-CR-1	4	1.25	16,600	30,000
CR-CR-2	392	1.25	714,550	30,000
CR-CR-3	304	1.25	556,600	30,000
CR-CR-4	391	1.25	711,850	30,000
CR-CR-5	308	1.25	562,450	30,000
CR-CR-6	430	1.25	782,050	30,000

core.nodes.choice.index 3

2

4

Core routes overall costs

core network with 2 CRs	-	1.25	16,600	30,000

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28	core network with 28 CRs	19	1.25	3,327,500	150,000
core.nodes.choice	*core.nodes.networks*	*core.fibre.repeaters*	*core.spread.routing*	*core.dark.fibre.monthly*	*core.dark.fibre.connecti*

Throughput traffic rates and various conversion factors

	Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Bandwidth occupied per voice call	95	95	95	95
	parameter_size_of_voice_call.parameter			

Loading inputs

Traffic profiles

		Selected operator	Spare_1	CONF_TN	PUBLIC_TN
Annual busy days	*weekdays.parameter*	250	250	250	250
Voice traffic profile					
Voice busy hour daily percentage	*loading_voice_busy_hour_percer*	12.0%	12.0%	12.0%	12.0%
Average answered call set-up time	*answered.call.set.up.parameter*	0.17	0.17	0.17	0.17
Average unanswered call duration	*unanswered.call.duration.parame*	0.40	0.40	0.40	0.40
Voice weekday proportion - nationa	*loading_voice_weekday_proporti*	85%	85%	85%	85%
Voice weekday proportion - interna	*loading_voice_weekday_proporti*	75%	75%	75%	75%
Voice weekday proportion - fixed tc	*loading_voice_weekday_proporti*	85%	85%	85%	85%
Localisation factor - voice routing					
On-net voice traffic - local	*onnet_voice_local_local.paramet*	10	10	10	10
On-net voice traffic - regional	*onnet_voice_local_regional.para*	10	10	10	10
Outgoing voice traffic - regional	*outgoing_voice_local_regional.pa*	10	10	10	10
Average call durations					
On-net calls (retail)		5.00	5.00	5.00	5.00
Outgoing calls to international (retail)		4.00	4.00	4.00	4.00
Outgoing calls to mobile (retail)		2.50	2.50	2.50	2.50
Outgoing calls to other fixed operators (retail)		5.00	5.00	5.00	5.00
Outgoing calls to non-geographic numbers (retail)		4.00	4.00	4.00	4.00
Local incoming calls (wholesale)		4.00	4.00	4.00	4.00
Tandem incoming calls (wholesale)		4.00	4.00	4.00	4.00
Local outgoing calls (wholesale)		4.00	4.00	4.00	4.00
Tandem outgoing calls (wholesale)		4.00	4.00	4.00	4.00
Local transit calls (wholesale)		4.00	4.00	4.00	4.00
Tandem transit calls (wholesale)		4.00	4.00	4.00	4.00
Dial-up Internet traffic (retail)		30.00	30.00	30.00	30.00
spare voice		4.00	4.00	4.00	4.00
		loading_call_durations.parameter			
Call attempts per successful call					
On-net calls (retail)		1.10	1.10	1.10	1.10
Outgoing calls to international (retail)		1.10	1.10	1.10	1.10
Outgoing calls to mobile (retail)		1.10	1.10	1.10	1.10
Outgoing calls to other fixed operators (retail)		1.10	1.10	1.10	1.10
Outgoing calls to non-geographic numbers (retail)		1.10	1.10	1.10	1.10

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Local incoming calls (wholesale)	1.10	1.10	1.10	1.10
Tandem incoming calls (wholesale)	1.10	1.10	1.10	1.10
Local outgoing calls (wholesale)	1.10	1.10	1.10	1.10
Tandem outgoing calls (wholesale)	1.10	1.10	1.10	1.10
Local transit calls (wholesale)	1.10	1.10	1.10	1.10
Tandem transit calls (wholesale)	1.10	1.10	1.10	1.10
Dial-up Internet traffic (retail)	1.10	1.10	1.10	1.10
spare voice	1.10	1.10	1.10	1.10

loading_call_attempt_ratio.parameter

Data contention ratio

note: Contention is now treated in the Market model on the "Market Der

Data services (sublocal VPN, contended)	1	1	1	1
Data services (local VPN, contended)	1	1	1	1
Data services (regional VPN, contended)	1	1	1	1
Data services (national VPN, contended)	1	1	1	1

IPVPN_contention.parameter

Technical parameters

NGN network elements

NGN interconnection protocol

Selected operator	Spare_1	CONF_TN	PUBLIC_TN
no migration from s	no migration from ss7 t	no migration from ss7 t	no migration from ss7 t

NGN_interconnect_migration.parameter

Share of SIP interconnect

no migration from ss7 to sip

migration from ss7 to sip

	NGN.number.of.Po	*NGN.number.of.consolidated.PoIs.parameter*
Number of circuit groups for ss7 interconnection		
Number of national PoI	13	2
Spare_1	13	2
CONF_TN	13	2
PUBLIC_TN	13	2
PURE_VoIP	2	2
PURE_unbundler	2	2
PURE_own_access	2	2

Number of operators per national PoI	20	*NGN.number.of.operators.per.PoI.parameter*
Spare_1	20	
CONF_TN	20	
PUBLIC_TN	20	
PURE_VoIP	3	*Assumes interconnection with Telenor and two other operators e.g. the*
PURE_unbundler	3	*Assumes interconnection with Telenor and two other operators e.g. the*
PURE_own_access	3	*Assumes interconnection with Telenor and two other operators e.g. the*

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		Selected operator	Spare_1	CONF_TN	PUBLIC_TN
TDM CS					
Processor capacity	*TDM_CS_processor_capacity_p*	1,000,000	1,000,000	1,000,000	1,000,000
NGN CS					
Minimum number of CS in the netw	*NGN_CS_minimum.parameter*	2	2	2	2
Processor capacity	*NGN_CS_processor_capacity_p*	200,000	200,000	200,000	200,000
DNS					
Number of DNS per core IP node	*DNS_minimum.parameter*	2	2	2	2
MSANs					
PSTN/xDSL/splitter ports per MSA	*MSAN_PSTN_xDSL_ports_per_*	48	48	48	48
Line cards per shelf	*MSAN_linecards_per_shelf_para*	18	18	18	18
Shelves per rack	*MSAN_shelves_per_rack_param*	3	3	3	3
Provision shelves on expectation o	*MSAN_ports_per_line_for_shelve*	3	3	3	3
Overall ports capacity excl. utilisation			2,592	2,592	2,592
NGN DSLAMs					
PSTN ports per MSAN line card	*NGN_DSLAM_PSTN_ports_per_*	48	-	48	48
xDSL ports per MSAN line card	*NGN_DSLAM_xDSL_ports_per_*	48	-	48	48
Fibre ports per MSAN line card	*NGN_DSLAM_fibre_ports_per_c*	48	-	48	48
Splitter ports per MSAN line card	*NGN_DSLAM_splitter_ports_per*	48	-	48	48
Line cards per shelf	*NGN_DSLAM_linecards_per_she*	16	-	16	16
Shelves per rack	*NGN_DSLAM_shelves_per_rack*	3	-	3	3
Provision shelves on expectation o	*NGN_DSLAM_ports_per_line_fo*	3	3	3	3
Overall ports capacity excl. utilisation			-	2,304	2,304
IN/VAS					
Units per n subs	*VAS_cap_parameter*	1,000,000	1,000,000	1,000,000	1,000,000
Wholesale billing system					
Capacity, in CDRs per day	*WBS_cap_parameter*	12,000,000	12,000,000	12,000,000	12,000,000

Cost inputs (2009 NOK)

			Spare_1	CONF_TN	PUBLIC_TN
Accommodation: civils	**Scaling factor**		100%	100%	100%
Access Node site rental	*AN.site.input.cost*	15,000	15,000	15,000	15,000
Distribution Node site rental	*DN.site.input.cost*	300,000	300,000	300,000	300,000
Core Node site rental	*CN.site.input.cost*	1,050,000	1,050,000	1,050,000	1,050,000

			Spare_1	CONF_TN	PUBLIC_TN
Accommodation: power systems	**Scaling factor**		100%	100%	100%
Access Node A/C unit	*AN.ac.input.cost*	80,000	80,000.00	80,000.00	80,000.00
Access Node Power supply	*AN.power.input.cost*	210,000	210,000.00	210,000.00	210,000.00

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Distribution Node A/C unit	*DN.ac.input.cost*	1,600,000	1,600,000.00	1,600,000.00	1,600,000.00
Distribution Node Power supply	*DN.power.input.cost*	4,200,000	4,200,000.00	4,200,000.00	4,200,000.00
Core Node A/C unit	*CN.ac.input.cost*	5,600,000	5,600,000.00	5,600,000.00	5,600,000.00
Core Node Power supply	*CN.power.input.cost*	14,700,000	14,700,000.00	14,700,000.00	14,700,000.00

			Spare_1	CONF_TN	PUBLIC_TN
Network management system	**Scaling factor**		100%	100%	100%
Network management system	*NMS.input.cost*	150,000,000	150,000,000	150,000,000	150,000,000
			Spare_1	CONF_TN	PUBLIC_TN
Clock and synchronisation equipme	**Scaling factor**		100%	100%	100%
Clock and synchronisation equipment	*Clock.input.cost*	3,500,000	3,500,000	3,500,000	3,500,000
			Spare_1	CONF_TN	PUBLIC_TN
Overheads	**Scaling factor**	TRUE	100%	100%	100%
Business Overheads (Capex)	*BO.capex.input.cost*	90,000,000	90,000,000	90,000,000	90,000,000
Business Overheads (Opex)	*BO.opex.input.cost*	225,000,000	225,000,000	225,000,000	225,000,000
Alternative overheads input:					
Business Overheads (% EPMU)			0%	0%	0%
			Spare_1	CONF_TN	PUBLIC_TN
Billing	**Scaling factor**		100%	100%	100%
Billing system	*WBS.input.cost*	20,000,000	20,000,000	20,000,000	20,000,000
			Spare_1	CONF_TN	PUBLIC_TN
VAS	**Scaling factor**		100%	100%	100%
VAS, IN platforms	*VAS.input.cost*	55,000,000	55,000,000	55,000,000	55,000,000
			Spare_1	CONF_TN	PUBLIC_TN
NGN call servers	**Scaling factor**		100%	100%	100%
NGN Call Server processor (softswitch)	*NGN.CS.processor.input.cost*	2,700,000	2,700,000	2,700,000	2,700,000
NGN Call Server software	*NGN.CS.software.input.cost*	-	-	-	-
			Spare_1	CONF_TN	PUBLIC_TN
MSAN	**Scaling factor**		100%	100%	100%
NGN MSAN processor/rack	*NGN.MSAN.input.cost*	225,000	225,000	225,000	225,000
Decommissioning of PSTN assets	Note: requires cost inputs	FALSE	Spare_1	CONF_TN	PUBLIC_TN
Decommissioning of RSX	*PSTN.decom.RSX*	-	-	-	-
Decommissioning of LS	*PSTN.decom.LS*	-	-	-	-
Decommissioning of MGW	*PSTN.decom.MGW*	-	-	-	-
Decommissioning of CS	*PSTN.decom.CS*	-	-	-	-

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Terminal adapter for Pure VoIP case

CPE: terminal adaptor (Pure VoIP operator) *NGN.ATA.input.cost*

	Spare_1	CONF_TN	PUBLIC_TN
-	-	-	-

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and coverage inputs

1991	1992	1993	1994	1995

2009	2009	2009

PURE_VoIP	PURE_unbundler	PURE_own_access
-	-	-
-	456	239
-	264	173
-	128	84
-	9	2
-	**857**	**498**

PURE_VoIP	PURE_unbundler	PURE_own_access
-	80	80

PURE_VoIP	PURE_unbundler	PURE_own_access
2	13	13

PURE_VoIP	PURE_unbundler	PURE_own_access
2	4	4
-%	-%	-%

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PURE_VoIP	PURE_unbundler	PURE_own_access
SBCs at all DR	SBCs at all DR	SBCs at all DR

PURE_VoIP	PURE_unbundler	PURE_own_access
none	Ethernet leased lines	leased dark fibre

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rk fibre Standard connection cost
-
30,000
30,000
30,000
30,000
30,000

AN.unbundler.average.dark.fibre.connection.cost

30,000

AN.unbundler.Eth.LL.cost.reference.index

	4Mbit/s	10Mbit/s
Reference cost	4	10
-	-	-
33,375	7,420	11,670
33,375	7,420	11,670
29,775	6,564	10,770
27,075	5,922	10,095
32,771	**7,276**	**11,519**

AN.unbundler.average.Eth.LL.monthly.cost

33,375	7,420	11,670

-	-
0.22	0.35
0.22	0.35
0.22	0.36
0.22	0.37

rk fibre Standard connection cost
-
30,000
30,000
30,000
30,000
30,000

AN.fibre.average.dark.fibre.connection.cost

AN.fibre.Eth.LL.cost.reference.index

	4Mbit/s	10Mbit/s
Reference cost	4	10
-	-	-
34,275	7,572	11,666
33,825	7,500	11,570
33,375	7,420	11,670
34,725	7,644	11,762
33,969		

AN.fibre.average.Eth.LL.monthly.cost

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-	-
0.22	0.34
0.22	0.34
0.22	0.35
0.22	0.34

PURE_VoIP	PURE_unbundler	PURE_own_access
-	32,771	33,969

PURE_VoIP	PURE_unbundler	PURE_own_access
-	50,000	50,000

PURE_VoIP	PURE_unbundler	PURE_own_access
-	42,522	46,071

PURE_VoIP	PURE_unbundler	PURE_own_access
-	30,000	30,000

PURE_VoIP	PURE_unbundler	PURE_own_access
none	Ethernet leased lines	leased dark fibre

rk fibre Standard connection cost
30,000
30,000
30,000

AN.ER.DR.average.dark.fibre.connection.cost

	4Mbit/s	10Mbit/s
Reference cost	4	10
26,175	5,708	9,870
43,725	9,084	13,682
42,257	**8,518**	**13,847**

AN.ER.DR.average.Eth.LL.monthly.cost

AN.ER.DR.Eth.LL.cost.reference.index

0.20	0.33

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PURE_VoIP	PURE_unbundler	PURE_own_access
-	42,257	42,257

PURE_VoIP	PURE_unbundler	PURE_own_access
-	50,000	50,000

PURE_VoIP	PURE_unbundler	PURE_own_access
-	118,123	118,123

PURE_VoIP	PURE_unbundler	PURE_own_access
-	30,000	30,000

PURE_VoIP	PURE_unbundler	PURE_own_access
none	leased dark fibre	leased dark fibre

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nnection

PURE_VoIP	PURE_unbundler	PURE_own_access
leased dark fibre	leased dark fibre	leased dark fibre

PURE_VoIP	PURE_unbundler	PURE_own_access
20.00	5,000.00	5,000.00

PURE_VoIP	PURE_unbundler	PURE_own_access
-	-	-

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on

PURE_VoIP	PURE_unbundler	PURE_own_access
95	95	95

PURE_VoIP	PURE_unbundler	PURE_own_access
250	250	250

12.0%	12.0%	12.0%
0.17	0.17	0.17
0.40	0.40	0.40
85%	85%	85%
75%	75%	75%
85%	85%	85%

note: this sets all outbound traffic to national

0	10	10
0	10	10
0	0	0

5.00	5.00	5.00
4.00	4.00	4.00
2.50	2.50	2.50
5.00	5.00	5.00
4.00	4.00	4.00
4.00	4.00	4.00
4.00	4.00	4.00
4.00	4.00	4.00
4.00	4.00	4.00
4.00	4.00	4.00
4.00	4.00	4.00
30.00	30.00	30.00
4.00	4.00	4.00

1.10	1.10	1.10
1.10	1.10	1.10
1.10	1.10	1.10
1.10	1.10	1.10
1.10	1.10	1.10

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1.10	1.10	1.10
1.10	1.10	1.10
1.10	1.10	1.10
1.10	1.10	1.10
1.10	1.10	1.10
1.10	1.10	1.10
1.10	1.10	1.10
1.10	1.10	1.10

nand" worksheet

1	1	1
1	1	1
1	1	1
1	1	1

PURE_VoIP	PURE_unbundler	PURE_own_access
no migration from ss7 to sip	no migration from ss7 to	no migration from ss7 to sip

0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%

mobile operators
mobile operators
mobile operators

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PURE_VoIP	PURE_unbundler	PURE_own_access
-	-	-

PURE_VoIP	PURE_unbundler	PURE_own_access
2	2	2
50,000	50,000	50,000

PURE_VoIP	PURE_unbundler	PURE_own_access
-	1	1

PURE_VoIP	PURE_unbundler	PURE_own_access
-	48	48
-	18	18
-	1	1
-	1	1
-	864	864

PURE_VoIP	PURE_unbundler	PURE_own_access
-	48	48
-	48	48
-	48	48
-	48	48
-	16	16
-	3	3
-	1	1
-	2,304	2,304

PURE_VoIP	PURE_unbundler	PURE_own_access
100,000	100,000	100,000

PURE_VoIP	PURE_unbundler	PURE_own_access
500,000	500,000	500,000

PURE_VoIP	PURE_unbundler	PURE_own_access
25%	50%	50%
-	7,500	7,500
-	150,000	150,000
262,500	525,000	525,000

PURE_VoIP	PURE_unbundler	PURE_own_access
25%	50%	50%
-	40,000	40,000
-	105,000	105,000

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-	800,000	800,000
-	2,100,000	2,100,000
1,400,000	2,800,000	2,800,000
3,675,000	7,350,000	7,350,000

PURE_VoIP	PURE_unbundler	PURE_own_access
3%	25%	25%
5,000,000	37,500,000	37,500,000

PURE_VoIP	PURE_unbundler	PURE_own_access
5%	25%	25%
116,667	875,000	875,000

PURE_VoIP	PURE_unbundler	PURE_own_access	
0%	0%	0%	*BO.proportion.per.operator*
0	0	0	
0	0	0	

10%	10%	10%	*BO.EPMU.per.operator*

PURE_VoIP	PURE_unbundler	PURE_own_access		
5%	5%	5%	cost uplift	20%
1,000,000	1,000,000	1,000,000		

PURE_VoIP	PURE_unbundler	PURE_own_access		
12%	12%	12%	cost uplift	20%
6,600,000	6,600,000	6,600,000		

PURE_VoIP	PURE_unbundler	PURE_own_access		
30%	30%	30%	cost uplift	20%
810,000	810,000	810,000		
0	0	0		

PURE_VoIP	PURE_unbundler	PURE_own_access		
0%	40%	40%	cost uplift	20%
-	90,000	90,000		

PURE_VoIP	PURE_unbundler	PURE_own_access

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PURE_VoIP	PURE_unbundler	PURE_own_access
60	-	-

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1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006

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Total price per Ethernet Leased Line Connection in NOK per month									
20Mbit/s	50Mbit/s	100Mbit/s	150Mbit/s	300Mbit/s	450Mbit/s	600Mbit/s	1000Mbit/s		4Mbit/s
20	50	100	150	300	450	600	1000	Reference cost	4
-	-	-	-	-	-	-	-	-	-
13,450	15,510	18,900	22,250	33,375	42,275	50,063	55,625	50,000	20,000
13,450	15,510	18,900	22,250	33,375	42,275	50,063	55,625	50,000	20,000
12,494	14,442	17,164	19,850	29,775	37,715	44,663	49,625	50,000	20,000
11,777	13,641	15,862	18,050	27,075	34,295	40,613	45,125	50,000	20,000
13,290	**15,331**	**18,609**	**21,847**	**32,771**	**41,510**	**49,157**	**54,619**	**50,000**	
								AN.unbundler.average.Eth.LL.co	
13,450	15,510	18,900	22,250	33,375	42,275	50,063	55,625		

-	-	-	-	-	-	-	-	-
0.40	0.46	0.57	0.67	1.00	1.27	1.50	1.67	0.40
0.40	0.46	0.57	0.67	1.00	1.27	1.50	1.67	0.40
0.42	0.49	0.58	0.67	1.00	1.27	1.50	1.67	0.40
0.43	0.50	0.59	0.67	1.00	1.27	1.50	1.67	0.40

AN.unbundler.Eth.LL.cost.equivalents.monthly

Total price per Ethernet Leased Line Connection in NOK per month									
20Mbit/s	50Mbit/s	100Mbit/s	150Mbit/s	300Mbit/s	450Mbit/s	600Mbit/s	1000Mbit/s		4Mbit/s
20	50	100	150	300	450	600	1000	Reference cost	4
-	-	-	-	-	-	-	-	-	-
13,651	15,706	19,288	22,850	34,275	43,415	51,413	57,125	50,000	20,000
13,554	15,608	19,089	22,550	33,825	42,845	50,738	56,375	50,000	20,000
13,450	15,510	18,900	22,250	33,375	42,275	50,063	55,625	50,000	20,000
13,748	15,804	19,487	23,150	34,725	43,985	52,088	57,875	50,000	20,000
								50,000	
								AN.fibre.average.Eth.LL.connec	

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-	-	-	-	-	-	-	-		-
0.40	0.46	0.56	0.67	1.00	1.27	1.50	1.67		0.40
0.40	0.46	0.56	0.67	1.00	1.27	1.50	1.67		0.40
0.40	0.46	0.57	0.67	1.00	1.27	1.50	1.67		0.40
0.40	0.46	0.56	0.67	1.00	1.27	1.50	1.67		0.40

AN.fibre.Eth.LL.cost.equivalents.monthly

Total price per Ethernet Leased Line Connection in NOK per month									
20Mbit/s	**50Mbit/s**	**100Mbit/s**	**150Mbit/s**	**300Mbit/s**	**450Mbit/s**	**600Mbit/s**	**1000Mbit/s**		**4Mbit/s**
20	50	100	150	300	450	600	1000	Reference cost	4
11,538	13,374	15,428	17,450	26,175	33,155	39,263	43,625	50,000	20,000
15,688	17,764	23,467	29,150	43,725	55,385	65,588	72,875	50,000	20,000
15,735	**17,707**	**22,949**	**28,172**	**42,257**	**53,526**	**63,387**	**70,429**	**50,000**	**20,000**

AN.ER.DR.average.Eth.LL.conn

0.37	0.42	0.54	0.67	1.00	1.27	1.50	1.67	*AN.ER.DR.Eth.LL.cost.equivale*	0.40

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0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017

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Standard connection cost for a Ethernet Leased Line								
10Mbit/s	20Mbit/s	50Mbit/s	100Mbit/s	150Mbit/s	300Mbit/s	450Mbit/s	600Mbit/s	1000Mbit/s
10	20	50	100	150	300	450	600	1000
-	-	-	-	-	-	-	-	-
25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000

onnection.cost

-	-	-	-	-	-	-	-	-
0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

AN.unbundler.Eth.LL.cost.equiv

Standard connection cost for a Ethernet Leased Line								
10Mbit/s	20Mbit/s	50Mbit/s	100Mbit/s	150Mbit/s	300Mbit/s	450Mbit/s	600Mbit/s	1000Mbit/s
10	20	50	100	150	300	450	600	1000
-	-	-	-	-	-	-	-	-
25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000

tion.cost

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-	-	-	-	-	-	-	-	-
0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

AN.fibre.Eth.LL.cost.equivalents

Standard connection cost for a Ethernet Leased Line								
10Mbit/s	**20Mbit/s**	**50Mbit/s**	**100Mbit/s**	**150Mbit/s**	**300Mbit/s**	**450Mbit/s**	**600Mbit/s**	**1000Mbit/s**
10	20	50	100	150	300	450	600	1000
25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
25,000	**50,000**	**50,000**	**50,000**	**50,000**	**50,000**	**50,000**	**50,000**	**50,000**

nection.cost

0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	*AN.ER.DR.Eth.LL.cost.equivale*

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0%	0%	0%	0%	0%	0%	0%	0%	5%	32%	44%
0%	0%	0%	0%	0%	0%	0%	0%	5%	32%	44%
0%	0%	0%	0%	0%	0%	0%	0%	5%	32%	44%
0%	0%	0%	0%	0%	0%	0%	0%	5%	32%	44%
0%	0%	0%	0%	0%	0%	0%	0%	5%	32%	44%
0%	0%	0%	0%	0%	0%	0%	0%	5%	32%	44%
0%	0%	0%	0%	0%	0%	0%	0%	5%	32%	44%

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2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028

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Approximate annual cost for calculation of threshold										
4Mbit/s	10Mbit/s	20Mbit/s	50Mbit/s	100Mbit/s	150Mbit/s	300Mbit/s	450Mbit/s	600Mbit/s	1000Mbit/s	Dark fibre
4	10	20	50	100	150	300	450	600	1000	
-	-	-	-	-	-	-	-	-	-	-
93,040	145,040	171,400	196,120	236,800	277,000	410,500	517,300	610,756	677,500	525,200.00
93,040	145,040	171,400	196,120	236,800	277,000	410,500	517,300	610,756	677,500	525,200.00
82,768	134,240	159,928	183,304	215,968	248,200	367,300	462,580	545,956	605,500	449,600.00
75,064	126,140	151,324	173,692	200,344	226,600	334,900	421,540	497,356	551,500	368,600.00

alents.connection

Approximate annual cost for calculation of threshold										
4Mbit/s	10Mbit/s	20Mbit/s	50Mbit/s	100Mbit/s	150Mbit/s	300Mbit/s	450Mbit/s	600Mbit/s	1000Mbit/s	Dark fibre
4	10	20	50	100	150	300	450	600	1000	
-	-	-	-	-	-	-	-	-	-	-
94,864	144,992	173,812	198,472	241,456	284,200	421,300	530,980	626,956	695,500	563,000.00
94,000	143,840	172,648	197,296	239,068	280,600	415,900	524,140	618,856	686,500	557,600.00
93,040	145,040	171,400	196,120	236,800	277,000	410,500	517,300	610,756	677,500	525,200.00
95,728	146,144	174,976	199,648	243,844	287,800	426,700	537,820	635,056	704,500	590,000.00

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.connection

Approximate annual cost for calculation of threshold										
4Mbit/s	**10Mbit/s**	**20Mbit/s**	**50Mbit/s**	**100Mbit/s**	**150Mbit/s**	**300Mbit/s**	**450Mbit/s**	**600Mbit/s**	**1000Mbit/s**	**Dark fibre**
4	10	20	50	100	150	300	450	600	1000	
72,496	123,440	148,456	170,488	195,136	219,400	324,100	407,860	481,156	533,500	357,800.00
524,700	119,008	168,184	193,256	223,168	291,604	359,800	534,700	674,620	797,056	1,022,000.00
114,075	**169,977**	**198,130**	**221,785**	**284,298**	**346,978**	**513,729**	**649,625**	**768,287**	**853,469**	**1,419,470**

nts.connection

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64%	73%	78%	82%	87%	91%	96%	100%	100%	100%	100%
64%	73%	78%	82%	87%	91%	96%	100%	100%	100%	100%
64%	73%	78%	82%	87%	91%	96%	100%	100%	100%	100%
64%	73%	78%	82%	87%	91%	96%	100%	100%	100%	100%
64%	73%	78%	82%	87%	91%	96%	100%	100%	100%	100%
64%	73%	78%	82%	87%	91%	96%	100%	100%	100%	100%
64%	73%	78%	82%	87%	91%	96%	100%	100%	100%	100%

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2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039

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100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

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2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050

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100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
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ss7.sip.migration.parameters

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Network

		Value
Network deployment profiles		**Start year**
overall PSTN network	*PSTN_start*	1992
fibre network	*fibre_start*	2001
current network	*current_start*	1992
NGN network	*NGN_start*	2013
Business overheads	*BO_start*	1991

Deployment of current network

		Start year
RSX deployment profile	*RSX_start*	1992
LS deployment profile		1992
MGW deployment profile	*MGW_CS_Start*	2003
CS deployment profile		2003
ATM deployment profile		2003
Leased line deployment profile		1992
PDH/ SDH deployment profile		1992
		2003
Proportion of RSX replaced in the network due to failure		0.10%

Deployment of IP nodes	**Start year**
Penetration of DSLAMs in exchanges	2000
Penetration of layer 3 edge routers in transmission hubs	2000
Penetration of layer 3 distribution routers in DN	2000
Penetration of layer 3 core routers in CN	2000

Deployment of linear IPTV

Linear IPTV deployment profiles

- Access Node (< 500 buildings)
- Access Node (< 1000 buildings)
- Access Node (< 2000 buildings)
- Access Node (< 5000 buildings)
- Access Node (< 15000 buildings)
- Total

Migration to NGN

Deployment options

MSAN
NGN DSLAM

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	NGN.deployment.optic
Deployment chosen by geotype	
Access Node (< 500 buildings)	NGN DSLAM
Access Node (< 1000 buildings)	NGN DSLAM
Access Node (< 2000 buildings)	NGN DSLAM
Access Node (< 5000 buildings)	NGN DSLAM
Access Node (< 15000 buildings)	NGN DSLAM
	NGN.deployment.by.g

Inputs related to MSAN deployment

MSAN deployement type	Centralised MSANs
note: distributed MSANs are only used in a scenario to test the impact of	Centralised MSANs
	Distributed MSANs
Distributed MSANs per existing Access Node	6
Number of connected lines	1,706,023
Terrestrial fibre cable that moves into core per line (km)	0.010
Terrestrial trench that moves into core per line (km)	0.006
Terrestrial fibre cable that moves into core	17,060
	10,236

MSAN deployment profiles	**Start year**
	MSAN.deployment.sta
Access Node (< 500 buildings)	2012
Access Node (< 1000 buildings)	2012
Access Node (< 2000 buildings)	2012
Access Node (< 5000 buildings)	2011
Access Node (< 15000 buildings)	2011
Total	

Inputs related to NGN DSLAM deployment

Proportion of RSX without a DSLAM that are upgraded to a NGN DSLAM in the NGN

Access Node (< 500 buildings)
Access Node (< 1000 buildings)
Access Node (< 2000 buildings)
Access Node (< 5000 buildings)
Access Node (< 15000 buildings)

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NGN DSLAM deployment (as proportion of RSX)

Access Node (< 500 buildings)	3091	2014
Access Node (< 1000 buildings)	456	2013
Access Node (< 2000 buildings)	264	2013
Access Node (< 5000 buildings)	128	2013
Access Node (< 15000 buildings)	9	2013
		2013
Access Node (< 500 buildings)		*NGN_network_start*
Access Node (< 1000 buildings)		
Access Node (< 2000 buildings)		
Access Node (< 5000 buildings)		
Access Node (< 15000 buildings)		

xDSL enabled nodes as a proportion of total

Access Node (< 500 buildings)
Access Node (< 1000 buildings)
Access Node (< 2000 buildings)
Access Node (< 5000 buildings)
Access Node (< 15000 buildings)

NGN DSLAM deployment (as proportion of DSLAMs)

Access Node (< 500 buildings)
Access Node (< 1000 buildings)
Access Node (< 2000 buildings)
Access Node (< 5000 buildings)
Access Node (< 15000 buildings)

Access Node (< 500 buildings)
Access Node (< 1000 buildings)
Access Node (< 2000 buildings)
Access Node (< 5000 buildings)
Access Node (< 15000 buildings)

	Delay before shutdown (years)
RSX retirement profile for the NGN DSLAM deployment	
Access Node (< 500 buildings)	1
Access Node (< 1000 buildings)	1
Access Node (< 2000 buildings)	1
Access Node (< 5000 buildings)	1
Access Node (< 15000 buildings)	1
DSLAM retirement profile for the NGN DSLAM deployment	
Access Node (< 500 buildings)	1
Access Node (< 1000 buildings)	1
Access Node (< 2000 buildings)	1
Access Node (< 5000 buildings)	1

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Access Node (< 15000 buildings)		1
RSX retirement profile		
Access Node (< 500 buildings)		2016
Access Node (< 1000 buildings)		2014
Access Node (< 2000 buildings)		2014
Access Node (< 5000 buildings)		2014
Access Node (< 15000 buildings)		2014
		2016
DSLAM retirement profile		*TDM_network_shutdo*
Access Node (< 500 buildings)		
Access Node (< 1000 buildings)		
Access Node (< 2000 buildings)		
Access Node (< 5000 buildings)		
Access Node (< 15000 buildings)		
Connections and traffic migration profiles		
PSTN/ISDN fixed voice connections migration profile		
Voice traffic migration profile		
xDSL lines migration profile		
Data traffic migration profile		
Deployment of SBC nodes	*SBC_deployment_scen*	**Start year**
Penetration of SBCs in distribution routers nodes	SBCs where DR co-loca	2013
SBCs where DR co-located with CR		
SBCs at all DR		
SBCs at all MGW		

Throughput traffic rates and various conversion factors

Bandwidth occupied per voice call	95
Bandwidth provisioned per dial-up BHE	64

Loading inputs

Traffic profiles

Annual busy days	250
Voice traffic profile	
Voice busy hour daily percentage	12.0%
Average answered call set-up time (minutes)	0.17
Average unanswered call duration (minutes)	0.40
Voice weekday proportion - national calls	85%
Voice weekday proportion - international calls	75%
Voice weekday proportion - fixed to mobile calls	85%
Average call durations	

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On-net calls (retail)	5.00
Outgoing calls to international (retail)	4.00
Outgoing calls to mobile (retail)	2.50
Outgoing calls to other fixed operators (retail)	5.00
Outgoing calls to non-geographic numbers (retail)	4.00
Local incoming calls (wholesale)	4.00
Tandem incoming calls (wholesale)	4.00
Local outgoing calls (wholesale)	4.00
Tandem outgoing calls (wholesale)	4.00
Local transit calls (wholesale)	4.00
Tandem transit calls (wholesale)	4.00
Dial-up Internet traffic (retail)	30.00
spare voice	4.00
	loading_call_durations

Call attempts per successful call

On-net calls (retail)	1.10
Outgoing calls to international (retail)	1.10
Outgoing calls to mobile (retail)	1.10
Outgoing calls to other fixed operators (retail)	1.10
Outgoing calls to non-geographic numbers (retail)	1.10
Local incoming calls (wholesale)	1.10
Tandem incoming calls (wholesale)	1.10
Local outgoing calls (wholesale)	1.10
Tandem outgoing calls (wholesale)	1.10
Local transit calls (wholesale)	1.10
Tandem transit calls (wholesale)	1.10
Dial-up Internet traffic (retail)	1.10
spare voice	1.10
	*loading_call_attempt_*

Data contention ratio

Data services (sublocal VPN, contended)	1
Data services (local VPN, contended)	1
Data services (regional VPN, contended)	1
Data services (national VPN, contended)	1

Technical parameters

Monte Carlo distribution factor	0.5

TDM network elements

RSX

PSTN ports per RSX line card	48

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ISDN2 ports per RSX line card	24
IDSN30 ports per RSX line card	16
RSX ports utilisation factor	95%
Line cards per shelf	18
RSX line cards utilisation factor	90%
Shelves per rack	3
RSX shelves utilisation factor	100%

LS

Switchblock capacity	1,500
Processor capacity	800,000
Switchblock utilisation	80%
Processor utilisation	80%
Minimum number of LS per distribution node	1

TDM CS

Processor capacity	1,000,000
Processor utilisation	90%
Minimum number of CS in the network	4

MGW

Switchblock capacity	50,000
Switchblock utilisation	80%
Minimum of MGW per core node for ATM switching and LS connectivity	1

IGW

Processor capacity	800,000
Switchblock capacity	50,000
Processor utilisation	80%
Switchblock utilisation	80%
Minimum number of CS in the network	2

Core ports

Core E1 capacity	30
Core E1 utilisation	65%
Network blocking probability	0.10%
Erlang table column	1

Number of circuit groups per network element

RSX-LS	1
LS-MGW	4

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MGW-MGW	
MGW meshing	Telenor
Number of MGW on each mesh	12
Number of meshes	4
Number of MGW circuit groups per mesh	132
Total number of MGW circuit groups	528
MGW sites to MGW sites	
Number of MGW sites on each physical ring	12
Number of MGW physical rings	2
Number of MGW sites logical path per ring	66
Total number of MGW sites logical path	132
MGW-national interconnection	
Number of national PoI	2
Number of regional PoI	12
Number of operators per national PoI	20
Number of operators per regional PoI	10
Number of circuit groups per operators connected to a PoI	4
Number of MGW-national interconnection circuit groups	640
MGW-international interconnection	
Number of national PoI	2
Number of operators per national PoI	20
Number of circuit groups per operators connected to a PoI	2
Number of MGW-national interconnection circuit groups	80

IP network elements

DSLAM

ADSL ports per DSLAM line card	48
SDSL ports per DSLAM line card	24
DSLAM ports utilisation factor	95%
Line cards per shelf	18
DSLAM line cards utilisation factor	90%
Shelves per rack	3
DSLAM shelves utilisation factor	100%
DSLAM backhaul provisioned (nxGE)	1

Layer 2 aggregation/metro switches

Used as aggregation/metro switches in Access Nodes

1GE (electrical) ports per layer 2 switch line card	48
10GE (optical) ports per layer 2 switch line card	12
Layer 2 switch ports utilisation factor	40%
Line cards per layer 2 chassis	6
Trigger for access layer 2 switch deployment	2

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Layer 3 edge routers

Used as aggregation/metro routers in Access Nodes

1GE ports per layer 3 edge router line card	4
10GE ports per layer 3 edge router line card	2
Layer 3 edge router ports utilisation factor	40%
Line cards per layer 3 edge router	12
Minimum deployment of distribution router facing ports per edge router	2

Layer 3 distribution routers

Used as distribution routers in Distribution Nodes

1GE or 10GE ports per layer 3 distribution router line card	2
Layer 3 distribution router ports utilisation factor	50%
Line cards per layer 3 distribution router	12
Minimum deployment of core router facing ports per distribution router	2

Layer 2 LAN switches

Used as LAN switches in Core Nodes

1GE (electrical) ports per layer 2 switch line card	48
10GE (electrical) ports per layer 2 switch line card	12
40GE (electrical) ports per layer 2 switch line card	12
DSLAM ports utilisation factor	40%
Line cards per layer 2 chassis	6
Number of services-facing switches location	2

Layer 3 core routers

Used as core routers in Core Nodes

1GE or 10GE ports per layer 3 core router line card	4
Layer 3 core router ports utilisation factor	40%
Line cards per layer 3 core router	8

BRAS

Capacity of BRAS in terms of concurrent subscribers	48,000
BRAS utilisation factor	40%
% users online at the same time	0%
	50%

RADIUS

Capacity of BRAS in terms of concurrent subscribers	350,000
BRAS utilisation factor	40%
% users online at the same time	50%

DNS

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Number of DNS per core IP node	2

Clock

Number of clocks per core node	1

NGN network elements

MSANs

PSTN/xDSL/splitter ports per MSAN line card	48
MSAN ports utilisation factor	95%
Line cards per shelf	18
MSAN line cards utilisation factor	90%
Shelves per rack	3
Provision shelves on expectation of 3 ports per line	3
MSAN shelves utilisation factor	100%
MSAN backhaul provisioned (nxGE)	1

NGN DSLAMs

PSTN ports per NGN DSLAM line card	48
xDSL ports per NGN DSLAM line card	48
Fibre ports per NGN DSLAM line card	48
Splitter ports per NGN DSLAM line card	48
NGN DSLAM ports utilisation factor	95%
Line cards per shelf	16
NGN DSLAM line cards utilisation factor	90%
Shelves per rack	3
Provision shelves on expectation of 3 ports per line	3
NGN DSLAM shelves utilisation factor	100%
NGN DSLAM backhaul provisioned (nxGE)	1

PE routers

PE router utilisation factor	40%
Line cards per chassis	5.00
1GE ports per card	4

IMS core and NGN CS

Processor capacity	200,000
Processor utilisation	90%
Minimum number of CS in the network	2
Software utilisation	100%
SW upgrades (subscriber capacity)	1
SW cost per subscriber	50.00
SW upgrade capex	50
SW upgrades (traffic capacity)	1

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SW cost per BHCA		7.5
		8
Residential MTAS capacity (subscribers)		25,000
Business MTAS capacity (subscribers)		25,000
Residential MTAS utilisation		100%
Business MTAS utilisation		100%

SBCs

Used as access-facing SBCs in Distribution Nodes and as interconnection-facing SBCs in Core Nodes

1GE ports per SBC linecard		2
Line cards per SBC chassis		2
SBC ports utilisation factor		40%
D-SBC licence utilisation		100%
Capacity per D-SBC SW licence		10.00
Capex per D-SBC SW licence per Mbps		1,200.00
		12,000.00
I-SBC licence utilisation		100%
Capacity per I-SBC SW licence		10.00
Capex per I-SBC SW licence per Mbps		1,200.00
		12,000.00

Layer 3 IP peering routers

Used as peering routers in Core Nodes

1GE ports per layer 3 edge router line card		4
100FE ports per layer 3 edge router line card		10
10FE ports per layer 3 edge router line card		10
Layer 3 peering router ports utilisation factor		40%
Line cards per layer 3 peering router		12
Capacity interco port		10Mbps

Trunk Gateway

1GE ports facing SBC per gateway		1
E1 ports per Gateway		63

NGN interconnection protocol

Share of SIP interconnect	1	no migration from ss7
no migration from ss7 to sip		
migration from ss7 to sip		
Number of circuit groups for ss7 interconnection		
Number of national PoI		
Number of operators per national PoI		20
Number of MGW-national interconnection circuit groups		

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Transmission network elements

Transmission parameters for IP backhaul

Display order	Ethernet transmission level	Line rate (Mbps)

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3	40Gbps	40,000
2	10Gbps	10,000
1	1Gbps	1,000
Ethernet.Transmission.display.order	*transmission_level_ethe*	*transmission_line_rate*

Display order	Ethernet transmission level	Line rate (Mbps)
3	40Gbps	40,000
2	10Gbps	10,000
Ethernet.Transmission.display.order.two_faster	*transmission_level_ethe*	*transmission_line_rate*

Transmission parameters for IP interconnect

Display order	Ethernet transmission level	Line rate (Mbps)
3	1Gbps	1,000
2	100Mbps	100
1	10Mbps	10
Ethernet.Transmission.interco.display.order	*transmission_level_ethe*	*transmission_line_rate*

Transmission parameters for SDH backhaul

Display order	PDH/SDH transmission level	Line Rate (kbps)
7	STM-64	9,953,280
6	STM-16	2,488,320
5	STM-4	622,080
4	STM-1	155,520
3	STM-0	51,840
2	E3	34,368
1	E1	2,048
Transmission.display.order	*Transmission.level*	*transmission.line.rate*
		2.048

Access rings and trees topology *E1_line_rate_cap*

Wireless transmission antennae per link	2

Table 1	**Remote access nodes connected to layer 3**	
	L3R locations broken down by access node types	**Number of L3R locations with 0 remote AN**
		ER.nodes.no.remote
	ER-equipped Access N	20.00

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ER-equipped Access N	22.00
ER-equipped Access N	30.00
ER-equipped Access N	45.00
ER-equipped Access N	4.00
Source: Analysys Mason o	**121**

Table 2 **Number of AN…**

Access node types	... connected to access trees
Access Node (< 500 bu	2,910.00
Access Node (< 1000 b	368.00
Access Node (< 2000 b	101.00
Access Node (< 5000 b	11.00
Access Node (< 15000	-

Source: Analysys Mason o *AN_access_trees*

Table 3 **Share of copper lines served by AN…**

Access node types	... connected to access trees
Access Node (< 500 bu	91%
Access Node (< 1000 b	75%
Access Node (< 2000 b	31%
Access Node (< 5000 b	6%
Access Node (< 15000	0%

Source: Analysys Mason o *lines_access_trees_p*

Table 4 **Share of fibre locations served by AN…**

Access node types	... connected to access trees
Access Node (< 500 bu	85%
Access Node (< 1000 b	62%
Access Node (< 2000 b	25%
Access Node (< 5000 b	3%
Access Node (< 15000	0%

Source: Analysys Mason o *fibre_access_trees_p*

Table 5 **Share of business locations served by AN..**

Access node types	... connected to access trees

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Access Node (< 500 bu	91%
Access Node (< 1000 b	76%
Access Node (< 2000 b	35%
Access Node (< 5000 b	5%
Access Node (< 15000	0%

Source: Analysys Mason o *busloc_access_trees_*

Table 6

Access trees topology

This table contains statistics on the trees used

Access node types	Fibre road distance (km)
	Terrestrial fibre-based tre
Access Node (< 500 bu	21,586
Access Node (< 1000 b	2,198
Access Node (< 2000 b	687
Access Node (< 5000 b	57
Access Node (< 15000	0
Total	**24,528**

Source: Analysys Mason o *access_trees_terrestr*

Table 7

Access rings topology

This table describes the rings used to connect

Access ring Identifier	Share of copper lines served
access_rings	*access_rings_lines_p*
1	1.1%
-	
Total	**100%**

Distribution rings topology

Table 8

Share of…		**… connected to distribution rings**
copper lines served by DN…	*lines_distribution_rings_*	97%
fibre locations served by DN…	*fibre_distribution_rings_*	95%
business locations served by DN…	*busloc_distribution_ring*	97%

Table 9

Distribution rings topology

This table describes the rings used to connect

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Distribution ring Identifier	Share of copper lines served
distribution_rings	*distribution_rings_line*
AL1	4.0%
OS5	7.2%
Total	**100%**

Core rings topology

This table describes the rings used to connect Core Nodes between each other

Table 10 **Core rings topology**

Core rings	Number of links
Core rings	59
	core_rings_number_o

Table 11 **Core rings count path**

Route number	Logical paths count
1	11
55	-
	362
	core_rings_paths_cou

ATM

Core E1 utilisation	100%
ATM links utilisation	50%
Minimum STM4 capacity on ATM links	1

Other network elements

NMS

Number of NMS per type of network element	1

Clock and synchronisation equipment

Number of clock and synchronisation equipment per core IP node	2

IN/VAS

Minimum number of IN/VAS units	2
Units per n subs	1,000,000
Utilisation IN/VAS	80%

Wholesale billing system

Minimum number of units	2
Capacity, in CDRs per day	12,000,000

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Utilisation WBS	95%

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design inputs

Named range	Note/source	Units	Base case Start year	Base case End year	1991	1992	1993	1994	1995
End year									
2051	*PSTN_end*		1992	2051	-	1	1	1	1
2051	*fibre_end*		2001	2051	-	-	-	-	-
2015	*current_end*		1992	2015	-	1	1	1	1
2051	*NGN_end*		2013	2051	-	-	-	-	-
2051					1	1	1	1	1

End year		Base case Start year	Base case End year					
2015	*RSX_end*	1992	2015	-	1	1	1	1
2015		1992	2015	-	1	1	1	1
2015	*MGW_CS_End*	2003	2015	-	-	-	-	-
2015		2003	2015	-	-	-	-	-
2015		2003	2015	-	-	-	-	-
2020		1992	2020	-	1	1	1	1
2020	*PDH.SDH.network.shutdown*	1992	2020	-	1	1	1	1
2051				-	-	-	-	-

RSX_annual_replacement

End year	End value		Base case Start year	Base case End year	Base case End value					
2010	85%	start at begin of	2000	2010	85%	0%	0%	0%	0%	0%
2018	100%	start at begin of	2000	2018	100%	0%	0%	0%	0%	0%
2012	49%	start at begin of	2000	2012	49%	0%	0%	0%	0%	0%
2010	23%	start at begin of	2000	2010	23%	0%	0%	0%	0%	0%

End value							
0%	assumed to be deployed at the same time of migration to NGN	-%	-%	-%	-%	-%
100%	assumed to be deployed at the same time of migration to NGN	-%	-%	-%	-%	-%
100%	assumed to be deployed at the same time of migration to NGN	-%	-%	-%	-%	-%
100%	assumed to be deployed at the same time of migration to NGN	-%	-%	-%	-%	-%
100%	assumed to be deployed at the same time of migration to NGN	-%	-%	-%	-%	-%

label.MSAN
label.NGNDSLAM

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ons

Capable of delivering PSTN and broadband
Capable of delivering PSTN and broadband
Capable of delivering PSTN and broadband
Capable of delivering PSTN and broadband
eotype

MSAN_deployment_type

MSAN_deployment_type.distributed
MSAN_deployment_type_choices

distributed.MSA Analysys Mason geoanalysis

Analysys Masor #

Analysys Mason estimate
Analysys Mason estimate
distributed.MSAN.additional.terrestrial.cable
distributed.MSAN.additional.terrestrial.trench

End year	Exchanges migrated per year						
MSAN.deployment.end							
2015	773	-	-%	-%	-%	-%	-%
2015	114	-	-%	-%	-%	-%	-%
2015	66	-	-%	-%	-%	-%	-%
2011	128	-	-%	-%	-%	-%	-%
2011	9	-	-%	-%	-%	-%	-%

90%
100%
100%
100%
100%

prop.RSX.no.DSLAM.replaced.NGNDSLAM

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97%	-%	-%	-%	-%	-%
100%	-%	-%	-%	-%	-%
100%	-%	-%	-%	-%	-%
100%	-%	-%	-%	-%	-%
100%	-%	-%	-%	-%	-%
	-%	-%	-%	-%	-%
	-%	-%	-%	-%	-%

	100%	100%	100%	100%	100%
	100%	100%	100%	100%	100%
	100%	100%	100%	100%	100%
	100%	100%	100%	100%	100%
	100%	100%	100%	100%	100%
	100%	100%	100%	100%	100%
wn					
	100%	100%	100%	100%	100%
	100%	100%	100%	100%	100%
	100%	100%	100%	100%	100%
	100%	100%	100%	100%	100%
	100%	100%	100%	100%	100%
	-%	-%	-%	-%	-%
	-%	-%	-%	-%	-%
	-%	-%	-%	-%	-%
	-%	-%	-%	-%	-%
	-%	-%	-%	-%	-%

End year	End value
2015	8%
	8%
	100%
	33%

*parameter_size_*	Industry standa	kbps
*parameter_dial_*	Industry standa	kbps
weekdays	Industry standa	#
loading_voice_l	Analysys Maso	%
answered.call.s	Analysys Maso	#
unanswered.cal	Analysys Maso	#
loading_voice_v	Analysys Maso	%
loading_voice_v	Analysys Maso	%
loading_voice_v	Analysys Maso	%

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ratio

IPVPN_contention

Monte.Carlo.factor

RSX_PSTN_po Analysys Mason #

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RSX_ISDN2_p	Analysys Mason	#
*RSX_ISDN30_*	Analysys Mason	#
RSX_ports_utili	Analysys Mason	%
*RSX_linecards_*	Analysys Mason	#
*RSX_linecards_*	Analysys Mason	%
*RSX_shelves_*	Analysys Mason	#
*RSX_shelves_*	Analysys Mason	%
LS_switchblock	Analysys Mason	BHE
*LS_processor_*	Analysys Mason	BHCA
LS_switchblock	Analysys Mason	%
*LS_processor_*	Analysys Mason	%
LS_minimum_p	Analysys Mason	#
TDM_CS_proce	Analysys Mason	BHCA
TDM_CS_proce	Analysys Mason	%
TDM_CS_minin	Analysys Mason	#
MGW_switchbl	Analysys Mason	BHE
MGW_switchbl	Analysys Mason	%
MGW_minimum	Analysys Mason	#
IGW_processor	Analysys Mason	BHCA
IGW_switchbloc	Analysys Mason	BHE
IGW_processor	Analysys Mason	%
IGW_switchbloc	Analysys Mason	%
IGW_minimum	Analysys Mason	#
Core_E1_cap	Industry standard	
Utilisation_core	Analysys Mason estimate	
core_network_b	Analysys Mason estimate	
core_network_Erlang_column		
*circuit_groups_*	based on operator data	
*circuit_groups_*	based on operator data	

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MGW_meshing		
	based on operator data	
	based on operator data	
MGW_circuit_groups_Telenor		
	based on operator data	
	based on operator data	
MGW_logical_paths_Telenor		
	based on operator data	
	based on operator data	
	based on operator data	
	based on operator data	
	based on operator data	
MGW_circuit_groups_national_interco		
	based on operator data	
	Analysys Mason estimate	
	for resiliency	
MGW_circuit_groups_international_interco		
*DSLAM_ADSL_*	Industry standa	#
*DSLAM_SDSL_*	Industry standa	#
DSLAM_ports_utilisation		%
DSLAM_linecar	Industry standa	#
DSLAM_linecards_utilisation		%
DSLAM_shelve	Industry standa	#
DSLAM_shelves_utilisation		%
DSLAM_backha	Model assumpti	#
Aggregation_sw	Industry standa	#
Aggregation_sw	Industry standa	#
Aggregation_switch_ports_utilis		%
Aggregation_sw	Industry standa	#
Aggregation_sw	Industry standa	#

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Edge_router_1(	Industry standa	#
Edge_router_10GE_ports_per_card		
Edge_router_port_utilisation		%
Edge_router_lin	Industry standa	#
Edge_router_min_distribution_facing_ports		

Distribution_rou	Industry standa	#
Distribution_router_port_utilisati		%
Distribution_rou	Industry standa	#
Distribution_router_min_core_facing_ports		

LAN_switch_1C	Industry standa	#
LAN_switch_10	Industry standa	#
LAN_switch_40GigE_ports_per_card		
LAN_switch_ports_utilisation		%
LAN_switch_lin	Industry standa	#
LAN_services_facing_switch_locations		

Core_router_po	Industry standa	#
Core_router_port_utilisation		%
Core_router_lin	Industry standa	#

BRAS_concurrent_subscriber_per_unit	
BRAS_concurrent_subscriber_utilisation	
BRAS_DSL_us	Set to zero as it is assumed that the BRAS functionality is in the L3 Edge router

RADIUS_concurrent_subscriber_per_unit
RADIUS_concurrent_subscriber_utilisation
RADIUS_DSL_users_concurrent_online

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DNS_minimum		#
Clock_minimum		#
*MSAN_PSTN_*	Industry standa	#
MSAN_ports_utilisation		%
MSAN_linecard	Industry standa	#
MSAN_linecards_utilisation		%
MSAN_shelves	Industry standa	#
MSAN_ports_p	Industry standa	#
MSAN_shelves_utilisation		%
MSAN_backhau	Model assumpti	#
*NGN_DSLAM_*	Industry standa	#
*NGN_DSLAM_*	Industry standa	#
*NGN_DSLAM_*	Industry standa	#
*NGN_DSLAM_*	Industry standa	#
NGN_DSLAM_ports_utilisation		%
*NGN_DSLAM_*	Industry standa	#
NGN_DSLAM_linecards_utilisat		%
*NGN_DSLAM_*	Industry standa	#
*NGN_DSLAM_*	Industry standa	#
NGN_DSLAM_shelves_utilisatic		%
*NGN_DSLAM_*	Model assumpti	#
PE.router.utilisation		
PE.router.linecards.per.chassis		
PE.router.1GigE.ports.per.card		
NGN_CS_proce	Analysys Mason	BHCA
NGN_CS_proce	Analysys Mason	%
NGN_CS_minir	Analysys Mason	#
IMS_CS_SW_u	Analysys Mason	%
IMS_CS_SW_s	Analysys Mason	#
	Analysys Mason	2009 NOK
IMS_CS_SW_sub_capex		2009 NOK
IMS_CS_SW_tr	Analysys Mason	BHCA

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	Analysys Masor	2009 NOK				
IMS_CS_SW_traffic_capex		2009 NOK				
IMS_MTAS_ca	Analysys Masor	#				
IMS_MTAS_ca	Analysys Masor	#				
MTAS_Res_util	Analysys Masor	%				
MTAS_Bus_util	Analysys Masor	%				
SBC_ports_per	Industry standa	#				
*SBC_linecards_*	Industry standa	#				
SBC_port_utilisation		%				
DSBC_SW_utilisation		%				
DSBC_SW_capacity_Mbps		Mbit/s				
		2009 NOK				
DSBC_SW_capex_cost		2009 NOK				
ISBC_SW_utilisation		%				
ISBC_SW_capacity_Mbps		Mbit/s				
		2009 NOK				
ISBC_SW_capex_cost		2009 NOK				
*Peering_router_*	Industry standard					
*Peering_router_*	Industry standard					
*Peering_router_*	Industry standard					
Peering_router_port_utilisation						
*Peering_router_*	Industry standard					
Peering_router_interco_port_choice						
TGW_gateway_1GE_ports		#				
TGW_E1_capa	Based on a STI	#				
NGN_interconnect_migration_s		%	-%	-%	-%	-%	-%
			-%	-%	-%	-%	-%
			-%	-%	-%	-%	-%
			13	13	13	13	13
			260	260	260	260	260

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Payload bandwidth (Mbps)	Cost threshold

Max Mbps capacity

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40,000	160	Estimated assuming cost increases logarithmically	6,400,000
10,000	100	Industry standard	1,000,000
1,000	2.5	Industry standard	2,000
transmission_pa	*transmission_threshold_ethernet_two_alternatives*		*transmission.threshold.Ethernet*

Payload bandwidth (Mbps)	Cost threshold		Max Mbps capacity
40,000	160	Estimated assuming cost increases logarithmically	6,400,000
10,000	100	Industry standard	1,000,000
transmission_pa	*transmission_threshold_ethernet_two_faster_alternatives*		*transmission.threshold.Ethernet.*

port.1Gbps.name

_ethernet_interco

Payload bandwidth (kbps)	Cost threshold			E1 VC capacity	Max E1 VC capacity	Max E1 VC capacity
9,621,504	100	Industry standard		4,032	403,200	403,200
2,405,376	2.5	Industry standard		1,008	2,016	2,016
601,344	2.5	Industry standard	*transmission.STM4.capacity.E1.CV*	252	504	504
150,336	2.5	Industry standard	*transmission.STM1.capacity.E1.CV*	63	126	126
48,960	2.5	Industry standard		21	42	42
32,320	2.5	Industry standard		14	28	0
1,920	2.5	Industry standard	*transmission.STM64.capacity.E1.CV*	1	2	0
transmission.pa	*cost.threshold*			*transmission.S*	*transmission.thr*	*transmission.thr*

access_trees_wireless_antennas_per_link

router locations via access trees

Number of L3R locations with at least 1 remote AN	Number of remote ANs served by L3R locations
ER.nodes.at.lea	*ER.nodes.number.of.remotes*
161.00	481.00

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66.00	637.00
133.00	1,384.00
72.00	861.00
5.00	27.00
437	**3,390**

... connected to access rings	... collocated with parent DN		Total
174.00	7.00	0	3,091
72.00	16.00	0	456
109.00	54.00	0	264
42.00	75.00	0	128
-	9.00	0	9

AN_access_rin AN_DN_coloc

... connected to access rings	... collocated with parent DN	
9%	1%	0
19%	6%	0
41%	28%	0
24%	69%	0
0%	100%	0

lines_access_ri lines_DN_coloc_prop

... connected to access rings	... collocated with parent DN	
8%	7%	0
18%	19%	0
30%	46%	0
18%	79%	0
0%	100%	0

fibre_access_ri fibre_DN_coloc_prop

.

... connected to access rings	... collocated with parent DN

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7%	2%	0
15%	10%	0
33%	32%	0
21%	74%	0
0%	100%	0
busloc_access_	busloc_DN_coloc_prop	

to connect Access Nodes to Access Transmission Hubs

Submarine cable distance (km)	Number of wireless links	Requires a tower	Number of fibre regenerators	Number of wireless regenerators	Incremental road trench distance
Submarine fibre transmission-based trees			Assumes one reg	Assumes one reg	Assumes 0km bu
1,234					
56					
21					
4					
0					
1,315	546	984	2	4	20,802
access_trees_submarine_fibre_length_total	access_trees_wireless_links_total	access_trees_wireless_towers_	access_trees_r	access_trees_w	20,802

Access Nodes and Access Transmission Hubs to Distribution Nodes

Share of fibre locations served	Share of businesses served	Fibre road distance (km)	Crow-flies wireless distance (km)	Submarine cable distance (km)	Number of fibre regenerators	Number of nodes on the ring	Incremental road trench distance
access_rings_fi	access_rings_busloc_prop	Terrestrial fibre-based ring	Wireless transmis	Submarine fibre t	Assumes one reg	access_rings_li	Assumes 0km bu
0.1%	1.2%	33		0	0	6	
	100%	**6,929.71**	**-**	**65.14**	**8.00**	**475.00**	3,546
		access_rings_terrestrial_fibre_length_total		access_rings_s	access_rings_regenerators_tota		3,546

... collocated with parent CN		
3%	lines_CN_coloc_prop	100%
5%	fibre_CN_coloc_prop	100%
3%	busloc_CN_coloc_prop	100%

Distribution Nodes and Core Nodes

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Share of fibre locations served	Share of businesses served
distribution_ring	*distribution_rings_busloc_prop*
4.0%	5.7%
5.2%	5.3%
100%	**100%**

Fibre road distance (km)
Terrestrial fibre-based ring
800
236
10,372
distribution_rings_terrestrial_fibre_length_total

Crow-flies wireless distance (km)	Submarine cable distance (km)	Number of fibre regenerators	Number of nodes on the ring	Incremental road trench distance
Wireless transmis	Submarine fibre t	Assumes one reg	*distribution_ring*	Assumes 0km bu
	87	2	17	
	0	0	18	
-	**577**	**54**	**303**	4,639
	distribution_ring	*distribution_rings_regenerators*		4,639

Fibre road distance (km)
Terrestrial fibre-based ring
11,786
core_rings_terrestrial_fibre_length_total

Crow-flies wireless distance (km)	Submarine cable distance (km)	Number of fibre regenerators	Number of nodes on the ring	Incremental road trench distance
Wireless transmis	Submarine fibre t	Assumes one regenerator required		Assumes 0km bu
	605	131	26	778
	core_rings_sub	*core_rings_reg*	*core_rings_line*	778

f_links

Signalling link	Route distance
-	640
1	8
Signalling_link	10,150

nt

Utilisation_ATM	Analysys Mason estimate
ATM_links_utilis	Analysys Mason #
ATM_link_minimum	#
NMS_per_NE_type	#
Clock_unit	#
VAS_min	#
VAS_cap	#
utilisation_VAS	%
WBS_min	#
WBS_cap	#

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utilisation_WBS	%

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1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	1	1	1	1
0%	0%	0%	0%	8%	15%	23%	31%	39%	46%	54%
0%	0%	0%	0%	5%	11%	16%	21%	26%	32%	37%
0%	0%	0%	0%	4%	8%	11%	15%	19%	23%	26%
0%	0%	0%	0%	2%	4%	6%	8%	10%	13%	15%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
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-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	8%	17%	26%	35%
-%	-%	-%	-%	-%	33%	93%	100%	100%	100%	100%
-%	-%	-%	-%	52%	100%	100%	100%	100%	100%	100%
-%	-%	-%	-%	100%	100%	100%	100%	100%	100%	100%
-%	-%	-%	-%	100%	100%	100%	100%	100%	100%	100%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
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Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	
Assumes 1km bu	Assumes 2km bu	Assumes 3km bu	Assumes 4km bu	Assumes 5km bu	Assumes 6km buffer	
15,017	10,089	6,271	3,689	2,219	1,482	
17,909	15,446	13,536	12,245	11,510	11,142	*access_trees_terrestrial_trench_length_total*

Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	
Assumes 1km bu	Assumes 2km bu	Assumes 3km bu	Assumes 4km bu	Assumes 5km bu	Assumes 6km buffer	
2,464	1,652	1,075	685	427	268	
3,005	2,599	2,310	2,115	1,987	1,907	*access_rings_terrestrial_trench_length_total*

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Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	
Assumes 1km bu	Assumes 2km bu	Assumes 3km bu	Assumes 4km bu	Assumes 5km bu	Assumes 6km buffer	
3,534	2,516	1,783	1,259	920	671	
4,086	3,577	3,211	2,949	2,780	2,655	*distribution_rings_terrestrial_trench_length_total*

Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	Incremental road trench distance	
Assumes 1km bu	Assumes 2km bu	Assumes 3km bu	Assumes 4km bu	Assumes 5km bu	Assumes 6km buffer	
650	484	352	243	171	127	
714	631	565	510	474	452	*core_rings_terrestrial_trench_length_total*

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2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
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-	-	-	-	-	-	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	-	-
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62%	70%	77%	85%	85%	85%	85%	85%	85%	85%	85%
42%	47%	53%	58%	63%	68%	74%	79%	84%	89%	95%
30%	34%	38%	42%	45%	49%	49%	49%	49%	49%	49%
17%	19%	21%	23%	23%	23%	23%	23%	23%	23%	23%
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2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
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64%	73%	78%	82%	87%	91%	96%	100%	100%	100%	100%
2	2	2	2	2	2	2	2	2	2	2
40	40	40	40	40	40	40	40	40	40	40

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2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
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1	1	1	1	1	1	1	1	1	1	1
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1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
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1	1	1	1	1	1	1	1	1	1	1
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2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
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23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
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	S-curve parameters				
	Mean	standard	Year A	Value A	Saturation
PSTN_deployment_profile					
fibre_deployment_profile					
current_deployment_profile					
NGN_deployment_profile					
BO_deployment_profile					
RSX_deployment_profile					
LS_deployment_profile					
MGW_deployment_profile					
CS_deployment_profile					
ATM_deployment_profile					
LL_deployment_profile					
PDH.SDH_deployment_profile					
CN_deployment_profile					
AN.DSLAM.deployment.profile					
AN.ER.deployment.profile					
DN.DR.deployment.profile					
CN.CR.deployment.profile					
linear_IPTV_deployment_profile					

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MSAN_deployment_profile

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NGN_DSLAM_deployment_profile

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RSX_retirement_profile

DSLAM_retirement_profile

PSTN_ISDN_line_migration
Voice_migration_profile
xDSL_line_migration
Data_migration_profile

DN.DR.DSBC.deployment.profile

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NGN_interconnect_migration

NGN_PoIs_national_interco

NGN_circuit_groups_national_interco

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Erlang table

Offered traffic in erlangs

Number of channels	Blocking probability				
	0.10%	1.00%	2.00%	3.00%	5.00%
0.00	0.00	0.00	0.00	0.00	0.00
0.10	0.00	0.00	0.00	0.00	0.01
0.20	0.00	0.00	0.00	0.01	0.01
0.30	0.00	0.00	0.01	0.01	0.02
0.40	0.00	0.00	0.01	0.01	0.02
0.50	0.00	0.01	0.01	0.02	0.03
0.60	0.00	0.01	0.01	0.02	0.03
0.70	0.00	0.01	0.01	0.02	0.04
0.80	0.00	0.01	0.02	0.02	0.04
0.90	0.00	0.01	0.02	0.03	0.05
1.00	0.00	0.01	0.02	0.03	0.05
1.10	0.01	0.02	0.04	0.06	0.09
1.20	0.01	0.04	0.06	0.08	0.12
1.30	0.01	0.05	0.08	0.11	0.15
1.40	0.02	0.07	0.10	0.13	0.18
1.50	0.02	0.08	0.12	0.16	0.22
1.60	0.03	0.10	0.14	0.18	0.25
1.70	0.03	0.11	0.16	0.21	0.28
1.80	0.04	0.12	0.18	0.23	0.32
1.90	0.04	0.14	0.20	0.26	0.35
2.00	0.05	0.15	0.22	0.28	0.38
2.10	0.06	0.18	0.26	0.32	0.43
2.20	0.08	0.21	0.30	0.37	0.48
2.30	0.09	0.24	0.34	0.41	0.54
2.40	0.11	0.27	0.37	0.46	0.59
2.50	0.12	0.30	0.41	0.50	0.64
2.60	0.13	0.33	0.45	0.54	0.69
2.70	0.15	0.36	0.49	0.59	0.74
2.80	0.16	0.39	0.53	0.63	0.80
2.90	0.18	0.43	0.56	0.67	0.85
3.00	0.19	0.46	0.60	0.72	0.90
3.10	0.22	0.50	0.65	0.77	0.96
3.20	0.24	0.54	0.70	0.82	1.02
3.30	0.27	0.58	0.75	0.88	1.09
3.40	0.29	0.62	0.80	0.93	1.15
3.50	0.32	0.66	0.85	0.99	1.21
3.60	0.34	0.70	0.90	1.04	1.27
3.70	0.37	0.75	0.95	1.10	1.34

Erlang.Table.Header

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3.80	0.39	0.79	0.99	1.15	1.40
3.90	0.41	0.83	1.04	1.20	1.46
4.00	0.44	0.87	1.09	1.26	1.52
4.10	0.47	0.92	1.15	1.32	1.59
4.20	0.50	0.97	1.21	1.38	1.66
4.30	0.54	1.02	1.26	1.44	1.73
4.40	0.57	1.07	1.32	1.51	1.80
4.50	0.60	1.12	1.37	1.57	1.87
4.60	0.63	1.16	1.43	1.63	1.94
4.70	0.67	1.21	1.49	1.69	2.01
4.80	0.70	1.26	1.54	1.75	2.08
4.90	0.73	1.31	1.60	1.81	2.15
5.00	0.76	1.36	1.66	1.88	2.22
5.10	0.80	1.42	1.72	1.94	2.29
5.20	0.84	1.47	1.78	2.01	2.37
5.30	0.88	1.53	1.84	2.08	2.44
5.40	0.92	1.58	1.90	2.14	2.52
5.50	0.95	1.63	1.97	2.21	2.59
5.60	0.99	1.69	2.03	2.28	2.66
5.70	1.03	1.74	2.09	2.34	2.74
5.80	1.07	1.80	2.15	2.41	2.81
5.90	1.11	1.85	2.21	2.48	2.89
6.00	1.15	1.91	2.28	2.54	2.96
6.10	1.19	1.97	2.34	2.61	3.04
6.20	1.23	2.03	2.41	2.68	3.12
6.30	1.28	2.09	2.47	2.76	3.19
6.40	1.32	2.15	2.54	2.83	3.27
6.50	1.36	2.20	2.61	2.90	3.35
6.60	1.41	2.26	2.67	2.97	3.43
6.70	1.45	2.32	2.74	3.04	3.50
6.80	1.49	2.38	2.80	3.11	3.58
6.90	1.54	2.44	2.87	3.18	3.66
7.00	1.58	2.50	2.94	3.25	3.74
7.10	1.63	2.56	3.00	3.32	3.82
7.20	1.67	2.63	3.07	3.40	3.90
7.30	1.72	2.69	3.14	3.47	3.98
7.40	1.77	2.75	3.21	3.54	4.06
7.50	1.81	2.81	3.28	3.62	4.14
7.60	1.86	2.88	3.35	3.69	4.22
7.70	1.91	2.94	3.42	3.77	4.30
7.80	1.96	3.00	3.49	3.84	4.38
7.90	2.00	3.06	3.56	3.91	4.46
8.00	2.05	3.13	3.63	3.99	4.54
8.10	2.10	3.19	3.70	4.06	4.63
8.20	2.15	3.26	3.77	4.14	4.71
8.30	2.20	3.32	3.84	4.21	4.79

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8.40	2.25	3.39	3.91	4.29	4.87
8.50	2.30	3.46	3.99	4.37	4.96
8.60	2.36	3.52	4.06	4.44	5.04
8.70	2.41	3.59	4.13	4.52	5.12
8.80	2.46	3.65	4.20	4.60	5.20
8.90	2.51	3.72	4.27	4.67	5.29
9.00	2.56	3.78	4.34	4.75	5.37
9.10	2.61	3.85	4.42	4.83	5.45
9.20	2.66	3.92	4.49	4.90	5.54
9.30	2.72	3.99	4.57	4.98	5.62
9.40	2.77	4.05	4.64	5.06	5.71
9.50	2.82	4.12	4.71	5.14	5.79
9.60	2.88	4.19	4.79	5.22	5.88
9.70	2.93	4.26	4.86	5.29	5.96
9.80	2.99	4.33	4.94	5.37	6.05
9.90	3.04	4.39	5.01	5.45	6.13
10.00	3.09	4.46	5.08	5.53	6.22
10.10	3.15	4.53	5.16	5.61	6.30
10.20	3.20	4.60	5.24	5.69	6.39
10.30	3.26	4.67	5.31	5.77	6.47
10.40	3.32	4.74	5.39	5.85	6.56
10.50	3.37	4.81	5.46	5.93	6.65
10.60	3.43	4.88	5.54	6.01	6.73
10.70	3.48	4.95	5.61	6.09	6.82
10.80	3.54	5.02	5.69	6.17	6.90
10.90	3.60	5.09	5.77	6.25	6.99
11.00	3.65	5.16	5.84	6.33	7.08
11.10	3.71	5.23	5.92	6.41	7.16
11.20	3.77	5.30	6.00	6.49	7.25
11.30	3.83	5.37	6.07	6.57	7.34
11.40	3.88	5.45	6.15	6.65	7.43
11.50	3.94	5.52	6.23	6.73	7.51
11.60	4.00	5.59	6.31	6.82	7.60
11.70	4.06	5.66	6.38	6.90	7.69
11.80	4.12	5.73	6.46	6.98	7.78
11.90	4.17	5.80	6.54	7.06	7.86
12.00	4.23	5.88	6.61	7.14	7.95
12.10	4.29	5.95	6.69	7.22	8.04
12.20	4.35	6.02	6.77	7.31	8.13
12.30	4.41	6.10	6.85	7.39	8.22
12.40	4.47	6.17	6.93	7.47	8.30
12.50	4.53	6.24	7.01	7.55	8.39
12.60	4.59	6.31	7.09	7.64	8.48
12.70	4.65	6.39	7.17	7.72	8.57
12.80	4.71	6.46	7.24	7.80	8.66
12.90	4.77	6.53	7.32	7.88	8.75

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13.00	4.83	6.61	7.40	7.97	8.83
13.10	4.89	6.68	7.48	8.05	8.92
13.20	4.95	6.76	7.56	8.13	9.01
13.30	5.02	6.83	7.64	8.22	9.10
13.40	5.08	6.91	7.72	8.30	9.19
13.50	5.14	6.98	7.80	8.39	9.28
13.60	5.20	7.05	7.88	8.47	9.37
13.70	5.26	7.13	7.96	8.55	9.46
13.80	5.32	7.20	8.04	8.64	9.55
13.90	5.38	7.28	8.12	8.72	9.64
14.00	5.45	7.35	8.20	8.80	9.73
14.10	5.51	7.43	8.28	8.89	9.82
14.20	5.57	7.50	8.36	8.97	9.91
14.30	5.64	7.58	8.44	9.06	10.00
14.40	5.70	7.65	8.52	9.14	10.09
14.50	5.76	7.73	8.60	9.23	10.18
14.60	5.82	7.81	8.69	9.31	10.27
14.70	5.89	7.88	8.77	9.40	10.36
14.80	5.95	7.96	8.85	9.48	10.45
14.90	6.01	8.03	8.93	9.57	10.54
15.00	6.08	8.11	9.01	9.65	10.63
15.10	6.14	8.18	9.09	9.74	10.72
15.20	6.21	8.26	9.17	9.82	10.81
15.30	6.27	8.34	9.26	9.91	10.91
15.40	6.33	8.41	9.34	9.99	11.00
15.50	6.40	8.49	9.42	10.08	11.09
15.60	6.46	8.57	9.50	10.16	11.18
15.70	6.53	8.64	9.58	10.25	11.27
15.80	6.59	8.72	9.66	10.33	11.36
15.90	6.66	8.80	9.75	10.42	11.45
16.00	6.72	8.88	9.83	10.51	11.54
16.10	6.79	8.95	9.91	10.59	11.64
16.20	6.85	9.03	9.99	10.68	11.73
16.30	6.92	9.11	10.08	10.76	11.82
16.40	6.98	9.19	10.16	10.85	11.91
16.50	7.05	9.26	10.24	10.94	12.00
16.60	7.12	9.34	10.32	11.02	12.09
16.70	7.18	9.42	10.41	11.11	12.19
16.80	7.25	9.50	10.49	11.20	12.28
16.90	7.31	9.57	10.57	11.28	12.37
17.00	7.38	9.65	10.66	11.37	12.46
17.10	7.44	9.73	10.74	11.46	12.55
17.20	7.51	9.81	10.82	11.54	12.65
17.30	7.58	9.89	10.91	11.63	12.74
17.40	7.65	9.97	10.99	11.72	12.83
17.50	7.71	10.04	11.07	11.80	12.92

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17.60	7.78	10.12	11.16	11.89	13.02
17.70	7.85	10.20	11.24	11.98	13.11
17.80	7.91	10.28	11.32	12.06	13.20
17.90	7.98	10.36	11.41	12.15	13.29
18.00	8.05	10.44	11.49	12.24	13.39
18.10	8.11	10.52	11.58	12.33	13.48
18.20	8.18	10.60	11.66	12.41	13.57
18.30	8.25	10.67	11.74	12.50	13.66
18.40	8.32	10.75	11.83	12.59	13.76
18.50	8.38	10.83	11.91	12.68	13.85
18.60	8.45	10.91	12.00	12.76	13.94
18.70	8.52	10.99	12.08	12.85	14.04
18.80	8.59	11.07	12.16	12.94	14.13
18.90	8.66	11.15	12.25	13.03	14.22
19.00	8.72	11.23	12.33	13.12	14.31
19.10	8.79	11.31	12.42	13.20	14.41
19.20	8.86	11.39	12.50	13.29	14.50
19.30	8.93	11.47	12.59	13.38	14.60
19.40	9.00	11.55	12.67	13.47	14.69
19.50	9.07	11.63	12.76	13.56	14.78
19.60	9.14	11.71	12.84	13.64	14.88
19.70	9.21	11.79	12.93	13.73	14.97
19.80	9.27	11.87	13.01	13.82	15.06
19.90	9.34	11.95	13.10	13.91	15.16
20.00	9.41	12.03	13.18	14.00	15.25
20.10	9.48	12.11	13.27	14.09	15.34
20.20	9.55	12.19	13.35	14.17	15.44
20.30	9.62	12.27	13.44	14.26	15.53
20.40	9.69	12.35	13.52	14.35	15.62
20.50	9.76	12.43	13.61	14.44	15.72
20.60	9.83	12.51	13.69	14.53	15.81
20.70	9.90	12.60	13.78	14.62	15.91
20.80	9.97	12.68	13.87	14.71	16.00
20.90	10.04	12.76	13.95	14.80	16.09
21.00	10.11	12.84	14.04	14.89	16.19
21.10	10.18	12.92	14.12	14.97	16.28
21.20	10.25	13.00	14.21	15.06	16.38
21.30	10.32	13.08	14.29	15.15	16.47
21.40	10.39	13.16	14.38	15.24	16.57
21.50	10.46	13.24	14.47	15.33	16.66
21.60	10.53	13.33	14.55	15.42	16.75
21.70	10.60	13.41	14.64	15.51	16.85
21.80	10.67	13.49	14.72	15.60	16.94
21.90	10.74	13.57	14.81	15.69	17.04
22.00	10.81	13.65	14.90	15.78	17.13
22.10	10.88	13.73	14.98	15.87	17.23

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22.20	10.95	13.82	15.07	15.96	17.32
22.30	11.03	13.90	15.16	16.05	17.42
22.40	11.10	13.98	15.24	16.14	17.51
22.50	11.17	14.06	15.33	16.23	17.61
22.60	11.24	14.14	15.41	16.32	17.70
22.70	11.31	14.22	15.50	16.41	17.80
22.80	11.38	14.31	15.59	16.50	17.89
22.90	11.45	14.39	15.67	16.59	17.98
23.00	11.52	14.47	15.76	16.68	18.08
23.10	11.60	14.55	15.85	16.77	18.17
23.20	11.67	14.64	15.93	16.86	18.27
23.30	11.74	14.72	16.02	16.95	18.36
23.40	11.81	14.80	16.11	17.04	18.46
23.50	11.88	14.88	16.20	17.13	18.56
23.60	11.96	14.97	16.28	17.22	18.65
23.70	12.03	15.05	16.37	17.31	18.75
23.80	12.10	15.13	16.46	17.40	18.84
23.90	12.17	15.21	16.54	17.49	18.94
24.00	12.24	15.30	16.63	17.58	19.03
25.00	12.97	16.12	17.50	18.48	19.99
26.00	13.70	16.96	18.38	19.39	20.94
27.00	14.44	17.80	19.26	20.31	21.90
28.00	15.18	18.64	20.15	21.22	22.87
29.00	15.93	19.49	21.04	22.14	23.83
30.00	16.68	20.34	21.93	23.06	24.80
31.00	17.44	21.19	22.83	23.99	25.77
32.00	18.20	22.05	23.72	24.91	26.75
33.00	18.97	22.91	24.63	25.84	27.72
34.00	19.74	23.77	25.53	26.78	28.70
35.00	20.52	24.64	26.43	27.71	29.68
36.00	21.30	25.51	27.34	28.65	30.66
37.00	22.08	26.38	28.25	29.59	31.64
38.00	22.86	27.25	29.17	30.53	32.62
39.00	23.65	28.13	30.08	31.47	33.61
40.00	24.44	29.01	31.00	32.41	34.60
41.00	25.24	29.89	31.92	33.36	35.58
42.00	26.04	30.77	32.84	34.30	36.57
43.00	26.84	31.66	33.76	35.25	37.56
44.00	27.64	32.54	34.68	36.20	38.56
45.00	28.45	33.43	35.61	37.16	39.55
46.00	29.25	34.32	36.53	38.11	40.54
47.00	30.07	35.21	37.46	39.06	41.54
48.00	30.88	36.11	38.39	40.02	42.54
49.00	31.69	37.00	39.32	40.97	43.53
50.00	32.51	37.90	40.26	41.93	44.53
51.00	33.33	38.80	41.19	42.89	45.53

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52.00	34.15	39.70	42.12	43.85	46.53
53.00	34.98	40.60	43.06	44.81	47.53
54.00	35.80	41.50	44.00	45.78	48.54
55.00	36.63	42.41	44.94	46.74	49.54
56.00	37.46	43.31	45.88	47.70	50.54
57.00	38.29	44.22	46.82	48.67	51.55
58.00	39.12	45.13	47.76	49.63	52.55
59.00	39.96	46.04	48.70	50.60	53.56
60.00	40.80	46.95	49.64	51.57	54.57
61.00	41.63	47.86	50.59	52.54	55.57
62.00	42.47	48.77	51.53	53.51	56.58
63.00	43.31	49.69	52.48	54.48	57.59
64.00	44.16	50.60	53.43	55.45	58.60
65.00	45.00	51.52	54.38	56.42	59.61
66.00	45.84	52.44	55.33	57.39	60.62
67.00	46.69	53.35	56.28	58.37	61.63
68.00	47.54	54.27	57.23	59.34	62.64
69.00	48.39	55.19	58.18	60.32	63.65
70.00	49.24	56.11	59.13	61.29	64.67
71.00	50.09	57.03	60.08	62.27	65.68
72.00	50.94	57.96	61.04	63.24	66.69
73.00	51.80	58.88	61.99	64.22	67.71
74.00	52.65	59.80	62.94	65.20	68.72
75.00	53.51	60.73	63.90	66.18	69.74
76.00	54.37	61.65	64.86	67.16	70.75
77.00	55.23	62.58	65.81	68.14	71.77
78.00	56.09	63.51	66.77	69.12	72.79
79.00	56.95	64.43	67.73	70.10	73.80
80.00	57.81	65.36	68.69	71.08	74.82
81.00	58.67	66.29	69.65	72.06	75.84
82.00	59.54	67.22	70.61	73.04	76.86
83.00	60.40	68.15	71.57	74.02	77.87
84.00	61.27	69.08	72.53	75.01	78.89
85.00	62.14	70.02	73.49	75.99	79.91
86.00	63.00	70.95	74.45	76.97	80.93
87.00	63.87	71.88	75.42	77.96	81.95
88.00	64.74	72.82	76.38	78.94	82.97
89.00	65.61	73.75	77.34	79.93	83.99
90.00	66.48	74.68	78.31	80.91	85.01
91.00	67.36	75.62	79.27	81.90	86.04
92.00	68.23	76.56	80.24	82.89	87.06
93.00	69.10	77.49	81.20	83.87	88.08
94.00	69.98	78.43	82.17	84.86	89.10
95.00	70.85	79.37	83.13	85.85	90.12
96.00	71.73	80.31	84.10	86.84	91.15
97.00	72.61	81.24	85.07	87.83	92.17

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98.00	73.48	82.18	86.04	88.82	93.19
99.00	74.36	83.12	87.00	89.80	94.22
100.00	75.24	84.06	87.97	90.79	95.24
101.00	76.12	85.01	88.94	91.78	96.26
102.00	77.00	85.95	89.91	92.77	97.29
103.00	77.88	86.89	90.88	93.76	98.31
104.00	78.77	87.83	91.85	94.76	99.34
105.00	79.65	88.77	92.82	95.75	100.36
106.00	80.53	89.72	93.79	96.74	101.39
107.00	81.42	90.66	94.76	97.73	102.42
108.00	82.30	91.60	95.73	98.72	103.44
109.00	83.19	92.55	96.71	99.71	104.47
110.00	84.07	93.49	97.68	100.71	105.49
111.00	84.96	94.44	98.65	101.70	106.52
112.00	85.85	95.38	99.62	102.69	107.55
113.00	86.73	96.33	100.60	103.69	108.57
114.00	87.62	97.28	101.57	104.68	109.60
115.00	88.51	98.22	102.54	105.68	110.63
116.00	89.40	99.17	103.52	106.67	111.66
117.00	90.29	100.12	104.49	107.66	112.69
118.00	91.18	101.07	105.47	108.66	113.71
119.00	92.07	102.01	106.44	109.66	114.74
120.00	92.96	102.96	107.42	110.65	115.77
121.00	93.86	103.91	108.39	111.65	116.80
122.00	94.75	104.86	109.37	112.64	117.83
123.00	95.64	105.81	110.35	113.64	118.86
124.00	96.54	106.76	111.32	114.64	119.89
125.00	97.43	107.71	112.30	115.63	120.92
126.00	98.33	108.66	113.28	116.63	121.95
127.00	99.22	109.61	114.26	117.63	122.98
128.00	100.12	110.57	115.23	118.62	124.01
129.00	101.01	111.52	116.21	119.62	125.04
130.00	101.91	112.47	117.19	120.62	126.07
131.00	102.81	113.42	118.17	121.62	127.10
132.00	103.71	114.38	119.15	122.62	128.13
133.00	104.60	115.33	120.13	123.61	129.16
134.00	105.50	116.28	121.10	124.61	130.19
135.00	106.40	117.24	122.08	125.61	131.22
136.00	107.30	118.19	123.06	126.61	132.25
137.00	108.20	119.14	124.04	127.61	133.28
138.00	109.10	120.10	125.02	128.61	134.32
139.00	110.00	121.05	126.00	129.61	135.35
140.00	110.90	122.01	126.98	130.61	136.38
141.00	111.81	122.96	127.97	131.61	137.41
142.00	112.71	123.92	128.95	132.61	138.44
143.00	113.61	124.88	129.93	133.61	139.48

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144.00	114.51	125.83	130.91	134.61	140.51
145.00	115.42	126.79	131.89	135.61	141.54
146.00	116.32	127.75	132.87	136.61	142.57
147.00	117.23	128.70	133.86	137.61	143.61
148.00	118.13	129.66	134.84	138.61	144.64
149.00	119.04	130.62	135.82	139.62	145.67
150.00	119.94	131.58	136.80	140.62	146.71
151.00	120.85	132.53	137.79	141.62	147.74
152.00	121.75	133.49	138.77	142.62	148.77
153.00	122.66	134.45	139.75	143.62	149.81
154.00	123.57	135.41	140.74	144.63	150.84
155.00	124.47	136.37	141.72	145.63	151.87
156.00	125.38	137.33	142.70	146.63	152.91
157.00	126.29	138.29	143.69	147.63	153.94
158.00	127.20	139.25	144.67	148.64	154.98
159.00	128.11	140.21	145.66	149.64	156.01
160.00	129.01	141.17	146.64	150.64	157.05
161.00	129.92	142.13	147.63	151.65	158.08
162.00	130.83	143.09	148.61	152.65	159.12
163.00	131.74	144.05	149.60	153.66	160.15
164.00	132.65	145.01	150.58	154.66	161.18
165.00	133.56	145.97	151.57	155.66	162.22
166.00	134.48	146.93	152.55	156.67	163.26
167.00	135.39	147.89	153.54	157.67	164.29
168.00	136.30	148.86	154.52	158.68	165.33
169.00	137.21	149.82	155.51	159.68	166.36
170.00	138.12	150.78	156.50	160.69	167.40
171.00	139.04	151.74	157.48	161.69	168.43
172.00	139.95	152.71	158.47	162.70	169.47
173.00	140.86	153.67	159.46	163.70	170.50
174.00	141.77	154.63	160.44	164.71	171.54
175.00	142.69	155.60	161.43	165.71	172.58
176.00	143.60	156.56	162.42	166.72	173.61
177.00	144.52	157.52	163.41	167.72	174.65
178.00	145.43	158.49	164.39	168.73	175.69
179.00	146.35	159.45	165.38	169.73	176.72
180.00	147.26	160.42	166.37	170.74	177.76
181.00	148.18	161.38	167.36	171.75	178.79
182.00	149.09	162.34	168.35	172.75	179.83
183.00	150.01	163.31	169.34	173.76	180.87
184.00	150.93	164.27	170.32	174.77	181.91
185.00	151.84	165.24	171.31	175.77	182.94
186.00	152.76	166.21	172.30	176.78	183.98
187.00	153.68	167.17	173.29	177.79	185.02
188.00	154.59	168.14	174.28	178.79	186.05
189.00	155.51	169.10	175.27	179.80	187.09

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190.00	156.43	170.07	176.26	180.81	188.13
191.00	157.35	171.03	177.25	181.82	189.17
192.00	158.27	172.00	178.24	182.82	190.20
193.00	159.19	172.97	179.23	183.83	191.24
194.00	160.10	173.93	180.22	184.84	192.28
195.00	161.02	174.90	181.21	185.85	193.32
196.00	161.94	175.87	182.20	186.85	194.35
197.00	162.86	176.84	183.19	187.86	195.39
198.00	163.78	177.80	184.18	188.87	196.43
199.00	164.70	178.77	185.17	189.88	197.47
200.00	165.62	179.74	186.16	190.89	198.51
201.00	166.54	180.71	187.15	191.89	199.55
202.00	167.47	181.67	188.14	192.90	200.58
203.00	168.39	182.64	189.13	193.91	201.62
204.00	169.31	183.61	190.12	194.92	202.66
205.00	170.23	184.58	191.11	195.93	203.70
206.00	171.15	185.55	192.10	196.94	204.74
207.00	172.07	186.52	193.10	197.95	205.78
208.00	173.00	187.48	194.09	198.96	206.82
209.00	173.92	188.45	195.08	199.96	207.85
210.00	174.84	189.42	196.07	200.97	208.89
211.00	175.76	190.39	197.06	201.98	209.93
212.00	176.69	191.36	198.05	202.99	210.97
213.00	177.61	192.33	199.05	204.00	212.01
214.00	178.54	193.30	200.04	205.01	213.05
215.00	179.46	194.27	201.03	206.02	214.09
216.00	180.38	195.24	202.02	207.03	215.13
217.00	181.31	196.21	203.02	208.04	216.17
218.00	182.23	197.18	204.01	209.05	217.21
219.00	183.16	198.15	205.00	210.06	218.25
220.00	184.08	199.12	206.00	211.07	219.29
221.00	185.01	200.09	206.99	212.08	220.33
222.00	185.93	201.06	207.98	213.09	221.37
223.00	186.86	202.04	208.97	214.10	222.41
224.00	187.78	203.01	209.97	215.11	223.45
225.00	188.71	203.98	210.96	216.12	224.48
226.00	189.64	204.95	211.95	217.14	225.52
227.00	190.56	205.92	212.95	218.15	226.56
228.00	191.49	206.89	213.94	219.16	227.60
229.00	192.42	207.86	214.94	220.17	228.64
230.00	193.34	208.84	215.93	221.18	229.69
231.00	194.27	209.81	216.92	222.19	230.73
232.00	195.20	210.78	217.92	223.20	231.77
233.00	196.13	211.75	218.91	224.21	232.81
234.00	197.05	212.72	219.91	225.22	233.85
235.00	197.98	213.70	220.90	226.23	234.89

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236.00	198.91	214.67	221.90	227.25	235.93
237.00	199.84	215.64	222.89	228.26	236.97
238.00	200.77	216.61	223.88	229.27	238.01
239.00	201.70	217.59	224.88	230.28	239.05
240.00	202.62	218.56	225.87	231.29	240.09
241.00	203.55	219.53	226.87	232.30	241.13
242.00	204.48	220.51	227.86	233.32	242.17
243.00	205.41	221.48	228.86	234.33	243.21
244.00	206.34	222.45	229.85	235.34	244.25
245.00	207.27	223.43	230.85	236.35	245.29
246.00	208.20	224.40	231.84	237.37	246.34
247.00	209.13	225.37	232.84	238.38	247.38
248.00	210.06	226.35	233.84	239.39	248.42
249.00	210.99	227.32	234.83	240.40	249.46
250.00	211.92	228.30	235.83	241.41	250.50
251.00	212.85	229.27	236.82	242.43	251.54
252.00	213.78	230.25	237.82	243.44	252.58
253.00	214.72	231.22	238.81	244.45	253.62
254.00	215.65	232.19	239.81	245.47	254.66
255.00	216.58	233.17	240.81	246.48	255.71
256.00	217.51	234.14	241.80	247.49	256.75
257.00	218.44	235.12	242.80	248.50	257.79
258.00	219.37	236.09	243.80	249.52	258.83
259.00	220.31	237.07	244.79	250.53	259.87
260.00	221.24	238.04	245.79	251.54	260.92
261.00	222.17	239.02	246.78	252.56	261.96
262.00	223.10	239.99	247.78	253.57	263.00
263.00	224.04	240.97	248.78	254.58	264.04
264.00	224.97	241.95	249.77	255.60	265.08
265.00	225.90	242.92	250.77	256.61	266.12
266.00	226.83	243.90	251.77	257.62	267.17
267.00	227.77	244.87	252.77	258.64	268.21
268.00	228.70	245.85	253.76	259.65	269.25
269.00	229.64	246.82	254.76	260.66	270.29
270.00	230.57	247.80	255.76	261.68	271.33
271.00	231.50	248.78	256.76	262.69	272.38
272.00	232.44	249.75	257.75	263.70	273.42
273.00	233.37	250.73	258.75	264.72	274.46
274.00	234.31	251.71	259.75	265.73	275.50
275.00	235.24	252.68	260.74	266.75	276.54
276.00	236.18	253.66	261.74	267.76	277.59
277.00	237.11	254.64	262.74	268.78	278.63
278.00	238.04	255.61	263.74	269.79	279.67
279.00	238.98	256.59	264.74	270.80	280.71
280.00	239.92	257.57	265.73	271.82	281.76
281.00	240.85	258.54	266.73	272.83	282.80

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282.00	241.79	259.52	267.73	273.85	283.84
283.00	242.72	260.50	268.73	274.86	284.89
284.00	243.66	261.48	269.73	275.88	285.93
285.00	244.59	262.45	270.72	276.89	286.97
286.00	245.53	263.43	271.72	277.91	288.01
287.00	246.47	264.41	272.72	278.92	289.06
288.00	247.40	265.39	273.72	279.93	290.10
289.00	248.34	266.36	274.72	280.95	291.14
290.00	249.28	267.34	275.72	281.96	292.19
291.00	250.21	268.32	276.72	282.98	293.23
292.00	251.15	269.30	277.71	283.99	294.27
293.00	252.09	270.28	278.71	285.01	295.31
294.00	253.02	271.26	279.71	286.02	296.36
295.00	253.96	272.23	280.71	287.04	297.40
296.00	254.90	273.21	281.71	288.05	298.44
297.00	255.84	274.19	282.71	289.07	299.49
298.00	256.77	275.17	283.71	290.09	300.53
299.00	257.71	276.15	284.71	291.10	301.57
300.00	258.65	277.13	285.71	292.12	302.62
301.00	259.59	278.10	286.71	293.13	303.66
302.00	260.53	279.08	287.70	294.15	304.70
303.00	261.46	280.06	288.70	295.16	305.75
304.00	262.40	281.04	289.70	296.18	306.79
305.00	263.34	282.02	290.70	297.19	307.83
306.00	264.28	283.00	291.70	298.21	308.88
307.00	265.22	283.98	292.70	299.22	309.92
308.00	266.16	284.96	293.70	300.24	310.96
309.00	267.10	285.94	294.70	301.26	312.01
310.00	268.04	286.92	295.70	302.27	313.05
311.00	268.98	287.90	296.70	303.29	314.09
312.00	269.91	288.88	297.70	304.30	315.14
313.00	270.85	289.86	298.70	305.32	316.18
314.00	271.79	290.84	299.70	306.34	317.23
315.00	272.73	291.82	300.70	307.35	318.27
316.00	273.67	292.80	301.70	308.37	319.31
317.00	274.61	293.78	302.70	309.38	320.36
318.00	275.55	294.76	303.70	310.40	321.40
319.00	276.49	295.73	304.70	311.42	322.44
320.00	277.43	296.72	305.70	312.43	323.49
321.00	278.38	297.70	306.70	313.45	324.53
322.00	279.32	298.68	307.70	314.47	325.58
323.00	280.26	299.66	308.70	315.48	326.62
324.00	281.20	300.64	309.71	316.50	327.66
325.00	282.14	301.62	310.71	317.51	328.71
326.00	283.08	302.60	311.71	318.53	329.75
327.00	284.02	303.58	312.71	319.55	330.80

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328.00	284.96	304.56	313.71	320.56	331.84
329.00	285.90	305.54	314.71	321.58	332.88
330.00	286.84	306.52	315.71	322.60	333.93
331.00	287.79	307.50	316.71	323.62	334.97
332.00	288.73	308.48	317.71	324.63	336.02
333.00	289.67	309.46	318.71	325.65	337.06
334.00	290.61	310.45	319.71	326.67	338.11
335.00	291.55	311.43	320.71	327.68	339.15
336.00	292.50	312.41	321.72	328.70	340.19
337.00	293.44	313.39	322.72	329.72	341.24
338.00	294.38	314.37	323.72	330.73	342.28
339.00	295.32	315.35	324.72	331.75	343.33
340.00	296.27	316.33	325.72	332.77	344.37
341.00	297.21	317.32	326.72	333.79	345.42
342.00	298.15	318.30	327.72	334.80	346.46
343.00	299.09	319.28	328.73	335.82	347.51
344.00	300.04	320.26	329.73	336.84	348.55
345.00	300.98	321.24	330.73	337.85	349.59
346.00	301.92	322.22	331.73	338.87	350.64
347.00	302.87	323.21	332.73	339.89	351.68
348.00	303.81	324.19	333.74	340.91	352.73
349.00	304.75	325.17	334.74	341.92	353.77
350.00	305.70	326.15	335.74	342.94	354.82
351.00	306.64	327.14	336.74	343.96	355.86
352.00	307.58	328.12	337.74	344.98	356.91
353.00	308.53	329.10	338.74	345.99	357.95
354.00	309.47	330.08	339.75	347.01	359.00
355.00	310.42	331.06	340.75	348.03	360.04
356.00	311.36	332.05	341.75	349.05	361.09
357.00	312.30	333.03	342.75	350.06	362.13
358.00	313.25	334.01	343.76	351.08	363.18
359.00	314.19	335.00	344.76	352.10	364.22
360.00	315.14	335.98	345.76	353.12	365.27
361.00	316.08	336.96	346.76	354.14	366.31
362.00	317.03	337.94	347.76	355.15	367.36
363.00	317.97	338.93	348.77	356.17	368.40
364.00	318.92	339.91	349.77	357.19	369.45
365.00	319.86	340.89	350.77	358.21	370.49
366.00	320.81	341.88	351.77	359.23	371.54
367.00	321.75	342.86	352.78	360.24	372.58
368.00	322.70	343.84	353.78	361.26	373.63
369.00	323.64	344.82	354.78	362.28	374.67
370.00	324.59	345.81	355.78	363.30	375.72
371.00	325.53	346.79	356.79	364.32	376.76
372.00	326.48	347.78	357.79	365.34	377.81
373.00	327.43	348.76	358.79	366.35	378.85

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374.00	328.37	349.74	359.80	367.37	379.90
375.00	329.32	350.73	360.80	368.39	380.94
376.00	330.26	351.71	361.80	369.41	381.99
377.00	331.21	352.69	362.80	370.43	383.03
378.00	332.16	353.68	363.81	371.45	384.08
379.00	333.10	354.66	364.81	372.46	385.13
380.00	334.05	355.64	365.82	373.48	386.17
381.00	334.99	356.63	366.82	374.50	387.22
382.00	335.94	357.61	367.82	375.52	388.26
383.00	336.89	358.60	368.82	376.54	389.31
384.00	337.83	359.58	369.83	377.56	390.35
385.00	338.78	360.57	370.83	378.57	391.40
386.00	339.73	361.55	371.83	379.59	392.44
387.00	340.67	362.53	372.84	380.61	393.49
388.00	341.62	363.52	373.84	381.63	394.54
389.00	342.57	364.50	374.84	382.65	395.58
390.00	343.52	365.49	375.85	383.67	396.63
391.00	344.46	366.47	376.85	384.69	397.67
392.00	345.41	367.46	377.86	385.71	398.72
393.00	346.36	368.44	378.86	386.73	399.76
394.00	347.31	369.42	379.86	387.75	400.81
395.00	348.26	370.41	380.87	388.76	401.86
396.00	349.20	371.39	381.87	389.78	402.90
397.00	350.15	372.38	382.87	390.80	403.95
398.00	351.10	373.36	383.88	391.82	404.99
399.00	352.05	374.35	384.88	392.84	406.04
400.00	352.99	375.33	385.89	393.86	407.08
401.00	353.94	376.32	386.89	394.88	408.13
402.00	354.89	377.30	387.89	395.90	409.18
403.00	355.84	378.29	388.90	396.92	410.22
404.00	356.79	379.27	389.90	397.94	411.27
405.00	357.74	380.26	390.91	398.95	412.31
406.00	358.68	381.24	391.91	399.97	413.36
407.00	359.63	382.23	392.91	400.99	414.41
408.00	360.58	383.21	393.92	402.01	415.45
409.00	361.53	384.20	394.92	403.03	416.50
410.00	362.48	385.18	395.93	404.05	417.54
411.00	363.43	386.17	396.93	405.07	418.59
412.00	364.38	387.16	397.94	406.09	419.63
413.00	365.33	388.14	398.94	407.11	420.68
414.00	366.27	389.13	399.95	408.13	421.73
415.00	367.22	390.11	400.95	409.15	422.77
416.00	368.17	391.10	401.95	410.17	423.82
417.00	369.12	392.08	402.96	411.19	424.87
418.00	370.07	393.07	403.96	412.21	425.91
419.00	371.02	394.05	404.97	413.23	426.96

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420.00	371.97	395.04	405.97	414.25	428.01
421.00	372.92	396.03	406.98	415.27	429.05
422.00	373.87	397.01	407.98	416.29	430.10
423.00	374.82	398.00	408.99	417.31	431.14
424.00	375.77	398.98	409.99	418.33	432.19
425.00	376.72	399.97	410.99	419.35	433.24
426.00	377.67	400.96	412.00	420.37	434.28
427.00	378.62	401.94	413.01	421.39	435.33
428.00	379.57	402.93	414.01	422.40	436.38
429.00	380.52	403.91	415.02	423.42	437.42
430.00	381.47	404.90	416.02	424.45	438.47
431.00	382.42	405.89	417.03	425.47	439.52
432.00	383.37	406.87	418.03	426.48	440.56
433.00	384.32	407.86	419.03	427.50	441.61
434.00	385.27	408.85	420.04	428.53	442.65
435.00	386.23	409.83	421.05	429.55	443.70
436.00	387.18	410.82	422.05	430.57	444.75
437.00	388.13	411.81	423.06	431.59	445.80
438.00	389.08	412.79	424.06	432.60	446.84
439.00	390.03	413.78	425.07	433.63	447.89
440.00	390.98	414.77	426.07	434.65	448.93
441.00	391.93	415.75	427.08	435.67	449.98
442.00	392.88	416.74	428.08	436.69	451.03
443.00	393.83	417.73	429.09	437.71	452.07
444.00	394.79	418.71	430.09	438.73	453.12
445.00	395.74	419.70	431.10	439.75	454.17
446.00	396.69	420.69	432.11	440.77	455.21
447.00	397.64	421.67	433.11	441.79	456.26
448.00	398.59	422.66	434.11	442.81	457.31
449.00	399.54	423.65	435.12	443.83	458.35
450.00	400.49	424.63	436.12	444.85	459.40
451.00	401.45	425.62	437.13	445.87	460.45
452.00	402.40	426.61	438.14	446.89	461.50
453.00	403.35	427.60	439.14	447.91	462.54
454.00	404.30	428.58	440.15	448.93	463.59
455.00	405.25	429.57	441.15	449.95	464.63
456.00	406.21	430.56	442.16	450.97	465.68
457.00	407.16	431.55	443.17	451.99	466.73
458.00	408.11	432.53	444.17	453.02	467.78
459.00	409.06	433.52	445.18	454.04	468.82
460.00	410.02	434.51	446.18	455.06	469.87
461.00	410.97	435.50	447.19	456.08	470.92
462.00	411.92	436.48	448.20	457.10	471.96
463.00	412.87	437.47	449.20	458.12	473.01
464.00	413.83	438.46	450.21	459.14	474.05
465.00	414.78	439.44	451.21	460.16	475.10

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466.00	415.73	440.43	452.22	461.18	476.15
467.00	416.68	441.42	453.22	462.20	477.19
468.00	417.64	442.41	454.23	463.22	478.24
469.00	418.59	443.40	455.24	464.24	479.29
470.00	419.54	444.38	456.24	465.26	480.34
471.00	420.50	445.37	457.25	466.28	481.38
472.00	421.45	446.36	458.26	467.31	482.43
473.00	422.40	447.35	459.26	468.32	483.48
474.00	423.36	448.34	460.27	469.35	484.53
475.00	424.31	449.33	461.27	470.37	485.57
476.00	425.26	450.31	462.28	471.39	486.62
477.00	426.21	451.30	463.29	472.41	487.66
478.00	427.17	452.29	464.29	473.43	488.72
479.00	428.12	453.28	465.30	474.45	489.76
480.00	429.08	454.26	466.31	475.47	490.81
481.00	430.03	455.25	467.31	476.50	491.86
482.00	430.98	456.24	468.32	477.52	492.90
483.00	431.94	457.23	469.32	478.54	493.95
484.00	432.89	458.22	470.33	479.56	495.00
485.00	433.85	459.21	471.34	480.58	496.04
486.00	434.80	460.20	472.35	481.60	497.09
487.00	435.75	461.18	473.35	482.62	498.14
488.00	436.71	462.17	474.36	483.64	499.19
489.00	437.66	463.16	475.37	484.66	500.23
490.00	438.61	464.15	476.37	485.68	501.28
491.00	439.57	465.14	477.38	486.71	502.33
492.00	440.52	466.13	478.38	487.73	503.38
493.00	441.48	467.12	479.39	488.75	504.42
494.00	442.43	468.10	480.40	489.77	505.47
495.00	443.39	469.09	481.41	490.79	506.52
496.00	444.34	470.08	482.41	491.81	507.56
497.00	445.30	471.07	483.42	492.83	508.61
498.00	446.25	472.06	484.43	493.86	509.66
499.00	447.21	473.05	485.43	494.88	510.71
500.00	448.16	474.04	486.44	495.90	511.75
501.00	449.11	475.03	487.44	496.92	512.80
502.00	450.07	476.02	488.45	497.94	513.85
503.00	451.03	477.00	489.46	498.96	514.90
504.00	451.98	477.99	490.47	499.98	515.94
505.00	452.93	478.98	491.47	501.01	516.99
506.00	453.89	479.97	492.48	502.03	518.04
507.00	454.84	480.96	493.49	503.05	519.08
508.00	455.80	481.95	494.50	504.07	520.13
509.00	456.76	482.94	495.50	505.09	521.18
510.00	457.71	483.93	496.51	506.11	522.23
511.00	458.67	484.92	497.52	507.13	523.27

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512.00	459.62	485.90	498.53	508.16	524.32
513.00	460.58	486.90	499.53	509.18	525.37
514.00	461.53	487.88	500.54	510.20	526.42
515.00	462.49	488.87	501.54	511.22	527.47
516.00	463.45	489.86	502.55	512.25	528.52
517.00	464.40	490.85	503.56	513.27	529.56
518.00	465.36	491.84	504.57	514.29	530.61
519.00	466.31	492.83	505.57	515.31	531.66
520.00	467.27	493.82	506.58	516.33	532.70
521.00	468.22	494.81	507.59	517.35	533.75
522.00	469.18	495.80	508.60	518.38	534.80
523.00	470.14	496.79	509.60	519.40	535.85
524.00	471.09	497.78	510.61	520.42	536.89
525.00	472.05	498.77	511.62	521.44	537.94
526.00	473.01	499.76	512.63	522.46	538.99
527.00	473.96	500.75	513.63	523.48	540.04
528.00	474.92	501.74	514.64	524.51	541.09
529.00	475.87	502.73	515.65	525.53	542.13
530.00	476.83	503.72	516.66	526.55	543.18
531.00	477.79	504.71	517.67	527.57	544.23
532.00	478.74	505.70	518.67	528.60	545.27
533.00	479.70	506.69	519.68	529.62	546.33
534.00	480.66	507.68	520.69	530.64	547.37
535.00	481.61	508.67	521.70	531.66	548.42
536.00	482.57	509.66	522.70	532.69	549.47
537.00	483.53	510.65	523.71	533.71	550.52
538.00	484.48	511.64	524.72	534.73	551.56
539.00	485.44	512.63	525.73	535.75	552.61
540.00	486.40	513.62	526.74	536.77	553.66
541.00	487.35	514.61	527.74	537.80	554.71
542.00	488.31	515.60	528.75	538.82	555.76
543.00	489.27	516.59	529.76	539.84	556.80
544.00	490.23	517.58	530.77	540.86	557.85
545.00	491.18	518.57	531.78	541.88	558.90
546.00	492.14	519.56	532.78	542.91	559.94
547.00	493.10	520.55	533.79	543.93	560.99
548.00	494.06	521.54	534.80	544.95	562.04
549.00	495.01	522.53	535.80	545.97	563.09
550.00	495.97	523.52	536.81	547.00	564.14
551.00	496.93	524.51	537.82	548.02	565.19
552.00	497.89	525.50	538.83	549.04	566.23
553.00	498.84	526.49	539.84	550.06	567.28
554.00	499.80	527.48	540.84	551.09	568.33
555.00	500.76	528.47	541.85	552.11	569.38
556.00	501.71	529.46	542.86	553.13	570.43
557.00	502.67	530.46	543.87	554.15	571.47

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558.00	503.63	531.45	544.88	555.18	572.52
559.00	504.59	532.44	545.89	556.20	573.57
560.00	505.55	533.43	546.89	557.22	574.62
561.00	506.50	534.42	547.91	558.24	575.67
562.00	507.46	535.41	548.91	559.27	576.72
563.00	508.42	536.40	549.92	560.29	577.76
564.00	509.38	537.39	550.93	561.31	578.81
565.00	510.34	538.38	551.94	562.33	579.86
566.00	511.29	539.37	552.94	563.36	580.91
567.00	512.25	540.36	553.95	564.38	581.96
568.00	513.21	541.35	554.96	565.40	583.00
569.00	514.17	542.34	555.97	566.42	584.05
570.00	515.13	543.34	556.98	567.45	585.10
571.00	516.09	544.33	557.99	568.47	586.15
572.00	517.05	545.32	559.00	569.49	587.19
573.00	518.00	546.31	560.01	570.51	588.24
574.00	518.96	547.30	561.01	571.54	589.29
575.00	519.92	548.29	562.02	572.56	590.34
576.00	520.88	549.28	563.03	573.58	591.39
577.00	521.84	550.27	564.04	574.60	592.44
578.00	522.80	551.27	565.05	575.63	593.48
579.00	523.75	552.25	566.05	576.65	594.54
580.00	524.72	553.25	567.06	577.67	595.58
581.00	525.67	554.24	568.07	578.70	596.63
582.00	526.63	555.23	569.08	579.72	597.68
583.00	527.59	556.22	570.09	580.74	598.73
584.00	528.55	557.21	571.10	581.77	599.77
585.00	529.51	558.20	572.11	582.79	600.82
586.00	530.47	559.20	573.12	583.81	601.87
587.00	531.43	560.19	574.13	584.83	602.92
588.00	532.39	561.18	575.13	585.86	603.97
589.00	533.34	562.17	576.14	586.88	605.02
590.00	534.30	563.16	577.15	587.90	606.06
591.00	535.26	564.15	578.16	588.92	607.11
592.00	536.22	565.14	579.17	589.95	608.16
593.00	537.18	566.13	580.18	590.97	609.21
594.00	538.14	567.13	581.19	591.99	610.26
595.00	539.10	568.12	582.20	593.02	611.30
596.00	540.06	569.11	583.20	594.04	612.36
597.00	541.02	570.10	584.21	595.06	613.40
598.00	541.98	571.09	585.22	596.09	614.45
599.00	542.94	572.08	586.23	597.11	615.50
600.00	543.90	573.08	587.24	598.13	616.55
601.00	544.86	574.07	588.25	599.15	617.59
602.00	545.82	575.06	589.26	600.18	618.65
603.00	546.78	576.05	590.27	601.20	619.70

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604.00	547.74	577.04	591.27	602.22	620.74
605.00	548.70	578.04	592.29	603.25	621.79
606.00	549.66	579.03	593.29	604.27	622.84
607.00	550.62	580.02	594.30	605.29	623.89
608.00	551.58	581.01	595.31	606.32	624.94
609.00	552.54	582.00	596.32	607.34	625.98
610.00	553.50	583.00	597.33	608.36	627.03
611.00	554.46	583.99	598.34	609.39	628.08
612.00	555.42	584.98	599.35	610.41	629.13
613.00	556.38	585.97	600.36	611.44	630.18
614.00	557.34	586.96	601.37	612.46	631.23
615.00	558.30	587.96	602.38	613.48	632.28
616.00	559.26	588.95	603.39	614.50	633.32
617.00	560.22	589.94	604.40	615.53	634.37
618.00	561.18	590.93	605.40	616.55	635.42
619.00	562.14	591.92	606.41	617.57	636.47
620.00	563.10	592.92	607.42	618.60	637.52
621.00	564.06	593.91	608.43	619.62	638.57
622.00	565.02	594.90	609.44	620.65	639.62
623.00	565.98	595.89	610.45	621.67	640.66
624.00	566.94	596.89	611.46	622.69	641.71
625.00	567.91	597.88	612.47	623.71	642.76
626.00	568.87	598.87	613.48	624.74	643.81
627.00	569.83	599.86	614.49	625.76	644.86
628.00	570.79	600.86	615.50	626.79	645.91
629.00	571.75	601.85	616.51	627.81	646.95
630.00	572.71	602.84	617.52	628.83	648.00
631.00	573.67	603.83	618.53	629.86	649.05
632.00	574.63	604.82	619.54	630.88	650.10
633.00	575.59	605.82	620.55	631.90	651.15
634.00	576.55	606.81	621.56	632.92	652.20
635.00	577.52	607.80	622.57	633.95	653.25
636.00	578.47	608.80	623.58	634.97	654.30
637.00	579.44	609.79	624.59	636.00	655.35
638.00	580.40	610.78	625.60	637.02	656.39
639.00	581.36	611.77	626.60	638.04	657.44
640.00	582.32	612.77	627.61	639.06	658.49
641.00	583.28	613.76	628.62	640.09	659.54
642.00	584.24	614.75	629.63	641.12	660.59
643.00	585.20	615.74	630.64	642.14	661.64
644.00	586.17	616.73	631.65	643.16	662.68
645.00	587.13	617.73	632.66	644.19	663.74
646.00	588.09	618.72	633.67	645.21	664.79
647.00	589.05	619.72	634.68	646.23	665.83
648.00	590.01	620.71	635.69	647.26	666.88
649.00	590.98	621.70	636.70	648.28	667.93

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650.00	591.94	622.69	637.71	649.30	668.98
651.00	592.90	623.69	638.72	650.33	670.03
652.00	593.86	624.68	639.73	651.35	671.08
653.00	594.82	625.67	640.74	652.37	672.13
654.00	595.78	626.66	641.75	653.40	673.18
655.00	596.74	627.66	642.76	654.42	674.22
656.00	597.71	628.65	643.77	655.45	675.28
657.00	598.67	629.64	644.78	656.47	676.32
658.00	599.63	630.64	645.79	657.50	677.37
659.00	600.59	631.63	646.80	658.51	678.42
660.00	601.56	632.62	647.81	659.54	679.47
661.00	602.52	633.61	648.82	660.56	680.52
662.00	603.48	634.61	649.83	661.59	681.57
663.00	604.44	635.60	650.84	662.61	682.61
664.00	605.41	636.60	651.85	663.64	683.67
665.00	606.37	637.59	652.86	664.66	684.71
666.00	607.33	638.58	653.87	665.68	685.76
667.00	608.29	639.57	654.88	666.71	686.81
668.00	609.25	640.57	655.89	667.73	687.86
669.00	610.21	641.56	656.90	668.76	688.91
670.00	611.18	642.55	657.91	669.78	689.96
671.00	612.14	643.55	658.92	670.80	691.01
672.00	613.10	644.54	659.93	671.83	692.06
673.00	614.06	645.53	660.94	672.85	693.10
674.00	615.03	646.53	661.95	673.87	694.15
675.00	615.99	647.52	662.96	674.90	695.20
676.00	616.95	648.51	663.97	675.93	696.25
677.00	617.91	649.51	664.98	676.95	697.30
678.00	618.88	650.50	665.99	677.97	698.35
679.00	619.84	651.49	667.00	679.00	699.40
680.00	620.80	652.49	668.01	680.02	700.45
681.00	621.77	653.48	669.02	681.05	701.50
682.00	622.73	654.48	670.03	682.07	702.55
683.00	623.69	655.47	671.04	683.09	703.60
684.00	624.65	656.46	672.05	684.12	704.64
685.00	625.62	657.46	673.06	685.14	705.69
686.00	626.58	658.45	674.07	686.16	706.74
687.00	627.54	659.44	675.08	687.19	707.79
688.00	628.50	660.43	676.09	688.21	708.84
689.00	629.47	661.43	677.10	689.24	709.89
690.00	630.43	662.42	678.12	690.26	710.94
691.00	631.40	663.42	679.13	691.28	711.99
692.00	632.36	664.41	680.13	692.31	713.04
693.00	633.32	665.40	681.14	693.33	714.08
694.00	634.29	666.40	682.16	694.36	715.14
695.00	635.25	667.39	683.17	695.38	716.19

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696.00	636.21	668.39	684.18	696.40	717.23
697.00	637.17	669.38	685.19	697.43	718.28
698.00	638.14	670.37	686.20	698.45	719.33
699.00	639.10	671.37	687.21	699.48	720.38
700.00	640.07	672.36	688.22	700.50	721.43
701.00	641.03	673.36	689.23	701.52	722.48
702.00	641.99	674.35	690.24	702.55	723.53
703.00	642.96	675.34	691.25	703.57	724.58
704.00	643.92	676.34	692.26	704.60	725.62
705.00	644.88	677.33	693.27	705.62	726.67
706.00	645.85	678.33	694.28	706.65	727.72
707.00	646.81	679.32	695.29	707.67	728.78
708.00	647.77	680.31	696.30	708.70	729.82
709.00	648.74	681.31	697.31	709.72	730.87
710.00	649.70	682.30	698.32	710.75	731.92
711.00	650.67	683.29	699.33	711.77	732.97
712.00	651.63	684.29	700.35	712.80	734.02
713.00	652.59	685.28	701.36	713.82	735.07
714.00	653.56	686.28	702.37	714.85	736.12
715.00	654.52	687.27	703.38	715.86	737.17
716.00	655.49	688.27	704.39	716.89	738.22
717.00	656.45	689.26	705.40	717.92	739.26
718.00	657.41	690.26	706.41	718.94	740.31
719.00	658.38	691.25	707.42	719.97	741.36
720.00	659.34	692.25	708.43	720.99	742.41
721.00	660.31	693.23	709.45	722.02	743.46
722.00	661.27	694.23	710.45	723.04	744.51
723.00	662.23	695.22	711.46	724.06	745.56
724.00	663.20	696.22	712.47	725.09	746.61
725.00	664.16	697.21	713.49	726.11	747.66
726.00	665.12	698.21	714.50	727.13	748.71
727.00	666.09	699.20	715.51	728.16	749.76
728.00	667.06	700.20	716.52	729.19	750.81
729.00	668.02	701.19	717.53	730.21	751.86
730.00	668.98	702.19	718.54	731.23	752.91
731.00	669.95	703.18	719.55	732.26	753.96
732.00	670.91	704.17	720.56	733.28	755.01
733.00	671.88	705.17	721.57	734.31	756.06
734.00	672.84	706.17	722.58	735.33	757.11
735.00	673.81	707.16	723.60	736.36	758.15
736.00	674.77	708.15	724.60	737.38	759.20
737.00	675.74	709.15	725.62	738.40	760.25
738.00	676.70	710.14	726.63	739.43	761.30
739.00	677.67	711.14	727.64	740.46	762.35
740.00	678.63	712.13	728.65	741.48	763.40
741.00	679.60	713.13	729.66	742.51	764.45

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742.00	680.56	714.12	730.67	743.53	765.50
743.00	681.53	715.11	731.68	744.55	766.55
744.00	682.49	716.11	732.70	745.58	767.60
745.00	683.45	717.11	733.70	746.60	768.65
746.00	684.42	718.10	734.72	747.63	769.70
747.00	685.38	719.09	735.73	748.66	770.75
748.00	686.35	720.09	736.74	749.68	771.80
749.00	687.32	721.08	737.75	750.70	772.84
750.00	688.28	722.08	738.76	751.73	773.89
751.00	689.24	723.07	739.77	752.75	774.94
752.00	690.21	724.07	740.78	753.77	776.00
753.00	691.18	725.07	741.79	754.80	777.05
754.00	692.14	726.06	742.81	755.83	778.09
755.00	693.10	727.05	743.82	756.85	779.14
756.00	694.07	728.05	744.83	757.88	780.19
757.00	695.03	729.04	745.84	758.90	781.24
758.00	696.00	730.04	746.85	759.93	782.29
759.00	696.97	731.03	747.86	760.95	783.34
760.00	697.93	732.03	748.88	761.98	784.39
761.00	698.90	733.02	749.88	763.00	785.44
762.00	699.86	734.02	750.89	764.03	786.49
763.00	700.83	735.01	751.91	765.05	787.54
764.00	701.79	736.01	752.92	766.07	788.59
765.00	702.76	737.00	753.93	767.10	789.63
766.00	703.72	738.00	754.94	768.12	790.69
767.00	704.69	738.99	755.96	769.15	791.74
768.00	705.65	739.98	756.97	770.17	792.78
769.00	706.62	740.98	757.98	771.20	793.83
770.00	707.59	741.98	758.99	772.22	794.89
771.00	708.55	742.97	759.99	773.25	795.93
772.00	709.52	743.97	761.00	774.28	796.98
773.00	710.48	744.96	762.02	775.30	798.04
774.00	711.45	745.96	763.03	776.33	799.08
775.00	712.41	746.95	764.04	777.35	800.13
776.00	713.38	747.95	765.05	778.37	801.18
777.00	714.34	748.94	766.06	779.40	802.23
778.00	715.31	749.94	767.07	780.42	803.28
779.00	716.28	750.93	768.09	781.45	804.33
780.00	717.24	751.93	769.10	782.48	805.38
781.00	718.21	752.92	770.11	783.50	806.43
782.00	719.17	753.92	771.12	784.52	807.48
783.00	720.14	754.92	772.13	785.55	808.53
784.00	721.11	755.91	773.14	786.57	809.58
785.00	722.07	756.91	774.15	787.60	810.63
786.00	723.04	757.91	775.16	788.63	811.68
787.00	724.01	758.89	776.19	789.65	812.73

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788.00	724.97	759.89	777.20	790.67	813.78
789.00	725.94	760.88	778.21	791.70	814.83
790.00	726.90	761.88	779.22	792.73	815.88
791.00	727.87	762.87	780.23	793.75	816.92
792.00	728.83	763.87	781.24	794.77	817.98
793.00	729.80	764.87	782.25	795.80	819.02
794.00	730.77	765.86	783.26	796.83	820.08
795.00	731.74	766.86	784.27	797.85	821.13
796.00	732.70	767.85	785.28	798.87	822.17
797.00	733.67	768.85	786.29	799.90	823.23
798.00	734.63	769.84	787.32	800.93	824.27
799.00	735.60	770.84	788.33	801.95	825.33
800.00	736.56	771.83	789.34	802.98	826.37
801.00	737.53	772.83	790.35	804.00	827.43
802.00	738.50	773.82	791.36	805.02	828.47
803.00	739.47	774.82	792.37	806.05	829.53
804.00	740.43	775.81	793.38	807.08	830.58
805.00	741.40	776.82	794.39	808.10	831.62
806.00	742.36	777.81	795.40	809.13	832.67
807.00	743.33	778.81	796.42	810.15	833.72
808.00	744.30	779.80	797.43	811.17	834.78
809.00	745.26	780.80	798.44	812.20	835.82
810.00	746.23	781.79	799.45	813.23	836.87
811.00	747.20	782.79	800.46	814.25	837.92
812.00	748.16	783.78	801.47	815.28	838.98
813.00	749.13	784.78	802.49	816.30	840.02
814.00	750.10	785.77	803.50	817.33	841.07
815.00	751.06	786.78	804.51	818.35	842.12
816.00	752.03	787.77	805.52	819.38	843.16
817.00	753.00	788.76	806.53	820.40	844.22
818.00	753.97	789.76	807.55	821.43	845.27
819.00	754.93	790.75	808.56	822.45	846.32
820.00	755.89	791.75	809.57	823.48	847.37
821.00	756.87	792.74	810.58	824.51	848.41
822.00	757.84	793.74	811.60	825.53	849.47
823.00	758.80	794.74	812.61	826.56	850.52
824.00	759.77	795.73	813.62	827.58	851.57
825.00	760.73	796.73	814.63	828.61	852.62
826.00	761.70	797.72	815.65	829.63	853.66
827.00	762.66	798.71	816.65	830.66	854.71
828.00	763.63	799.72	817.66	831.69	855.77
829.00	764.61	800.71	818.67	832.71	856.82
830.00	765.57	801.71	819.68	833.74	857.87
831.00	766.54	802.70	820.70	834.76	858.91
832.00	767.50	803.70	821.71	835.79	859.96
833.00	768.47	804.70	822.72	836.81	861.01

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834.00	769.44	805.69	823.74	837.84	862.07
835.00	770.41	806.68	824.75	838.86	863.12
836.00	771.37	807.69	825.76	839.89	864.17
837.00	772.34	808.68	826.78	840.91	865.21
838.00	773.30	809.67	827.79	841.94	866.26
839.00	774.28	810.68	828.79	842.96	867.31
840.00	775.24	811.67	829.80	843.98	868.36
841.00	776.21	812.66	830.82	845.01	869.42
842.00	777.18	813.66	831.83	846.03	870.47
843.00	778.15	814.66	832.84	847.07	871.52
844.00	779.11	815.65	833.86	848.08	872.56
845.00	780.09	816.65	834.87	849.12	873.61
846.00	781.05	817.65	835.89	850.14	874.66
847.00	782.01	818.64	836.90	851.17	875.71
848.00	782.99	819.64	837.90	852.19	876.77
849.00	783.95	820.64	838.91	853.22	877.82
850.00	784.92	821.63	839.93	854.24	878.87
851.00	785.89	822.62	840.94	855.26	879.91
852.00	786.85	823.63	841.96	856.29	880.96
853.00	787.82	824.62	842.97	857.31	882.01
854.00	788.79	825.61	843.97	858.35	883.06
855.00	789.76	826.62	844.99	859.37	884.11
856.00	790.73	827.61	846.00	860.40	885.16
857.00	791.69	828.60	847.02	861.42	886.22
858.00	792.66	829.60	848.03	862.44	887.27
859.00	793.63	830.60	849.05	863.47	888.32
860.00	794.59	831.60	850.05	864.49	889.37
861.00	795.57	832.59	851.06	865.53	890.41
862.00	796.53	833.58	852.08	866.55	891.46
863.00	797.51	834.59	853.09	867.57	892.51
864.00	798.47	835.58	854.11	868.60	893.56
865.00	799.43	836.58	855.11	869.62	894.61
866.00	800.41	837.57	856.12	870.66	895.66
867.00	801.38	838.56	857.14	871.68	896.71
868.00	802.34	839.57	858.15	872.70	897.77
869.00	803.30	840.56	859.17	873.73	898.82
870.00	804.28	841.56	860.17	874.75	899.87
871.00	805.25	842.55	861.19	875.79	900.92
872.00	806.21	843.55	862.20	876.81	901.97
873.00	807.19	844.55	863.22	877.83	903.01
874.00	808.15	845.55	864.23	878.86	904.06
875.00	809.12	846.54	865.23	879.88	905.11
876.00	810.08	847.54	866.25	880.90	906.16
877.00	811.06	848.53	867.26	881.94	907.21
878.00	812.03	849.52	868.28	882.96	908.26
879.00	812.99	850.53	869.28	883.99	909.31

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880.00	813.96	851.53	870.30	885.01	910.36
881.00	814.93	852.52	871.31	886.03	911.41
882.00	815.90	853.52	872.33	887.07	912.46
883.00	816.87	854.51	873.33	888.09	913.51
884.00	817.83	855.51	874.35	889.11	914.57
885.00	818.80	856.51	875.36	890.14	915.62
886.00	819.78	857.51	876.38	891.17	916.67
887.00	820.74	858.50	877.38	892.19	917.72
888.00	821.71	859.50	878.40	893.22	918.77
889.00	822.67	860.49	879.42	894.24	919.82
890.00	823.64	861.49	880.42	895.26	920.87
891.00	824.62	862.48	881.44	896.30	921.92
892.00	825.59	863.48	882.45	897.32	922.97
893.00	826.55	864.49	883.47	898.34	924.02
894.00	827.52	865.48	884.47	899.38	925.07
895.00	828.49	866.48	885.49	900.40	926.12
896.00	829.45	867.47	886.50	901.42	927.17
897.00	830.43	868.47	887.51	902.46	928.22
898.00	831.40	869.46	888.52	903.48	929.27
899.00	832.37	870.46	889.54	904.50	930.32
900.00	833.33	871.46	890.54	905.52	931.37
901.00	834.30	872.45	891.56	906.55	932.42
902.00	835.27	873.45	892.58	907.58	933.47
903.00	836.24	874.44	893.58	908.60	934.52
904.00	837.20	875.45	894.60	909.63	935.57
905.00	838.18	876.45	895.62	910.66	936.62
906.00	839.15	877.45	896.62	911.68	937.67
907.00	840.12	878.44	897.64	912.71	938.72
908.00	841.09	879.44	898.65	913.74	939.77
909.00	842.06	880.43	899.66	914.76	940.82
910.00	843.02	881.43	900.68	915.78	941.87
911.00	843.99	882.43	901.69	916.82	942.92
912.00	844.96	883.42	902.70	917.84	943.97
913.00	845.93	884.42	903.71	918.86	945.02
914.00	846.90	885.42	904.73	919.88	946.07
915.00	847.86	886.41	905.74	920.92	947.12
916.00	848.83	887.41	906.75	921.94	948.17
917.00	849.80	888.41	907.77	922.96	949.22
918.00	850.77	889.40	908.78	924.00	950.27
919.00	851.74	890.40	909.79	925.02	951.32
920.00	852.71	891.40	910.81	926.04	952.37
921.00	853.69	892.39	911.82	927.06	953.42
922.00	854.66	893.39	912.83	928.10	954.47
923.00	855.63	894.39	913.84	929.12	955.52
924.00	856.60	895.39	914.86	930.15	956.57
925.00	857.57	896.38	915.88	931.17	957.62

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926.00	858.54	897.38	916.88	932.21	958.68
927.00	859.51	898.38	917.90	933.23	959.73
928.00	860.48	899.38	918.90	934.25	960.76
929.00	861.43	900.37	919.92	935.27	961.81
930.00	862.40	901.37	920.94	936.31	962.86
931.00	863.37	902.37	921.94	937.33	963.91
932.00	864.34	903.37	922.96	938.36	964.97
933.00	865.31	904.36	923.97	939.38	966.02
934.00	866.28	905.36	924.99	940.40	967.07
935.00	867.25	906.36	926.00	941.44	968.12
936.00	868.22	907.36	927.01	942.46	969.17
937.00	869.19	908.36	928.03	943.48	970.22
938.00	870.16	909.35	929.03	944.51	971.27
939.00	871.14	910.35	930.05	945.55	972.32
940.00	872.11	911.35	931.06	946.57	973.37
941.00	873.08	912.35	932.08	947.59	974.43
942.00	874.05	913.33	933.10	948.61	975.48
943.00	875.02	914.33	934.10	949.64	976.53
944.00	875.99	915.33	935.12	950.68	977.58
945.00	876.96	916.33	936.12	951.70	978.62
946.00	877.92	917.33	937.14	952.72	979.67
947.00	878.89	918.32	938.15	953.74	980.72
948.00	879.86	919.32	939.17	954.77	981.77
949.00	880.83	920.32	940.17	955.81	982.82
950.00	881.80	921.32	941.19	956.83	983.87
951.00	882.78	922.32	942.20	957.85	984.92
952.00	883.75	923.32	943.22	958.88	985.98
953.00	884.72	924.32	944.24	959.90	987.03
954.00	885.68	925.30	945.24	960.92	988.08
955.00	886.65	926.30	946.26	961.96	989.13
956.00	887.62	927.30	947.27	962.99	990.18
957.00	888.59	928.30	948.29	964.01	991.22
958.00	889.57	929.30	949.30	965.03	992.27
959.00	890.54	930.30	950.32	966.06	993.32
960.00	891.51	931.30	951.32	967.08	994.37
961.00	892.47	932.30	952.34	968.12	995.43
962.00	893.44	933.30	953.35	969.14	996.48
963.00	894.41	934.28	954.37	970.17	997.53
964.00	895.39	935.28	955.37	971.19	998.58
965.00	896.36	936.28	956.39	972.21	999.63
966.00	897.32	937.28	957.40	973.24	1000.69
967.00	898.29	938.28	958.42	974.28	1001.72
968.00	899.27	939.28	959.43	975.30	1002.77
969.00	900.24	940.28	960.45	976.32	1003.83
970.00	901.21	941.26	961.45	977.35	1004.88
971.00	902.17	942.26	962.47	978.37	1005.93

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972.00	903.14	943.26	963.48	979.40	1006.98
973.00	904.12	944.26	964.50	980.42	1008.04
974.00	905.09	945.26	965.51	981.46	1009.09
975.00	906.05	946.26	966.53	982.48	1010.12
976.00	907.03	947.25	967.53	983.51	1011.18
977.00	908.00	948.25	968.55	984.53	1012.23
978.00	908.97	949.25	969.56	985.56	1013.28
979.00	909.95	950.25	970.57	986.58	1014.33
980.00	910.91	951.25	971.59	987.60	1015.39
981.00	911.88	952.24	972.60	988.65	1016.44
982.00	912.86	953.24	973.62	989.67	1017.49
983.00	913.82	954.24	974.62	990.69	1018.53
984.00	914.79	955.24	975.64	991.72	1019.58
985.00	915.76	956.24	976.65	992.74	1020.63
986.00	916.74	957.23	977.67	993.77	1021.69
987.00	917.70	958.23	978.68	994.79	1022.74
988.00	918.67	959.23	979.70	995.82	1023.79
989.00	919.65	960.23	980.71	996.84	1024.84
990.00	920.61	961.23	981.71	997.88	1025.88
991.00	921.58	962.22	982.74	998.91	1026.93
992.00	922.56	963.22	983.74	999.93	1027.99
993.00	923.54	964.22	984.76	1000.96	1029.04
994.00	924.50	965.22	985.77	1001.98	1030.09
995.00	925.47	966.22	986.79	1003.01	1031.15
996.00	926.45	967.21	987.80	1004.03	1032.20
997.00	927.41	968.21	988.81	1005.05	1033.24
998.00	928.38	969.21	989.83	1006.08	1034.29
999.00	929.36	970.21	990.84	1007.10	1035.34
1000.00	930.32	971.20	991.86	1008.15	1036.39
1001.00	931.30	972.20	992.87	1009.17	1037.45
1002.00	932.27	973.20	993.87	1010.20	1038.50
1003.00	933.23	974.20	994.90	1011.22	1039.54
1004.00	934.21	975.19	995.90	1012.25	1040.59
1005.00	935.19	976.19	996.93	1013.27	1041.64
1006.00	936.15	977.20	997.93	1014.30	1042.70
1007.00	937.12	978.20	998.94	1015.32	1043.75
1008.00	938.09	979.18	999.96	1016.35	1044.80
1009.00	939.06	980.19	1000.97	1017.37	1045.84
1010.00	940.04	981.19	1001.99	1018.40	1046.89
1011.00	941.00	982.18	1003.00	1019.42	1047.95
1012.00	941.98	983.18	1004.01	1020.45	1049.00
1013.00	942.96	984.18	1005.03	1021.49	1050.05
1014.00	943.92	985.18	1006.04	1022.52	1051.09
1015.00	944.90	986.17	1007.06	1023.54	1052.14
1016.00	945.86	987.17	1008.07	1024.57	1053.20
1017.00	946.83	988.18	1009.08	1025.59	1054.25

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1018.00	947.81	989.16	1010.10	1026.62	1055.31
1019.00	948.77	990.16	1011.11	1027.64	1056.34
1020.00	949.75	991.17	1012.12	1028.67	1057.40
1021.00	950.71	992.17	1013.14	1029.69	1058.45
1022.00	951.69	993.16	1014.15	1030.72	1059.50
1023.00	952.65	994.16	1015.17	1031.75	1060.56
1024.00	953.63	995.16	1016.18	1032.77	1061.61
1025.00	954.61	996.15	1017.19	1033.80	1062.65
1026.00	955.57	997.15	1018.21	1034.82	1063.70
1027.00	956.55	998.16	1019.22	1035.85	1064.76
1028.00	957.51	999.15	1020.23	1036.87	1065.81
1029.00	958.49	1000.15	1021.25	1037.90	1066.86
1030.00	959.46	1001.15	1022.26	1038.93	1067.90
1031.00	960.44	1002.14	1023.27	1039.95	1068.96
1032.00	961.40	1003.14	1024.29	1040.98	1070.01
1033.00	962.38	1004.15	1025.30	1042.00	1071.06
1034.00	963.34	1005.13	1026.31	1043.05	1072.10
1035.00	964.32	1006.14	1027.33	1044.07	1073.15
1036.00	965.28	1007.14	1028.34	1045.10	1074.21
1037.00	966.26	1008.13	1029.35	1046.13	1075.26
1038.00	967.23	1009.13	1030.37	1047.15	1076.32
1039.00	968.20	1010.14	1031.38	1048.18	1077.35
1040.00	969.18	1011.13	1032.39	1049.20	1078.41
1041.00	970.15	1012.13	1033.42	1050.23	1079.46
1042.00	971.13	1013.13	1034.42	1051.26	1080.52
1043.00	972.09	1014.12	1035.43	1052.28	1081.57
1044.00	973.06	1015.13	1036.46	1053.31	1082.61
1045.00	974.03	1016.13	1037.47	1054.34	1083.66
1046.00	975.00	1017.12	1038.47	1055.36	1084.72
1047.00	975.98	1018.12	1039.50	1056.39	1085.77
1048.00	976.94	1019.11	1040.51	1057.42	1086.81
1049.00	977.92	1020.12	1041.52	1058.44	1087.86
1050.00	978.89	1021.12	1042.53	1059.47	1088.92
1051.00	979.87	1022.11	1043.55	1060.50	1089.97
1052.00	980.83	1023.11	1044.56	1061.52	1091.01
1053.00	981.81	1024.12	1045.57	1062.55	1092.07
1054.00	982.78	1025.11	1046.59	1063.58	1093.12
1055.00	983.76	1026.11	1047.60	1064.60	1094.18
1056.00	984.72	1027.10	1048.61	1065.63	1095.21
1057.00	985.70	1028.11	1049.62	1066.66	1096.27
1058.00	986.67	1029.11	1050.65	1067.68	1097.32
1059.00	987.63	1030.10	1051.66	1068.71	1098.38
1060.00	988.61	1031.10	1052.66	1069.74	1099.41
1061.00	989.58	1032.09	1053.69	1070.76	1100.47
1062.00	990.56	1033.10	1054.70	1071.79	1101.52
1063.00	991.53	1034.10	1055.71	1072.82	1102.58

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1064.00	992.51	1035.09	1056.72	1073.85	1103.63
1065.00	993.47	1036.10	1057.74	1074.87	1104.67
1066.00	994.44	1037.09	1058.75	1075.90	1105.73
1067.00	995.42	1038.09	1059.76	1076.91	1106.78
1068.00	996.39	1039.08	1060.77	1077.94	1107.82
1069.00	997.37	1040.09	1061.80	1078.96	1108.87
1070.00	998.33	1041.09	1062.81	1079.99	1109.93
1071.00	999.30	1042.08	1063.82	1081.02	1110.99
1072.00	1000.28	1043.09	1064.84	1082.05	1112.02
1073.00	1001.25	1044.08	1065.85	1083.07	1113.08
1074.00	1002.23	1045.08	1066.86	1084.10	1114.13
1075.00	1003.20	1046.07	1067.87	1085.13	1115.19
1076.00	1004.16	1047.08	1068.90	1086.16	1116.23
1077.00	1005.14	1048.08	1069.91	1087.18	1117.28
1078.00	1006.11	1049.07	1070.92	1088.21	1118.34
1079.00	1007.08	1050.08	1071.93	1089.24	1119.39
1080.00	1008.06	1051.07	1072.96	1090.27	1120.43
1081.00	1009.03	1052.08	1073.97	1091.29	1121.49
1082.00	1010.01	1053.07	1074.98	1092.32	1122.54
1083.00	1010.97	1054.07	1075.99	1093.35	1123.58
1084.00	1011.94	1055.06	1077.00	1094.38	1124.63
1085.00	1012.92	1056.07	1078.02	1095.40	1125.69
1086.00	1013.89	1057.06	1079.03	1096.43	1126.75
1087.00	1014.86	1058.07	1080.04	1097.46	1127.78
1088.00	1015.84	1059.07	1081.05	1098.49	1128.84
1089.00	1016.81	1060.06	1082.08	1099.52	1129.89
1090.00	1017.78	1061.07	1083.09	1100.53	1130.95
1091.00	1018.76	1062.06	1084.10	1101.55	1131.99
1092.00	1019.73	1063.07	1085.11	1102.58	1133.04
1093.00	1020.69	1064.06	1086.12	1103.61	1134.10
1094.00	1021.68	1065.06	1087.15	1104.64	1135.14
1095.00	1022.64	1066.05	1088.16	1105.67	1136.19
1096.00	1023.61	1067.06	1089.17	1106.69	1137.25
1097.00	1024.58	1068.05	1090.18	1107.72	1138.31
1098.00	1025.56	1069.06	1091.21	1108.75	1139.34
1099.00	1026.53	1070.05	1092.22	1109.78	1140.40
1100.00	1027.50	1071.05	1093.23	1110.81	1141.46
1101.00	1028.48	1072.05	1094.24	1111.84	1142.49
1102.00	1029.45	1073.05	1095.25	1112.86	1143.55
1103.00	1030.42	1074.04	1096.28	1113.89	1144.61
1104.00	1031.40	1075.05	1097.29	1114.90	1145.64
1105.00	1032.37	1076.04	1098.30	1115.93	1146.70
1106.00	1033.34	1077.05	1099.31	1116.96	1147.76
1107.00	1034.31	1078.04	1100.32	1117.99	1148.81
1108.00	1035.29	1079.05	1101.35	1119.02	1149.85
1109.00	1036.26	1080.04	1102.36	1120.04	1150.91

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1110.00	1037.23	1081.05	1103.37	1121.07	1151.96
1111.00	1038.20	1082.04	1104.38	1122.10	1153.00
1112.00	1039.18	1083.04	1105.39	1123.13	1154.06
1113.00	1040.15	1084.04	1106.40	1124.16	1155.11
1114.00	1041.12	1085.04	1107.43	1125.19	1156.15
1115.00	1042.09	1086.03	1108.44	1126.20	1157.21
1116.00	1043.07	1087.04	1109.45	1127.23	1158.26
1117.00	1044.04	1088.03	1110.46	1128.26	1159.30
1118.00	1045.01	1089.02	1111.47	1129.28	1160.36
1119.00	1045.98	1090.03	1112.49	1130.31	1161.42
1120.00	1046.97	1091.02	1113.51	1131.34	1162.47
1121.00	1047.94	1092.03	1114.53	1132.37	1163.51
1122.00	1048.90	1093.02	1115.54	1133.40	1164.57
1123.00	1049.87	1094.03	1116.55	1134.43	1165.62
1124.00	1050.86	1095.02	1117.56	1135.44	1166.66
1125.00	1051.83	1096.03	1118.57	1136.47	1167.72
1126.00	1052.80	1097.02	1119.60	1137.50	1168.78
1127.00	1053.77	1098.03	1120.61	1138.53	1169.81
1128.00	1054.74	1099.02	1121.62	1139.56	1170.87
1129.00	1055.72	1100.02	1122.63	1140.58	1171.93
1130.00	1056.69	1101.02	1123.65	1141.61	1172.97
1131.00	1057.66	1102.02	1124.66	1142.64	1174.02
1132.00	1058.63	1103.02	1125.69	1143.67	1175.08
1133.00	1059.60	1104.02	1126.70	1144.68	1176.12
1134.00	1060.59	1105.03	1127.71	1145.71	1177.17
1135.00	1061.56	1106.02	1128.72	1146.74	1178.23
1136.00	1062.53	1107.01	1129.73	1147.77	1179.27
1137.00	1063.50	1108.02	1130.75	1148.80	1180.33
1138.00	1064.47	1109.01	1131.76	1149.83	1181.38
1139.00	1065.46	1110.02	1132.79	1150.86	1182.42
1140.00	1066.43	1111.01	1133.80	1151.89	1183.48
1141.00	1067.40	1112.02	1134.81	1152.90	1184.54
1142.00	1068.37	1113.01	1135.82	1153.93	1185.58
1143.00	1069.34	1114.00	1136.83	1154.96	1186.63
1144.00	1070.31	1115.01	1137.85	1155.99	1187.69
1145.00	1071.30	1116.01	1138.86	1157.02	1188.73
1146.00	1072.27	1117.02	1139.87	1158.05	1189.79
1147.00	1073.24	1118.01	1140.90	1159.08	1190.84
1148.00	1074.21	1119.00	1141.91	1160.09	1191.88
1149.00	1075.18	1120.01	1142.93	1161.12	1192.94
1150.00	1076.15	1121.00	1143.94	1162.15	1194.00
1151.00	1077.12	1122.01	1144.95	1163.18	1195.03
1152.00	1078.11	1123.00	1145.96	1164.21	1196.09
1153.00	1079.08	1124.00	1146.97	1165.24	1197.13
1154.00	1080.05	1125.01	1147.99	1166.27	1198.19
1155.00	1081.02	1126.00	1149.00	1167.28	1199.25

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1156.00	1081.99	1127.01	1150.03	1168.31	1200.28
1157.00	1082.97	1128.00	1151.04	1169.34	1201.34
1158.00	1083.94	1129.00	1152.05	1170.37	1202.40
1159.00	1084.93	1130.01	1153.07	1171.40	1203.44
1160.00	1085.90	1131.00	1154.08	1172.43	1204.50
1161.00	1086.87	1132.01	1155.09	1173.44	1205.55
1162.00	1087.84	1133.00	1156.10	1174.47	1206.59
1163.00	1088.81	1133.99	1157.12	1175.50	1207.65
1164.00	1089.78	1135.00	1158.13	1176.53	1208.71
1165.00	1090.76	1136.00	1159.14	1177.56	1209.75
1166.00	1091.73	1136.99	1160.17	1178.59	1210.80
1167.00	1092.70	1138.00	1161.19	1179.62	1211.84
1168.00	1093.67	1138.99	1162.20	1180.63	1212.90
1169.00	1094.66	1139.99	1163.21	1181.66	1213.96
1170.00	1095.63	1141.00	1164.22	1182.69	1215.00
1171.00	1096.61	1141.99	1165.24	1183.72	1216.06
1172.00	1097.58	1143.00	1166.25	1184.75	1217.11
1173.00	1098.55	1144.00	1167.26	1185.76	1218.15
1174.00	1099.52	1144.99	1168.28	1186.79	1219.21
1175.00	1100.50	1146.00	1169.29	1187.83	1220.25
1176.00	1101.47	1146.99	1170.30	1188.86	1221.31
1177.00	1102.44	1147.99	1171.32	1189.89	1222.37
1178.00	1103.41	1149.00	1172.35	1190.92	1223.40
1179.00	1104.39	1149.99	1173.36	1191.93	1224.46
1180.00	1105.36	1150.98	1174.37	1192.96	1225.52
1181.00	1106.33	1152.00	1175.39	1193.99	1226.56
1182.00	1107.32	1152.99	1176.40	1195.02	1227.62
1183.00	1108.30	1153.98	1177.41	1196.05	1228.66
1184.00	1109.27	1154.99	1178.43	1197.06	1229.71
1185.00	1110.24	1155.99	1179.44	1198.09	1230.77
1186.00	1111.21	1156.98	1180.45	1199.12	1231.81
1187.00	1112.19	1157.99	1181.47	1200.16	1232.87
1188.00	1113.16	1158.99	1182.48	1201.19	1233.93
1189.00	1114.13	1159.98	1183.49	1202.22	1234.97
1190.00	1115.11	1160.99	1184.51	1203.23	1236.03
1191.00	1116.08	1161.99	1185.52	1204.26	1237.06
1192.00	1117.05	1162.98	1186.53	1205.29	1238.12
1193.00	1118.03	1163.99	1187.55	1206.32	1239.18
1194.00	1119.00	1164.99	1188.56	1207.35	1240.22
1195.00	1119.98	1165.98	1189.59	1208.36	1241.28
1196.00	1120.95	1166.99	1190.61	1209.40	1242.32
1197.00	1121.92	1167.99	1191.62	1210.43	1243.38
1198.00	1122.90	1168.98	1192.63	1211.46	1244.44
1199.00	1123.87	1169.97	1193.65	1212.49	1245.47
1200.00	1124.84	1170.99	1194.66	1213.50	1246.53
1201.00	1125.82	1171.98	1195.68	1214.53	1247.57

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1202.00	1126.79	1172.98	1196.69	1215.56	1248.63
1203.00	1127.77	1173.99	1197.70	1216.60	1249.69
1204.00	1128.74	1174.98	1198.72	1217.63	1250.73
1205.00	1129.72	1175.98	1199.73	1218.64	1251.79
1206.00	1130.69	1176.99	1200.75	1219.67	1252.83
1207.00	1131.66	1177.98	1201.76	1220.70	1253.89
1208.00	1132.64	1178.98	1202.77	1221.73	1254.95
1209.00	1133.61	1179.97	1203.79	1222.74	1255.98
1210.00	1134.59	1180.99	1204.80	1223.78	1257.04
1211.00	1135.56	1181.98	1205.82	1224.81	1258.08
1212.00	1136.54	1182.97	1206.83	1225.84	1259.14
1213.00	1137.51	1183.99	1207.85	1226.87	1260.20
1214.00	1138.49	1184.98	1208.86	1227.88	1261.24
1215.00	1139.46	1185.98	1209.87	1228.91	1262.30
1216.00	1140.44	1186.97	1210.89	1229.95	1263.34
1217.00	1141.41	1187.98	1211.90	1230.98	1264.40
1218.00	1142.39	1188.98	1212.92	1231.99	1265.46
1219.00	1143.36	1189.97	1213.93	1233.02	1266.50
1220.00	1144.34	1190.99	1214.95	1234.05	1267.55
1221.00	1145.31	1191.98	1215.96	1235.09	1268.59
1222.00	1146.29	1192.98	1216.97	1236.12	1269.65
1223.00	1147.26	1193.97	1217.99	1237.13	1270.69
1224.00	1148.24	1194.99	1219.00	1238.16	1271.75
1225.00	1149.21	1195.98	1220.02	1239.19	1272.81
1226.00	1150.17	1196.98	1221.03	1240.23	1273.85
1227.00	1151.15	1197.97	1222.05	1241.24	1274.91
1228.00	1152.12	1198.98	1223.06	1242.27	1275.95
1229.00	1153.10	1199.98	1224.08	1243.30	1277.01
1230.00	1154.07	1200.97	1225.09	1244.33	1278.05
1231.00	1155.05	1201.97	1226.11	1245.35	1279.11
1232.00	1156.02	1202.98	1227.12	1246.38	1280.17
1233.00	1157.00	1203.98	1228.14	1247.41	1281.21
1234.00	1157.98	1204.97	1229.15	1248.44	1282.27
1235.00	1158.95	1205.97	1230.17	1249.45	1283.31
1236.00	1159.93	1206.98	1231.18	1250.49	1284.37
1237.00	1160.90	1207.98	1232.20	1251.52	1285.43
1238.00	1161.88	1208.97	1233.21	1252.55	1286.46
1239.00	1162.86	1209.97	1234.23	1253.56	1287.52
1240.00	1163.82	1210.98	1235.24	1254.60	1288.56
1241.00	1164.79	1211.98	1236.26	1255.63	1289.62
1242.00	1165.77	1212.98	1237.27	1256.66	1290.66
1243.00	1166.74	1213.97	1238.29	1257.67	1291.72
1244.00	1167.72	1214.99	1239.30	1258.71	1292.76
1245.00	1168.70	1215.98	1240.32	1259.74	1293.82
1246.00	1169.67	1216.98	1241.33	1260.77	1294.88
1247.00	1170.65	1217.97	1242.35	1261.78	1295.92

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1248.00	1171.63	1218.97	1243.36	1262.82	1296.98
1249.00	1172.61	1219.98	1244.38	1263.85	1298.02
1250.00	1173.56	1220.98	1245.39	1264.88	1299.08
1251.00	1174.54	1221.98	1246.41	1265.89	1300.12
1252.00	1175.52	1222.97	1247.42	1266.93	1301.18
1253.00	1176.49	1223.99	1248.44	1267.96	1302.24
1254.00	1177.47	1224.98	1249.46	1268.99	1303.28
1255.00	1178.45	1225.98	1250.47	1270.00	1304.34
1256.00	1179.43	1226.97	1251.49	1271.04	1305.38
1257.00	1180.40	1227.97	1252.50	1272.07	1306.44
1258.00	1181.36	1228.99	1253.52	1273.10	1307.48
1259.00	1182.34	1229.98	1254.53	1274.12	1308.54
1260.00	1183.32	1230.98	1255.55	1275.15	1309.58
1261.00	1184.29	1231.97	1256.55	1276.18	1310.64
1262.00	1185.27	1232.97	1257.56	1277.19	1311.70
1263.00	1186.25	1233.99	1258.58	1278.23	1312.74
1264.00	1187.23	1234.98	1259.59	1279.26	1313.80
1265.00	1188.19	1235.98	1260.61	1280.29	1314.84
1266.00	1189.16	1236.98	1261.62	1281.31	1315.90
1267.00	1190.14	1237.97	1262.64	1282.34	1316.94
1268.00	1191.12	1238.99	1263.66	1283.37	1318.00
1269.00	1192.10	1239.98	1264.67	1284.41	1319.04
1270.00	1193.08	1240.98	1265.69	1285.42	1320.10
1271.00	1194.05	1241.98	1266.70	1286.45	1321.14
1272.00	1195.01	1242.97	1267.72	1287.49	1322.20
1273.00	1195.99	1243.99	1268.74	1288.50	1323.26
1274.00	1196.97	1244.99	1269.75	1289.53	1324.30
1275.00	1197.95	1245.98	1270.77	1290.56	1325.36
1276.00	1198.93	1246.98	1271.78	1291.60	1326.40
1277.00	1199.91	1247.98	1272.80	1292.61	1327.46
1278.00	1200.86	1248.97	1273.82	1293.64	1328.50
1279.00	1201.84	1249.99	1274.81	1294.68	1329.56
1280.00	1202.82	1250.99	1275.83	1295.69	1330.60
1281.00	1203.80	1251.98	1276.85	1296.72	1331.66
1282.00	1204.78	1252.98	1277.86	1297.76	1332.70
1283.00	1205.74	1253.98	1278.88	1298.77	1333.76
1284.00	1206.72	1254.97	1279.90	1299.80	1334.80
1285.00	1207.70	1255.99	1280.91	1300.84	1335.86
1286.00	1208.68	1256.99	1281.93	1301.87	1336.90
1287.00	1209.66	1257.98	1282.94	1302.88	1337.97
1288.00	1210.62	1258.98	1283.96	1303.92	1339.03
1289.00	1211.59	1259.98	1284.98	1304.95	1340.07
1290.00	1212.57	1260.98	1285.99	1305.96	1341.13
1291.00	1213.55	1261.99	1287.01	1307.00	1342.17
1292.00	1214.53	1262.99	1288.01	1308.03	1343.23
1293.00	1215.49	1263.99	1289.02	1309.07	1344.27

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1294.00	1216.47	1264.98	1290.04	1310.08	1345.33
1295.00	1217.45	1265.98	1291.06	1311.11	1346.37
1296.00	1218.43	1266.98	1292.07	1312.15	1347.43
1297.00	1219.41	1268.00	1293.09	1313.16	1348.47
1298.00	1220.37	1268.99	1294.11	1314.19	1349.53
1299.00	1221.35	1269.99	1295.13	1315.23	1350.57
1300.00	1222.33	1270.99	1296.14	1316.24	1351.63
1301.00	1223.31	1271.99	1297.16	1317.28	1352.67
1302.00	1224.27	1272.98	1298.18	1318.31	1353.73
1303.00	1225.25	1273.98	1299.19	1319.32	1354.77
1304.00	1226.23	1275.00	1300.19	1320.36	1355.84
1305.00	1227.21	1276.00	1301.21	1321.39	1356.88
1306.00	1228.19	1276.99	1302.22	1322.43	1357.94
1307.00	1229.15	1277.99	1303.24	1323.44	1358.98
1308.00	1230.13	1278.99	1304.26	1324.47	1360.04
1309.00	1231.11	1279.99	1305.27	1325.51	1361.10
1310.00	1232.09	1280.99	1306.29	1326.52	1362.14
1311.00	1233.05	1281.98	1307.31	1327.55	1363.20
1312.00	1234.03	1283.00	1308.33	1328.59	1364.24
1313.00	1235.01	1284.00	1309.32	1329.60	1365.30
1314.00	1236.00	1285.00	1310.34	1330.64	1366.34
1315.00	1236.96	1286.00	1311.36	1331.67	1367.41
1316.00	1237.94	1286.99	1312.38	1332.68	1368.45
1317.00	1238.92	1287.99	1313.39	1333.72	1369.51
1318.00	1239.90	1288.99	1314.41	1334.75	1370.55
1319.00	1240.86	1289.99	1315.43	1335.77	1371.61
1320.00	1241.84	1291.01	1316.45	1336.80	1372.65
1321.00	1242.82	1292.00	1317.46	1337.84	1373.71
1322.00	1243.78	1293.00	1318.46	1338.85	1374.75
1323.00	1244.76	1294.00	1319.48	1339.88	1375.81
1324.00	1245.75	1295.00	1320.49	1340.92	1376.85
1325.00	1246.73	1296.00	1321.51	1341.93	1377.92
1326.00	1247.69	1297.00	1322.53	1342.97	1378.96
1327.00	1248.67	1297.99	1323.55	1344.00	1380.02
1328.00	1249.65	1298.99	1324.57	1345.01	1381.06
1329.00	1250.63	1300.01	1325.58	1346.05	1382.12
1330.00	1251.59	1301.01	1326.58	1347.08	1383.16
1331.00	1252.58	1302.01	1327.60	1348.10	1384.22
1332.00	1253.56	1303.01	1328.62	1349.13	1385.26
1333.00	1254.52	1304.01	1329.63	1350.17	1386.32
1334.00	1255.50	1305.00	1330.65	1351.18	1387.36
1335.00	1256.48	1306.00	1331.67	1352.22	1388.43
1336.00	1257.44	1307.00	1332.69	1353.25	1389.47
1337.00	1258.43	1308.00	1333.71	1354.26	1390.53
1338.00	1259.41	1309.00	1334.70	1355.30	1391.57
1339.00	1260.39	1310.02	1335.72	1356.34	1392.63

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1340.00	1261.35	1311.02	1336.74	1357.35	1393.67
1341.00	1262.33	1312.02	1337.76	1358.38	1394.73
1342.00	1263.32	1313.01	1338.77	1359.42	1395.77
1343.00	1264.28	1314.01	1339.79	1360.43	1396.84
1344.00	1265.26	1315.01	1340.81	1361.47	1397.88
1345.00	1266.24	1316.01	1341.81	1362.50	1398.94
1346.00	1267.20	1317.01	1342.83	1363.52	1399.98
1347.00	1268.19	1318.01	1343.85	1364.55	1401.04
1348.00	1269.17	1319.01	1344.86	1365.56	1402.08
1349.00	1270.13	1320.01	1345.88	1366.60	1403.15
1350.00	1271.11	1321.01	1346.90	1367.64	1404.19
1351.00	1272.10	1322.03	1347.92	1368.65	1405.25
1352.00	1273.06	1323.03	1348.92	1369.69	1406.29
1353.00	1274.04	1324.02	1349.93	1370.72	1407.33
1354.00	1275.03	1325.02	1350.95	1371.73	1408.39
1355.00	1275.99	1326.02	1351.97	1372.77	1409.43
1356.00	1276.97	1327.02	1352.99	1373.81	1410.49
1357.00	1277.95	1328.02	1354.01	1374.82	1411.53
1358.00	1278.92	1329.02	1355.01	1375.85	1412.60
1359.00	1279.90	1330.02	1356.02	1376.89	1413.64
1360.00	1280.88	1331.02	1357.04	1377.90	1414.70
1361.00	1281.85	1332.02	1358.06	1378.94	1415.74
1362.00	1282.83	1333.02	1359.08	1379.95	1416.80
1363.00	1283.81	1334.02	1360.10	1380.99	1417.84
1364.00	1284.78	1335.02	1361.12	1382.03	1418.91
1365.00	1285.76	1336.02	1362.12	1383.04	1419.95
1366.00	1286.74	1337.04	1363.13	1384.07	1421.01
1367.00	1287.71	1338.04	1364.15	1385.11	1422.05
1368.00	1288.69	1339.04	1365.17	1386.12	1423.11
1369.00	1289.67	1340.04	1366.19	1387.16	1424.16
1370.00	1290.64	1341.04	1367.21	1388.20	1425.22
1371.00	1291.62	1342.04	1368.21	1389.21	1426.26
1372.00	1292.60	1343.04	1369.23	1390.25	1427.32
1373.00	1293.57	1344.04	1370.25	1391.26	1428.36
1374.00	1294.55	1345.04	1371.26	1392.30	1429.43
1375.00	1295.51	1346.04	1372.28	1393.33	1430.47
1376.00	1296.50	1347.04	1373.28	1394.35	1431.51
1377.00	1297.48	1348.04	1374.30	1395.38	1432.57
1378.00	1298.45	1349.04	1375.32	1396.42	1433.61
1379.00	1299.43	1350.04	1376.34	1397.43	1434.67
1380.00	1300.41	1351.04	1377.36	1398.47	1435.71
1381.00	1301.38	1352.04	1378.38	1399.48	1436.78
1382.00	1302.36	1353.04	1379.37	1400.52	1437.82
1383.00	1303.33	1354.04	1380.39	1401.55	1438.88
1384.00	1304.31	1355.04	1381.41	1402.57	1439.92
1385.00	1305.30	1356.04	1382.43	1403.60	1440.99

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1386.00	1306.26	1357.04	1383.45	1404.64	1442.03
1387.00	1307.24	1358.04	1384.45	1405.66	1443.09
1388.00	1308.21	1359.04	1385.47	1406.69	1444.13
1389.00	1309.19	1360.06	1386.49	1407.71	1445.19
1390.00	1310.18	1361.06	1387.51	1408.74	1446.23
1391.00	1311.14	1362.06	1388.53	1409.78	1447.27
1392.00	1312.13	1363.06	1389.55	1410.79	1448.34
1393.00	1313.09	1364.06	1390.55	1411.83	1449.38
1394.00	1314.08	1365.06	1391.56	1412.84	1450.44
1395.00	1315.06	1366.06	1392.58	1413.88	1451.48
1396.00	1316.02	1367.06	1393.60	1414.92	1452.55
1397.00	1317.01	1368.06	1394.62	1415.93	1453.59
1398.00	1317.97	1369.06	1395.62	1416.97	1454.65
1399.00	1318.96	1370.06	1396.64	1418.00	1455.69
1400.00	1319.94	1371.06	1397.66	1419.02	1456.76
1401.00	1320.91	1372.07	1398.68	1420.05	1457.80
1402.00	1321.89	1373.07	1399.70	1421.07	1458.84
1403.00	1322.86	1374.07	1400.70	1422.11	1459.90
1404.00	1323.84	1375.07	1401.72	1423.14	1460.94
1405.00	1324.81	1376.07	1402.74	1424.16	1462.01
1406.00	1325.79	1377.07	1403.76	1425.19	1463.05
1407.00	1326.78	1378.07	1404.78	1426.21	1464.11
1408.00	1327.75	1379.07	1405.78	1427.24	1465.15
1409.00	1328.73	1380.07	1406.80	1428.28	1466.22
1410.00	1329.70	1381.07	1407.82	1429.30	1467.26
1411.00	1330.68	1382.07	1408.84	1430.33	1468.32
1412.00	1331.65	1383.08	1409.86	1431.35	1469.36
1413.00	1332.63	1384.08	1410.85	1432.38	1470.40
1414.00	1333.62	1385.08	1411.87	1433.42	1471.47
1415.00	1334.58	1386.08	1412.89	1434.44	1472.51
1416.00	1335.57	1387.08	1413.92	1435.47	1473.57
1417.00	1336.53	1388.08	1414.91	1436.49	1474.61
1418.00	1337.52	1389.08	1415.93	1437.52	1475.68
1419.00	1338.49	1390.08	1416.95	1438.56	1476.72
1420.00	1339.47	1391.08	1417.97	1439.58	1477.78
1421.00	1340.44	1392.09	1418.99	1440.61	1478.82
1422.00	1341.42	1393.09	1419.99	1441.63	1479.86
1423.00	1342.41	1394.09	1421.01	1442.66	1480.93
1424.00	1343.38	1395.09	1422.03	1443.68	1481.97
1425.00	1344.36	1396.09	1423.05	1444.72	1483.03
1426.00	1345.33	1397.09	1424.05	1445.75	1484.07
1427.00	1346.32	1398.09	1425.07	1446.77	1485.14
1428.00	1347.28	1399.10	1426.09	1447.81	1486.18
1429.00	1348.27	1400.10	1427.11	1448.82	1487.24
1430.00	1349.23	1401.10	1428.13	1449.86	1488.28
1431.00	1350.22	1402.10	1429.13	1450.90	1489.33

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1432.00	1351.19	1403.10	1430.15	1451.91	1490.39
1433.00	1352.17	1404.10	1431.17	1452.95	1491.43
1434.00	1353.14	1405.11	1432.19	1453.96	1492.50
1435.00	1354.13	1406.11	1433.19	1455.00	1493.54
1436.00	1355.09	1407.09	1434.21	1456.01	1494.60
1437.00	1356.08	1408.09	1435.23	1457.05	1495.64
1438.00	1357.04	1409.09	1436.26	1458.09	1496.68
1439.00	1358.03	1410.09	1437.25	1459.10	1497.75
1440.00	1359.02	1411.10	1438.28	1460.14	1498.79
1441.00	1359.99	1412.10	1439.30	1461.16	1499.85
1442.00	1360.97	1413.10	1440.32	1462.19	1500.89
1443.00	1361.94	1414.10	1441.34	1463.23	1501.96
1444.00	1362.93	1415.10	1442.34	1464.25	1503.00
1445.00	1363.89	1416.10	1443.36	1465.28	1504.07
1446.00	1364.88	1417.11	1444.38	1466.30	1505.11
1447.00	1365.85	1418.11	1445.40	1467.34	1506.15
1448.00	1366.84	1419.11	1446.40	1468.35	1507.21
1449.00	1367.80	1420.11	1447.42	1469.39	1508.25
1450.00	1368.79	1421.12	1448.44	1470.43	1509.32
1451.00	1369.76	1422.12	1449.46	1471.44	1510.36
1452.00	1370.74	1423.12	1450.46	1472.48	1511.43
1453.00	1371.71	1424.12	1451.48	1473.49	1512.47
1454.00	1372.70	1425.12	1452.50	1474.53	1513.51
1455.00	1373.66	1426.13	1453.52	1475.55	1514.57
1456.00	1374.65	1427.13	1454.52	1476.59	1515.61
1457.00	1375.62	1428.13	1455.54	1477.62	1516.68
1458.00	1376.61	1429.13	1456.57	1478.64	1517.72
1459.00	1377.57	1430.14	1457.59	1479.68	1518.76
1460.00	1378.54	1431.14	1458.59	1480.69	1519.83
1461.00	1379.53	1432.12	1459.61	1481.73	1520.87
1462.00	1380.50	1433.12	1460.63	1482.74	1521.93
1463.00	1381.49	1434.12	1461.65	1483.78	1522.97
1464.00	1382.45	1435.13	1462.65	1484.80	1524.04
1465.00	1383.44	1436.13	1463.67	1485.84	1525.08
1466.00	1384.41	1437.13	1464.69	1486.87	1526.12
1467.00	1385.40	1438.14	1465.69	1487.89	1527.19
1468.00	1386.36	1439.14	1466.71	1488.93	1528.23
1469.00	1387.35	1440.14	1467.73	1489.94	1529.29
1470.00	1388.32	1441.14	1468.76	1490.98	1530.33
1471.00	1389.31	1442.15	1469.75	1491.99	1531.40
1472.00	1390.28	1443.15	1470.78	1493.03	1532.44
1473.00	1391.27	1444.15	1471.80	1494.05	1533.48
1474.00	1392.23	1445.15	1472.82	1495.09	1534.55
1475.00	1393.22	1446.16	1473.82	1496.13	1535.59
1476.00	1394.19	1447.16	1474.84	1497.14	1536.66
1477.00	1395.16	1448.14	1475.86	1498.18	1537.70

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1478.00	1396.15	1449.14	1476.88	1499.19	1538.74
1479.00	1397.11	1450.15	1477.88	1500.23	1539.80
1480.00	1398.10	1451.15	1478.90	1501.25	1540.84
1481.00	1399.07	1452.15	1479.93	1502.29	1541.91
1482.00	1400.06	1453.16	1480.93	1503.30	1542.95
1483.00	1401.03	1454.16	1481.95	1504.34	1543.99
1484.00	1402.02	1455.16	1482.97	1505.38	1545.06
1485.00	1402.98	1456.17	1483.99	1506.39	1546.10
1486.00	1403.97	1457.17	1484.99	1507.43	1547.17
1487.00	1404.94	1458.17	1486.01	1508.45	1548.21
1488.00	1405.91	1459.18	1487.04	1509.49	1549.27
1489.00	1406.90	1460.18	1488.06	1510.50	1550.31
1490.00	1407.87	1461.16	1489.06	1511.54	1551.36
1491.00	1408.86	1462.16	1490.08	1512.56	1552.42
1492.00	1409.83	1463.17	1491.10	1513.59	1553.46
1493.00	1410.82	1464.17	1492.10	1514.61	1554.53
1494.00	1411.78	1465.17	1493.12	1515.65	1555.57
1495.00	1412.75	1466.18	1494.14	1516.69	1556.61
1496.00	1413.74	1467.18	1495.17	1517.70	1557.68
1497.00	1414.71	1468.18	1496.17	1518.74	1558.72
1498.00	1415.70	1469.19	1497.19	1519.76	1559.79
1499.00	1416.67	1470.19	1498.21	1520.80	1560.83
1500.00	1417.66	1471.20	1499.21	1521.81	1561.87
1501.00	1418.63	1472.18	1500.23	1522.85	1562.93
1502.00	1419.60	1473.18	1501.26	1523.87	1563.98
1503.00	1420.59	1474.18	1502.28	1524.91	1565.04
1504.00	1421.55	1475.19	1503.28	1525.92	1566.08
1505.00	1422.55	1476.19	1504.30	1526.96	1567.12
1506.00	1423.51	1477.19	1505.32	1527.97	1568.19
1507.00	1424.51	1478.20	1506.32	1529.01	1569.23
1508.00	1425.47	1479.20	1507.34	1530.05	1570.30
1509.00	1426.44	1480.21	1508.37	1531.07	1571.34
1510.00	1427.43	1481.21	1509.37	1532.11	1572.38
1511.00	1428.40	1482.19	1510.39	1533.12	1573.45
1512.00	1429.39	1483.20	1511.41	1534.16	1574.49
1513.00	1430.36	1484.20	1512.43	1535.18	1575.56
1514.00	1431.33	1485.20	1513.43	1536.22	1576.60
1515.00	1432.32	1486.21	1514.46	1537.23	1577.64
1516.00	1433.29	1487.21	1515.48	1538.27	1578.71
1517.00	1434.28	1488.22	1516.48	1539.29	1579.75
1518.00	1435.25	1489.22	1517.51	1540.33	1580.81
1519.00	1436.22	1490.22	1518.51	1541.34	1581.86
1520.00	1437.21	1491.21	1519.51	1542.38	1582.90
1521.00	1438.18	1492.21	1520.56	1543.40	1583.96
1522.00	1439.17	1493.21	1521.56	1544.44	1585.01
1523.00	1440.14	1494.22	1522.60	1545.45	1586.05

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1524.00	1441.11	1495.22	1523.60	1546.49	1587.11
1525.00	1442.10	1496.23	1524.60	1547.53	1588.16
1526.00	1443.07	1497.23	1525.65	1548.55	1589.22
1527.00	1444.06	1498.24	1526.65	1549.59	1590.26
1528.00	1445.03	1499.24	1527.65	1550.60	1591.30
1529.00	1446.00	1500.22	1528.70	1551.64	1592.37
1530.00	1446.99	1501.23	1529.70	1552.66	1593.41
1531.00	1447.96	1502.23	1530.70	1553.70	1594.48
1532.00	1448.93	1503.24	1531.74	1554.71	1595.52
1533.00	1449.92	1504.24	1532.74	1555.75	1596.56
1534.00	1450.89	1505.24	1533.74	1556.77	1597.63
1535.00	1451.89	1506.25	1534.79	1557.81	1598.67
1536.00	1452.86	1507.25	1535.79	1558.82	1599.74
1537.00	1453.82	1508.24	1536.79	1559.87	1600.78
1538.00	1454.82	1509.24	1537.84	1560.88	1601.82
1539.00	1455.79	1510.24	1538.84	1561.92	1602.89
1540.00	1456.76	1511.25	1539.84	1562.94	1603.93
1541.00	1457.75	1512.25	1540.88	1563.98	1604.97
1542.00	1458.72	1513.26	1541.88	1564.99	1606.04
1543.00	1459.69	1514.26	1542.88	1566.03	1607.08
1544.00	1460.68	1515.27	1543.93	1567.05	1608.15
1545.00	1461.65	1516.25	1544.93	1568.09	1609.19
1546.00	1462.64	1517.24	1545.93	1569.10	1610.23
1547.00	1463.61	1518.27	1546.98	1570.14	1611.30
1548.00	1464.58	1519.25	1547.98	1571.16	1612.34
1549.00	1465.58	1520.28	1548.98	1572.20	1613.38
1550.00	1466.55	1521.26	1550.01	1573.21	1614.45
1551.00	1467.52	1522.29	1551.03	1574.26	1615.49
1552.00	1468.51	1523.27	1552.03	1575.27	1616.56
1553.00	1469.48	1524.26	1553.06	1576.31	1617.60
1554.00	1470.45	1525.28	1554.09	1577.33	1618.64
1555.00	1471.44	1526.27	1555.09	1578.37	1619.71
1556.00	1472.41	1527.30	1556.11	1579.38	1620.75
1557.00	1473.38	1528.28	1557.11	1580.42	1621.82
1558.00	1474.38	1529.31	1558.14	1581.44	1622.86
1559.00	1475.35	1530.29	1559.17	1582.48	1623.90
1560.00	1476.32	1531.27	1560.17	1583.50	1624.97
1561.00	1477.31	1532.30	1561.19	1584.54	1626.01
1562.00	1478.28	1533.28	1562.19	1585.55	1627.05
1563.00	1479.25	1534.31	1563.22	1586.59	1628.12
1564.00	1480.25	1535.29	1564.24	1587.61	1629.16
1565.00	1481.22	1536.27	1565.24	1588.65	1630.21
1566.00	1482.19	1537.30	1566.27	1589.66	1631.27
1567.00	1483.18	1538.28	1567.27	1590.71	1632.32
1568.00	1484.15	1539.31	1568.30	1591.72	1633.38
1569.00	1485.12	1540.29	1569.32	1592.76	1634.42

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1570.00	1486.12	1541.32	1570.32	1593.78	1635.47
1571.00	1487.09	1542.31	1571.35	1594.82	1636.53
1572.00	1488.06	1543.29	1572.35	1595.83	1637.58
1573.00	1489.05	1544.32	1573.38	1596.88	1638.62
1574.00	1490.02	1545.30	1574.40	1597.89	1639.69
1575.00	1490.99	1546.33	1575.40	1598.93	1640.73
1576.00	1491.99	1547.31	1576.43	1599.95	1641.80
1577.00	1492.96	1548.34	1577.43	1600.99	1642.84
1578.00	1493.93	1549.32	1578.46	1602.00	1643.88
1579.00	1494.93	1550.30	1579.49	1603.05	1644.95
1580.00	1495.90	1551.33	1580.49	1604.06	1645.99
1581.00	1496.87	1552.32	1581.51	1605.10	1647.03
1582.00	1497.86	1553.35	1582.51	1606.12	1648.10
1583.00	1498.83	1554.33	1583.54	1607.16	1649.14
1584.00	1499.80	1555.31	1584.57	1608.18	1650.18
1585.00	1500.80	1556.34	1585.57	1609.22	1651.25
1586.00	1501.77	1557.32	1586.59	1610.23	1652.29
1587.00	1502.74	1558.35	1587.59	1611.28	1653.36
1588.00	1503.71	1559.33	1588.62	1612.29	1654.40
1589.00	1504.71	1560.32	1589.65	1613.33	1655.45
1590.00	1505.68	1561.35	1590.65	1614.35	1656.51
1591.00	1506.65	1562.33	1591.68	1615.39	1657.56
1592.00	1507.65	1563.36	1592.68	1616.40	1658.60
1593.00	1508.62	1564.34	1593.70	1617.45	1659.67
1594.00	1509.59	1565.37	1594.70	1618.46	1660.71
1595.00	1510.58	1566.35	1595.73	1619.50	1661.75
1596.00	1511.56	1567.34	1596.76	1620.52	1662.82
1597.00	1512.53	1568.37	1597.76	1621.56	1663.86
1598.00	1513.50	1569.35	1598.79	1622.58	1664.93
1599.00	1514.49	1570.38	1599.79	1623.62	1665.97
1600.00	1515.47	1571.36	1600.81	1624.64	1667.01
1601.00	1516.44	1572.34	1601.84	1625.68	1668.08
1602.00	1517.45	1573.38	1602.84	1626.69	1669.14
1603.00	1518.39	1574.36	1603.87	1627.74	1670.18
1604.00	1519.39	1575.39	1604.87	1628.75	1671.22
1605.00	1520.34	1576.37	1605.90	1629.77	1672.26
1606.00	1521.33	1577.35	1606.90	1630.81	1673.30
1607.00	1522.33	1578.38	1607.93	1631.82	1674.40
1608.00	1523.28	1579.37	1608.95	1632.87	1675.44
1609.00	1524.27	1580.40	1609.95	1633.88	1676.48
1610.00	1525.27	1581.38	1610.98	1634.92	1677.53
1611.00	1526.22	1582.36	1611.98	1635.94	1678.57
1612.00	1527.21	1583.39	1613.01	1636.98	1679.66
1613.00	1528.21	1584.38	1614.01	1638.00	1680.71
1614.00	1529.16	1585.41	1615.04	1639.04	1681.75
1615.00	1530.15	1586.39	1616.07	1640.06	1682.79

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1616.00	1531.10	1587.37	1617.07	1641.10	1683.83
1617.00	1532.10	1588.40	1618.09	1642.11	1684.87
1618.00	1533.10	1589.39	1619.09	1643.16	1685.97
1619.00	1534.04	1590.42	1620.12	1644.17	1687.01
1620.00	1535.04	1591.40	1621.12	1645.21	1688.05
1621.00	1536.04	1592.38	1622.15	1646.23	1689.10
1622.00	1536.98	1593.41	1623.18	1647.27	1690.14
1623.00	1537.98	1594.40	1624.18	1648.29	1691.18
1624.00	1538.98	1595.43	1625.21	1649.30	1692.28
1625.00	1539.93	1596.41	1626.21	1650.35	1693.32
1626.00	1540.92	1597.39	1627.24	1651.36	1694.36
1627.00	1541.87	1598.43	1628.24	1652.41	1695.40
1628.00	1542.87	1599.41	1629.27	1653.42	1696.45
1629.00	1543.87	1600.44	1630.27	1654.46	1697.49
1630.00	1544.81	1601.42	1631.29	1655.48	1698.58
1631.00	1545.81	1602.40	1632.32	1656.52	1699.63
1632.00	1546.81	1603.44	1633.32	1657.54	1700.67
1633.00	1547.76	1604.42	1634.35	1658.58	1701.71
1634.00	1548.75	1605.45	1635.35	1659.60	1702.75
1635.00	1549.70	1606.43	1636.38	1660.64	1703.85
1636.00	1550.70	1607.42	1637.38	1661.66	1704.89
1637.00	1551.70	1608.45	1638.41	1662.70	1705.93
1638.00	1552.65	1609.43	1639.44	1663.72	1706.98
1639.00	1553.64	1610.46	1640.44	1664.73	1708.02
1640.00	1554.64	1611.45	1641.47	1665.77	1709.06
1641.00	1555.59	1612.43	1642.47	1666.79	1710.16
1642.00	1556.59	1613.46	1643.50	1667.83	1711.20
1643.00	1557.54	1614.45	1644.50	1668.85	1712.24
1644.00	1558.53	1615.48	1645.53	1669.91	1713.28
1645.00	1559.53	1616.46	1646.53	1670.92	1714.33
1646.00	1560.48	1617.44	1647.56	1671.94	1715.37
1647.00	1561.48	1618.48	1648.56	1672.95	1716.47
1648.00	1562.43	1619.46	1649.59	1674.02	1717.51
1649.00	1563.42	1620.44	1650.61	1675.04	1718.55
1650.00	1564.42	1621.47	1651.62	1676.06	1719.59
1651.00	1565.37	1622.46	1652.64	1677.07	1720.63
1652.00	1566.37	1623.49	1653.64	1678.09	1721.68
1653.00	1567.37	1624.47	1654.67	1679.16	1722.77
1654.00	1568.32	1625.46	1655.67	1680.17	1723.82
1655.00	1569.32	1626.49	1656.70	1681.19	1724.86
1656.00	1570.26	1627.47	1657.70	1682.21	1725.90
1657.00	1571.26	1628.51	1658.73	1683.28	1726.94
1658.00	1572.26	1629.49	1659.76	1684.29	1727.98
1659.00	1573.21	1630.47	1660.76	1685.31	1729.08
1660.00	1574.21	1631.50	1661.79	1686.33	1730.13
1661.00	1575.16	1632.49	1662.79	1687.34	1731.17

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1662.00	1576.16	1633.47	1663.82	1688.41	1732.21
1663.00	1577.16	1634.50	1664.82	1689.43	1733.25
1664.00	1578.10	1635.49	1665.85	1690.44	1734.29
1665.00	1579.10	1636.52	1666.85	1691.46	1735.39
1666.00	1580.05	1637.50	1667.88	1692.53	1736.43
1667.00	1581.05	1638.49	1668.88	1693.55	1737.48
1668.00	1582.05	1639.52	1669.93	1694.56	1738.52
1669.00	1583.00	1640.50	1670.93	1695.58	1739.56
1670.00	1584.00	1641.54	1671.93	1696.60	1740.60
1671.00	1584.95	1642.52	1672.99	1697.67	1741.70
1672.00	1585.95	1643.50	1673.99	1698.68	1742.74
1673.00	1586.95	1644.54	1674.99	1699.70	1743.79
1674.00	1587.89	1645.52	1675.99	1700.72	1744.83
1675.00	1588.89	1646.50	1677.05	1701.79	1745.87
1676.00	1589.84	1647.54	1678.05	1702.80	1746.91
1677.00	1590.84	1648.52	1679.05	1703.82	1748.01
1678.00	1591.84	1649.55	1680.05	1704.84	1749.05
1679.00	1592.79	1650.54	1681.11	1705.85	1750.10
1680.00	1593.79	1651.52	1682.11	1706.92	1751.14
1681.00	1594.74	1652.55	1683.11	1707.94	1752.18
1682.00	1595.74	1653.54	1684.11	1708.96	1753.22
1683.00	1596.74	1654.52	1685.17	1709.97	1754.32
1684.00	1597.69	1655.55	1686.17	1711.04	1755.36
1685.00	1598.69	1656.54	1687.17	1712.06	1756.41
1686.00	1599.64	1657.57	1688.23	1713.08	1757.45
1687.00	1600.64	1658.56	1689.23	1714.09	1758.49
1688.00	1601.64	1659.54	1690.23	1715.11	1759.53
1689.00	1602.59	1660.57	1691.23	1716.18	1760.58
1690.00	1603.59	1661.56	1692.29	1717.20	1761.68
1691.00	1604.54	1662.54	1693.29	1718.21	1762.72
1692.00	1605.54	1663.57	1694.30	1719.23	1763.76
1693.00	1606.54	1664.56	1695.30	1720.30	1764.80
1694.00	1607.49	1665.59	1696.35	1721.32	1765.85
1695.00	1608.49	1666.58	1697.36	1722.34	1766.89
1696.00	1609.44	1667.56	1698.36	1723.35	1767.99
1697.00	1610.44	1668.59	1699.36	1724.37	1769.03
1698.00	1611.38	1669.58	1700.42	1725.44	1770.07
1699.00	1612.39	1670.56	1701.42	1726.46	1771.11
1700.00	1613.39	1671.60	1702.42	1727.47	1772.16
1701.00	1614.34	1672.58	1703.42	1728.49	1773.20
1702.00	1615.34	1673.56	1704.48	1729.51	1774.30
1703.00	1616.29	1674.60	1705.48	1730.58	1775.34
1704.00	1617.29	1675.58	1706.48	1731.59	1776.38
1705.00	1618.29	1676.62	1707.54	1732.61	1777.43
1706.00	1619.24	1677.60	1708.54	1733.63	1778.47
1707.00	1620.24	1678.58	1709.54	1734.70	1779.51

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1708.00	1621.19	1679.62	1710.55	1735.72	1780.61
1709.00	1622.19	1680.60	1711.61	1736.73	1781.65
1710.00	1623.14	1681.59	1712.61	1737.75	1782.70
1711.00	1624.14	1682.62	1713.61	1738.77	1783.74
1712.00	1625.14	1683.60	1714.61	1739.84	1784.78
1713.00	1626.09	1684.64	1715.67	1740.86	1785.82
1714.00	1627.09	1685.62	1716.67	1741.87	1786.87
1715.00	1628.04	1686.61	1717.67	1742.89	1787.97
1716.00	1629.04	1687.64	1718.67	1743.90	1789.01
1717.00	1630.04	1688.63	1719.73	1744.98	1790.05
1718.00	1630.99	1689.61	1720.73	1745.99	1791.09
1719.00	1632.00	1690.65	1721.74	1747.01	1792.14
1720.00	1632.94	1691.63	1722.74	1748.03	1793.18
1721.00	1633.95	1692.61	1723.80	1749.10	1794.28
1722.00	1634.90	1693.65	1724.80	1750.12	1795.32
1723.00	1635.90	1694.63	1725.80	1751.13	1796.36
1724.00	1636.90	1695.62	1726.80	1752.15	1797.41
1725.00	1637.85	1696.65	1727.86	1753.17	1798.45
1726.00	1638.85	1697.64	1728.86	1754.24	1799.49
1727.00	1639.80	1698.67	1729.86	1755.26	1800.59
1728.00	1640.80	1699.66	1730.87	1756.27	1801.64
1729.00	1641.75	1700.64	1731.93	1757.29	1802.68
1730.00	1642.76	1701.68	1732.93	1758.31	1803.72
1731.00	1643.76	1702.66	1733.93	1759.38	1804.76
1732.00	1644.71	1703.64	1734.93	1760.40	1805.81
1733.00	1645.71	1704.68	1735.99	1761.41	1806.85
1734.00	1646.66	1705.66	1736.99	1762.43	1807.95
1735.00	1647.66	1706.65	1737.99	1763.45	1808.99
1736.00	1648.61	1707.68	1739.00	1764.52	1810.03
1737.00	1649.61	1708.67	1740.06	1765.54	1811.08
1738.00	1650.62	1709.70	1741.06	1766.55	1812.12
1739.00	1651.57	1710.69	1742.06	1767.57	1813.16
1740.00	1652.57	1711.67	1743.06	1768.65	1814.26
1741.00	1653.52	1712.71	1744.12	1769.66	1815.31
1742.00	1654.52	1713.69	1745.12	1770.68	1816.35
1743.00	1655.47	1714.68	1746.13	1771.69	1817.39
1744.00	1656.48	1715.71	1747.13	1772.71	1818.43
1745.00	1657.48	1716.70	1748.19	1773.79	1819.48
1746.00	1658.43	1717.68	1749.19	1774.80	1820.52
1747.00	1659.43	1718.72	1750.19	1775.82	1821.62
1748.00	1660.38	1719.70	1751.19	1776.84	1822.66
1749.00	1661.38	1720.68	1752.25	1777.85	1823.71
1750.00	1662.33	1721.72	1753.26	1778.93	1824.75
1751.00	1663.34	1722.71	1754.26	1779.94	1825.79
1752.00	1664.29	1723.69	1755.26	1780.96	1826.83
1753.00	1665.29	1724.73	1756.32	1781.98	1827.94

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1754.00	1666.29	1725.71	1757.32	1782.99	1828.98
1755.00	1667.24	1726.75	1758.32	1784.07	1830.02
1756.00	1668.25	1727.73	1759.33	1785.09	1831.06
1757.00	1669.20	1728.72	1760.39	1786.10	1832.11
1758.00	1670.20	1729.75	1761.39	1787.12	1833.15
1759.00	1671.15	1730.74	1762.39	1788.14	1834.19
1760.00	1672.16	1731.72	1763.39	1789.21	1835.29
1761.00	1673.11	1732.76	1764.45	1790.23	1836.34
1762.00	1674.11	1733.74	1765.45	1791.24	1837.38
1763.00	1675.11	1734.73	1766.46	1792.26	1838.42
1764.00	1676.06	1735.76	1767.46	1793.28	1839.47
1765.00	1677.07	1736.75	1768.52	1794.35	1840.51
1766.00	1678.02	1737.73	1769.52	1795.37	1841.55
1767.00	1679.02	1738.77	1770.52	1796.39	1842.65
1768.00	1679.97	1739.75	1771.53	1797.40	1843.70
1769.00	1680.98	1740.74	1772.59	1798.42	1844.74
1770.00	1681.93	1741.78	1773.59	1799.50	1845.78
1771.00	1682.93	1742.76	1774.59	1800.51	1846.82
1772.00	1683.94	1743.74	1775.59	1801.53	1847.87
1773.00	1684.89	1744.78	1776.66	1802.55	1848.91
1774.00	1685.89	1745.77	1777.66	1803.56	1850.01
1775.00	1686.84	1746.75	1778.66	1804.64	1851.06
1776.00	1687.85	1747.79	1779.66	1805.66	1852.10
1777.00	1688.80	1748.77	1780.72	1806.67	1853.14
1778.00	1689.80	1749.76	1781.73	1807.69	1854.18
1779.00	1690.75	1750.80	1782.73	1808.71	1855.23
1780.00	1691.76	1751.78	1783.73	1809.78	1856.33
1781.00	1692.71	1752.76	1784.79	1810.80	1857.37
1782.00	1693.71	1753.80	1785.79	1811.82	1858.42
1783.00	1694.72	1754.79	1786.80	1812.83	1859.46
1784.00	1695.67	1755.83	1787.80	1813.85	1860.50
1785.00	1696.67	1756.81	1788.86	1814.93	1861.54
1786.00	1697.62	1757.79	1789.86	1815.94	1862.59
1787.00	1698.63	1758.83	1790.86	1816.96	1863.69
1788.00	1699.58	1759.82	1791.87	1817.98	1864.73
1789.00	1700.58	1760.80	1792.87	1818.99	1865.78
1790.00	1701.53	1761.84	1793.93	1820.07	1866.82
1791.00	1702.54	1762.82	1794.93	1821.09	1867.86
1792.00	1703.49	1763.81	1795.93	1822.10	1868.90
1793.00	1704.49	1764.85	1796.94	1823.12	1869.95
1794.00	1705.50	1765.83	1798.00	1824.14	1871.05
1795.00	1706.45	1766.82	1799.00	1825.21	1872.09
1796.00	1707.46	1767.86	1800.00	1826.23	1873.14
1797.00	1708.41	1768.84	1801.01	1827.25	1874.18
1798.00	1709.41	1769.82	1802.07	1828.26	1875.22
1799.00	1710.36	1770.86	1803.07	1829.28	1876.27

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1800.00	1711.37	1771.85	1804.07	1830.36	1877.31
1801.00	1712.32	1772.83	1805.08	1831.37	1878.41
1802.00	1713.32	1773.87	1806.14	1832.39	1879.45
1803.00	1714.28	1774.86	1807.14	1833.41	1880.50
1804.00	1715.28	1775.84	1808.14	1834.43	1881.54
1805.00	1716.23	1776.88	1809.15	1835.50	1882.58
1806.00	1717.24	1777.86	1810.21	1836.52	1883.63
1807.00	1718.19	1778.85	1811.21	1837.54	1884.67
1808.00	1719.19	1779.89	1812.21	1838.55	1885.77
1809.00	1720.20	1780.87	1813.22	1839.57	1886.82
1810.00	1721.15	1781.86	1814.22	1840.65	1887.86
1811.00	1722.16	1782.90	1815.28	1841.67	1888.90
1812.00	1723.11	1783.88	1816.28	1842.68	1889.95
1813.00	1724.12	1784.87	1817.29	1843.70	1890.99
1814.00	1725.07	1785.91	1818.29	1844.72	1892.03
1815.00	1726.07	1786.89	1819.35	1845.79	1893.14
1816.00	1727.02	1787.87	1820.35	1846.81	1894.18
1817.00	1728.03	1788.91	1821.36	1847.83	1895.22
1818.00	1728.98	1789.90	1822.36	1848.84	1896.26
1819.00	1729.99	1790.88	1823.42	1849.86	1897.31
1820.00	1730.94	1791.92	1824.42	1850.88	1898.35
1821.00	1731.95	1792.91	1825.43	1851.96	1899.39
1822.00	1732.90	1793.89	1826.43	1852.97	1900.50
1823.00	1733.90	1794.93	1827.43	1853.99	1901.54
1824.00	1734.85	1795.92	1828.49	1855.01	1902.58
1825.00	1735.86	1796.90	1829.50	1856.02	1903.63
1826.00	1736.87	1797.94	1830.50	1857.10	1904.67
1827.00	1737.82	1798.93	1831.50	1858.12	1905.71
1828.00	1738.83	1799.91	1832.57	1859.14	1906.76
1829.00	1739.78	1800.95	1833.57	1860.15	1907.86
1830.00	1740.78	1801.94	1834.57	1861.17	1908.90
1831.00	1741.74	1802.92	1835.57	1862.25	1909.95
1832.00	1742.74	1803.96	1836.64	1863.27	1910.99
1833.00	1743.69	1804.95	1837.64	1864.28	1912.03
1834.00	1744.70	1805.93	1838.64	1865.30	1913.08
1835.00	1745.65	1806.92	1839.65	1866.32	1914.12
1836.00	1746.66	1807.96	1840.65	1867.40	1915.22
1837.00	1747.61	1808.94	1841.71	1868.41	1916.27
1838.00	1748.62	1809.93	1842.71	1869.43	1917.31
1839.00	1749.57	1810.97	1843.72	1870.45	1918.35
1840.00	1750.58	1811.95	1844.72	1871.47	1919.40
1841.00	1751.53	1812.94	1845.78	1872.48	1920.44
1842.00	1752.54	1813.98	1846.79	1873.56	1921.48
1843.00	1753.49	1814.96	1847.79	1874.58	1922.53
1844.00	1754.50	1815.95	1848.79	1875.60	1923.63
1845.00	1755.45	1816.99	1849.86	1876.61	1924.67

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1846.00	1756.45	1817.97	1850.86	1877.63	1925.72
1847.00	1757.41	1818.96	1851.86	1878.71	1926.76
1848.00	1758.41	1820.00	1852.86	1879.73	1927.80
1849.00	1759.37	1820.98	1853.87	1880.74	1928.85
1850.00	1760.37	1821.97	1854.93	1881.76	1929.89
1851.00	1761.38	1823.01	1855.93	1882.78	1931.00
1852.00	1762.33	1824.00	1856.94	1883.79	1932.04
1853.00	1763.34	1824.98	1857.94	1884.87	1933.08
1854.00	1764.29	1826.02	1859.00	1885.89	1934.13
1855.00	1765.30	1827.01	1860.01	1886.91	1935.17
1856.00	1766.25	1827.99	1861.01	1887.93	1936.21
1857.00	1767.26	1829.03	1862.01	1888.94	1937.25
1858.00	1768.21	1830.02	1863.02	1890.02	1938.36
1859.00	1769.22	1831.00	1864.08	1891.04	1939.40
1860.00	1770.17	1832.04	1865.08	1892.06	1940.45
1861.00	1771.18	1833.03	1866.09	1893.07	1941.49
1862.00	1772.13	1834.01	1867.09	1894.09	1942.53
1863.00	1773.14	1835.00	1868.15	1895.17	1943.58
1864.00	1774.09	1836.04	1869.16	1896.19	1944.62
1865.00	1775.10	1837.03	1870.16	1897.21	1945.66
1866.00	1776.05	1838.01	1871.16	1898.22	1946.77
1867.00	1777.06	1839.05	1872.16	1899.24	1947.81
1868.00	1778.01	1840.04	1873.23	1900.26	1948.86
1869.00	1779.02	1841.02	1874.23	1901.34	1949.90
1870.00	1779.98	1842.07	1875.24	1902.35	1950.94
1871.00	1780.98	1843.05	1876.24	1903.37	1951.99
1872.00	1781.94	1844.04	1877.30	1904.39	1953.03
1873.00	1782.95	1845.08	1878.31	1905.41	1954.13
1874.00	1783.90	1846.06	1879.31	1906.49	1955.18
1875.00	1784.91	1847.05	1880.31	1907.50	1956.22
1876.00	1785.86	1848.09	1881.32	1908.52	1957.26
1877.00	1786.87	1849.08	1882.38	1909.54	1958.31
1878.00	1787.82	1850.06	1883.38	1910.56	1959.35
1879.00	1788.83	1851.10	1884.39	1911.57	1960.39
1880.00	1789.78	1852.09	1885.39	1912.65	1961.44
1881.00	1790.79	1853.07	1886.46	1913.67	1962.54
1882.00	1791.74	1854.06	1887.46	1914.69	1963.59
1883.00	1792.75	1855.10	1888.46	1915.71	1964.63
1884.00	1793.70	1856.09	1889.46	1916.72	1965.67
1885.00	1794.71	1857.07	1890.47	1917.80	1966.72
1886.00	1795.67	1858.11	1891.53	1918.82	1967.76
1887.00	1796.68	1859.10	1892.54	1919.84	1968.80
1888.00	1797.63	1860.08	1893.54	1920.86	1969.91
1889.00	1798.64	1861.13	1894.54	1921.87	1970.95
1890.00	1799.59	1862.11	1895.61	1922.89	1972.00
1891.00	1800.60	1863.10	1896.61	1923.97	1973.04

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1892.00	1801.55	1864.14	1897.62	1924.99	1974.09
1893.00	1802.56	1865.13	1898.62	1926.01	1975.13
1894.00	1803.51	1866.11	1899.62	1927.02	1976.17
1895.00	1804.52	1867.10	1900.69	1928.04	1977.22
1896.00	1805.48	1868.14	1901.69	1929.06	1978.32
1897.00	1806.49	1869.13	1902.69	1930.14	1979.37
1898.00	1807.44	1870.11	1903.70	1931.16	1980.41
1899.00	1808.45	1871.15	1904.76	1932.18	1981.45
1900.00	1809.40	1872.14	1905.77	1933.19	1982.50
1901.00	1810.41	1873.12	1906.77	1934.21	1983.54
1902.00	1811.36	1874.17	1907.77	1935.29	1984.58
1903.00	1812.37	1875.15	1908.78	1936.31	1985.69
1904.00	1813.33	1876.14	1909.84	1937.33	1986.73
1905.00	1814.34	1877.18	1910.85	1938.34	1987.78
1906.00	1815.29	1878.17	1911.85	1939.36	1988.82
1907.00	1816.30	1879.15	1912.85	1940.38	1989.86
1908.00	1817.25	1880.14	1913.85	1941.46	1990.91
1909.00	1818.26	1881.18	1914.92	1942.48	1991.95
1910.00	1819.22	1882.17	1915.93	1943.50	1992.99
1911.00	1820.23	1883.15	1916.93	1944.51	1994.10
1912.00	1821.18	1884.20	1917.93	1945.53	1995.15
1913.00	1822.19	1885.18	1919.00	1946.61	1996.19
1914.00	1823.14	1886.17	1920.00	1947.63	1997.23
1915.00	1824.15	1887.21	1921.00	1948.65	1998.28
1916.00	1825.11	1888.20	1922.01	1949.67	1999.32
1917.00	1826.06	1889.18	1923.01	1950.68	2000.36
1918.00	1827.07	1890.23	1924.08	1951.70	2001.41
1919.00	1828.02	1891.21	1925.08	1952.78	2002.51
1920.00	1829.03	1892.20	1926.09	1953.80	2003.56
1921.00	1829.99	1893.18	1927.09	1954.82	2004.60
1922.00	1831.00	1894.23	1928.09	1955.84	2005.64
1923.00	1831.95	1895.21	1929.16	1956.85	2006.69
1924.00	1832.96	1896.20	1930.16	1957.87	2007.73
1925.00	1833.91	1897.24	1931.17	1958.95	2008.78
1926.00	1834.93	1898.23	1932.17	1959.97	2009.82
1927.00	1835.88	1899.21	1933.17	1960.99	2010.93
1928.00	1836.89	1900.26	1934.24	1962.01	2011.97
1929.00	1837.84	1901.24	1935.24	1963.02	2013.01
1930.00	1838.85	1902.23	1936.25	1964.04	2014.06
1931.00	1839.81	1903.21	1937.25	1965.12	2015.10
1932.00	1840.82	1904.26	1938.32	1966.14	2016.14
1933.00	1841.77	1905.25	1939.32	1967.16	2017.19
1934.00	1842.78	1906.23	1940.32	1968.18	2018.23
1935.00	1843.74	1907.28	1941.33	1969.19	2019.34
1936.00	1844.75	1908.26	1942.33	1970.21	2020.38
1937.00	1845.70	1909.25	1943.40	1971.29	2021.43

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1938.00	1846.71	1910.23	1944.40	1972.31	2022.47
1939.00	1847.67	1911.28	1945.41	1973.33	2023.51
1940.00	1848.68	1912.26	1946.41	1974.35	2024.56
1941.00	1849.63	1913.25	1947.41	1975.37	2025.60
1942.00	1850.64	1914.29	1948.48	1976.45	2026.65
1943.00	1851.60	1915.28	1949.48	1977.47	2027.75
1944.00	1852.55	1916.27	1950.49	1978.48	2028.80
1945.00	1853.56	1917.31	1951.49	1979.50	2029.84
1946.00	1854.51	1918.30	1952.49	1980.52	2030.89
1947.00	1855.53	1919.28	1953.56	1981.54	2031.93
1948.00	1856.48	1920.27	1954.57	1982.62	2032.97
1949.00	1857.49	1921.31	1955.57	1983.64	2034.02
1950.00	1858.45	1922.30	1956.57	1984.66	2035.06
1951.00	1859.46	1923.28	1957.58	1985.67	2036.17
1952.00	1860.41	1924.33	1958.65	1986.69	2037.21
1953.00	1861.42	1925.32	1959.65	1987.71	2038.26
1954.00	1862.38	1926.30	1960.65	1988.79	2039.30
1955.00	1863.39	1927.35	1961.66	1989.81	2040.34
1956.00	1864.34	1928.33	1962.72	1990.83	2041.39
1957.00	1865.36	1929.32	1963.73	1991.85	2042.43
1958.00	1866.31	1930.30	1964.73	1992.86	2043.47
1959.00	1867.32	1931.35	1965.73	1993.88	2044.58
1960.00	1868.27	1932.34	1966.74	1994.96	2045.63
1961.00	1869.29	1933.32	1967.81	1995.98	2046.67
1962.00	1870.24	1934.37	1968.81	1997.00	2047.71
1963.00	1871.19	1935.35	1969.81	1998.02	2048.76
1964.00	1872.21	1936.34	1970.82	1999.04	2049.80
1965.00	1873.16	1937.33	1971.82	2000.05	2050.85
1966.00	1874.17	1938.37	1972.89	2001.14	2051.89
1967.00	1875.13	1939.36	1973.89	2002.16	2053.00
1968.00	1876.14	1940.34	1974.90	2003.17	2054.04
1969.00	1877.09	1941.39	1975.90	2004.19	2055.09
1970.00	1878.11	1942.38	1976.90	2005.21	2056.13
1971.00	1879.06	1943.36	1977.97	2006.23	2057.17
1972.00	1880.07	1944.35	1978.98	2007.31	2058.22
1973.00	1881.03	1945.39	1979.98	2008.33	2059.26
1974.00	1882.04	1946.38	1980.99	2009.35	2060.31
1975.00	1882.99	1947.37	1981.99	2010.36	2061.42
1976.00	1884.01	1948.41	1983.06	2011.38	2062.46
1977.00	1884.96	1949.40	1984.06	2012.40	2063.50
1978.00	1885.92	1950.38	1985.07	2013.48	2064.55
1979.00	1886.93	1951.37	1986.07	2014.50	2065.59
1980.00	1887.88	1952.42	1987.07	2015.52	2066.63
1981.00	1888.90	1953.40	1988.14	2016.54	2067.68
1982.00	1889.85	1954.39	1989.15	2017.56	2068.72
1983.00	1890.86	1955.43	1990.15	2018.57	2069.83

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1984.00	1891.82	1956.42	1991.15	2019.66	2070.88
1985.00	1892.83	1957.41	1992.16	2020.68	2071.92
1986.00	1893.79	1958.39	1993.23	2021.70	2072.96
1987.00	1894.80	1959.44	1994.23	2022.71	2074.01
1988.00	1895.75	1960.43	1995.23	2023.73	2075.05
1989.00	1896.77	1961.41	1996.24	2024.75	2076.09
1990.00	1897.72	1962.46	1997.24	2025.83	2077.14
1991.00	1898.67	1963.45	1998.31	2026.85	2078.18
1992.00	1899.69	1964.43	1999.32	2027.87	2079.29
1993.00	1900.64	1965.42	2000.32	2028.89	2080.34
1994.00	1901.66	1966.46	2001.32	2029.91	2081.38
1995.00	1902.61	1967.45	2002.33	2030.92	2082.42
1996.00	1903.63	1968.44	2003.40	2032.01	2083.47
1997.00	1904.58	1969.48	2004.40	2033.03	2084.51
1998.00	1905.59	1970.47	2005.41	2034.04	2085.56
1999.00	1906.61	1971.46	2006.41	2035.06	2086.60
2000.00	1907.62	1972.44	2007.41	2036.08	2087.64
2001.00	1908.64	1973.43	2008.42	2037.10	2088.69
2002.00	1909.65	1974.42	2009.42	2038.12	2089.73
2003.00	1910.67	1975.40	2010.42	2039.14	2090.77
2004.00	1911.68	1976.39	2011.43	2040.15	2091.82
2005.00	1912.70	1977.37	2012.43	2041.17	2092.86
2006.00	1913.71	1978.36	2013.43	2042.19	2093.91
2007.00	1914.73	1979.35	2014.44	2043.21	2094.95
2008.00	1915.74	1980.33	2015.44	2044.23	2095.99
2009.00	1916.76	1981.32	2016.45	2045.24	2097.04
2010.00	1917.77	1982.30	2017.45	2046.26	2098.08
2011.00	1918.78	1983.29	2018.45	2047.28	2099.13
2012.00	1919.80	1984.28	2019.46	2048.30	2100.17
2013.00	1920.81	1985.26	2020.46	2049.32	2101.21
2014.00	1921.83	1986.25	2021.46	2050.33	2102.26
2015.00	1922.84	1987.24	2022.47	2051.35	2103.30
2016.00	1923.86	1988.22	2023.47	2052.37	2104.34
2017.00	1924.87	1989.21	2024.48	2053.39	2105.39
2018.00	1925.89	1990.19	2025.48	2054.41	2106.43
2019.00	1926.90	1991.18	2026.48	2055.43	2107.48
2020.00	1927.92	1992.17	2027.49	2056.44	2108.52
2021.00	1928.93	1993.15	2028.49	2057.46	2109.56
2022.00	1929.95	1994.14	2029.49	2058.48	2110.61
2023.00	1930.96	1995.13	2030.50	2059.50	2111.65
2024.00	1931.98	1996.11	2031.50	2060.52	2112.69
2025.00	1932.99	1997.10	2032.51	2061.53	2113.74
2026.00	1934.01	1998.08	2033.51	2062.55	2114.78
2027.00	1935.02	1999.07	2034.51	2063.57	2115.83
2028.00	1936.03	2000.06	2035.52	2064.59	2116.87
2029.00	1937.05	2001.04	2036.52	2065.61	2117.91

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2030.00	1938.06	2002.03	2037.52	2066.62	2118.96
2031.00	1939.08	2003.01	2038.53	2067.64	2120.00
2032.00	1940.09	2004.00	2039.53	2068.66	2121.05
2033.00	1941.11	2004.99	2040.53	2069.68	2122.09
2034.00	1942.12	2005.97	2041.54	2070.70	2123.13
2035.00	1943.14	2006.96	2042.54	2071.71	2124.18
2036.00	1944.15	2007.95	2043.55	2072.73	2125.22
2037.00	1945.17	2008.93	2044.55	2073.75	2126.26
2038.00	1946.18	2009.92	2045.55	2074.77	2127.31
2039.00	1947.20	2010.90	2046.56	2075.79	2128.35
2040.00	1948.21	2011.89	2047.56	2076.81	2129.40
2041.00	1949.23	2012.88	2048.56	2077.82	2130.44
2042.00	1950.24	2013.86	2049.57	2078.84	2131.48
2043.00	1951.26	2014.85	2050.57	2079.86	2132.53
2044.00	1952.27	2015.84	2051.58	2080.88	2133.57
2045.00	1953.28	2016.82	2052.58	2081.90	2134.61
2046.00	1954.30	2017.81	2053.58	2082.91	2135.66
2047.00	1955.31	2018.79	2054.59	2083.93	2136.70
2048.00	1956.33	2019.78	2055.59	2084.95	2137.75
2049.00	1957.34	2020.77	2056.59	2085.97	2138.79
2050.00	1958.36	2021.75	2057.60	2086.99	2139.83
2051.00	1959.37	2022.74	2058.60	2088.00	2140.88
2052.00	1960.39	2023.73	2059.61	2089.02	2141.92
2053.00	1961.40	2024.71	2060.61	2090.04	2142.96
2054.00	1962.42	2025.70	2061.61	2091.06	2144.01
2055.00	1963.43	2026.68	2062.62	2092.08	2145.05
2056.00	1964.45	2027.67	2063.62	2093.09	2146.10
2057.00	1965.46	2028.66	2064.62	2094.11	2147.14
2058.00	1966.48	2029.64	2065.63	2095.13	2148.18
2059.00	1967.49	2030.63	2066.63	2096.15	2149.23
2060.00	1968.51	2031.61	2067.63	2097.17	2150.27
2061.00	1969.52	2032.60	2068.64	2098.19	2151.32
2062.00	1970.53	2033.59	2069.64	2099.20	2152.36
2063.00	1971.55	2034.57	2070.65	2100.22	2153.40
2064.00	1972.56	2035.56	2071.65	2101.24	2154.45
2065.00	1973.58	2036.55	2072.65	2102.26	2155.49
2066.00	1974.59	2037.53	2073.66	2103.28	2156.53
2067.00	1975.61	2038.52	2074.66	2104.29	2157.58
2068.00	1976.62	2039.50	2075.66	2105.31	2158.62
2069.00	1977.64	2040.49	2076.67	2106.33	2159.67
2070.00	1978.65	2041.48	2077.67	2107.35	2160.71
2071.00	1979.67	2042.46	2078.68	2108.37	2161.75
2072.00	1980.68	2043.45	2079.68	2109.38	2162.80
2073.00	1981.70	2044.44	2080.68	2110.40	2163.84
2074.00	1982.71	2045.42	2081.69	2111.42	2164.88
2075.00	1983.73	2046.41	2082.69	2112.44	2165.93

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2076.00	1984.74	2047.39	2083.69	2113.46	2166.97
2077.00	1985.76	2048.38	2084.70	2114.47	2168.02
2078.00	1986.77	2049.37	2085.70	2115.49	2169.06
2079.00	1987.78	2050.35	2086.71	2116.51	2170.10
2080.00	1988.80	2051.34	2087.71	2117.53	2171.15
2081.00	1989.81	2052.32	2088.71	2118.55	2172.19
2082.00	1990.83	2053.31	2089.72	2119.57	2173.23
2083.00	1991.84	2054.30	2090.72	2120.58	2174.28
2084.00	1992.86	2055.28	2091.72	2121.60	2175.32
2085.00	1993.87	2056.27	2092.73	2122.62	2176.37
2086.00	1994.89	2057.26	2093.73	2123.64	2177.41
2087.00	1995.90	2058.24	2094.73	2124.66	2178.45
2088.00	1996.92	2059.23	2095.74	2125.67	2179.50
2089.00	1997.93	2060.21	2096.74	2126.69	2180.54
2090.00	1998.95	2061.20	2097.75	2127.71	2181.59
2091.00	1999.96	2062.19	2098.75	2128.73	2182.63
2092.00	2000.98	2063.17	2099.75	2129.75	2183.67
2093.00	2001.99	2064.16	2100.76	2130.76	2184.72
2094.00	2003.00	2065.15	2101.76	2131.78	2185.76
2095.00	2004.02	2066.13	2102.76	2132.80	2186.80
2096.00	2005.03	2067.12	2103.77	2133.82	2187.85
2097.00	2006.05	2068.10	2104.77	2134.84	2188.89
2098.00	2007.06	2069.09	2105.78	2135.85	2189.94
2099.00	2008.08	2070.08	2106.78	2136.87	2190.98
2100.00	2009.09	2071.06	2107.78	2137.89	2192.02
2101.00	2010.11	2072.05	2108.79	2138.91	2193.07
2102.00	2011.12	2073.04	2109.79	2139.93	2194.11
2103.00	2012.14	2074.02	2110.79	2140.95	2195.15
2104.00	2013.15	2075.01	2111.80	2141.96	2196.20
2105.00	2014.17	2075.99	2112.80	2142.98	2197.24
2106.00	2015.18	2076.98	2113.80	2144.00	2198.29
2107.00	2016.20	2077.97	2114.81	2145.02	2199.33
2108.00	2017.21	2078.95	2115.81	2146.04	2200.37
2109.00	2018.23	2079.94	2116.82	2147.05	2201.42
2110.00	2019.24	2080.92	2117.82	2148.07	2202.46
2111.00	2020.25	2081.91	2118.82	2149.09	2203.51
2112.00	2021.27	2082.90	2119.83	2150.11	2204.55
2113.00	2022.28	2083.88	2120.83	2151.13	2205.59
2114.00	2023.30	2084.87	2121.83	2152.14	2206.64
2115.00	2024.31	2085.86	2122.84	2153.16	2207.68
2116.00	2025.33	2086.84	2123.84	2154.18	2208.72
2117.00	2026.34	2087.83	2124.85	2155.20	2209.77
2118.00	2027.36	2088.81	2125.85	2156.22	2210.81
2119.00	2028.37	2089.80	2126.85	2157.24	2211.86
2120.00	2029.39	2090.79	2127.86	2158.25	2212.90
2121.00	2030.40	2091.77	2128.86	2159.27	2213.94

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2122.00	2031.42	2092.76	2129.86	2160.29	2214.99
2123.00	2032.43	2093.75	2130.87	2161.31	2216.03
2124.00	2033.45	2094.73	2131.87	2162.33	2217.07
2125.00	2034.46	2095.72	2132.88	2163.34	2218.12
2126.00	2035.48	2096.70	2133.88	2164.36	2219.16
2127.00	2036.49	2097.69	2134.88	2165.38	2220.21
2128.00	2037.50	2098.68	2135.89	2166.40	2221.25
2129.00	2038.52	2099.66	2136.89	2167.42	2222.29
2130.00	2039.53	2100.65	2137.89	2168.43	2223.34
2131.00	2040.55	2101.63	2138.90	2169.45	2224.38
2132.00	2041.56	2102.62	2139.90	2170.47	2225.42
2133.00	2042.58	2103.61	2140.90	2171.49	2226.47
2134.00	2043.59	2104.59	2141.91	2172.51	2227.51
2135.00	2044.61	2105.58	2142.91	2173.52	2228.56
2136.00	2045.62	2106.57	2143.92	2174.54	2229.60
2137.00	2046.64	2107.55	2144.92	2175.56	2230.64
2138.00	2047.65	2108.54	2145.92	2176.58	2231.69
2139.00	2048.67	2109.52	2146.93	2177.60	2232.73
2140.00	2049.68	2110.51	2147.93	2178.62	2233.78
2141.00	2050.70	2111.50	2148.93	2179.63	2234.82
2142.00	2051.71	2112.48	2149.94	2180.65	2235.86
2143.00	2052.73	2113.47	2150.94	2181.67	2236.91
2144.00	2053.74	2114.46	2151.95	2182.69	2237.95
2145.00	2054.75	2115.44	2152.95	2183.71	2238.99
2146.00	2055.77	2116.43	2153.95	2184.72	2240.04
2147.00	2056.78	2117.41	2154.96	2185.74	2241.08
2148.00	2057.80	2118.40	2155.96	2186.76	2242.13
2149.00	2058.81	2119.39	2156.96	2187.78	2243.17
2150.00	2059.83	2120.37	2157.97	2188.80	2244.21
2151.00	2060.84	2121.36	2158.97	2189.81	2245.26
2152.00	2061.86	2122.35	2159.98	2190.83	2246.30
2153.00	2062.87	2123.33	2160.98	2191.85	2247.34
2154.00	2063.89	2124.32	2161.98	2192.87	2248.39
2155.00	2064.90	2125.30	2162.99	2193.89	2249.43
2156.00	2065.92	2126.29	2163.99	2194.90	2250.48
2157.00	2066.93	2127.28	2164.99	2195.92	2251.52
2158.00	2067.95	2128.26	2166.00	2196.94	2252.56
2159.00	2068.96	2129.25	2167.00	2197.96	2253.61
2160.00	2069.98	2130.23	2168.00	2198.98	2254.65
2161.00	2070.99	2131.22	2169.01	2200.00	2255.70
2162.00	2072.00	2132.21	2170.01	2201.01	2256.74
2163.00	2073.02	2133.19	2171.02	2202.03	2257.78
2164.00	2074.03	2134.18	2172.02	2203.05	2258.83
2165.00	2075.05	2135.17	2173.02	2204.07	2259.87
2166.00	2076.06	2136.15	2174.03	2205.09	2260.91
2167.00	2077.08	2137.14	2175.03	2206.10	2261.96

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2168.00	2078.09	2138.12	2176.03	2207.12	2263.00
2169.00	2079.11	2139.11	2177.04	2208.14	2264.05
2170.00	2080.12	2140.10	2178.04	2209.16	2265.09
2171.00	2081.14	2141.08	2179.05	2210.18	2266.13
2172.00	2082.15	2142.07	2180.05	2211.19	2267.18
2173.00	2083.17	2143.06	2181.05	2212.21	2268.22
2174.00	2084.18	2144.04	2182.06	2213.23	2269.26
2175.00	2085.20	2145.03	2183.06	2214.25	2270.31
2176.00	2086.21	2146.01	2184.06	2215.27	2271.35
2177.00	2087.22	2147.00	2185.07	2216.28	2272.40
2178.00	2088.24	2147.99	2186.07	2217.30	2273.44
2179.00	2089.25	2148.97	2187.08	2218.32	2274.48
2180.00	2090.27	2149.96	2188.08	2219.34	2275.53
2181.00	2091.28	2150.94	2189.08	2220.36	2276.57
2182.00	2092.30	2151.93	2190.09	2221.38	2277.61
2183.00	2093.31	2152.92	2191.09	2222.39	2278.66
2184.00	2094.33	2153.90	2192.09	2223.41	2279.70
2185.00	2095.34	2154.89	2193.10	2224.43	2280.75
2186.00	2096.36	2155.88	2194.10	2225.45	2281.79
2187.00	2097.37	2156.86	2195.10	2226.47	2282.83
2188.00	2098.39	2157.85	2196.11	2227.48	2283.88
2189.00	2099.40	2158.83	2197.11	2228.50	2284.92
2190.00	2100.42	2159.82	2198.12	2229.52	2285.97
2191.00	2101.43	2160.81	2199.12	2230.54	2287.01
2192.00	2102.45	2161.79	2200.12	2231.56	2288.05
2193.00	2103.46	2162.78	2201.13	2232.57	2289.10
2194.00	2104.47	2163.77	2202.13	2233.59	2290.14
2195.00	2105.49	2164.75	2203.13	2234.61	2291.18
2196.00	2106.50	2165.74	2204.14	2235.63	2292.23
2197.00	2107.52	2166.72	2205.14	2236.65	2293.27
2198.00	2108.53	2167.71	2206.15	2237.66	2294.32
2199.00	2109.55	2168.70	2207.15	2238.68	2295.36
2200.00	2110.56	2169.68	2208.15	2239.70	2296.40
2201.00	2111.58	2170.67	2209.16	2240.72	2297.45
2202.00	2112.59	2171.66	2210.16	2241.74	2298.49
2203.00	2113.61	2172.64	2211.16	2242.76	2299.53
2204.00	2114.62	2173.63	2212.17	2243.77	2300.58
2205.00	2115.64	2174.61	2213.17	2244.79	2301.62
2206.00	2116.65	2175.60	2214.17	2245.81	2302.67
2207.00	2117.67	2176.59	2215.18	2246.83	2303.71
2208.00	2118.68	2177.57	2216.18	2247.85	2304.75
2209.00	2119.70	2178.56	2217.19	2248.86	2305.80
2210.00	2120.71	2179.54	2218.19	2249.88	2306.84
2211.00	2121.72	2180.53	2219.19	2250.90	2307.89
2212.00	2122.74	2181.52	2220.20	2251.92	2308.93
2213.00	2123.75	2182.50	2221.20	2252.94	2309.97

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2214.00	2124.77	2183.49	2222.20	2253.95	2311.02
2215.00	2125.78	2184.48	2223.21	2254.97	2312.06
2216.00	2126.80	2185.46	2224.21	2255.99	2313.10
2217.00	2127.81	2186.45	2225.22	2257.01	2314.15
2218.00	2128.83	2187.43	2226.22	2258.03	2315.19
2219.00	2129.84	2188.42	2227.22	2259.05	2316.24
2220.00	2130.86	2189.41	2228.23	2260.06	2317.28
2221.00	2131.87	2190.39	2229.23	2261.08	2318.32
2222.00	2132.89	2191.38	2230.23	2262.10	2319.37
2223.00	2133.90	2192.37	2231.24	2263.12	2320.41
2224.00	2134.92	2193.35	2232.24	2264.14	2321.45
2225.00	2135.93	2194.34	2233.25	2265.15	2322.50
2226.00	2136.95	2195.32	2234.25	2266.17	2323.54
2227.00	2137.96	2196.31	2235.25	2267.19	2324.59
2228.00	2138.97	2197.30	2236.26	2268.21	2325.63
2229.00	2139.99	2198.28	2237.26	2269.23	2326.67
2230.00	2141.00	2199.27	2238.26	2270.24	2327.72
2231.00	2142.02	2200.25	2239.27	2271.26	2328.76
2232.00	2143.03	2201.24	2240.27	2272.28	2329.80
2233.00	2144.05	2202.23	2241.27	2273.30	2330.85
2234.00	2145.06	2203.21	2242.28	2274.32	2331.89
2235.00	2146.08	2204.20	2243.28	2275.33	2332.94
2236.00	2147.09	2205.19	2244.29	2276.35	2333.98
2237.00	2148.11	2206.17	2245.29	2277.37	2335.02
2238.00	2149.12	2207.16	2246.29	2278.39	2336.07
2239.00	2150.14	2208.14	2247.30	2279.41	2337.11
2240.00	2151.15	2209.13	2248.30	2280.43	2338.16
2241.00	2152.17	2210.12	2249.30	2281.44	2339.20
2242.00	2153.18	2211.10	2250.31	2282.46	2340.24
2243.00	2154.20	2212.09	2251.31	2283.48	2341.29
2244.00	2155.21	2213.08	2252.32	2284.50	2342.33
2245.00	2156.22	2214.06	2253.32	2285.52	2343.37
2246.00	2157.24	2215.05	2254.32	2286.53	2344.42
2247.00	2158.25	2216.03	2255.33	2287.55	2345.46
2248.00	2159.27	2217.02	2256.33	2288.57	2346.51
2249.00	2160.28	2218.01	2257.33	2289.59	2347.55
2250.00	2161.30	2218.99	2258.34	2290.61	2348.59
2251.00	2162.31	2219.98	2259.34	2291.62	2349.64
2252.00	2163.33	2220.97	2260.35	2292.64	2350.68
2253.00	2164.34	2221.95	2261.35	2293.66	2351.72
2254.00	2165.36	2222.94	2262.35	2294.68	2352.77
2255.00	2166.37	2223.92	2263.36	2295.70	2353.81
2256.00	2167.39	2224.91	2264.36	2296.71	2354.86
2257.00	2168.40	2225.90	2265.36	2297.73	2355.90
2258.00	2169.42	2226.88	2266.37	2298.75	2356.94
2259.00	2170.43	2227.87	2267.37	2299.77	2357.99

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2260.00	2171.45	2228.85	2268.37	2300.79	2359.03
2261.00	2172.46	2229.84	2269.38	2301.81	2360.08
2262.00	2173.47	2230.83	2270.38	2302.82	2361.12
2263.00	2174.49	2231.81	2271.39	2303.84	2362.16
2264.00	2175.50	2232.80	2272.39	2304.86	2363.21
2265.00	2176.52	2233.79	2273.39	2305.88	2364.25
2266.00	2177.53	2234.77	2274.40	2306.90	2365.29
2267.00	2178.55	2235.76	2275.40	2307.91	2366.34
2268.00	2179.56	2236.74	2276.40	2308.93	2367.38
2269.00	2180.58	2237.73	2277.41	2309.95	2368.43
2270.00	2181.59	2238.72	2278.41	2310.97	2369.47
2271.00	2182.61	2239.70	2279.42	2311.99	2370.51
2272.00	2183.62	2240.69	2280.42	2313.00	2371.56
2273.00	2184.64	2241.68	2281.42	2314.02	2372.60
2274.00	2185.65	2242.66	2282.43	2315.04	2373.64
2275.00	2186.67	2243.65	2283.43	2316.06	2374.69
2276.00	2187.68	2244.63	2284.43	2317.08	2375.73
2277.00	2188.69	2245.62	2285.44	2318.09	2376.78
2278.00	2189.71	2246.61	2286.44	2319.11	2377.82
2279.00	2190.72	2247.59	2287.45	2320.13	2378.86
2280.00	2191.74	2248.58	2288.45	2321.15	2379.91
2281.00	2192.75	2249.56	2289.45	2322.17	2380.95
2282.00	2193.77	2250.55	2290.46	2323.19	2381.99
2283.00	2194.78	2251.54	2291.46	2324.20	2383.04
2284.00	2195.80	2252.52	2292.46	2325.22	2384.08
2285.00	2196.81	2253.51	2293.47	2326.24	2385.13
2286.00	2197.83	2254.50	2294.47	2327.26	2386.17
2287.00	2198.84	2255.48	2295.47	2328.28	2387.21
2288.00	2199.86	2256.47	2296.48	2329.29	2388.26
2289.00	2200.87	2257.45	2297.48	2330.31	2389.30
2290.00	2201.89	2258.44	2298.49	2331.33	2390.35
2291.00	2202.90	2259.43	2299.49	2332.35	2391.39
2292.00	2203.92	2260.41	2300.49	2333.37	2392.43
2293.00	2204.93	2261.40	2301.50	2334.38	2393.48
2294.00	2205.94	2262.39	2302.50	2335.40	2394.52
2295.00	2206.96	2263.37	2303.50	2336.42	2395.56
2296.00	2207.97	2264.36	2304.51	2337.44	2396.61
2297.00	2208.99	2265.34	2305.51	2338.46	2397.65
2298.00	2210.00	2266.33	2306.52	2339.47	2398.70
2299.00	2211.02	2267.32	2307.52	2340.49	2399.74
2300.00	2212.03	2268.30	2308.52	2341.51	2400.78
2301.00	2213.05	2269.29	2309.53	2342.53	2401.83
2302.00	2214.06	2270.28	2310.53	2343.55	2402.87
2303.00	2215.08	2271.26	2311.53	2344.57	2403.91
2304.00	2216.09	2272.25	2312.54	2345.58	2404.96
2305.00	2217.11	2273.23	2313.54	2346.60	2406.00

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2306.00	2218.12	2274.22	2314.54	2347.62	2407.05
2307.00	2219.14	2275.21	2315.55	2348.64	2408.09
2308.00	2220.15	2276.19	2316.55	2349.66	2409.13
2309.00	2221.17	2277.18	2317.56	2350.67	2410.18
2310.00	2222.18	2278.16	2318.56	2351.69	2411.22
2311.00	2223.19	2279.15	2319.56	2352.71	2412.27
2312.00	2224.21	2280.14	2320.57	2353.73	2413.31
2313.00	2225.22	2281.12	2321.57	2354.75	2414.35
2314.00	2226.24	2282.11	2322.57	2355.76	2415.40
2315.00	2227.25	2283.10	2323.58	2356.78	2416.44
2316.00	2228.27	2284.08	2324.58	2357.80	2417.48
2317.00	2229.28	2285.07	2325.59	2358.82	2418.53
2318.00	2230.30	2286.05	2326.59	2359.84	2419.57
2319.00	2231.31	2287.04	2327.59	2360.86	2420.62
2320.00	2232.33	2288.03	2328.60	2361.87	2421.66
2321.00	2233.34	2289.01	2329.60	2362.89	2422.70
2322.00	2234.36	2290.00	2330.60	2363.91	2423.75
2323.00	2235.37	2290.99	2331.61	2364.93	2424.79
2324.00	2236.39	2291.97	2332.61	2365.95	2425.83
2325.00	2237.40	2292.96	2333.62	2366.96	2426.88
2326.00	2238.42	2293.94	2334.62	2367.98	2427.92
2327.00	2239.43	2294.93	2335.62	2369.00	2428.97
2328.00	2240.44	2295.92	2336.63	2370.02	2430.01
2329.00	2241.46	2296.90	2337.63	2371.04	2431.05
2330.00	2242.47	2297.89	2338.63	2372.05	2432.10
2331.00	2243.49	2298.87	2339.64	2373.07	2433.14
2332.00	2244.50	2299.86	2340.64	2374.09	2434.18
2333.00	2245.52	2300.85	2341.64	2375.11	2435.23
2334.00	2246.53	2301.83	2342.65	2376.13	2436.27
2335.00	2247.55	2302.82	2343.65	2377.14	2437.32
2336.00	2248.56	2303.81	2344.66	2378.16	2438.36
2337.00	2249.58	2304.79	2345.66	2379.18	2439.40
2338.00	2250.59	2305.78	2346.66	2380.20	2440.45
2339.00	2251.61	2306.76	2347.67	2381.22	2441.49
2340.00	2252.62	2307.75	2348.67	2382.24	2442.54
2341.00	2253.64	2308.74	2349.67	2383.25	2443.58
2342.00	2254.65	2309.72	2350.68	2384.27	2444.62
2343.00	2255.67	2310.71	2351.68	2385.29	2445.67
2344.00	2256.68	2311.70	2352.69	2386.31	2446.71
2345.00	2257.69	2312.68	2353.69	2387.33	2447.75
2346.00	2258.71	2313.67	2354.69	2388.34	2448.80
2347.00	2259.72	2314.65	2355.70	2389.36	2449.84
2348.00	2260.74	2315.64	2356.70	2390.38	2450.89
2349.00	2261.75	2316.63	2357.70	2391.40	2451.93
2350.00	2262.77	2317.61	2358.71	2392.42	2452.97
2351.00	2263.78	2318.60	2359.71	2393.43	2454.02

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2352.00	2264.80	2319.59	2360.72	2394.45	2455.06
2353.00	2265.81	2320.57	2361.72	2395.47	2456.10
2354.00	2266.83	2321.56	2362.72	2396.49	2457.15
2355.00	2267.84	2322.54	2363.73	2397.51	2458.19
2356.00	2268.86	2323.53	2364.73	2398.52	2459.24
2357.00	2269.87	2324.52	2365.73	2399.54	2460.28
2358.00	2270.89	2325.50	2366.74	2400.56	2461.32
2359.00	2271.90	2326.49	2367.74	2401.58	2462.37
2360.00	2272.92	2327.47	2368.74	2402.60	2463.41
2361.00	2273.93	2328.46	2369.75	2403.62	2464.46
2362.00	2274.94	2329.45	2370.75	2404.63	2465.50
2363.00	2275.96	2330.43	2371.76	2405.65	2466.54
2364.00	2276.97	2331.42	2372.76	2406.67	2467.59
2365.00	2277.99	2332.41	2373.76	2407.69	2468.63
2366.00	2279.00	2333.39	2374.77	2408.71	2469.67
2367.00	2280.02	2334.38	2375.77	2409.72	2470.72
2368.00	2281.03	2335.36	2376.77	2410.74	2471.76
2369.00	2282.05	2336.35	2377.78	2411.76	2472.81
2370.00	2283.06	2337.34	2378.78	2412.78	2473.85
2371.00	2284.08	2338.32	2379.79	2413.80	2474.89
2372.00	2285.09	2339.31	2380.79	2414.81	2475.94
2373.00	2286.11	2340.30	2381.79	2415.83	2476.98
2374.00	2287.12	2341.28	2382.80	2416.85	2478.02
2375.00	2288.14	2342.27	2383.80	2417.87	2479.07
2376.00	2289.15	2343.25	2384.80	2418.89	2480.11
2377.00	2290.16	2344.24	2385.81	2419.90	2481.16
2378.00	2291.18	2345.23	2386.81	2420.92	2482.20
2379.00	2292.19	2346.21	2387.81	2421.94	2483.24
2380.00	2293.21	2347.20	2388.82	2422.96	2484.29
2381.00	2294.22	2348.18	2389.82	2423.98	2485.33
2382.00	2295.24	2349.17	2390.83	2425.00	2486.37
2383.00	2296.25	2350.16	2391.83	2426.01	2487.42
2384.00	2297.27	2351.14	2392.83	2427.03	2488.46
2385.00	2298.28	2352.13	2393.84	2428.05	2489.51
2386.00	2299.30	2353.12	2394.84	2429.07	2490.55
2387.00	2300.31	2354.10	2395.84	2430.09	2491.59
2388.00	2301.33	2355.09	2396.85	2431.10	2492.64
2389.00	2302.34	2356.07	2397.85	2432.12	2493.68
2390.00	2303.36	2357.06	2398.86	2433.14	2494.73
2391.00	2304.37	2358.05	2399.86	2434.16	2495.77
2392.00	2305.39	2359.03	2400.86	2435.18	2496.81
2393.00	2306.40	2360.02	2401.87	2436.19	2497.86
2394.00	2307.41	2361.01	2402.87	2437.21	2498.90
2395.00	2308.43	2361.99	2403.87	2438.23	2499.94
2396.00	2309.44	2362.98	2404.88	2439.25	2500.99
2397.00	2310.46	2363.96	2405.88	2440.27	2502.03

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2398.00	2311.47	2364.95	2406.89	2441.28	2503.08
2399.00	2312.49	2365.94	2407.89	2442.30	2504.12
2400.00	2313.50	2366.92	2408.89	2443.32	2505.16
2401.00	2314.52	2367.91	2409.90	2444.34	2506.21
2402.00	2315.53	2368.90	2410.90	2445.36	2507.25
2403.00	2316.55	2369.88	2411.90	2446.38	2508.29
2404.00	2317.56	2370.87	2412.91	2447.39	2509.34
2405.00	2318.58	2371.85	2413.91	2448.41	2510.38
2406.00	2319.59	2372.84	2414.91	2449.43	2511.43
2407.00	2320.61	2373.83	2415.92	2450.45	2512.47
2408.00	2321.62	2374.81	2416.92	2451.47	2513.51
2409.00	2322.64	2375.80	2417.93	2452.48	2514.56
2410.00	2323.65	2376.78	2418.93	2453.50	2515.60
2411.00	2324.66	2377.77	2419.93	2454.52	2516.65
2412.00	2325.68	2378.76	2420.94	2455.54	2517.69
2413.00	2326.69	2379.74	2421.94	2456.56	2518.73
2414.00	2327.71	2380.73	2422.94	2457.57	2519.78
2415.00	2328.72	2381.72	2423.95	2458.59	2520.82
2416.00	2329.74	2382.70	2424.95	2459.61	2521.86
2417.00	2330.75	2383.69	2425.96	2460.63	2522.91
2418.00	2331.77	2384.67	2426.96	2461.65	2523.95
2419.00	2332.78	2385.66	2427.96	2462.67	2525.00
2420.00	2333.80	2386.65	2428.97	2463.68	2526.04
2421.00	2334.81	2387.63	2429.97	2464.70	2527.08
2422.00	2335.83	2388.62	2430.97	2465.72	2528.13
2423.00	2336.84	2389.61	2431.98	2466.74	2529.17
2424.00	2337.86	2390.59	2432.98	2467.76	2530.21
2425.00	2338.87	2391.58	2433.99	2468.77	2531.26
2426.00	2339.89	2392.56	2434.99	2469.79	2532.30
2427.00	2340.90	2393.55	2435.99	2470.81	2533.35
2428.00	2341.91	2394.54	2437.00	2471.83	2534.39
2429.00	2342.93	2395.52	2438.00	2472.85	2535.43
2430.00	2343.94	2396.51	2439.00	2473.86	2536.48
2431.00	2344.96	2397.49	2440.01	2474.88	2537.52
2432.00	2345.97	2398.48	2441.01	2475.90	2538.56
2433.00	2346.99	2399.47	2442.01	2476.92	2539.61
2434.00	2348.00	2400.45	2443.02	2477.94	2540.65
2435.00	2349.02	2401.44	2444.02	2478.95	2541.70
2436.00	2350.03	2402.43	2445.03	2479.97	2542.74
2437.00	2351.05	2403.41	2446.03	2480.99	2543.78
2438.00	2352.06	2404.40	2447.03	2482.01	2544.83
2439.00	2353.08	2405.38	2448.04	2483.03	2545.87
2440.00	2354.09	2406.37	2449.04	2484.05	2546.92
2441.00	2355.11	2407.36	2450.04	2485.06	2547.96
2442.00	2356.12	2408.34	2451.05	2486.08	2549.00
2443.00	2357.14	2409.33	2452.05	2487.10	2550.05

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2444.00	2358.15	2410.32	2453.06	2488.12	2551.09
2445.00	2359.16	2411.30	2454.06	2489.14	2552.13
2446.00	2360.18	2412.29	2455.06	2490.15	2553.18
2447.00	2361.19	2413.27	2456.07	2491.17	2554.22
2448.00	2362.21	2414.26	2457.07	2492.19	2555.27
2449.00	2363.22	2415.25	2458.07	2493.21	2556.31
2450.00	2364.24	2416.23	2459.08	2494.23	2557.35
2451.00	2365.25	2417.22	2460.08	2495.24	2558.40
2452.00	2366.27	2418.21	2461.09	2496.26	2559.44
2453.00	2367.28	2419.19	2462.09	2497.28	2560.48
2454.00	2368.30	2420.18	2463.09	2498.30	2561.53
2455.00	2369.31	2421.16	2464.10	2499.32	2562.57
2456.00	2370.33	2422.15	2465.10	2500.33	2563.62
2457.00	2371.34	2423.14	2466.10	2501.35	2564.66
2458.00	2372.36	2424.12	2467.11	2502.37	2565.70
2459.00	2373.37	2425.11	2468.11	2503.39	2566.75
2460.00	2374.39	2426.09	2469.11	2504.41	2567.79
2461.00	2375.40	2427.08	2470.12	2505.43	2568.84
2462.00	2376.41	2428.07	2471.12	2506.44	2569.88
2463.00	2377.43	2429.05	2472.13	2507.46	2570.92
2464.00	2378.44	2430.04	2473.13	2508.48	2571.97
2465.00	2379.46	2431.03	2474.13	2509.50	2573.01
2466.00	2380.47	2432.01	2475.14	2510.52	2574.05
2467.00	2381.49	2433.00	2476.14	2511.53	2575.10
2468.00	2382.50	2433.98	2477.14	2512.55	2576.14
2469.00	2383.52	2434.97	2478.15	2513.57	2577.19
2470.00	2384.53	2435.96	2479.15	2514.59	2578.23
2471.00	2385.55	2436.94	2480.16	2515.61	2579.27
2472.00	2386.56	2437.93	2481.16	2516.62	2580.32
2473.00	2387.58	2438.92	2482.16	2517.64	2581.36
2474.00	2388.59	2439.90	2483.17	2518.66	2582.40
2475.00	2389.61	2440.89	2484.17	2519.68	2583.45
2476.00	2390.62	2441.87	2485.17	2520.70	2584.49
2477.00	2391.63	2442.86	2486.18	2521.71	2585.54
2478.00	2392.65	2443.85	2487.18	2522.73	2586.58
2479.00	2393.66	2444.83	2488.18	2523.75	2587.62
2480.00	2394.68	2445.82	2489.19	2524.77	2588.67
2481.00	2395.69	2446.80	2490.19	2525.79	2589.71
2482.00	2396.71	2447.79	2491.20	2526.81	2590.75
2483.00	2397.72	2448.78	2492.20	2527.82	2591.80
2484.00	2398.74	2449.76	2493.20	2528.84	2592.84
2485.00	2399.75	2450.75	2494.21	2529.86	2593.89
2486.00	2400.77	2451.74	2495.21	2530.88	2594.93
2487.00	2401.78	2452.72	2496.21	2531.90	2595.97
2488.00	2402.80	2453.71	2497.22	2532.91	2597.02
2489.00	2403.81	2454.69	2498.22	2533.93	2598.06

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2490.00	2404.83	2455.68	2499.23	2534.95	2599.11
2491.00	2405.84	2456.67	2500.23	2535.97	2600.15
2492.00	2406.86	2457.65	2501.23	2536.99	2601.19
2493.00	2407.87	2458.64	2502.24	2538.00	2602.24
2494.00	2408.88	2459.63	2503.24	2539.02	2603.28
2495.00	2409.90	2460.61	2504.24	2540.04	2604.32
2496.00	2410.91	2461.60	2505.25	2541.06	2605.37
2497.00	2411.93	2462.58	2506.25	2542.08	2606.41
2498.00	2412.94	2463.57	2507.26	2543.09	2607.46
2499.00	2413.96	2464.56	2508.26	2544.11	2608.50
2500.00	2414.97	2465.54	2509.26	2545.13	2609.54
2501.00	2415.99	2466.53	2510.27	2546.15	2610.59
2502.00	2417.00	2467.52	2511.27	2547.17	2611.63
2503.00	2418.02	2468.50	2512.27	2548.19	2612.67
2504.00	2419.03	2469.49	2513.28	2549.20	2613.72
2505.00	2420.05	2470.47	2514.28	2550.22	2614.76
2506.00	2421.06	2471.46	2515.28	2551.24	2615.81
2507.00	2422.08	2472.45	2516.29	2552.26	2616.85
2508.00	2423.09	2473.43	2517.29	2553.28	2617.89
2509.00	2424.11	2474.42	2518.30	2554.29	2618.94
2510.00	2425.12	2475.40	2519.30	2555.31	2619.98
2511.00	2426.13	2476.39	2520.30	2556.33	2621.03
2512.00	2427.15	2477.38	2521.31	2557.35	2622.07
2513.00	2428.16	2478.36	2522.31	2558.37	2623.11
2514.00	2429.18	2479.35	2523.31	2559.38	2624.16
2515.00	2430.19	2480.34	2524.32	2560.40	2625.20
2516.00	2431.21	2481.32	2525.32	2561.42	2626.24
2517.00	2432.22	2482.31	2526.33	2562.44	2627.29
2518.00	2433.24	2483.29	2527.33	2563.46	2628.33
2519.00	2434.25	2484.28	2528.33	2564.48	2629.38
2520.00	2435.27	2485.27	2529.34	2565.49	2630.42
2521.00	2436.28	2486.25	2530.34	2566.51	2631.46
2522.00	2437.30	2487.24	2531.34	2567.53	2632.51
2523.00	2438.31	2488.23	2532.35	2568.55	2633.55
2524.00	2439.33	2489.21	2533.35	2569.57	2634.59
2525.00	2440.34	2490.20	2534.36	2570.58	2635.64
2526.00	2441.36	2491.18	2535.36	2571.60	2636.68
2527.00	2442.37	2492.17	2536.36	2572.62	2637.73
2528.00	2443.38	2493.16	2537.37	2573.64	2638.77
2529.00	2444.40	2494.14	2538.37	2574.66	2639.81
2530.00	2445.41	2495.13	2539.37	2575.67	2640.86
2531.00	2446.43	2496.11	2540.38	2576.69	2641.90
2532.00	2447.44	2497.10	2541.38	2577.71	2642.94
2533.00	2448.46	2498.09	2542.38	2578.73	2643.99
2534.00	2449.47	2499.07	2543.39	2579.75	2645.03
2535.00	2450.49	2500.06	2544.39	2580.76	2646.08

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2536.00	2451.50	2501.05	2545.40	2581.78	2647.12
2537.00	2452.52	2502.03	2546.40	2582.80	2648.16
2538.00	2453.53	2503.02	2547.40	2583.82	2649.21
2539.00	2454.55	2504.00	2548.41	2584.84	2650.25
2540.00	2455.56	2504.99	2549.41	2585.86	2651.30
2541.00	2456.58	2505.98	2550.41	2586.87	2652.34
2542.00	2457.59	2506.96	2551.42	2587.89	2653.38
2543.00	2458.61	2507.95	2552.42	2588.91	2654.43
2544.00	2459.62	2508.94	2553.43	2589.93	2655.47
2545.00	2460.63	2509.92	2554.43	2590.95	2656.51
2546.00	2461.65	2510.91	2555.43	2591.96	2657.56
2547.00	2462.66	2511.89	2556.44	2592.98	2658.60
2548.00	2463.68	2512.88	2557.44	2594.00	2659.65
2549.00	2464.69	2513.87	2558.44	2595.02	2660.69
2550.00	2465.71	2514.85	2559.45	2596.04	2661.73
2551.00	2466.72	2515.84	2560.45	2597.05	2662.78
2552.00	2467.74	2516.83	2561.46	2598.07	2663.82
2553.00	2468.75	2517.81	2562.46	2599.09	2664.86
2554.00	2469.77	2518.80	2563.46	2600.11	2665.91
2555.00	2470.78	2519.78	2564.47	2601.13	2666.95
2556.00	2471.80	2520.77	2565.47	2602.14	2668.00
2557.00	2472.81	2521.76	2566.47	2603.16	2669.04
2558.00	2473.83	2522.74	2567.48	2604.18	2670.08
2559.00	2474.84	2523.73	2568.48	2605.20	2671.13
2560.00	2475.86	2524.71	2569.48	2606.22	2672.17
2561.00	2476.87	2525.70	2570.49	2607.24	2673.22
2562.00	2477.88	2526.69	2571.49	2608.25	2674.26
2563.00	2478.90	2527.67	2572.50	2609.27	2675.30
2564.00	2479.91	2528.66	2573.50	2610.29	2676.35
2565.00	2480.93	2529.65	2574.50	2611.31	2677.39
2566.00	2481.94	2530.63	2575.51	2612.33	2678.43
2567.00	2482.96	2531.62	2576.51	2613.34	2679.48
2568.00	2483.97	2532.60	2577.51	2614.36	2680.52
2569.00	2484.99	2533.59	2578.52	2615.38	2681.57
2570.00	2486.00	2534.58	2579.52	2616.40	2682.61
2571.00	2487.02	2535.56	2580.53	2617.42	2683.65
2572.00	2488.03	2536.55	2581.53	2618.43	2684.70
2573.00	2489.05	2537.54	2582.53	2619.45	2685.74
2574.00	2490.06	2538.52	2583.54	2620.47	2686.78
2575.00	2491.08	2539.51	2584.54	2621.49	2687.83
2576.00	2492.09	2540.49	2585.54	2622.51	2688.87
2577.00	2493.10	2541.48	2586.55	2623.52	2689.92
2578.00	2494.12	2542.47	2587.55	2624.54	2690.96
2579.00	2495.13	2543.45	2588.56	2625.56	2692.00
2580.00	2496.15	2544.44	2589.56	2626.58	2693.05
2581.00	2497.16	2545.42	2590.56	2627.60	2694.09

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2582.00	2498.18	2546.41	2591.57	2628.62	2695.13
2583.00	2499.19	2547.40	2592.57	2629.63	2696.18
2584.00	2500.21	2548.38	2593.57	2630.65	2697.22
2585.00	2501.22	2549.37	2594.58	2631.67	2698.27
2586.00	2502.24	2550.36	2595.58	2632.69	2699.31
2587.00	2503.25	2551.34	2596.58	2633.71	2700.35
2588.00	2504.27	2552.33	2597.59	2634.72	2701.40
2589.00	2505.28	2553.31	2598.59	2635.74	2702.44
2590.00	2506.30	2554.30	2599.60	2636.76	2703.49
2591.00	2507.31	2555.29	2600.60	2637.78	2704.53
2592.00	2508.33	2556.27	2601.60	2638.80	2705.57
2593.00	2509.34	2557.26	2602.61	2639.81	2706.62
2594.00	2510.35	2558.25	2603.61	2640.83	2707.66
2595.00	2511.37	2559.23	2604.61	2641.85	2708.70
2596.00	2512.38	2560.22	2605.62	2642.87	2709.75
2597.00	2513.40	2561.20	2606.62	2643.89	2710.79
2598.00	2514.41	2562.19	2607.63	2644.90	2711.84
2599.00	2515.43	2563.18	2608.63	2645.92	2712.88
2600.00	2516.44	2564.16	2609.63	2646.94	2713.92
2601.00	2517.46	2565.15	2610.64	2647.96	2714.97
2602.00	2518.47	2566.14	2611.64	2648.98	2716.01
2603.00	2519.49	2567.12	2612.64	2650.00	2717.05
2604.00	2520.50	2568.11	2613.65	2651.01	2718.10
2605.00	2521.52	2569.09	2614.65	2652.03	2719.14
2606.00	2522.53	2570.08	2615.65	2653.05	2720.19
2607.00	2523.55	2571.07	2616.66	2654.07	2721.23
2608.00	2524.56	2572.05	2617.66	2655.09	2722.27
2609.00	2525.58	2573.04	2618.67	2656.10	2723.32
2610.00	2526.59	2574.02	2619.67	2657.12	2724.36
2611.00	2527.60	2575.01	2620.67	2658.14	2725.41
2612.00	2528.62	2576.00	2621.68	2659.16	2726.45
2613.00	2529.63	2576.98	2622.68	2660.18	2727.49
2614.00	2530.65	2577.97	2623.68	2661.19	2728.54
2615.00	2531.66	2578.96	2624.69	2662.21	2729.58
2616.00	2532.68	2579.94	2625.69	2663.23	2730.62
2617.00	2533.69	2580.93	2626.70	2664.25	2731.67
2618.00	2534.71	2581.91	2627.70	2665.27	2732.71
2619.00	2535.72	2582.90	2628.70	2666.28	2733.76
2620.00	2536.74	2583.89	2629.71	2667.30	2734.80
2621.00	2537.75	2584.87	2630.71	2668.32	2735.84
2622.00	2538.77	2585.86	2631.71	2669.34	2736.89
2623.00	2539.78	2586.85	2632.72	2670.36	2737.93
2624.00	2540.80	2587.83	2633.72	2671.38	2738.97
2625.00	2541.81	2588.82	2634.73	2672.39	2740.02
2626.00	2542.83	2589.80	2635.73	2673.41	2741.06
2627.00	2543.84	2590.79	2636.73	2674.43	2742.11

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2628.00	2544.85	2591.78	2637.74	2675.45	2743.15
2629.00	2545.87	2592.76	2638.74	2676.47	2744.19
2630.00	2546.88	2593.75	2639.74	2677.48	2745.24
2631.00	2547.90	2594.73	2640.75	2678.50	2746.28
2632.00	2548.91	2595.72	2641.75	2679.52	2747.32
2633.00	2549.93	2596.71	2642.75	2680.54	2748.37
2634.00	2550.94	2597.69	2643.76	2681.56	2749.41
2635.00	2551.96	2598.68	2644.76	2682.57	2750.46
2636.00	2552.97	2599.67	2645.77	2683.59	2751.50
2637.00	2553.99	2600.65	2646.77	2684.61	2752.54
2638.00	2555.00	2601.64	2647.77	2685.63	2753.59
2639.00	2556.02	2602.62	2648.78	2686.65	2754.63
2640.00	2557.03	2603.61	2649.78	2687.67	2755.68
2641.00	2558.05	2604.60	2650.78	2688.68	2756.72
2642.00	2559.06	2605.58	2651.79	2689.70	2757.76
2643.00	2560.08	2606.57	2652.79	2690.72	2758.81
2644.00	2561.09	2607.56	2653.80	2691.74	2759.85
2645.00	2562.10	2608.54	2654.80	2692.76	2760.89
2646.00	2563.12	2609.53	2655.80	2693.77	2761.94
2647.00	2564.13	2610.51	2656.81	2694.79	2762.98
2648.00	2565.15	2611.50	2657.81	2695.81	2764.03
2649.00	2566.16	2612.49	2658.81	2696.83	2765.07
2650.00	2567.18	2613.47	2659.82	2697.85	2766.11
2651.00	2568.19	2614.46	2660.82	2698.86	2767.16
2652.00	2569.21	2615.45	2661.83	2699.88	2768.20
2653.00	2570.22	2616.43	2662.83	2700.90	2769.24
2654.00	2571.24	2617.42	2663.83	2701.92	2770.29
2655.00	2572.25	2618.40	2664.84	2702.94	2771.33
2656.00	2573.27	2619.39	2665.84	2703.95	2772.38
2657.00	2574.28	2620.38	2666.84	2704.97	2773.42
2658.00	2575.30	2621.36	2667.85	2705.99	2774.46
2659.00	2576.31	2622.35	2668.85	2707.01	2775.51
2660.00	2577.33	2623.33	2669.85	2708.03	2776.55
2661.00	2578.34	2624.32	2670.86	2709.05	2777.60
2662.00	2579.35	2625.31	2671.86	2710.06	2778.64
2663.00	2580.37	2626.29	2672.87	2711.08	2779.68
2664.00	2581.38	2627.28	2673.87	2712.10	2780.73
2665.00	2582.40	2628.27	2674.87	2713.12	2781.77
2666.00	2583.41	2629.25	2675.88	2714.14	2782.81
2667.00	2584.43	2630.24	2676.88	2715.15	2783.86
2668.00	2585.44	2631.22	2677.88	2716.17	2784.90
2669.00	2586.46	2632.21	2678.89	2717.19	2785.95
2670.00	2587.47	2633.20	2679.89	2718.21	2786.99
2671.00	2588.49	2634.18	2680.90	2719.23	2788.03
2672.00	2589.50	2635.17	2681.90	2720.24	2789.08
2673.00	2590.52	2636.16	2682.90	2721.26	2790.12

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2674.00	2591.53	2637.14	2683.91	2722.28	2791.16
2675.00	2592.55	2638.13	2684.91	2723.30	2792.21
2676.00	2593.56	2639.11	2685.91	2724.32	2793.25
2677.00	2594.57	2640.10	2686.92	2725.33	2794.30
2678.00	2595.59	2641.09	2687.92	2726.35	2795.34
2679.00	2596.60	2642.07	2688.93	2727.37	2796.38
2680.00	2597.62	2643.06	2689.93	2728.39	2797.43
2681.00	2598.63	2644.04	2690.93	2729.41	2798.47
2682.00	2599.65	2645.03	2691.94	2730.43	2799.51
2683.00	2600.66	2646.02	2692.94	2731.44	2800.56
2684.00	2601.68	2647.00	2693.94	2732.46	2801.60
2685.00	2602.69	2647.99	2694.95	2733.48	2802.65
2686.00	2603.71	2648.98	2695.95	2734.50	2803.69
2687.00	2604.72	2649.96	2696.95	2735.52	2804.73
2688.00	2605.74	2650.95	2697.96	2736.53	2805.78
2689.00	2606.75	2651.93	2698.96	2737.55	2806.82
2690.00	2607.77	2652.92	2699.97	2738.57	2807.87
2691.00	2608.78	2653.91	2700.97	2739.59	2808.91
2692.00	2609.80	2654.89	2701.97	2740.61	2809.95
2693.00	2610.81	2655.88	2702.98	2741.62	2811.00
2694.00	2611.82	2656.87	2703.98	2742.64	2812.04
2695.00	2612.84	2657.85	2704.98	2743.66	2813.08
2696.00	2613.85	2658.84	2705.99	2744.68	2814.13
2697.00	2614.87	2659.82	2706.99	2745.70	2815.17
2698.00	2615.88	2660.81	2708.00	2746.71	2816.22
2699.00	2616.90	2661.80	2709.00	2747.73	2817.26
2700.00	2617.91	2662.78	2710.00	2748.75	2818.30
2701.00	2618.93	2663.77	2711.01	2749.77	2819.35
2702.00	2619.94	2664.76	2712.01	2750.79	2820.39
2703.00	2620.96	2665.74	2713.01	2751.81	2821.43
2704.00	2621.97	2666.73	2714.02	2752.82	2822.48
2705.00	2622.99	2667.71	2715.02	2753.84	2823.52
2706.00	2624.00	2668.70	2716.02	2754.86	2824.57
2707.00	2625.02	2669.69	2717.03	2755.88	2825.61
2708.00	2626.03	2670.67	2718.03	2756.90	2826.65
2709.00	2627.05	2671.66	2719.04	2757.91	2827.70
2710.00	2628.06	2672.64	2720.04	2758.93	2828.74
2711.00	2629.07	2673.63	2721.04	2759.95	2829.79
2712.00	2630.09	2674.62	2722.05	2760.97	2830.83
2713.00	2631.10	2675.60	2723.05	2761.99	2831.87
2714.00	2632.12	2676.59	2724.05	2763.00	2832.92
2715.00	2633.13	2677.58	2725.06	2764.02	2833.96
2716.00	2634.15	2678.56	2726.06	2765.04	2835.00
2717.00	2635.16	2679.55	2727.07	2766.06	2836.05
2718.00	2636.18	2680.53	2728.07	2767.08	2837.09
2719.00	2637.19	2681.52	2729.07	2768.09	2838.14

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2720.00	2638.21	2682.51	2730.08	2769.11	2839.18
2721.00	2639.22	2683.49	2731.08	2770.13	2840.22
2722.00	2640.24	2684.48	2732.08	2771.15	2841.27
2723.00	2641.25	2685.47	2733.09	2772.17	2842.31
2724.00	2642.27	2686.45	2734.09	2773.19	2843.35
2725.00	2643.28	2687.44	2735.10	2774.20	2844.40
2726.00	2644.30	2688.42	2736.10	2775.22	2845.44
2727.00	2645.31	2689.41	2737.10	2776.24	2846.49
2728.00	2646.32	2690.40	2738.11	2777.26	2847.53
2729.00	2647.34	2691.38	2739.11	2778.28	2848.57
2730.00	2648.35	2692.37	2740.11	2779.29	2849.62
2731.00	2649.37	2693.35	2741.12	2780.31	2850.66
2732.00	2650.38	2694.34	2742.12	2781.33	2851.70
2733.00	2651.40	2695.33	2743.12	2782.35	2852.75
2734.00	2652.41	2696.31	2744.13	2783.37	2853.79
2735.00	2653.43	2697.30	2745.13	2784.38	2854.84
2736.00	2654.44	2698.29	2746.14	2785.40	2855.88
2737.00	2655.46	2699.27	2747.14	2786.42	2856.92
2738.00	2656.47	2700.26	2748.14	2787.44	2857.97
2739.00	2657.49	2701.24	2749.15	2788.46	2859.01
2740.00	2658.50	2702.23	2750.15	2789.48	2860.06
2741.00	2659.52	2703.22	2751.15	2790.49	2861.10
2742.00	2660.53	2704.20	2752.16	2791.51	2862.14
2743.00	2661.55	2705.19	2753.16	2792.53	2863.19
2744.00	2662.56	2706.18	2754.17	2793.55	2864.23
2745.00	2663.57	2707.16	2755.17	2794.57	2865.27
2746.00	2664.59	2708.15	2756.17	2795.58	2866.32
2747.00	2665.60	2709.13	2757.18	2796.60	2867.36
2748.00	2666.62	2710.12	2758.18	2797.62	2868.41
2749.00	2667.63	2711.11	2759.18	2798.64	2869.45
2750.00	2668.65	2712.09	2760.19	2799.66	2870.49
2751.00	2669.66	2713.08	2761.19	2800.67	2871.54
2752.00	2670.68	2714.07	2762.20	2801.69	2872.58
2753.00	2671.69	2715.05	2763.20	2802.71	2873.62
2754.00	2672.71	2716.04	2764.20	2803.73	2874.67
2755.00	2673.72	2717.02	2765.21	2804.75	2875.71
2756.00	2674.74	2718.01	2766.21	2805.76	2876.76
2757.00	2675.75	2719.00	2767.21	2806.78	2877.80
2758.00	2676.77	2719.98	2768.22	2807.80	2878.84
2759.00	2677.78	2720.97	2769.22	2808.82	2879.89
2760.00	2678.80	2721.95	2770.22	2809.84	2880.93
2761.00	2679.81	2722.94	2771.23	2810.86	2881.98
2762.00	2680.82	2723.93	2772.23	2811.87	2883.02
2763.00	2681.84	2724.91	2773.24	2812.89	2884.06
2764.00	2682.85	2725.90	2774.24	2813.91	2885.11
2765.00	2683.87	2726.89	2775.24	2814.93	2886.15

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2766.00	2684.88	2727.87	2776.25	2815.95	2887.19
2767.00	2685.90	2728.86	2777.25	2816.96	2888.24
2768.00	2686.91	2729.84	2778.25	2817.98	2889.28
2769.00	2687.93	2730.83	2779.26	2819.00	2890.33
2770.00	2688.94	2731.82	2780.26	2820.02	2891.37
2771.00	2689.96	2732.80	2781.27	2821.04	2892.41
2772.00	2690.97	2733.79	2782.27	2822.05	2893.46
2773.00	2691.99	2734.78	2783.27	2823.07	2894.50
2774.00	2693.00	2735.76	2784.28	2824.09	2895.54
2775.00	2694.02	2736.75	2785.28	2825.11	2896.59
2776.00	2695.03	2737.73	2786.28	2826.13	2897.63
2777.00	2696.04	2738.72	2787.29	2827.14	2898.68
2778.00	2697.06	2739.71	2788.29	2828.16	2899.72
2779.00	2698.07	2740.69	2789.30	2829.18	2900.76
2780.00	2699.09	2741.68	2790.30	2830.20	2901.81
2781.00	2700.10	2742.66	2791.30	2831.22	2902.85
2782.00	2701.12	2743.65	2792.31	2832.24	2903.89
2783.00	2702.13	2744.64	2793.31	2833.25	2904.94
2784.00	2703.15	2745.62	2794.31	2834.27	2905.98
2785.00	2704.16	2746.61	2795.32	2835.29	2907.03
2786.00	2705.18	2747.60	2796.32	2836.31	2908.07
2787.00	2706.19	2748.58	2797.32	2837.33	2909.11
2788.00	2707.21	2749.57	2798.33	2838.34	2910.16
2789.00	2708.22	2750.55	2799.33	2839.36	2911.20
2790.00	2709.24	2751.54	2800.34	2840.38	2912.25
2791.00	2710.25	2752.53	2801.34	2841.40	2913.29
2792.00	2711.27	2753.51	2802.34	2842.42	2914.33
2793.00	2712.28	2754.50	2803.35	2843.43	2915.38
2794.00	2713.29	2755.49	2804.35	2844.45	2916.42
2795.00	2714.31	2756.47	2805.35	2845.47	2917.46
2796.00	2715.32	2757.46	2806.36	2846.49	2918.51
2797.00	2716.34	2758.44	2807.36	2847.51	2919.55
2798.00	2717.35	2759.43	2808.37	2848.52	2920.60
2799.00	2718.37	2760.42	2809.37	2849.54	2921.64
2800.00	2719.38	2761.40	2810.37	2850.56	2922.68
2801.00	2720.40	2762.39	2811.38	2851.58	2923.73
2802.00	2721.41	2763.38	2812.38	2852.60	2924.77
2803.00	2722.43	2764.36	2813.38	2853.62	2925.81
2804.00	2723.44	2765.35	2814.39	2854.63	2926.86
2805.00	2724.46	2766.33	2815.39	2855.65	2927.90
2806.00	2725.47	2767.32	2816.39	2856.67	2928.95
2807.00	2726.49	2768.31	2817.40	2857.69	2929.99
2808.00	2727.50	2769.29	2818.40	2858.71	2931.03
2809.00	2728.52	2770.28	2819.41	2859.72	2932.08
2810.00	2729.53	2771.26	2820.41	2860.74	2933.12
2811.00	2730.54	2772.25	2821.41	2861.76	2934.17

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2812.00	2731.56	2773.24	2822.42	2862.78	2935.21
2813.00	2732.57	2774.22	2823.42	2863.80	2936.25
2814.00	2733.59	2775.21	2824.42	2864.81	2937.30
2815.00	2734.60	2776.20	2825.43	2865.83	2938.34
2816.00	2735.62	2777.18	2826.43	2866.85	2939.38
2817.00	2736.63	2778.17	2827.44	2867.87	2940.43
2818.00	2737.65	2779.15	2828.44	2868.89	2941.47
2819.00	2738.66	2780.14	2829.44	2869.90	2942.52
2820.00	2739.68	2781.13	2830.45	2870.92	2943.56
2821.00	2740.69	2782.11	2831.45	2871.94	2944.60
2822.00	2741.71	2783.10	2832.45	2872.96	2945.65
2823.00	2742.72	2784.09	2833.46	2873.98	2946.69
2824.00	2743.74	2785.07	2834.46	2875.00	2947.73
2825.00	2744.75	2786.06	2835.47	2876.01	2948.78
2826.00	2745.77	2787.04	2836.47	2877.03	2949.82
2827.00	2746.78	2788.03	2837.47	2878.05	2950.87
2828.00	2747.79	2789.02	2838.48	2879.07	2951.91
2829.00	2748.81	2790.00	2839.48	2880.09	2952.95
2830.00	2749.82	2790.99	2840.48	2881.10	2954.00
2831.00	2750.84	2791.97	2841.49	2882.12	2955.04
2832.00	2751.85	2792.96	2842.49	2883.14	2956.08
2833.00	2752.87	2793.95	2843.49	2884.16	2957.13
2834.00	2753.88	2794.93	2844.50	2885.18	2958.17
2835.00	2754.90	2795.92	2845.50	2886.19	2959.22
2836.00	2755.91	2796.91	2846.51	2887.21	2960.26
2837.00	2756.93	2797.89	2847.51	2888.23	2961.30
2838.00	2757.94	2798.88	2848.51	2889.25	2962.35
2839.00	2758.96	2799.86	2849.52	2890.27	2963.39
2840.00	2759.97	2800.85	2850.52	2891.29	2964.44
2841.00	2760.99	2801.84	2851.52	2892.30	2965.48
2842.00	2762.00	2802.82	2852.53	2893.32	2966.52
2843.00	2763.02	2803.81	2853.53	2894.34	2967.57
2844.00	2764.03	2804.80	2854.54	2895.36	2968.61
2845.00	2765.04	2805.78	2855.54	2896.38	2969.65
2846.00	2766.06	2806.77	2856.54	2897.39	2970.70
2847.00	2767.07	2807.75	2857.55	2898.41	2971.74
2848.00	2768.09	2808.74	2858.55	2899.43	2972.79
2849.00	2769.10	2809.73	2859.55	2900.45	2973.83
2850.00	2770.12	2810.71	2860.56	2901.47	2974.87
2851.00	2771.13	2811.70	2861.56	2902.48	2975.92
2852.00	2772.15	2812.69	2862.57	2903.50	2976.96
2853.00	2773.16	2813.67	2863.57	2904.52	2978.00
2854.00	2774.18	2814.66	2864.57	2905.54	2979.05
2855.00	2775.19	2815.64	2865.58	2906.56	2980.09
2856.00	2776.21	2816.63	2866.58	2907.57	2981.14
2857.00	2777.22	2817.62	2867.58	2908.59	2982.18

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2858.00	2778.24	2818.60	2868.59	2909.61	2983.22
2859.00	2779.25	2819.59	2869.59	2910.63	2984.27
2860.00	2780.27	2820.57	2870.59	2911.65	2985.31
2861.00	2781.28	2821.56	2871.60	2912.67	2986.36
2862.00	2782.29	2822.55	2872.60	2913.68	2987.40
2863.00	2783.31	2823.53	2873.61	2914.70	2988.44
2864.00	2784.32	2824.52	2874.61	2915.72	2989.49
2865.00	2785.34	2825.51	2875.61	2916.74	2990.53
2866.00	2786.35	2826.49	2876.62	2917.76	2991.57
2867.00	2787.37	2827.48	2877.62	2918.77	2992.62
2868.00	2788.38	2828.46	2878.62	2919.79	2993.66
2869.00	2789.40	2829.45	2879.63	2920.81	2994.71
2870.00	2790.41	2830.44	2880.63	2921.83	2995.75
2871.00	2791.43	2831.42	2881.64	2922.85	2996.79
2872.00	2792.44	2832.41	2882.64	2923.86	2997.84
2873.00	2793.46	2833.40	2883.64	2924.88	2998.88
2874.00	2794.47	2834.38	2884.65	2925.90	2999.92
2875.00	2795.49	2835.37	2885.65	2926.92	3000.97
2876.00	2796.50	2836.35	2886.65	2927.94	3002.01
2877.00	2797.51	2837.34	2887.66	2928.95	3003.06
2878.00	2798.53	2838.33	2888.66	2929.97	3004.10
2879.00	2799.54	2839.31	2889.67	2930.99	3005.14
2880.00	2800.56	2840.30	2890.67	2932.01	3006.19
2881.00	2801.57	2841.28	2891.67	2933.03	3007.23
2882.00	2802.59	2842.27	2892.68	2934.05	3008.27
2883.00	2803.60	2843.26	2893.68	2935.06	3009.32
2884.00	2804.62	2844.24	2894.68	2936.08	3010.36
2885.00	2805.63	2845.23	2895.69	2937.10	3011.41
2886.00	2806.65	2846.22	2896.69	2938.12	3012.45
2887.00	2807.66	2847.20	2897.69	2939.14	3013.49
2888.00	2808.68	2848.19	2898.70	2940.15	3014.54
2889.00	2809.69	2849.17	2899.70	2941.17	3015.58
2890.00	2810.71	2850.16	2900.71	2942.19	3016.63
2891.00	2811.72	2851.15	2901.71	2943.21	3017.67
2892.00	2812.74	2852.13	2902.71	2944.23	3018.71
2893.00	2813.75	2853.12	2903.72	2945.24	3019.76
2894.00	2814.76	2854.11	2904.72	2946.26	3020.80
2895.00	2815.78	2855.09	2905.72	2947.28	3021.84
2896.00	2816.79	2856.08	2906.73	2948.30	3022.89
2897.00	2817.81	2857.06	2907.73	2949.32	3023.93
2898.00	2818.82	2858.05	2908.74	2950.33	3024.98
2899.00	2819.84	2859.04	2909.74	2951.35	3026.02
2900.00	2820.85	2860.02	2910.74	2952.37	3027.06
2901.00	2821.87	2861.01	2911.75	2953.39	3028.11
2902.00	2822.88	2862.00	2912.75	2954.41	3029.15
2903.00	2823.90	2862.98	2913.75	2955.43	3030.19

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2904.00	2824.91	2863.97	2914.76	2956.44	3031.24
2905.00	2825.93	2864.95	2915.76	2957.46	3032.28
2906.00	2826.94	2865.94	2916.76	2958.48	3033.33
2907.00	2827.96	2866.93	2917.77	2959.50	3034.37
2908.00	2828.97	2867.91	2918.77	2960.52	3035.41
2909.00	2829.99	2868.90	2919.78	2961.53	3036.46
2910.00	2831.00	2869.88	2920.78	2962.55	3037.50
2911.00	2832.01	2870.87	2921.78	2963.57	3038.55
2912.00	2833.03	2871.86	2922.79	2964.59	3039.59
2913.00	2834.04	2872.84	2923.79	2965.61	3040.63
2914.00	2835.06	2873.83	2924.79	2966.62	3041.68
2915.00	2836.07	2874.82	2925.80	2967.64	3042.72
2916.00	2837.09	2875.80	2926.80	2968.66	3043.76
2917.00	2838.10	2876.79	2927.81	2969.68	3044.81
2918.00	2839.12	2877.77	2928.81	2970.70	3045.85
2919.00	2840.13	2878.76	2929.81	2971.71	3046.90
2920.00	2841.15	2879.75	2930.82	2972.73	3047.94
2921.00	2842.16	2880.73	2931.82	2973.75	3048.98
2922.00	2843.18	2881.72	2932.82	2974.77	3050.03
2923.00	2844.19	2882.71	2933.83	2975.79	3051.07
2924.00	2845.21	2883.69	2934.83	2976.81	3052.11
2925.00	2846.22	2884.68	2935.84	2977.82	3053.16
2926.00	2847.24	2885.66	2936.84	2978.84	3054.20
2927.00	2848.25	2886.65	2937.84	2979.86	3055.25
2928.00	2849.26	2887.64	2938.85	2980.88	3056.29
2929.00	2850.28	2888.62	2939.85	2981.90	3057.33
2930.00	2851.29	2889.61	2940.85	2982.91	3058.38
2931.00	2852.31	2890.59	2941.86	2983.93	3059.42
2932.00	2853.32	2891.58	2942.86	2984.95	3060.46
2933.00	2854.34	2892.57	2943.86	2985.97	3061.51
2934.00	2855.35	2893.55	2944.87	2986.99	3062.55
2935.00	2856.37	2894.54	2945.87	2988.00	3063.60
2936.00	2857.38	2895.53	2946.88	2989.02	3064.64
2937.00	2858.40	2896.51	2947.88	2990.04	3065.68
2938.00	2859.41	2897.50	2948.88	2991.06	3066.73
2939.00	2860.43	2898.48	2949.89	2992.08	3067.77
2940.00	2861.44	2899.47	2950.89	2993.10	3068.82
2941.00	2862.46	2900.46	2951.89	2994.11	3069.86
2942.00	2863.47	2901.44	2952.90	2995.13	3070.90
2943.00	2864.49	2902.43	2953.90	2996.15	3071.95
2944.00	2865.50	2903.42	2954.91	2997.17	3072.99
2945.00	2866.51	2904.40	2955.91	2998.19	3074.03
2946.00	2867.53	2905.39	2956.91	2999.20	3075.08
2947.00	2868.54	2906.37	2957.92	3000.22	3076.12
2948.00	2869.56	2907.36	2958.92	3001.24	3077.17
2949.00	2870.57	2908.35	2959.92	3002.26	3078.21

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2950.00	2871.59	2909.33	2960.93	3003.28	3079.25
2951.00	2872.60	2910.32	2961.93	3004.29	3080.30
2952.00	2873.62	2911.31	2962.94	3005.31	3081.34
2953.00	2874.63	2912.29	2963.94	3006.33	3082.38
2954.00	2875.65	2913.28	2964.94	3007.35	3083.43
2955.00	2876.66	2914.26	2965.95	3008.37	3084.47
2956.00	2877.68	2915.25	2966.95	3009.38	3085.52
2957.00	2878.69	2916.24	2967.95	3010.40	3086.56
2958.00	2879.71	2917.22	2968.96	3011.42	3087.60
2959.00	2880.72	2918.21	2969.96	3012.44	3088.65
2960.00	2881.74	2919.19	2970.96	3013.46	3089.69
2961.00	2882.75	2920.18	2971.97	3014.48	3090.74
2962.00	2883.76	2921.17	2972.97	3015.49	3091.78
2963.00	2884.78	2922.15	2973.98	3016.51	3092.82
2964.00	2885.79	2923.14	2974.98	3017.53	3093.87
2965.00	2886.81	2924.13	2975.98	3018.55	3094.91
2966.00	2887.82	2925.11	2976.99	3019.57	3095.95
2967.00	2888.84	2926.10	2977.99	3020.58	3097.00
2968.00	2889.85	2927.08	2978.99	3021.60	3098.04
2969.00	2890.87	2928.07	2980.00	3022.62	3099.09
2970.00	2891.88	2929.06	2981.00	3023.64	3100.13
2971.00	2892.90	2930.04	2982.01	3024.66	3101.17
2972.00	2893.91	2931.03	2983.01	3025.67	3102.22
2973.00	2894.93	2932.02	2984.01	3026.69	3103.26
2974.00	2895.94	2933.00	2985.02	3027.71	3104.30
2975.00	2896.96	2933.99	2986.02	3028.73	3105.35
2976.00	2897.97	2934.97	2987.02	3029.75	3106.39
2977.00	2898.98	2935.96	2988.03	3030.76	3107.44
2978.00	2900.00	2936.95	2989.03	3031.78	3108.48
2979.00	2901.01	2937.93	2990.04	3032.80	3109.52
2980.00	2902.03	2938.92	2991.04	3033.82	3110.57
2981.00	2903.04	2939.90	2992.04	3034.84	3111.61
2982.00	2904.06	2940.89	2993.05	3035.86	3112.65
2983.00	2905.07	2941.88	2994.05	3036.87	3113.70
2984.00	2906.09	2942.86	2995.05	3037.89	3114.74
2985.00	2907.10	2943.85	2996.06	3038.91	3115.79
2986.00	2908.12	2944.84	2997.06	3039.93	3116.83
2987.00	2909.13	2945.82	2998.06	3040.95	3117.87
2988.00	2910.15	2946.81	2999.07	3041.96	3118.92
2989.00	2911.16	2947.79	3000.07	3042.98	3119.96
2990.00	2912.18	2948.78	3001.08	3044.00	3121.01
2991.00	2913.19	2949.77	3002.08	3045.02	3122.05
2992.00	2914.21	2950.75	3003.08	3046.04	3123.09
2993.00	2915.22	2951.74	3004.09	3047.05	3124.14
2994.00	2916.23	2952.73	3005.09	3048.07	3125.18
2995.00	2917.25	2953.71	3006.09	3049.09	3126.22

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2996.00	2918.26	2954.70	3007.10	3050.11	3127.27
2997.00	2919.28	2955.68	3008.10	3051.13	3128.31
2998.00	2920.29	2956.67	3009.11	3052.14	3129.36
2999.00	2921.31	2957.66	3010.11	3053.16	3130.40
3000.00	2922.32	2958.64	3011.11	3054.18	3131.44
3010.00	2932.47	2968.50	3021.15	3064.36	3141.88
3020.00	2942.62	2978.37	3031.19	3074.54	3152.32
3030.00	2952.76	2988.23	3041.22	3084.72	3162.76
3040.00	2962.91	2998.09	3051.26	3094.91	3173.20
3050.00	2973.06	3007.95	3061.30	3105.09	3183.63
3060.00	2983.21	3017.81	3071.33	3115.27	3194.07
3070.00	2993.35	3027.68	3081.37	3125.45	3204.51
3080.00	3003.50	3037.54	3091.41	3135.63	3214.95
3090.00	3013.65	3047.40	3101.45	3145.81	3225.39
3100.00	3023.79	3057.26	3111.48	3155.99	3235.82
3110.00	3033.94	3067.12	3121.52	3166.17	3246.26
3120.00	3044.09	3076.99	3131.56	3176.35	3256.70
3130.00	3054.23	3086.85	3141.59	3186.53	3267.14
3140.00	3064.38	3096.71	3151.63	3196.72	3277.58
3150.00	3074.53	3106.57	3161.67	3206.90	3288.01
3160.00	3084.68	3116.43	3171.70	3217.08	3298.45
3170.00	3094.82	3126.30	3181.74	3227.26	3308.89
3180.00	3104.97	3136.16	3191.78	3237.44	3319.33
3190.00	3115.12	3146.02	3201.82	3247.62	3329.77
3200.00	3125.26	3155.88	3211.85	3257.80	3340.20
3210.00	3135.41	3165.74	3221.89	3267.98	3350.64
3220.00	3145.56	3175.61	3231.93	3278.16	3361.08
3230.00	3155.70	3185.47	3241.96	3288.34	3371.52
3240.00	3165.85	3195.33	3252.00	3298.53	3381.96
3250.00	3176.00	3205.19	3262.04	3308.71	3392.39
3260.00	3186.15	3215.05	3272.07	3318.89	3402.83
3270.00	3196.29	3224.92	3282.11	3329.07	3413.27
3280.00	3206.44	3234.78	3292.15	3339.25	3423.71
3290.00	3216.59	3244.64	3302.19	3349.43	3434.15
3300.00	3226.73	3254.50	3312.22	3359.61	3444.58
3310.00	3236.88	3264.36	3322.26	3369.79	3455.02
3320.00	3247.03	3274.23	3332.30	3379.97	3465.46
3330.00	3257.17	3284.09	3342.33	3390.15	3475.90
3340.00	3267.32	3293.95	3352.37	3400.34	3486.34
3350.00	3277.47	3303.81	3362.41	3410.52	3496.77
3360.00	3287.62	3313.67	3372.44	3420.70	3507.21
3370.00	3297.76	3323.54	3382.48	3430.88	3517.65
3380.00	3307.91	3333.40	3392.52	3441.06	3528.09
3390.00	3318.06	3343.26	3402.56	3451.24	3538.53
3400.00	3328.20	3353.12	3412.59	3461.42	3548.96
3410.00	3338.35	3362.98	3422.63	3471.60	3559.40

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3420.00	3348.50	3372.85	3432.67	3481.78	3569.84
3430.00	3358.64	3382.71	3442.70	3491.96	3580.28
3440.00	3368.79	3392.57	3452.74	3502.15	3590.72
3450.00	3378.94	3402.43	3462.78	3512.33	3601.15
3460.00	3389.09	3412.29	3472.81	3522.51	3611.59
3470.00	3399.23	3422.16	3482.85	3532.69	3622.03
3480.00	3409.38	3432.02	3492.89	3542.87	3632.47
3490.00	3419.53	3441.88	3502.93	3553.05	3642.91
3500.00	3429.67	3451.74	3512.96	3563.23	3653.34
3510.00	3439.82	3461.60	3523.00	3573.41	3663.78
3520.00	3449.97	3471.47	3533.04	3583.59	3674.22
3530.00	3460.11	3481.33	3543.07	3593.77	3684.66
3540.00	3470.26	3491.19	3553.11	3603.96	3695.10
3550.00	3480.41	3501.05	3563.15	3614.14	3705.53
3560.00	3490.56	3510.91	3573.18	3624.32	3715.97
3570.00	3500.70	3520.78	3583.22	3634.50	3726.41
3580.00	3510.85	3530.64	3593.26	3644.68	3736.85
3590.00	3521.00	3540.50	3603.30	3654.86	3747.29
3600.00	3531.14	3550.36	3613.33	3665.04	3757.72
3610.00	3541.29	3560.22	3623.37	3675.22	3768.16
3620.00	3551.44	3570.09	3633.41	3685.40	3778.60
3630.00	3561.58	3579.95	3643.44	3695.58	3789.04
3640.00	3571.73	3589.81	3653.48	3705.77	3799.48
3650.00	3581.88	3599.67	3663.52	3715.95	3809.91
3660.00	3592.03	3609.53	3673.55	3726.13	3820.35
3670.00	3602.17	3619.40	3683.59	3736.31	3830.79
3680.00	3612.32	3629.26	3693.63	3746.49	3841.23
3690.00	3622.47	3639.12	3703.67	3756.67	3851.67
3700.00	3632.61	3648.98	3713.70	3766.85	3862.10
3710.00	3642.76	3658.84	3723.74	3777.03	3872.54
3720.00	3652.91	3668.71	3733.78	3787.21	3882.98
3730.00	3663.05	3678.57	3743.81	3797.39	3893.42
3740.00	3673.20	3688.43	3753.85	3807.58	3903.86
3750.00	3683.35	3698.29	3763.89	3817.76	3914.29
3760.00	3693.50	3708.15	3773.92	3827.94	3924.73
3770.00	3703.64	3718.02	3783.96	3838.12	3935.17
3780.00	3713.79	3727.88	3794.00	3848.30	3945.61
3790.00	3723.94	3737.74	3804.04	3858.48	3956.05
3800.00	3734.08	3747.60	3814.07	3868.66	3966.48
3810.00	3744.23	3757.46	3824.11	3878.84	3976.92
3820.00	3754.38	3767.33	3834.15	3889.02	3987.36
3830.00	3764.52	3777.19	3844.18	3899.20	3997.80
3840.00	3774.67	3787.05	3854.22	3909.39	4008.24
3850.00	3784.82	3796.91	3864.26	3919.57	4018.67
3860.00	3794.97	3806.77	3874.29	3929.75	4029.11
3870.00	3805.11	3816.64	3884.33	3939.93	4039.55

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3880.00	3815.26	3826.50	3894.37	3950.11	4049.99
3890.00	3825.41	3836.36	3904.41	3960.29	4060.43
3900.00	3835.55	3846.22	3914.44	3970.47	4070.86
3910.00	3845.70	3856.08	3924.48	3980.65	4081.30
3920.00	3855.85	3865.95	3934.52	3990.83	4091.74
3930.00	3865.99	3875.81	3944.55	4001.01	4102.18
3940.00	3876.14	3885.67	3954.59	4011.20	4112.62
3950.00	3886.29	3895.53	3964.63	4021.38	4123.05
3960.00	3896.44	3905.39	3974.66	4031.56	4133.49
3970.00	3906.58	3915.26	3984.70	4041.74	4143.93
3980.00	3916.73	3925.12	3994.74	4051.92	4154.37
3990.00	3926.88	3934.98	4004.78	4062.10	4164.81
4000.00	3937.02	3944.84	4014.81	4072.28	4175.24
4010.00	3947.17	3954.70	4024.85	4082.46	4185.68
4020.00	3957.32	3964.57	4034.89	4092.64	4196.12
4030.00	3967.46	3974.43	4044.92	4102.82	4206.56
4040.00	3977.61	3984.29	4054.96	4113.01	4217.00
4050.00	3987.76	3994.15	4065.00	4123.19	4227.43
4060.00	3997.91	4004.01	4075.03	4133.37	4237.87
4070.00	4008.05	4013.88	4085.07	4143.55	4248.31
4080.00	4018.20	4023.74	4095.11	4153.73	4258.75
4090.00	4028.35	4033.60	4105.15	4163.91	4269.19
4100.00	4038.49	4043.46	4115.18	4174.09	4279.62
4110.00	4048.64	4053.32	4125.22	4184.27	4290.06
4120.00	4058.79	4063.19	4135.26	4194.45	4300.50
4130.00	4068.93	4073.05	4145.29	4204.63	4310.94
4140.00	4079.08	4082.91	4155.33	4214.82	4321.38
4150.00	4089.23	4092.77	4165.37	4225.00	4331.81
4160.00	4099.38	4102.63	4175.40	4235.18	4342.25
4170.00	4109.52	4112.50	4185.44	4245.36	4352.69
4180.00	4119.67	4122.36	4195.48	4255.54	4363.13
4190.00	4129.82	4132.22	4205.52	4265.72	4373.57
4200.00	4139.96	4142.08	4215.55	4275.90	4384.00
4210.00	4150.11	4151.94	4225.59	4286.08	4394.44
4220.00	4160.26	4161.81	4235.63	4296.26	4404.88
4230.00	4170.40	4171.67	4245.66	4306.44	4415.32
4240.00	4180.55	4181.53	4255.70	4316.63	4425.76
4250.00	4190.70	4191.39	4265.74	4326.81	4436.19
4260.00	4200.85	4201.25	4275.77	4336.99	4446.63
4270.00	4210.99	4211.12	4285.81	4347.17	4457.07
4280.00	4221.14	4220.98	4295.85	4357.35	4467.51
4290.00	4231.29	4230.84	4305.89	4367.53	4477.95
4300.00	4241.43	4240.70	4315.92	4377.71	4488.38
4310.00	4251.58	4250.56	4325.96	4387.89	4498.82
4320.00	4261.73	4260.43	4336.00	4398.07	4509.26
4330.00	4271.87	4270.29	4346.03	4408.25	4519.70

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4340.00	4282.02	4280.15	4356.07	4418.44	4530.14
4350.00	4292.17	4290.01	4366.11	4428.62	4540.57
4360.00	4302.32	4299.87	4376.14	4438.80	4551.01
4370.00	4312.46	4309.74	4386.18	4448.98	4561.45
4380.00	4322.61	4319.60	4396.22	4459.16	4571.89
4390.00	4332.76	4329.46	4406.26	4469.34	4582.33
4400.00	4342.90	4339.32	4416.29	4479.52	4592.76
4410.00	4353.05	4349.18	4426.33	4489.70	4603.20
4420.00	4363.20	4359.05	4436.37	4499.88	4613.64
4430.00	4373.34	4368.91	4446.40	4510.06	4624.08
4440.00	4383.49	4378.77	4456.44	4520.25	4634.52
4450.00	4393.64	4388.63	4466.48	4530.43	4644.95
4460.00	4403.79	4398.49	4476.51	4540.61	4655.39
4470.00	4413.93	4408.36	4486.55	4550.79	4665.83
4480.00	4424.08	4418.22	4496.59	4560.97	4676.27
4490.00	4434.23	4428.08	4506.63	4571.15	4686.71
4500.00	4444.37	4437.94	4516.66	4581.33	4697.14
4510.00	4454.52	4447.80	4526.70	4591.51	4707.58
4520.00	4464.67	4457.67	4536.74	4601.69	4718.02
4530.00	4474.81	4467.53	4546.77	4611.87	4728.46
4540.00	4484.96	4477.39	4556.81	4622.06	4738.90
4550.00	4495.11	4487.25	4566.85	4632.24	4749.33
4560.00	4505.26	4497.11	4576.88	4642.42	4759.77
4570.00	4515.40	4506.98	4586.92	4652.60	4770.21
4580.00	4525.55	4516.84	4596.96	4662.78	4780.65
4590.00	4535.70	4526.70	4607.00	4672.96	4791.09
4600.00	4545.84	4536.56	4617.03	4683.14	4801.52
4610.00	4555.99	4546.42	4627.07	4693.32	4811.96
4620.00	4566.14	4556.29	4637.11	4703.50	4822.40
4630.00	4576.28	4566.15	4647.14	4713.68	4832.84
4640.00	4586.43	4576.01	4657.18	4723.87	4843.28
4650.00	4596.58	4585.87	4667.22	4734.05	4853.71
4660.00	4606.73	4595.73	4677.25	4744.23	4864.15
4670.00	4616.87	4605.60	4687.29	4754.41	4874.59
4680.00	4627.02	4615.46	4697.33	4764.59	4885.03
4690.00	4637.17	4625.32	4707.37	4774.77	4895.47
4700.00	4647.31	4635.18	4717.40	4784.95	4905.90
4710.00	4657.46	4645.04	4727.44	4795.13	4916.34
4720.00	4667.61	4654.91	4737.48	4805.31	4926.78
4730.00	4677.75	4664.77	4747.51	4815.49	4937.22
4740.00	4687.90	4674.63	4757.55	4825.68	4947.66
4750.00	4698.05	4684.49	4767.59	4835.86	4958.09
4760.00	4708.20	4694.35	4777.62	4846.04	4968.53
4770.00	4718.34	4704.22	4787.66	4856.22	4978.97
4780.00	4728.49	4714.08	4797.70	4866.40	4989.41
4790.00	4738.64	4723.94	4807.74	4876.58	4999.85

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4800.00	4748.78	4733.80	4817.77	4886.76	5010.28
4810.00	4758.93	4743.66	4827.81	4896.94	5020.72
4820.00	4769.08	4753.53	4837.85	4907.12	5031.16
4830.00	4779.22	4763.39	4847.88	4917.30	5041.60
4840.00	4789.37	4773.25	4857.92	4927.49	5052.04
4850.00	4799.52	4783.11	4867.96	4937.67	5062.47
4860.00	4809.67	4792.97	4877.99	4947.85	5072.91
4870.00	4819.81	4802.84	4888.03	4958.03	5083.35
4880.00	4829.96	4812.70	4898.07	4968.21	5093.79
4890.00	4840.11	4822.56	4908.11	4978.39	5104.23
4900.00	4850.25	4832.42	4918.14	4988.57	5114.66
4910.00	4860.40	4842.28	4928.18	4998.75	5125.10
4920.00	4870.55	4852.15	4938.22	5008.93	5135.54
4930.00	4880.69	4862.01	4948.25	5019.11	5145.98
4940.00	4890.84	4871.87	4958.29	5029.30	5156.42
4950.00	4900.99	4881.73	4968.33	5039.48	5166.85
4960.00	4911.14	4891.59	4978.36	5049.66	5177.29
4970.00	4921.28	4901.46	4988.40	5059.84	5187.73
4980.00	4931.43	4911.32	4998.44	5070.02	5198.17
4990.00	4941.58	4921.18	5008.48	5080.20	5208.61
5000.00	4951.72	4931.04	5018.51	5090.38	5219.04
5010.00	4961.87	4940.90	5028.55	5100.56	5229.48
5020.00	4972.02	4950.77	5038.59	5110.74	5239.92
5030.00	4982.16	4960.63	5048.62	5120.92	5250.36
5040.00	4992.31	4970.49	5058.66	5131.11	5260.80
5050.00	5002.46	4980.35	5068.70	5141.29	5271.23
5060.00	5012.61	4990.21	5078.73	5151.47	5281.67
5070.00	5022.75	5000.08	5088.77	5161.65	5292.11
5080.00	5032.90	5009.94	5098.81	5171.83	5302.55
5090.00	5043.05	5019.80	5108.85	5182.01	5312.99
5100.00	5053.19	5029.66	5118.88	5192.19	5323.42
5110.00	5063.34	5039.52	5128.92	5202.37	5333.86
5120.00	5073.49	5049.39	5138.96	5212.55	5344.30
5130.00	5083.63	5059.25	5148.99	5222.73	5354.74
5140.00	5093.78	5069.11	5159.03	5232.92	5365.18
5150.00	5103.93	5078.97	5169.07	5243.10	5375.61
5160.00	5114.08	5088.83	5179.10	5253.28	5386.05
5170.00	5124.22	5098.70	5189.14	5263.46	5396.49
5180.00	5134.37	5108.56	5199.18	5273.64	5406.93
5190.00	5144.52	5118.42	5209.22	5283.82	5417.37
5200.00	5154.66	5128.28	5219.25	5294.00	5427.80
5210.00	5164.81	5138.14	5229.29	5304.18	5438.24
5220.00	5174.96	5148.01	5239.33	5314.36	5448.68
5230.00	5185.10	5157.87	5249.36	5324.54	5459.12
5240.00	5195.25	5167.73	5259.40	5334.73	5469.56
5250.00	5205.40	5177.59	5269.44	5344.91	5479.99

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5260.00	5215.55	5187.45	5279.47	5355.09	5490.43
5270.00	5225.69	5197.32	5289.51	5365.27	5500.87
5280.00	5235.84	5207.18	5299.55	5375.45	5511.31
5290.00	5245.99	5217.04	5309.59	5385.63	5521.75
5300.00	5256.13	5226.90	5319.62	5395.81	5532.18
5310.00	5266.28	5236.76	5329.66	5405.99	5542.62
5320.00	5276.43	5246.63	5339.70	5416.17	5553.06
5330.00	5286.57	5256.49	5349.73	5426.35	5563.50
5340.00	5296.72	5266.35	5359.77	5436.54	5573.94
5350.00	5306.87	5276.21	5369.81	5446.72	5584.37
5360.00	5317.02	5286.07	5379.84	5456.90	5594.81
5370.00	5327.16	5295.94	5389.88	5467.08	5605.25
5380.00	5337.31	5305.80	5399.92	5477.26	5615.69
5390.00	5347.46	5315.66	5409.96	5487.44	5626.13
5400.00	5357.60	5325.52	5419.99	5497.62	5636.56
5410.00	5367.75	5335.38	5430.03	5507.80	5647.00
5420.00	5377.90	5345.25	5440.07	5517.98	5657.44
5430.00	5388.04	5355.11	5450.10	5528.16	5667.88
5440.00	5398.19	5364.97	5460.14	5538.35	5678.32
5450.00	5408.34	5374.83	5470.18	5548.53	5688.75
5460.00	5418.49	5384.69	5480.21	5558.71	5699.19
5470.00	5428.63	5394.56	5490.25	5568.89	5709.63
5480.00	5438.78	5404.42	5500.29	5579.07	5720.07
5490.00	5448.93	5414.28	5510.33	5589.25	5730.51
5500.00	5459.07	5424.14	5520.36	5599.43	5740.94
5510.00	5469.22	5434.00	5530.40	5609.61	5751.38
5520.00	5479.37	5443.87	5540.44	5619.79	5761.82
5530.00	5489.51	5453.73	5550.47	5629.97	5772.26
5540.00	5499.66	5463.59	5560.51	5640.16	5782.70
5550.00	5509.81	5473.45	5570.55	5650.34	5793.13
5560.00	5519.96	5483.31	5580.58	5660.52	5803.57
5570.00	5530.10	5493.18	5590.62	5670.70	5814.01
5580.00	5540.25	5503.04	5600.66	5680.88	5824.45
5590.00	5550.40	5512.90	5610.70	5691.06	5834.89
5600.00	5560.54	5522.76	5620.73	5701.24	5845.32
5610.00	5570.69	5532.62	5630.77	5711.42	5855.76
5620.00	5580.84	5542.49	5640.81	5721.60	5866.20
5630.00	5590.98	5552.35	5650.84	5731.78	5876.64
5640.00	5601.13	5562.21	5660.88	5741.97	5887.08
5650.00	5611.28	5572.07	5670.92	5752.15	5897.51
5660.00	5621.43	5581.93	5680.95	5762.33	5907.95
5670.00	5631.57	5591.80	5690.99	5772.51	5918.39
5680.00	5641.72	5601.66	5701.03	5782.69	5928.83
5690.00	5651.87	5611.52	5711.07	5792.87	5939.27
5700.00	5662.01	5621.38	5721.10	5803.05	5949.70
5710.00	5672.16	5631.24	5731.14	5813.23	5960.14

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5720.00	5682.31	5641.11	5741.18	5823.41	5970.58
5730.00	5692.45	5650.97	5751.21	5833.59	5981.02
5740.00	5702.60	5660.83	5761.25	5843.78	5991.46
5750.00	5712.75	5670.69	5771.29	5853.96	6001.89
5760.00	5722.90	5680.55	5781.32	5864.14	6012.33
5770.00	5733.04	5690.42	5791.36	5874.32	6022.77
5780.00	5743.19	5700.28	5801.40	5884.50	6033.21
5790.00	5753.34	5710.14	5811.44	5894.68	6043.65
5800.00	5763.48	5720.00	5821.47	5904.86	6054.08
5810.00	5773.63	5729.86	5831.51	5915.04	6064.52
5820.00	5783.78	5739.73	5841.55	5925.22	6074.96
5830.00	5793.92	5749.59	5851.58	5935.40	6085.40
5840.00	5804.07	5759.45	5861.62	5945.59	6095.84
5850.00	5814.22	5769.31	5871.66	5955.77	6106.27
5860.00	5824.37	5779.17	5881.69	5965.95	6116.71
5870.00	5834.51	5789.04	5891.73	5976.13	6127.15
5880.00	5844.66	5798.90	5901.77	5986.31	6137.59
5890.00	5854.81	5808.76	5911.81	5996.49	6148.03
5900.00	5864.95	5818.62	5921.84	6006.67	6158.46
5910.00	5875.10	5828.48	5931.88	6016.85	6168.90
5920.00	5885.25	5838.35	5941.92	6027.03	6179.34
5930.00	5895.39	5848.21	5951.95	6037.21	6189.78
5940.00	5905.54	5858.07	5961.99	6047.40	6200.22
5950.00	5915.69	5867.93	5972.03	6057.58	6210.65
5960.00	5925.84	5877.79	5982.06	6067.76	6221.09
5970.00	5935.98	5887.66	5992.10	6077.94	6231.53
5980.00	5946.13	5897.52	6002.14	6088.12	6241.97
5990.00	5956.28	5907.38	6012.18	6098.30	6252.41
6000.00	5966.42	5917.24	6022.21	6108.48	6262.84
6010.00	5976.57	5927.10	6032.25	6118.66	6273.28
6020.00	5986.72	5936.97	6042.29	6128.84	6283.72
6030.00	5996.86	5946.83	6052.32	6139.02	6294.16
6040.00	6007.01	5956.69	6062.36	6149.21	6304.60
6050.00	6017.16	5966.55	6072.40	6159.39	6315.03
6060.00	6027.31	5976.41	6082.43	6169.57	6325.47
6070.00	6037.45	5986.28	6092.47	6179.75	6335.91
6080.00	6047.60	5996.14	6102.51	6189.93	6346.35
6090.00	6057.75	6006.00	6112.55	6200.11	6356.79
6100.00	6067.89	6015.86	6122.58	6210.29	6367.22
6110.00	6078.04	6025.72	6132.62	6220.47	6377.66
6120.00	6088.19	6035.59	6142.66	6230.65	6388.10
6130.00	6098.33	6045.45	6152.69	6240.83	6398.54
6140.00	6108.48	6055.31	6162.73	6251.02	6408.98
6150.00	6118.63	6065.17	6172.77	6261.20	6419.41
6160.00	6128.78	6075.03	6182.80	6271.38	6429.85
6170.00	6138.92	6084.90	6192.84	6281.56	6440.29

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6180.00	6149.07	6094.76	6202.88	6291.74	6450.73
6190.00	6159.22	6104.62	6212.92	6301.92	6461.17
6200.00	6169.36	6114.48	6222.95	6312.10	6471.60
6210.00	6179.51	6124.34	6232.99	6322.28	6482.04
6220.00	6189.66	6134.21	6243.03	6332.46	6492.48
6230.00	6199.80	6144.07	6253.06	6342.64	6502.92
6240.00	6209.95	6153.93	6263.10	6352.83	6513.36
6250.00	6220.10	6163.79	6273.14	6363.01	6523.79
6260.00	6230.25	6173.65	6283.17	6373.19	6534.23
6270.00	6240.39	6183.52	6293.21	6383.37	6544.67
6280.00	6250.54	6193.38	6303.25	6393.55	6555.11
6290.00	6260.69	6203.24	6313.29	6403.73	6565.55
6300.00	6270.83	6213.10	6323.32	6413.91	6575.98
6310.00	6280.98	6222.96	6333.36	6424.09	6586.42
6320.00	6291.13	6232.83	6343.40	6434.27	6596.86
6330.00	6301.27	6242.69	6353.43	6444.45	6607.30
6340.00	6311.42	6252.55	6363.47	6454.64	6617.74
6350.00	6321.57	6262.41	6373.51	6464.82	6628.17
6360.00	6331.72	6272.27	6383.54	6475.00	6638.61
6370.00	6341.86	6282.14	6393.58	6485.18	6649.05
6380.00	6352.01	6292.00	6403.62	6495.36	6659.49
6390.00	6362.16	6301.86	6413.66	6505.54	6669.93
6400.00	6372.30	6311.72	6423.69	6515.72	6680.36
6410.00	6382.45	6321.58	6433.73	6525.90	6690.80
6420.00	6392.60	6331.45	6443.77	6536.08	6701.24
6430.00	6402.74	6341.31	6453.80	6546.26	6711.68
6440.00	6412.89	6351.17	6463.84	6556.45	6722.12
6450.00	6423.04	6361.03	6473.88	6566.63	6732.55
6460.00	6433.19	6370.89	6483.91	6576.81	6742.99
6470.00	6443.33	6380.76	6493.95	6586.99	6753.43
6480.00	6453.48	6390.62	6503.99	6597.17	6763.87
6490.00	6463.63	6400.48	6514.03	6607.35	6774.31
6500.00	6473.77	6410.34	6524.06	6617.53	6784.74
6510.00	6483.92	6420.20	6534.10	6627.71	6795.18
6520.00	6494.07	6430.07	6544.14	6637.89	6805.62
6530.00	6504.21	6439.93	6554.17	6648.07	6816.06
6540.00	6514.36	6449.79	6564.21	6658.26	6826.50
6550.00	6524.51	6459.65	6574.25	6668.44	6836.93
6560.00	6534.66	6469.51	6584.28	6678.62	6847.37
6570.00	6544.80	6479.38	6594.32	6688.80	6857.81
6580.00	6554.95	6489.24	6604.36	6698.98	6868.25
6590.00	6565.10	6499.10	6614.40	6709.16	6878.69
6600.00	6575.24	6508.96	6624.43	6719.34	6889.12
6610.00	6585.39	6518.82	6634.47	6729.52	6899.56
6620.00	6595.54	6528.69	6644.51	6739.70	6910.00
6630.00	6605.68	6538.55	6654.54	6749.88	6920.44

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6640.00	6615.83	6548.41	6664.58	6760.07	6930.88
6650.00	6625.98	6558.27	6674.62	6770.25	6941.31
6660.00	6636.13	6568.13	6684.65	6780.43	6951.75
6670.00	6646.27	6578.00	6694.69	6790.61	6962.19
6680.00	6656.42	6587.86	6704.73	6800.79	6972.63
6690.00	6666.57	6597.72	6714.77	6810.97	6983.07
6700.00	6676.71	6607.58	6724.80	6821.15	6993.50
6710.00	6686.86	6617.44	6734.84	6831.33	7003.94
6720.00	6697.01	6627.31	6744.88	6841.51	7014.38
6730.00	6707.15	6637.17	6754.91	6851.69	7024.82
6740.00	6717.30	6647.03	6764.95	6861.88	7035.26
6750.00	6727.45	6656.89	6774.99	6872.06	7045.69
6760.00	6737.60	6666.75	6785.02	6882.24	7056.13
6770.00	6747.74	6676.62	6795.06	6892.42	7066.57
6780.00	6757.89	6686.48	6805.10	6902.60	7077.01
6790.00	6768.04	6696.34	6815.14	6912.78	7087.45
6800.00	6778.18	6706.20	6825.17	6922.96	7097.88
6810.00	6788.33	6716.06	6835.21	6933.14	7108.32
6820.00	6798.48	6725.93	6845.25	6943.32	7118.76
6830.00	6808.62	6735.79	6855.28	6953.50	7129.20
6840.00	6818.77	6745.65	6865.32	6963.69	7139.64
6850.00	6828.92	6755.51	6875.36	6973.87	7150.07
6860.00	6839.07	6765.37	6885.39	6984.05	7160.51
6870.00	6849.21	6775.24	6895.43	6994.23	7170.95
6880.00	6859.36	6785.10	6905.47	7004.41	7181.39
6890.00	6869.51	6794.96	6915.51	7014.59	7191.83
6900.00	6879.65	6804.82	6925.54	7024.77	7202.26
6910.00	6889.80	6814.68	6935.58	7034.95	7212.70
6920.00	6899.95	6824.55	6945.62	7045.13	7223.14
6930.00	6910.09	6834.41	6955.65	7055.31	7233.58
6940.00	6920.24	6844.27	6965.69	7065.50	7244.02
6950.00	6930.39	6854.13	6975.73	7075.68	7254.45
6960.00	6940.54	6863.99	6985.76	7085.86	7264.89
6970.00	6950.68	6873.86	6995.80	7096.04	7275.33
6980.00	6960.83	6883.72	7005.84	7106.22	7285.77
6990.00	6970.98	6893.58	7015.88	7116.40	7296.21
7000.00	6981.12	6903.44	7025.91	7126.58	7306.64
7010.00	6991.27	6913.30	7035.95	7136.76	7317.08
7020.00	7001.42	6923.17	7045.99	7146.94	7327.52
7030.00	7011.56	6933.03	7056.02	7157.12	7337.96
7040.00	7021.71	6942.89	7066.06	7167.31	7348.40
7050.00	7031.86	6952.75	7076.10	7177.49	7358.83
7060.00	7042.01	6962.61	7086.13	7187.67	7369.27
7070.00	7052.15	6972.48	7096.17	7197.85	7379.71
7080.00	7062.30	6982.34	7106.21	7208.03	7390.15
7090.00	7072.45	6992.20	7116.25	7218.21	7400.59

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7100.00	7082.59	7002.06	7126.28	7228.39	7411.02
7110.00	7092.74	7011.92	7136.32	7238.57	7421.46
7120.00	7102.89	7021.79	7146.36	7248.75	7431.90
7130.00	7113.03	7031.65	7156.39	7258.93	7442.34
7140.00	7123.18	7041.51	7166.43	7269.12	7452.78
7150.00	7133.33	7051.37	7176.47	7279.30	7463.21
7160.00	7143.48	7061.23	7186.50	7289.48	7473.65
7170.00	7153.62	7071.10	7196.54	7299.66	7484.09
7180.00	7163.77	7080.96	7206.58	7309.84	7494.53
7190.00	7173.92	7090.82	7216.62	7320.02	7504.97
7200.00	7184.06	7100.68	7226.65	7330.20	7515.40
7210.00	7194.21	7110.54	7236.69	7340.38	7525.84
7220.00	7204.36	7120.41	7246.73	7350.56	7536.28
7230.00	7214.50	7130.27	7256.76	7360.74	7546.72
7240.00	7224.65	7140.13	7266.80	7370.93	7557.16
7250.00	7234.80	7149.99	7276.84	7381.11	7567.59
7260.00	7244.95	7159.85	7286.87	7391.29	7578.03
7270.00	7255.09	7169.72	7296.91	7401.47	7588.47
7280.00	7265.24	7179.58	7306.95	7411.65	7598.91
7290.00	7275.39	7189.44	7316.99	7421.83	7609.35
7300.00	7285.53	7199.30	7327.02	7432.01	7619.78
7310.00	7295.68	7209.16	7337.06	7442.19	7630.22
7320.00	7305.83	7219.03	7347.10	7452.37	7640.66
7330.00	7315.97	7228.89	7357.13	7462.55	7651.10
7340.00	7326.12	7238.75	7367.17	7472.74	7661.54
7350.00	7336.27	7248.61	7377.21	7482.92	7671.97
7360.00	7346.42	7258.47	7387.24	7493.10	7682.41
7370.00	7356.56	7268.34	7397.28	7503.28	7692.85
7380.00	7366.71	7278.20	7407.32	7513.46	7703.29
7390.00	7376.86	7288.06	7417.36	7523.64	7713.73
7400.00	7387.00	7297.92	7427.39	7533.82	7724.16
7410.00	7397.15	7307.78	7437.43	7544.00	7734.60
7420.00	7407.30	7317.65	7447.47	7554.18	7745.04
7430.00	7417.44	7327.51	7457.50	7564.36	7755.48
7440.00	7427.59	7337.37	7467.54	7574.55	7765.92
7450.00	7437.74	7347.23	7477.58	7584.73	7776.35
7460.00	7447.89	7357.09	7487.61	7594.91	7786.79
7470.00	7458.03	7366.96	7497.65	7605.09	7797.23
7480.00	7468.18	7376.82	7507.69	7615.27	7807.67
7490.00	7478.33	7386.68	7517.73	7625.45	7818.11
7500.00	7488.47	7396.54	7527.76	7635.63	7828.54
7510.00	7498.62	7406.40	7537.80	7645.81	7838.98
7520.00	7508.77	7416.27	7547.84	7655.99	7849.42
7530.00	7518.91	7426.13	7557.87	7666.17	7859.86
7540.00	7529.06	7435.99	7567.91	7676.36	7870.30
7550.00	7539.21	7445.85	7577.95	7686.54	7880.73

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7560.00	7549.36	7455.71	7587.98	7696.72	7891.17
7570.00	7559.50	7465.58	7598.02	7706.90	7901.61
7580.00	7569.65	7475.44	7608.06	7717.08	7912.05
7590.00	7579.80	7485.30	7618.10	7727.26	7922.49
7600.00	7589.94	7495.16	7628.13	7737.44	7932.92
7610.00	7600.09	7505.02	7638.17	7747.62	7943.36
7620.00	7610.24	7514.89	7648.21	7757.80	7953.80
7630.00	7620.38	7524.75	7658.24	7767.98	7964.24
7640.00	7630.53	7534.61	7668.28	7778.17	7974.68
7650.00	7640.68	7544.47	7678.32	7788.35	7985.11
7660.00	7650.83	7554.33	7688.35	7798.53	7995.55
7670.00	7660.97	7564.20	7698.39	7808.71	8005.99
7680.00	7671.12	7574.06	7708.43	7818.89	8016.43
7690.00	7681.27	7583.92	7718.47	7829.07	8026.87
7700.00	7691.41	7593.78	7728.50	7839.25	8037.30
7710.00	7701.56	7603.64	7738.54	7849.43	8047.74
7720.00	7711.71	7613.51	7748.58	7859.61	8058.18
7730.00	7721.85	7623.37	7758.61	7869.79	8068.62
7740.00	7732.00	7633.23	7768.65	7879.98	8079.06
7750.00	7742.15	7643.09	7778.69	7890.16	8089.49
7760.00	7752.30	7652.95	7788.72	7900.34	8099.93
7770.00	7762.44	7662.82	7798.76	7910.52	8110.37
7780.00	7772.59	7672.68	7808.80	7920.70	8120.81
7790.00	7782.74	7682.54	7818.84	7930.88	8131.25
7800.00	7792.88	7692.40	7828.87	7941.06	8141.68
7810.00	7803.03	7702.26	7838.91	7951.24	8152.12
7820.00	7813.18	7712.13	7848.95	7961.42	8162.56
7830.00	7823.32	7721.99	7858.98	7971.60	8173.00
7840.00	7833.47	7731.85	7869.02	7981.79	8183.44
7850.00	7843.62	7741.71	7879.06	7991.97	8193.87
7860.00	7853.77	7751.57	7889.09	8002.15	8204.31
7870.00	7863.91	7761.44	7899.13	8012.33	8214.75
7880.00	7874.06	7771.30	7909.17	8022.51	8225.19
7890.00	7884.21	7781.16	7919.21	8032.69	8235.63
7900.00	7894.35	7791.02	7929.24	8042.87	8246.06
7910.00	7904.50	7800.88	7939.28	8053.05	8256.50
7920.00	7914.65	7810.75	7949.32	8063.23	8266.94
7930.00	7924.79	7820.61	7959.35	8073.41	8277.38
7940.00	7934.94	7830.47	7969.39	8083.60	8287.82
7950.00	7945.09	7840.33	7979.43	8093.78	8298.25
7960.00	7955.24	7850.19	7989.46	8103.96	8308.69
7970.00	7965.38	7860.06	7999.50	8114.14	8319.13
7980.00	7975.53	7869.92	8009.54	8124.32	8329.57
7990.00	7985.68	7879.78	8019.58	8134.50	8340.01
8000.00	7995.82	7889.64	8029.61	8144.68	8350.44
8010.00	8005.97	7899.50	8039.65	8154.86	8360.88

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8020.00	8016.12	7909.37	8049.69	8165.04	8371.32
8030.00	8026.26	7919.23	8059.72	8175.22	8381.76
8040.00	8036.41	7929.09	8069.76	8185.41	8392.20
8050.00	8046.56	7938.95	8079.80	8195.59	8402.63
8060.00	8056.71	7948.81	8089.83	8205.77	8413.07
8070.00	8066.85	7958.68	8099.87	8215.95	8423.51
8080.00	8077.00	7968.54	8109.91	8226.13	8433.95
8090.00	8087.15	7978.40	8119.95	8236.31	8444.39
8100.00	8097.29	7988.26	8129.98	8246.49	8454.82
8110.00	8107.44	7998.12	8140.02	8256.67	8465.26
8120.00	8117.59	8007.99	8150.06	8266.85	8475.70
8130.00	8127.73	8017.85	8160.09	8277.03	8486.14
8140.00	8137.88	8027.71	8170.13	8287.22	8496.58
8150.00	8148.03	8037.57	8180.17	8297.40	8507.01
8160.00	8158.18	8047.43	8190.20	8307.58	8517.45
8170.00	8168.32	8057.30	8200.24	8317.76	8527.89
8180.00	8178.47	8067.16	8210.28	8327.94	8538.33
8190.00	8188.62	8077.02	8220.32	8338.12	8548.77
8200.00	8198.76	8086.88	8230.35	8348.30	8559.20
8210.00	8208.91	8096.74	8240.39	8358.48	8569.64
8220.00	8219.06	8106.61	8250.43	8368.66	8580.08
8230.00	8229.20	8116.47	8260.46	8378.84	8590.52
8240.00	8239.35	8126.33	8270.50	8389.03	8600.96
8250.00	8249.50	8136.19	8280.54	8399.21	8611.39
8260.00	8259.65	8146.05	8290.57	8409.39	8621.83
8270.00	8269.79	8155.92	8300.61	8419.57	8632.27
8280.00	8279.94	8165.78	8310.65	8429.75	8642.71
8290.00	8290.09	8175.64	8320.69	8439.93	8653.15
8300.00	8300.23	8185.50	8330.72	8450.11	8663.58
8310.00	8310.38	8195.36	8340.76	8460.29	8674.02
8320.00	8320.53	8205.23	8350.80	8470.47	8684.46
8330.00	8330.67	8215.09	8360.83	8480.65	8694.90
8340.00	8340.82	8224.95	8370.87	8490.84	8705.34
8350.00	8350.97	8234.81	8380.91	8501.02	8715.77
8360.00	8361.12	8244.67	8390.94	8511.20	8726.21
8370.00	8371.26	8254.54	8400.98	8521.38	8736.65
8380.00	8381.41	8264.40	8411.02	8531.56	8747.09
8390.00	8391.56	8274.26	8421.06	8541.74	8757.53
8400.00	8401.70	8284.12	8431.09	8551.92	8767.96
8410.00	8411.85	8293.98	8441.13	8562.10	8778.40
8420.00	8422.00	8303.85	8451.17	8572.28	8788.84
8430.00	8432.14	8313.71	8461.20	8582.46	8799.28
8440.00	8442.29	8323.57	8471.24	8592.65	8809.72
8450.00	8452.44	8333.43	8481.28	8602.83	8820.15
8460.00	8462.59	8343.29	8491.31	8613.01	8830.59
8470.00	8472.73	8353.16	8501.35	8623.19	8841.03

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8480.00	8482.88	8363.02	8511.39	8633.37	8851.47
8490.00	8493.03	8372.88	8521.43	8643.55	8861.91
8500.00	8503.17	8382.74	8531.46	8653.73	8872.34
8510.00	8513.32	8392.60	8541.50	8663.91	8882.78
8520.00	8523.47	8402.47	8551.54	8674.09	8893.22
8530.00	8533.61	8412.33	8561.57	8684.27	8903.66
8540.00	8543.76	8422.19	8571.61	8694.46	8914.10
8550.00	8553.91	8432.05	8581.65	8704.64	8924.53
8560.00	8564.06	8441.91	8591.68	8714.82	8934.97
8570.00	8574.20	8451.78	8601.72	8725.00	8945.41
8580.00	8584.35	8461.64	8611.76	8735.18	8955.85
8590.00	8594.50	8471.50	8621.80	8745.36	8966.29
8600.00	8604.64	8481.36	8631.83	8755.54	8976.72
8610.00	8614.79	8491.22	8641.87	8765.72	8987.16
8620.00	8624.94	8501.09	8651.91	8775.90	8997.60
8630.00	8635.08	8510.95	8661.94	8786.08	9008.04
8640.00	8645.23	8520.81	8671.98	8796.27	9018.48
8650.00	8655.38	8530.67	8682.02	8806.45	9028.91
8660.00	8665.53	8540.53	8692.05	8816.63	9039.35
8670.00	8675.67	8550.40	8702.09	8826.81	9049.79
8680.00	8685.82	8560.26	8712.13	8836.99	9060.23
8690.00	8695.97	8570.12	8722.17	8847.17	9070.67
8700.00	8706.11	8579.98	8732.20	8857.35	9081.10
8710.00	8716.26	8589.84	8742.24	8867.53	9091.54
8720.00	8726.41	8599.71	8752.28	8877.71	9101.98
8730.00	8736.55	8609.57	8762.31	8887.89	9112.42
8740.00	8746.70	8619.43	8772.35	8898.08	9122.86
8750.00	8756.85	8629.29	8782.39	8908.26	9133.29
8760.00	8767.00	8639.15	8792.42	8918.44	9143.73
8770.00	8777.14	8649.02	8802.46	8928.62	9154.17
8780.00	8787.29	8658.88	8812.50	8938.80	9164.61
8790.00	8797.44	8668.74	8822.54	8948.98	9175.05
8800.00	8807.58	8678.60	8832.57	8959.16	9185.48
8810.00	8817.73	8688.46	8842.61	8969.34	9195.92
8820.00	8827.88	8698.33	8852.65	8979.52	9206.36
8830.00	8838.02	8708.19	8862.68	8989.70	9216.80
8840.00	8848.17	8718.05	8872.72	8999.89	9227.24
8850.00	8858.32	8727.91	8882.76	9010.07	9237.67
8860.00	8868.47	8737.77	8892.79	9020.25	9248.11
8870.00	8878.61	8747.64	8902.83	9030.43	9258.55
8880.00	8888.76	8757.50	8912.87	9040.61	9268.99
8890.00	8898.91	8767.36	8922.91	9050.79	9279.43
8900.00	8909.05	8777.22	8932.94	9060.97	9289.86
8910.00	8919.20	8787.08	8942.98	9071.15	9300.30
8920.00	8929.35	8796.95	8953.02	9081.33	9310.74
8930.00	8939.49	8806.81	8963.05	9091.51	9321.18

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8940.00	8949.64	8816.67	8973.09	9101.70	9331.62
8950.00	8959.79	8826.53	8983.13	9111.88	9342.05
8960.00	8969.94	8836.39	8993.16	9122.06	9352.49
8970.00	8980.08	8846.26	9003.20	9132.24	9362.93
8980.00	8990.23	8856.12	9013.24	9142.42	9373.37
8990.00	9000.38	8865.98	9023.28	9152.60	9383.81
9000.00	9010.52	8875.84	9033.31	9162.78	9394.24
9010.00	9020.67	8885.70	9043.35	9172.96	9404.68
9020.00	9030.82	8895.57	9053.39	9183.14	9415.12
9030.00	9040.96	8905.43	9063.42	9193.32	9425.56
9040.00	9051.11	8915.29	9073.46	9203.51	9436.00
9050.00	9061.26	8925.15	9083.50	9213.69	9446.43
9060.00	9071.41	8935.01	9093.53	9223.87	9456.87
9070.00	9081.55	8944.88	9103.57	9234.05	9467.31
9080.00	9091.70	8954.74	9113.61	9244.23	9477.75
9090.00	9101.85	8964.60	9123.65	9254.41	9488.19
9100.00	9111.99	8974.46	9133.68	9264.59	9498.62
9110.00	9122.14	8984.32	9143.72	9274.77	9509.06
9120.00	9132.29	8994.19	9153.76	9284.95	9519.50
9130.00	9142.43	9004.05	9163.79	9295.13	9529.94
9140.00	9152.58	9013.91	9173.83	9305.32	9540.38
9150.00	9162.73	9023.77	9183.87	9315.50	9550.81
9160.00	9172.88	9033.63	9193.90	9325.68	9561.25
9170.00	9183.02	9043.50	9203.94	9335.86	9571.69
9180.00	9193.17	9053.36	9213.98	9346.04	9582.13
9190.00	9203.32	9063.22	9224.02	9356.22	9592.57
9200.00	9213.46	9073.08	9234.05	9366.40	9603.00
9210.00	9223.61	9082.94	9244.09	9376.58	9613.44
9220.00	9233.76	9092.81	9254.13	9386.76	9623.88
9230.00	9243.90	9102.67	9264.16	9396.94	9634.32
9240.00	9254.05	9112.53	9274.20	9407.13	9644.76
9250.00	9264.20	9122.39	9284.24	9417.31	9655.19
9260.00	9274.35	9132.25	9294.27	9427.49	9665.63
9270.00	9284.49	9142.12	9304.31	9437.67	9676.07
9280.00	9294.64	9151.98	9314.35	9447.85	9686.51
9290.00	9304.79	9161.84	9324.39	9458.03	9696.95
9300.00	9314.93	9171.70	9334.42	9468.21	9707.38
9310.00	9325.08	9181.56	9344.46	9478.39	9717.82
9320.00	9335.23	9191.43	9354.50	9488.57	9728.26
9330.00	9345.37	9201.29	9364.53	9498.75	9738.70
9340.00	9355.52	9211.15	9374.57	9508.94	9749.14
9350.00	9365.67	9221.01	9384.61	9519.12	9759.57
9360.00	9375.82	9230.87	9394.64	9529.30	9770.01
9370.00	9385.96	9240.74	9404.68	9539.48	9780.45
9380.00	9396.11	9250.60	9414.72	9549.66	9790.89
9390.00	9406.26	9260.46	9424.76	9559.84	9801.33

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9400.00	9416.40	9270.32	9434.79	9570.02	9811.76
9410.00	9426.55	9280.18	9444.83	9580.20	9822.20
9420.00	9436.70	9290.05	9454.87	9590.38	9832.64
9430.00	9446.84	9299.91	9464.90	9600.56	9843.08
9440.00	9456.99	9309.77	9474.94	9610.75	9853.52
9450.00	9467.14	9319.63	9484.98	9620.93	9863.95
9460.00	9477.29	9329.49	9495.01	9631.11	9874.39
9470.00	9487.43	9339.36	9505.05	9641.29	9884.83
9480.00	9497.58	9349.22	9515.09	9651.47	9895.27
9490.00	9507.73	9359.08	9525.13	9661.65	9905.71
9500.00	9517.87	9368.94	9535.16	9671.83	9916.14
9510.00	9528.02	9378.80	9545.20	9682.01	9926.58
9520.00	9538.17	9388.67	9555.24	9692.19	9937.02
9530.00	9548.31	9398.53	9565.27	9702.37	9947.46
9540.00	9558.46	9408.39	9575.31	9712.56	9957.90
9550.00	9568.61	9418.25	9585.35	9722.74	9968.33
9560.00	9578.76	9428.11	9595.38	9732.92	9978.77
9570.00	9588.90	9437.98	9605.42	9743.10	9989.21
9580.00	9599.05	9447.84	9615.46	9753.28	9999.65
9590.00	9609.20	9457.70	9625.50	9763.46	10010.09
9600.00	9619.34	9467.56	9635.53	9773.64	10020.52
9610.00	9629.49	9477.42	9645.57	9783.82	10030.96
9620.00	9639.64	9487.29	9655.61	9794.00	10041.40
9630.00	9649.78	9497.15	9665.64	9804.18	10051.84
9640.00	9659.93	9507.01	9675.68	9814.37	10062.28
9650.00	9670.08	9516.87	9685.72	9824.55	10072.71
9660.00	9680.23	9526.73	9695.75	9834.73	10083.15
9670.00	9690.37	9536.60	9705.79	9844.91	10093.59
9680.00	9700.52	9546.46	9715.83	9855.09	10104.03
9690.00	9710.67	9556.32	9725.87	9865.27	10114.47
9700.00	9720.81	9566.18	9735.90	9875.45	10124.90
9710.00	9730.96	9576.04	9745.94	9885.63	10135.34
9720.00	9741.11	9585.91	9755.98	9895.81	10145.78
9730.00	9751.25	9595.77	9766.01	9905.99	10156.22
9740.00	9761.40	9605.63	9776.05	9916.18	10166.66
9750.00	9771.55	9615.49	9786.09	9926.36	10177.09
9760.00	9781.70	9625.35	9796.12	9936.54	10187.53
9770.00	9791.84	9635.22	9806.16	9946.72	10197.97
9780.00	9801.99	9645.08	9816.20	9956.90	10208.41
9790.00	9812.14	9654.94	9826.24	9967.08	10218.85
9800.00	9822.28	9664.80	9836.27	9977.26	10229.28
9810.00	9832.43	9674.66	9846.31	9987.44	10239.72
9820.00	9842.58	9684.53	9856.35	9997.62	10250.16
9830.00	9852.72	9694.39	9866.38	10007.80	10260.60
9840.00	9862.87	9704.25	9876.42	10017.99	10271.04
9850.00	9873.02	9714.11	9886.46	10028.17	10281.47

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9860.00	9883.17	9723.97	9896.49	10038.35	10291.91
9870.00	9893.31	9733.84	9906.53	10048.53	10302.35
9880.00	9903.46	9743.70	9916.57	10058.71	10312.79
9890.00	9913.61	9753.56	9926.61	10068.89	10323.23
9900.00	9923.75	9763.42	9936.64	10079.07	10333.66
9910.00	9933.90	9773.28	9946.68	10089.25	10344.10
9920.00	9944.05	9783.15	9956.72	10099.43	10354.54
9930.00	9954.19	9793.01	9966.75	10109.61	10364.98
9940.00	9964.34	9802.87	9976.79	10119.80	10375.42
9950.00	9974.49	9812.73	9986.83	10129.98	10385.85
9960.00	9984.64	9822.59	9996.86	10140.16	10396.29
9970.00	9994.78	9832.46	10006.90	10150.34	10406.73
9980.00	10004.93	9842.32	10016.94	10160.52	10417.17
9990.00	10015.08	9852.18	10026.98	10170.70	10427.61
10000.00	10025.22	9862.04	10037.01	10180.88	10438.04
10010.00	10035.37	9871.90	10047.05	10191.06	10448.48
10020.00	10045.52	9881.77	10057.09	10201.24	10458.92
10030.00	10055.66	9891.63	10067.12	10211.42	10469.36
10040.00	10065.81	9901.49	10077.16	10221.61	10479.80
10050.00	10075.96	9911.35	10087.20	10231.79	10490.23
10060.00	10086.11	9921.21	10097.23	10241.97	10500.67
10070.00	10096.25	9931.08	10107.27	10252.15	10511.11
10080.00	10106.40	9940.94	10117.31	10262.33	10521.55
10090.00	10116.55	9950.80	10127.35	10272.51	10531.99
10100.00	10126.69	9960.66	10137.38	10282.69	10542.42
10110.00	10136.84	9970.52	10147.42	10292.87	10552.86
10120.00	10146.99	9980.39	10157.46	10303.05	10563.30
10130.00	10157.13	9990.25	10167.49	10313.23	10573.74
10140.00	10167.28	10000.11	10177.53	10323.42	10584.18
10150.00	10177.43	10009.97	10187.57	10333.60	10594.61
10160.00	10187.58	10019.83	10197.60	10343.78	10605.05
10170.00	10197.72	10029.70	10207.64	10353.96	10615.49
10180.00	10207.87	10039.56	10217.68	10364.14	10625.93
10190.00	10218.02	10049.42	10227.72	10374.32	10636.37
10200.00	10228.16	10059.28	10237.75	10384.50	10646.80
10210.00	10238.31	10069.14	10247.79	10394.68	10657.24
10220.00	10248.46	10079.01	10257.83	10404.86	10667.68
10230.00	10258.60	10088.87	10267.86	10415.04	10678.12
10240.00	10268.75	10098.73	10277.90	10425.23	10688.56
10250.00	10278.90	10108.59	10287.94	10435.41	10698.99
10260.00	10289.05	10118.45	10297.97	10445.59	10709.43
10270.00	10299.19	10128.32	10308.01	10455.77	10719.87
10280.00	10309.34	10138.18	10318.05	10465.95	10730.31
10290.00	10319.49	10148.04	10328.09	10476.13	10740.75
10300.00	10329.63	10157.90	10338.12	10486.31	10751.18
10310.00	10339.78	10167.76	10348.16	10496.49	10761.62

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10320.00	10349.93	10177.63	10358.20	10506.67	10772.06
10330.00	10360.07	10187.49	10368.23	10516.85	10782.50
10340.00	10370.22	10197.35	10378.27	10527.04	10792.94
10350.00	10380.37	10207.21	10388.31	10537.22	10803.37
10360.00	10390.52	10217.07	10398.34	10547.40	10813.81
10370.00	10400.66	10226.94	10408.38	10557.58	10824.25
10380.00	10410.81	10236.80	10418.42	10567.76	10834.69
10390.00	10420.96	10246.66	10428.46	10577.94	10845.13
10400.00	10431.10	10256.52	10438.49	10588.12	10855.56
10410.00	10441.25	10266.38	10448.53	10598.30	10866.00
10420.00	10451.40	10276.25	10458.57	10608.48	10876.44
10430.00	10461.54	10286.11	10468.60	10618.66	10886.88
10440.00	10471.69	10295.97	10478.64	10628.85	10897.32
10450.00	10481.84	10305.83	10488.68	10639.03	10907.75
10460.00	10491.99	10315.69	10498.71	10649.21	10918.19
10470.00	10502.13	10325.56	10508.75	10659.39	10928.63
10480.00	10512.28	10335.42	10518.79	10669.57	10939.07
10490.00	10522.43	10345.28	10528.83	10679.75	10949.51
10500.00	10532.57	10355.14	10538.86	10689.93	10959.94
10510.00	10542.72	10365.00	10548.90	10700.11	10970.38
10520.00	10552.87	10374.87	10558.94	10710.29	10980.82
10530.00	10563.01	10384.73	10568.97	10720.47	10991.26
10540.00	10573.16	10394.59	10579.01	10730.66	11001.70
10550.00	10583.31	10404.45	10589.05	10740.84	11012.13
10560.00	10593.46	10414.31	10599.08	10751.02	11022.57
10570.00	10603.60	10424.18	10609.12	10761.20	11033.01
10580.00	10613.75	10434.04	10619.16	10771.38	11043.45
10590.00	10623.90	10443.90	10629.20	10781.56	11053.89
10600.00	10634.04	10453.76	10639.23	10791.74	11064.32
10610.00	10644.19	10463.62	10649.27	10801.92	11074.76
10620.00	10654.34	10473.49	10659.31	10812.10	11085.20
10630.00	10664.48	10483.35	10669.34	10822.28	11095.64
10640.00	10674.63	10493.21	10679.38	10832.47	11106.08
10650.00	10684.78	10503.07	10689.42	10842.65	11116.51
10660.00	10694.93	10512.93	10699.45	10852.83	11126.95
10670.00	10705.07	10522.80	10709.49	10863.01	11137.39
10680.00	10715.22	10532.66	10719.53	10873.19	11147.83
10690.00	10725.37	10542.52	10729.57	10883.37	11158.27
10700.00	10735.51	10552.38	10739.60	10893.55	11168.70
10710.00	10745.66	10562.24	10749.64	10903.73	11179.14
10720.00	10755.81	10572.11	10759.68	10913.91	11189.58
10730.00	10765.95	10581.97	10769.71	10924.09	11200.02
10740.00	10776.10	10591.83	10779.75	10934.28	11210.46
10750.00	10786.25	10601.69	10789.79	10944.46	11220.89
10760.00	10796.40	10611.55	10799.82	10954.64	11231.33
10770.00	10806.54	10621.42	10809.86	10964.82	11241.77

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10780.00	10816.69	10631.28	10819.90	10975.00	11252.21
10790.00	10826.84	10641.14	10829.94	10985.18	11262.65
10800.00	10836.98	10651.00	10839.97	10995.36	11273.08
10810.00	10847.13	10660.86	10850.01	11005.54	11283.52
10820.00	10857.28	10670.73	10860.05	11015.72	11293.96
10830.00	10867.42	10680.59	10870.08	11025.90	11304.40
10840.00	10877.57	10690.45	10880.12	11036.09	11314.84
10850.00	10887.72	10700.31	10890.16	11046.27	11325.27
10860.00	10897.87	10710.17	10900.19	11056.45	11335.71
10870.00	10908.01	10720.04	10910.23	11066.63	11346.15
10880.00	10918.16	10729.90	10920.27	11076.81	11356.59
10890.00	10928.31	10739.76	10930.31	11086.99	11367.03
10900.00	10938.45	10749.62	10940.34	11097.17	11377.46
10910.00	10948.60	10759.48	10950.38	11107.35	11387.90
10920.00	10958.75	10769.35	10960.42	11117.53	11398.34
10930.00	10968.89	10779.21	10970.45	11127.71	11408.78
10940.00	10979.04	10789.07	10980.49	11137.90	11419.22
10950.00	10989.19	10798.93	10990.53	11148.08	11429.65
10960.00	10999.34	10808.79	11000.56	11158.26	11440.09
10970.00	11009.48	10818.66	11010.60	11168.44	11450.53
10980.00	11019.63	10828.52	11020.64	11178.62	11460.97
10990.00	11029.78	10838.38	11030.68	11188.80	11471.41
11000.00	11039.92	10848.24	11040.71	11198.98	11481.84
11010.00	11050.07	10858.10	11050.75	11209.16	11492.28
11020.00	11060.22	10867.97	11060.79	11219.34	11502.72
11030.00	11070.36	10877.83	11070.82	11229.52	11513.16
11040.00	11080.51	10887.69	11080.86	11239.71	11523.60
11050.00	11090.66	10897.55	11090.90	11249.89	11534.03
11060.00	11100.81	10907.41	11100.93	11260.07	11544.47
11070.00	11110.95	10917.28	11110.97	11270.25	11554.91
11080.00	11121.10	10927.14	11121.01	11280.43	11565.35
11090.00	11131.25	10937.00	11131.05	11290.61	11575.79
11100.00	11141.39	10946.86	11141.08	11300.79	11586.22
11110.00	11151.54	10956.72	11151.12	11310.97	11596.66
11120.00	11161.69	10966.59	11161.16	11321.15	11607.10
11130.00	11171.83	10976.45	11171.19	11331.33	11617.54
11140.00	11181.98	10986.31	11181.23	11341.52	11627.98
11150.00	11192.13	10996.17	11191.27	11351.70	11638.41
11160.00	11202.28	11006.03	11201.30	11361.88	11648.85
11170.00	11212.42	11015.90	11211.34	11372.06	11659.29
11180.00	11222.57	11025.76	11221.38	11382.24	11669.73
11190.00	11232.72	11035.62	11231.42	11392.42	11680.17
11200.00	11242.86	11045.48	11241.45	11402.60	11690.60
11210.00	11253.01	11055.34	11251.49	11412.78	11701.04
11220.00	11263.16	11065.21	11261.53	11422.96	11711.48
11230.00	11273.30	11075.07	11271.56	11433.14	11721.92

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11240.00	11283.45	11084.93	11281.60	11443.33	11732.36
11250.00	11293.60	11094.79	11291.64	11453.51	11742.79
11260.00	11303.75	11104.65	11301.67	11463.69	11753.23
11270.00	11313.89	11114.52	11311.71	11473.87	11763.67
11280.00	11324.04	11124.38	11321.75	11484.05	11774.11
11290.00	11334.19	11134.24	11331.79	11494.23	11784.55
11300.00	11344.33	11144.10	11341.82	11504.41	11794.98
11310.00	11354.48	11153.96	11351.86	11514.59	11805.42
11320.00	11364.63	11163.83	11361.90	11524.77	11815.86
11330.00	11374.77	11173.69	11371.93	11534.95	11826.30
11340.00	11384.92	11183.55	11381.97	11545.14	11836.74
11350.00	11395.07	11193.41	11392.01	11555.32	11847.17
11360.00	11405.22	11203.27	11402.04	11565.50	11857.61
11370.00	11415.36	11213.14	11412.08	11575.68	11868.05
11380.00	11425.51	11223.00	11422.12	11585.86	11878.49
11390.00	11435.66	11232.86	11432.16	11596.04	11888.93
11400.00	11445.80	11242.72	11442.19	11606.22	11899.36
11410.00	11455.95	11252.58	11452.23	11616.40	11909.80
11420.00	11466.10	11262.45	11462.27	11626.58	11920.24
11430.00	11476.24	11272.31	11472.30	11636.76	11930.68
11440.00	11486.39	11282.17	11482.34	11646.95	11941.12
11450.00	11496.54	11292.03	11492.38	11657.13	11951.55
11460.00	11506.69	11301.89	11502.41	11667.31	11961.99
11470.00	11516.83	11311.76	11512.45	11677.49	11972.43
11480.00	11526.98	11321.62	11522.49	11687.67	11982.87
11490.00	11537.13	11331.48	11532.53	11697.85	11993.31
11500.00	11547.27	11341.34	11542.56	11708.03	12003.74
11510.00	11557.42	11351.20	11552.60	11718.21	12014.18
11520.00	11567.57	11361.07	11562.64	11728.39	12024.62
11530.00	11577.71	11370.93	11572.67	11738.57	12035.06
11540.00	11587.86	11380.79	11582.71	11748.76	12045.50
11550.00	11598.01	11390.65	11592.75	11758.94	12055.93
11560.00	11608.16	11400.51	11602.78	11769.12	12066.37
11570.00	11618.30	11410.38	11612.82	11779.30	12076.81
11580.00	11628.45	11420.24	11622.86	11789.48	12087.25
11590.00	11638.60	11430.10	11632.90	11799.66	12097.69
11600.00	11648.74	11439.96	11642.93	11809.84	12108.12
11610.00	11658.89	11449.82	11652.97	11820.02	12118.56
11620.00	11669.04	11459.69	11663.01	11830.20	12129.00
11630.00	11679.18	11469.55	11673.04	11840.38	12139.44
11640.00	11689.33	11479.41	11683.08	11850.57	12149.88
11650.00	11699.48	11489.27	11693.12	11860.75	12160.31
11660.00	11709.63	11499.13	11703.15	11870.93	12170.75
11670.00	11719.77	11509.00	11713.19	11881.11	12181.19
11680.00	11729.92	11518.86	11723.23	11891.29	12191.63
11690.00	11740.07	11528.72	11733.27	11901.47	12202.07

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11700.00	11750.21	11538.58	11743.30	11911.65	12212.50
11710.00	11760.36	11548.44	11753.34	11921.83	12222.94
11720.00	11770.51	11558.31	11763.38	11932.01	12233.38
11730.00	11780.65	11568.17	11773.41	11942.19	12243.82
11740.00	11790.80	11578.03	11783.45	11952.38	12254.26
11750.00	11800.95	11587.89	11793.49	11962.56	12264.69
11760.00	11811.10	11597.75	11803.52	11972.74	12275.13
11770.00	11821.24	11607.62	11813.56	11982.92	12285.57
11780.00	11831.39	11617.48	11823.60	11993.10	12296.01
11790.00	11841.54	11627.34	11833.64	12003.28	12306.45
11800.00	11851.68	11637.20	11843.67	12013.46	12316.88
11810.00	11861.83	11647.06	11853.71	12023.64	12327.32
11820.00	11871.98	11656.93	11863.75	12033.82	12337.76
11830.00	11882.12	11666.79	11873.78	12044.00	12348.20
11840.00	11892.27	11676.65	11883.82	12054.19	12358.64
11850.00	11902.42	11686.51	11893.86	12064.37	12369.07
11860.00	11912.57	11696.37	11903.89	12074.55	12379.51
11870.00	11922.71	11706.24	11913.93	12084.73	12389.95
11880.00	11932.86	11716.10	11923.97	12094.91	12400.39
11890.00	11943.01	11725.96	11934.01	12105.09	12410.83
11900.00	11953.15	11735.82	11944.04	12115.27	12421.26
11910.00	11963.30	11745.68	11954.08	12125.45	12431.70
11920.00	11973.45	11755.55	11964.12	12135.63	12442.14
11930.00	11983.59	11765.41	11974.15	12145.81	12452.58
11940.00	11993.74	11775.27	11984.19	12156.00	12463.02
11950.00	12003.89	11785.13	11994.23	12166.18	12473.45
11960.00	12014.04	11794.99	12004.26	12176.36	12483.89
11970.00	12024.18	11804.86	12014.30	12186.54	12494.33
11980.00	12034.33	11814.72	12024.34	12196.72	12504.77
11990.00	12044.48	11824.58	12034.38	12206.90	12515.21
12000.00	12054.62	11834.44	12044.41	12217.08	12525.64
12010.00	12064.77	11844.30	12054.45	12227.26	12536.08
12020.00	12074.92	11854.17	12064.49	12237.44	12546.52
12030.00	12085.06	11864.03	12074.52	12247.62	12556.96
12040.00	12095.21	11873.89	12084.56	12257.81	12567.40
12050.00	12105.36	11883.75	12094.60	12267.99	12577.83
12060.00	12115.51	11893.61	12104.63	12278.17	12588.27
12070.00	12125.65	11903.48	12114.67	12288.35	12598.71
12080.00	12135.80	11913.34	12124.71	12298.53	12609.15
12090.00	12145.95	11923.20	12134.75	12308.71	12619.59
12100.00	12156.09	11933.06	12144.78	12318.89	12630.02
12110.00	12166.24	11942.92	12154.82	12329.07	12640.46
12120.00	12176.39	11952.79	12164.86	12339.25	12650.90
12130.00	12186.53	11962.65	12174.89	12349.43	12661.34
12140.00	12196.68	11972.51	12184.93	12359.62	12671.78
12150.00	12206.83	11982.37	12194.97	12369.80	12682.21

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12160.00	12216.98	11992.23	12205.00	12379.98	12692.65
12170.00	12227.12	12002.10	12215.04	12390.16	12703.09
12180.00	12237.27	12011.96	12225.08	12400.34	12713.53
12190.00	12247.42	12021.82	12235.12	12410.52	12723.97
12200.00	12257.56	12031.68	12245.15	12420.70	12734.40
12210.00	12267.71	12041.54	12255.19	12430.88	12744.84
12220.00	12277.86	12051.41	12265.23	12441.06	12755.28
12230.00	12288.00	12061.27	12275.26	12451.24	12765.72
12240.00	12298.15	12071.13	12285.30	12461.43	12776.16
12250.00	12308.30	12080.99	12295.34	12471.61	12786.59
12260.00	12318.45	12090.85	12305.37	12481.79	12797.03
12270.00	12328.59	12100.72	12315.41	12491.97	12807.47
12280.00	12338.74	12110.58	12325.45	12502.15	12817.91
12290.00	12348.89	12120.44	12335.49	12512.33	12828.35
12300.00	12359.03	12130.30	12345.52	12522.51	12838.78
12310.00	12369.18	12140.16	12355.56	12532.69	12849.22
12320.00	12379.33	12150.03	12365.60	12542.87	12859.66
12330.00	12389.47	12159.89	12375.63	12553.05	12870.10
12340.00	12399.62	12169.75	12385.67	12563.24	12880.54
12350.00	12409.77	12179.61	12395.71	12573.42	12890.97
12360.00	12419.92	12189.47	12405.74	12583.60	12901.41
12370.00	12430.06	12199.34	12415.78	12593.78	12911.85
12380.00	12440.21	12209.20	12425.82	12603.96	12922.29
12390.00	12450.36	12219.06	12435.86	12614.14	12932.73
12400.00	12460.50	12228.92	12445.89	12624.32	12943.16
12410.00	12470.65	12238.78	12455.93	12634.50	12953.60
12420.00	12480.80	12248.65	12465.97	12644.68	12964.04
12430.00	12490.94	12258.51	12476.00	12654.86	12974.48
12440.00	12501.09	12268.37	12486.04	12665.05	12984.92
12450.00	12511.24	12278.23	12496.08	12675.23	12995.35
12460.00	12521.39	12288.09	12506.11	12685.41	13005.79
12470.00	12531.53	12297.96	12516.15	12695.59	13016.23
12480.00	12541.68	12307.82	12526.19	12705.77	13026.67
12490.00	12551.83	12317.68	12536.23	12715.95	13037.11
12500.00	12561.97	12327.54	12546.26	12726.13	13047.54
12510.00	12572.12	12337.40	12556.30	12736.31	13057.98
12520.00	12582.27	12347.27	12566.34	12746.49	13068.42
12530.00	12592.41	12357.13	12576.37	12756.67	13078.86
12540.00	12602.56	12366.99	12586.41	12766.86	13089.30
12550.00	12612.71	12376.85	12596.45	12777.04	13099.73
12560.00	12622.86	12386.71	12606.48	12787.22	13110.17
12570.00	12633.00	12396.58	12616.52	12797.40	13120.61
12580.00	12643.15	12406.44	12626.56	12807.58	13131.05
12590.00	12653.30	12416.30	12636.60	12817.76	13141.49
12600.00	12663.44	12426.16	12646.63	12827.94	13151.92
12610.00	12673.59	12436.02	12656.67	12838.12	13162.36

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12620.00	12683.74	12445.89	12666.71	12848.30	13172.80
12630.00	12693.88	12455.75	12676.74	12858.48	13183.24
12640.00	12704.03	12465.61	12686.78	12868.67	13193.68
12650.00	12714.18	12475.47	12696.82	12878.85	13204.11
12660.00	12724.33	12485.33	12706.85	12889.03	13214.55
12670.00	12734.47	12495.20	12716.89	12899.21	13224.99
12680.00	12744.62	12505.06	12726.93	12909.39	13235.43
12690.00	12754.77	12514.92	12736.97	12919.57	13245.87
12700.00	12764.91	12524.78	12747.00	12929.75	13256.30
12710.00	12775.06	12534.64	12757.04	12939.93	13266.74
12720.00	12785.21	12544.51	12767.08	12950.11	13277.18
12730.00	12795.35	12554.37	12777.11	12960.29	13287.62
12740.00	12805.50	12564.23	12787.15	12970.48	13298.06
12750.00	12815.65	12574.09	12797.19	12980.66	13308.49
12760.00	12825.80	12583.95	12807.22	12990.84	13318.93
12770.00	12835.94	12593.82	12817.26	13001.02	13329.37
12780.00	12846.09	12603.68	12827.30	13011.20	13339.81
12790.00	12856.24	12613.54	12837.34	13021.38	13350.25
12800.00	12866.38	12623.40	12847.37	13031.56	13360.68
12810.00	12876.53	12633.26	12857.41	13041.74	13371.12
12820.00	12886.68	12643.13	12867.45	13051.92	13381.56
12830.00	12896.82	12652.99	12877.48	13062.10	13392.00
12840.00	12906.97	12662.85	12887.52	13072.29	13402.44
12850.00	12917.12	12672.71	12897.56	13082.47	13412.87
12860.00	12927.27	12682.57	12907.59	13092.65	13423.31
12870.00	12937.41	12692.44	12917.63	13102.83	13433.75
12880.00	12947.56	12702.30	12927.67	13113.01	13444.19
12890.00	12957.71	12712.16	12937.71	13123.19	13454.63
12900.00	12967.85	12722.02	12947.74	13133.37	13465.06
12910.00	12978.00	12731.88	12957.78	13143.55	13475.50
12920.00	12988.15	12741.75	12967.82	13153.73	13485.94
12930.00	12998.29	12751.61	12977.85	13163.91	13496.38
12940.00	13008.44	12761.47	12987.89	13174.10	13506.82
12950.00	13018.59	12771.33	12997.93	13184.28	13517.25
12960.00	13028.74	12781.19	13007.96	13194.46	13527.69
12970.00	13038.88	12791.06	13018.00	13204.64	13538.13
12980.00	13049.03	12800.92	13028.04	13214.82	13548.57
12990.00	13059.18	12810.78	13038.08	13225.00	13559.01
13000.00	13069.32	12820.64	13048.11	13235.18	13569.44
13010.00	13079.47	12830.50	13058.15	13245.36	13579.88
13020.00	13089.62	12840.37	13068.19	13255.54	13590.32
13030.00	13099.76	12850.23	13078.22	13265.72	13600.76
13040.00	13109.91	12860.09	13088.26	13275.91	13611.20
13050.00	13120.06	12869.95	13098.30	13286.09	13621.63
13060.00	13130.21	12879.81	13108.33	13296.27	13632.07
13070.00	13140.35	12889.68	13118.37	13306.45	13642.51

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13080.00	13150.50	12899.54	13128.41	13316.63	13652.95
13090.00	13160.65	12909.40	13138.45	13326.81	13663.39
13100.00	13170.79	12919.26	13148.48	13336.99	13673.82
13110.00	13180.94	12929.12	13158.52	13347.17	13684.26
13120.00	13191.09	12938.99	13168.56	13357.35	13694.70
13130.00	13201.23	12948.85	13178.59	13367.53	13705.14
13140.00	13211.38	12958.71	13188.63	13377.72	13715.58
13150.00	13221.53	12968.57	13198.67	13387.90	13726.01
13160.00	13231.68	12978.43	13208.70	13398.08	13736.45
13170.00	13241.82	12988.30	13218.74	13408.26	13746.89
13180.00	13251.97	12998.16	13228.78	13418.44	13757.33
13190.00	13262.12	13008.02	13238.82	13428.62	13767.77
13200.00	13272.26	13017.88	13248.85	13438.80	13778.20
13210.00	13282.41	13027.74	13258.89	13448.98	13788.64
13220.00	13292.56	13037.61	13268.93	13459.16	13799.08
13230.00	13302.70	13047.47	13278.96	13469.34	13809.52
13240.00	13312.85	13057.33	13289.00	13479.53	13819.96
13250.00	13323.00	13067.19	13299.04	13489.71	13830.39
13260.00	13333.15	13077.05	13309.07	13499.89	13840.83
13270.00	13343.29	13086.92	13319.11	13510.07	13851.27
13280.00	13353.44	13096.78	13329.15	13520.25	13861.71
13290.00	13363.59	13106.64	13339.19	13530.43	13872.15
13300.00	13373.73	13116.50	13349.22	13540.61	13882.58
13310.00	13383.88	13126.36	13359.26	13550.79	13893.02
13320.00	13394.03	13136.23	13369.30	13560.97	13903.46
13330.00	13404.17	13146.09	13379.33	13571.15	13913.90
13340.00	13414.32	13155.95	13389.37	13581.34	13924.34
13350.00	13424.47	13165.81	13399.41	13591.52	13934.77
13360.00	13434.62	13175.67	13409.44	13601.70	13945.21
13370.00	13444.76	13185.54	13419.48	13611.88	13955.65
13380.00	13454.91	13195.40	13429.52	13622.06	13966.09
13390.00	13465.06	13205.26	13439.56	13632.24	13976.53
13400.00	13475.20	13215.12	13449.59	13642.42	13986.96
13410.00	13485.35	13224.98	13459.63	13652.60	13997.40
13420.00	13495.50	13234.85	13469.67	13662.78	14007.84
13430.00	13505.64	13244.71	13479.70	13672.96	14018.28
13440.00	13515.79	13254.57	13489.74	13683.15	14028.72
13450.00	13525.94	13264.43	13499.78	13693.33	14039.15
13460.00	13536.09	13274.29	13509.81	13703.51	14049.59
13470.00	13546.23	13284.16	13519.85	13713.69	14060.03
13480.00	13556.38	13294.02	13529.89	13723.87	14070.47
13490.00	13566.53	13303.88	13539.93	13734.05	14080.91
13500.00	13576.67	13313.74	13549.96	13744.23	14091.34
13510.00	13586.82	13323.60	13560.00	13754.41	14101.78
13520.00	13596.97	13333.47	13570.04	13764.59	14112.22
13530.00	13607.11	13343.33	13580.07	13774.77	14122.66

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13540.00	13617.26	13353.19	13590.11	13784.96	14133.10
13550.00	13627.41	13363.05	13600.15	13795.14	14143.53
13560.00	13637.56	13372.91	13610.18	13805.32	14153.97
13570.00	13647.70	13382.78	13620.22	13815.50	14164.41
13580.00	13657.85	13392.64	13630.26	13825.68	14174.85
13590.00	13668.00	13402.50	13640.30	13835.86	14185.29
13600.00	13678.14	13412.36	13650.33	13846.04	14195.72
13610.00	13688.29	13422.22	13660.37	13856.22	14206.16
13620.00	13698.44	13432.09	13670.41	13866.40	14216.60
13630.00	13708.58	13441.95	13680.44	13876.58	14227.04
13640.00	13718.73	13451.81	13690.48	13886.77	14237.48
13650.00	13728.88	13461.67	13700.52	13896.95	14247.91
13660.00	13739.03	13471.53	13710.55	13907.13	14258.35
13670.00	13749.17	13481.40	13720.59	13917.31	14268.79
13680.00	13759.32	13491.26	13730.63	13927.49	14279.23
13690.00	13769.47	13501.12	13740.67	13937.67	14289.67
13700.00	13779.61	13510.98	13750.70	13947.85	14300.10
13710.00	13789.76	13520.84	13760.74	13958.03	14310.54
13720.00	13799.91	13530.71	13770.78	13968.21	14320.98
13730.00	13810.05	13540.57	13780.81	13978.39	14331.42
13740.00	13820.20	13550.43	13790.85	13988.58	14341.86
13750.00	13830.35	13560.29	13800.89	13998.76	14352.29
13760.00	13840.50	13570.15	13810.92	14008.94	14362.73
13770.00	13850.64	13580.02	13820.96	14019.12	14373.17
13780.00	13860.79	13589.88	13831.00	14029.30	14383.61
13790.00	13870.94	13599.74	13841.04	14039.48	14394.05
13800.00	13881.08	13609.60	13851.07	14049.66	14404.48
13810.00	13891.23	13619.46	13861.11	14059.84	14414.92
13820.00	13901.38	13629.33	13871.15	14070.02	14425.36
13830.00	13911.52	13639.19	13881.18	14080.20	14435.80
13840.00	13921.67	13649.05	13891.22	14090.39	14446.24
13850.00	13931.82	13658.91	13901.26	14100.57	14456.67
13860.00	13941.97	13668.77	13911.29	14110.75	14467.11
13870.00	13952.11	13678.64	13921.33	14120.93	14477.55
13880.00	13962.26	13688.50	13931.37	14131.11	14487.99
13890.00	13972.41	13698.36	13941.41	14141.29	14498.43
13900.00	13982.55	13708.22	13951.44	14151.47	14508.86
13910.00	13992.70	13718.08	13961.48	14161.65	14519.30
13920.00	14002.85	13727.95	13971.52	14171.83	14529.74
13930.00	14012.99	13737.81	13981.55	14182.01	14540.18
13940.00	14023.14	13747.67	13991.59	14192.20	14550.62
13950.00	14033.29	13757.53	14001.63	14202.38	14561.05
13960.00	14043.44	13767.39	14011.66	14212.56	14571.49
13970.00	14053.58	13777.26	14021.70	14222.74	14581.93
13980.00	14063.73	13787.12	14031.74	14232.92	14592.37
13990.00	14073.88	13796.98	14041.78	14243.10	14602.81

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14000.00	14084.02	13806.84	14051.81	14253.28	14613.24

Erlang.Table.Cl Erlang.Table.Cc Erlang.Table.Cc Erlang.Table.Cc Erlang.Table.Cc Erlang.Table.Cc Erlang.Table

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Coverage calculations

		Value	Named range	Source/note	Units	1991
						1
		2009				
		Reference.year				
Number of access nodes						
Access Node (< 500 buildings)		3,091		from Analysys M	#	-
Access Node (< 1000 buildings)		456		from Analysys M	#	-
Access Node (< 2000 buildings)		264		from Analysys M	#	-
Access Node (< 5000 buildings)		128		from Analysys M	#	-
Access Node (< 15000 buildings)		9		from Analysys M	#	-
		Number.of.access.nodes.year				
Share of PSTN lines		*Share.of.PSTN.lines.year*				
Access Node (< 500 buildings)		27.0%		from Analysys M	%	-%
Access Node (< 1000 buildings)		17.9%		from Analysys M	%	-%
Access Node (< 2000 buildings)		22.9%		from Analysys M	%	-%
Access Node (< 5000 buildings)		27.4%		from Analysys M	%	-%
Access Node (< 15000 buildings)		4.9%		from Analysys M	%	-%
		100.0%				*0.0%*
Share of ISDN30 lines	ISDN30 available at that level					
Access Node (< 500 buildings)	-	-%			%	-%
Access Node (< 1000 buildings)	-	-%			%	-%
Access Node (< 2000 buildings)	1	41%			%	-%
Access Node (< 5000 buildings)	1	50%			%	-%
Access Node (< 15000 buildings)	1	9%			%	-%
Number of xDSL-enabled access nodes		**2,752**				-
Access Node (< 500 buildings)		1,895		from Analysys M	#	-
Access Node (< 1000 buildings)		456		from Analysys M	#	-
Access Node (< 2000 buildings)		264		from Analysys M	#	-
Access Node (< 5000 buildings)		128		from Analysys M	#	-
Access Node (< 15000 buildings)		9		from Analysys M	#	-
		Number.of.xDSL.enabled.access.nodes.year				
xDSL enabled nodes as a proportion of total						
Access Node (< 500 buildings)						-%
Access Node (< 1000 buildings)						-%
Access Node (< 2000 buildings)						-%
Access Node (< 5000 buildings)						-%
Access Node (< 15000 buildings)						-%

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RSX that are not replaced by a NGN DSLAM

			Proportion of RSX with no DSLAM that are not replaced with a DSLAM	
Access Node (< 500 buildings)	10%	921	93	96.99%
Access Node (< 1000 buildings)	-%	-	-	100.00%
Access Node (< 2000 buildings)	-%	-	-	100.00%
Access Node (< 5000 buildings)	-%	-	-	100.00%
Access Node (< 15000 buildings)	-%	-	-	100.00%
				prop.all.RSX.replaced.by.NGNDSLAM

Share of xDSL lines

	Share.of.xDSL.lines.year		
Access Node (< 500 buildings)	28.6%	from Analysys M	-%
Access Node (< 1000 buildings)	21.0%	from Analysys M	-%
Access Node (< 2000 buildings)	22.9%	from Analysys M	-%
Access Node (< 5000 buildings)	24.0%	from Analysys M	-%
Access Node (< 15000 buildings)	3.5%	from Analysys M	-%
	100.0%		*0.0%*

Share of business locations

	Share.of.busloc.year		
Access Node (< 500 buildings)	34.2%	from Analysys M	-%
Access Node (< 1000 buildings)	17.6%	from Analysys M	-%
Access Node (< 2000 buildings)	23.2%	from Analysys M	-%
Access Node (< 5000 buildings)	22.1%	from Analysys M	-%
Access Node (< 15000 buildings)	3.0%	from Analysys M	-%
	100.0%		*0.0%*

Share of fibre termination points

	Share.of.fibre.endpoints.year		
Access Node (< 500 buildings)	40.7%	from Analysys M	-%
Access Node (< 1000 buildings)	14.2%	from Analysys M	-%
Access Node (< 2000 buildings)	16.7%	from Analysys M	-%
Access Node (< 5000 buildings)	23.6%	from Analysys M	-%
Access Node (< 15000 buildings)	4.8%	from Analysys M	-%
	100.0%		*0.0%*

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2	18	19	20	21	22	23	24	25	26	27
1992	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**
3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
27%	27%	27%	27%	27%	27%	27%	27%	27%	27%	27%
18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
27%	27%	27%	27%	27%	27%	27%	27%	27%	27%	27%
5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%
50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
9%	9%	9%	9%	9%	9%	9%	9%	9%	9%	9%
-	2,477	2,752	3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027
-	1,620	1,895	2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170
-	456	456	456	456	456	456	456	456	456	456
-	264	264	264	264	264	264	264	264	264	264
-	128	128	128	128	128	128	128	128	128	128
-	9	9	9	9	9	9	9	9	9	9
-%	52%	61%	70%	70%	70%	70%	70%	70%	70%	70%
-%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
-%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
-%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
-%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

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29%	29%	29%	29%	29%	29%	29%	29%	29%	29%	29%
21%	21%	21%	21%	21%	21%	21%	21%	21%	21%	21%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
24%	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%
3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%
3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%
14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%
17%	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%
24%	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%
5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

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28	29	30	31	32	33	34	35	36	37	38
2018	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**
3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
27%	27%	27%	27%	27%	27%	27%	27%	27%	27%	27%
18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
27%	27%	27%	27%	27%	27%	27%	27%	27%	27%	27%
5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%
50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
9%	9%	9%	9%	9%	9%	9%	9%	9%	9%	9%
3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027
2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

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29%	29%	29%	29%	29%	29%	29%	29%	29%	29%	29%
21%	21%	21%	21%	21%	21%	21%	21%	21%	21%	21%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
24%	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%
3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%
3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%
14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%
17%	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%
24%	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%
5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

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39	40	41	42	43	44	45	46	47	48	49
2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
27%	27%	27%	27%	27%	27%	27%	27%	27%	27%	27%
18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
27%	27%	27%	27%	27%	27%	27%	27%	27%	27%	27%
5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%
50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
9%	9%	9%	9%	9%	9%	9%	9%	9%	9%	9%
3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027
2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

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29%	29%	29%	29%	29%	29%	29%	29%	29%	29%	29%
21%	21%	21%	21%	21%	21%	21%	21%	21%	21%	21%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
24%	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%
3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%
3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%
14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%
17%	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%
24%	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%
5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

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50	51	52	53	54	55	56	57	58	59	60
2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
27%	27%	27%	27%	27%	27%	27%	27%	27%	27%	27%
18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
27%	27%	27%	27%	27%	27%	27%	27%	27%	27%	27%
5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%
50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
9%	9%	9%	9%	9%	9%	9%	9%	9%	9%	9%
3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027	3,027
2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

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29%	29%	29%	29%	29%	29%	29%	29%	29%	29%	29%
21%	21%	21%	21%	21%	21%	21%	21%	21%	21%	21%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
24%	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%
3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%
18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%
23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%
3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%
14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%
17%	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%
24%	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%
5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
100.0%	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

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Number.of.access.nodes

Share.of.PSTN.lines

Share.of.ISDN30.lines

Number.of.xDSL.enabled.access.nodes

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xDSL.enabled.access.nodes.prop.total

Share.of.xDSL.lines

Share.of.busloc

Share.of.fibre.endpoints

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Network design

Parameters/No	Parameters/No	Units	Check	1991	1992
				1	2

Network traffic volumes

Asset traffic volumes

Asset groups		1991	1992
TDM Access transmission	BHE	-	182,727
TDM Distribution transmission	BHE	-	172,330
TDM Core transmission	BHE	-	15,840
TDM Access switching	BHE	-	182,727
TDM Distribution switching	BHE	-	177,528
TDM Core switching	BHE	-	108,631
TDM International switching	BHE	-	3,347
TDM Voice interconnection	BHE	-	13,252
TDM call servers	BHCA	-	-
IP Access transmission	BHMbit/s	-	-
IP Distribution transmission	BHMbit/s	-	-
IP Core transmission	BHMbit/s	-	-
IP Access routing	BHMbit/s	-	-
IP Distribution routing	BHMbit/s	-	-
IP Core routing	BHMbit/s	-	-
spare	spare	-	-
NGN Distribution SBC	BHMbit/s	-	-
NGN Interconnect SBC	BHMbit/s	-	-
NGN SIP Voice interconnection	BHMbit/s	-	-
NGN ss7 Voice interconnection	BHMbit/s	-	-
NGN call servers	BHCA	-	-
Digital cross-connects	n/a	-	-
VPN access transmission	BHMbit/s	-	-
NGN voice access	BHMbit/s	-	-
spare1	spare1	-	-
spare2	spare2	-	-
spare3	spare3	-	-
spare4	spare4	-	-
spare5	spare5	-	-
spare6	spare6	-	-
spare7	spare7	-	-
spare8	spare8	-	-
spare9	spare9	-	-
spare10	spare10	-	-
spare11	spare11	-	-

Asset call attempts

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Asset groups		1991	1992
TDM Access transmission	n/a	-	-
TDM Distribution transmission	n/a	-	-
TDM Core transmission	n/a	-	-
TDM Access switching	BHCA	-	2,356,190
TDM Distribution switching	BHCA	-	2,290,292
TDM Core switching	BHCA	-	1,422,119
TDM International switching	BHCA	-	40,822
TDM Voice interconnection	n/a	-	-
TDM call servers	BHCA	-	1,322,875
IP Access transmission	n/a	-	-
IP Distribution transmission	n/a	-	-
IP Core transmission	n/a	-	-
IP Access routing	n/a	-	-
IP Distribution routing	n/a	-	-
IP Core routing	n/a	-	-
spare	n/a	-	-
NGN Distribution SBC	n/a	-	-
NGN Interconnect SBC	n/a	-	-
NGN SIP Voice interconnection	n/a	-	-
NGN ss7 Voice interconnection	n/a	-	-
NGN call servers	BHCA	-	-
Digital cross-connects	n/a	-	-
VPN access transmission	n/a	-	-
NGN voice access	n/a	-	-
spare1	n/a	-	-
spare2	n/a	-	-
spare3	n/a	-	-
spare4	n/a	-	-
spare5	n/a	-	-
spare6	n/a	-	-
spare7	n/a	-	-
spare8	n/a	-	-
spare9	n/a	-	-
spare10	n/a	-	-
spare11	n/a	-	-

Access nodes

Access node sites

Classifications of access nodes by size		**-**	**3,948**
Access Node (< 500 buildings)	#	-	3,091
Access Node (< 1000 buildings)	#	-	456
Access Node (< 2000 buildings)	#	-	264
Access Node (< 5000 buildings)	#	-	128
Access Node (< 15000 buildings)	#	-	9

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Proportion of access nodes deployed on the same site as distribution nodes		%	-%	4%
Total access nodes sites required		#	-	3,785

RSX units calculation

PSTN-enabled access nodes by size			**-**	**3,948**
Access Node (< 500 buildings)		#	-	3,091
Access Node (< 1000 buildings)		#	-	456
Access Node (< 2000 buildings)		#	-	264
Access Node (< 5000 buildings)		#	-	128
Access Node (< 15000 buildings)		#	-	9
RSX line cards calculations				
PSTN ports required per AN	**Available ports per line card**			
Access Node (< 500 buildings)	46	#	-	195
Access Node (< 1000 buildings)	46	#	-	876
Access Node (< 2000 buildings)	46	#	-	1,934
Access Node (< 5000 buildings)	46	#	-	4,780
Access Node (< 15000 buildings)	46	#	-	12,136
PSTN Line cards required per AN (taking into account utilisation)				
Access Node (< 500 buildings)		#	-	5
Access Node (< 1000 buildings)		#	-	20
Access Node (< 2000 buildings)		#	-	43
Access Node (< 5000 buildings)		#	-	106
Access Node (< 15000 buildings)		#	-	267
Total PSTN Line cards required		#	-	51,898
ISDN2 ports required per AN	**Available ports per line card**			
Access Node (< 500 buildings)	23	#	-	-
Access Node (< 1000 buildings)	23	#	-	-
Access Node (< 2000 buildings)	23	#	-	-
Access Node (< 5000 buildings)	23	#	-	-
Access Node (< 15000 buildings)	23	#	-	-
ISDN2 Line cards required per AN (taking into account utilisation)				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-

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Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Total ISDN2 Line cards required		#	-	-
ISDN30 ports required per AN	**Available ports per line card**			
Access Node (< 500 buildings)	15	#	-	-
Access Node (< 1000 buildings)	15	#	-	-
Access Node (< 2000 buildings)	15	#	-	-
Access Node (< 5000 buildings)	15	#	-	-
Access Node (< 15000 buildings)	15	#	-	-
ISDN30 Line cards required per AN (taking into account utilisation)				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Total ISDN30 Line cards required		#	-	-
RSX shelves and racks calculations				
PSTN/ISDN line cards required per AN	**Available line cards per shelf**			
Access Node (< 500 buildings)	16	#	-	5
Access Node (< 1000 buildings)	16	#	-	20
Access Node (< 2000 buildings)	16	#	-	43
Access Node (< 5000 buildings)	16	#	-	106
Access Node (< 15000 buildings)	16	#	-	267
Shelves required per AN (taking into account utilisation)	**Available shelves per rack**			
Access Node (< 500 buildings)	3	#	-	1
Access Node (< 1000 buildings)	3	#	-	2
Access Node (< 2000 buildings)	3	#	-	4
Access Node (< 5000 buildings)	3	#	-	8
Access Node (< 15000 buildings)	3	#	-	17
Racks required per AN (taking into account utilisation)				

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Access Node (< 500 buildings)		#	-	1
Access Node (< 1000 buildings)		#	-	1
Access Node (< 2000 buildings)		#	-	2
Access Node (< 5000 buildings)		#	-	3
Access Node (< 15000 buildings)		#	-	6
Total RSX racks required		#	**-**	**4,513**
Access Node (< 500 buildings)		#	-	3,091
Access Node (< 1000 buildings)		#	-	456
Access Node (< 2000 buildings)		#	-	528
Access Node (< 5000 buildings)		#	-	384
Access Node (< 15000 buildings)		#	-	54

DSLAM units calculation

xDSL-enabled access nodes

Total xDSL-enabled access nodes by size			**-**	**-**
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-

DSLAM line cards calculations

xDSL ports required per AN	**Available ports per line card**			
Access Node (< 500 buildings)	46	#	-	-
Access Node (< 1000 buildings)	46	#	-	-
Access Node (< 2000 buildings)	46	#	-	-
Access Node (< 5000 buildings)	46	#	-	-
Access Node (< 15000 buildings)	46	#	-	-
Total xDSL splitter requirements		#	-	-

xDSL Line cards required per AN (taking into account utilisation)	**Available line cards per shelf**			
Access Node (< 500 buildings)	16	#	-	-
Access Node (< 1000 buildings)	16	#	-	-
Access Node (< 2000 buildings)	16	#	-	-
Access Node (< 5000 buildings)	16	#	-	-
Access Node (< 15000 buildings)	16	#	-	-

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Total xDSL Line cards required		#	-	-
DSLAM shelves and racks calculations				
Shelves required per AN (taking into account utilisation)	**Available shelves per rack**			
Access Node (< 500 buildings)	3	#	-	-
Access Node (< 1000 buildings)	3	#	-	-
Access Node (< 2000 buildings)	3	#	-	-
Access Node (< 5000 buildings)	3	#	-	-
Access Node (< 15000 buildings)	3	#	-	-
DSLAM racks required per AN (taking into account utilisation)				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Total DSLAM racks required		#	-	-
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Total 1GE ports required for DSLAMs (electrical and/or optical)		#	-	-
Access Node (< 500 buildings)	assumes 1GE port deployed per rac	#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Checksum		-	-	-
Total 1GE ports required for DSLAMs - electrical		#	-	-
Access Node (< 500 buildings)	used by DSLAMs connected to a la	#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Total 1GE ports required for DSLAMs - optical		#	-	-
Access Node (< 500 buildings)	used by DSLAMs not connected to	#	-	-
Access Node (< 1000 buildings)		#	-	-

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Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-

MSAN units calculation

MSAN-migrated access nodes

Total MSAN-migrated access nodes by size		#	**-**	**-**
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-

MSAN line cards calculations

PSTN ports required per AN	**Available ports per line card**			
Access Node (< 500 buildings)	46	#	-	-
Access Node (< 1000 buildings)	46	#	-	-
Access Node (< 2000 buildings)	46	#	-	-
Access Node (< 5000 buildings)	46	#	-	-
Access Node (< 15000 buildings)	46	#	-	-

PSTN Line cards required per AN (taking into account utilisation)				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-

Total PSTN Line cards required		#	-	-

xDSL ports required per AN	**Available ports per line card**			
Access Node (< 500 buildings)	46	#	-	-
Access Node (< 1000 buildings)	46	#	-	-
Access Node (< 2000 buildings)	46	#	-	-
Access Node (< 5000 buildings)	46	#	-	-
Access Node (< 15000 buildings)	46	#	-	-

xDSL Line cards required per AN (taking into account utilisation)				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-

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Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Total xDSL Line cards required		#	-	-
Splitter ports required per AN	**Available ports per line card**			
Access Node (< 500 buildings)	46	#	-	-
Access Node (< 1000 buildings)	46	#	-	-
Access Node (< 2000 buildings)	46	#	-	-
Access Node (< 5000 buildings)	46	#	-	-
Access Node (< 15000 buildings)	46	#	-	-
Splitter Line cards required per AN (taking into account utilisation)				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Total splitter Line cards required		#	-	-

MSAN shelves and racks calculations

Maximum line cards required per AN	**Available line cards per shelf**			
Access Node (< 500 buildings)	16	#	-	-
Access Node (< 1000 buildings)	16	#	-	-
Access Node (< 2000 buildings)	16	#	-	-
Access Node (< 5000 buildings)	16	#	-	-
Access Node (< 15000 buildings)	16	#	-	-

Shelves required per AN (taking into account utilisation)	**Available shelves per rack**	**Provision shelves on expectation of 3 ports per line**			
Access Node (< 500 buildings)	3	3	#	-	-
Access Node (< 1000 buildings)	3	3	#	-	-
Access Node (< 2000 buildings)	3	3	#	-	-
Access Node (< 5000 buildings)	3	3	#	-	-
Access Node (< 15000 buildings)	3	3	#	-	-

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Racks required per AN (taking into account utilisation)					
Access Node (< 500 buildings)		#		-	-
Access Node (< 1000 buildings)		#		-	-
Access Node (< 2000 buildings)		#		-	-
Access Node (< 5000 buildings)		#		-	-
Access Node (< 15000 buildings)		#		-	-
Total MSAN racks required		#			
Access Node (< 500 buildings)		#		-	-
Access Node (< 1000 buildings)		#		-	-
Access Node (< 2000 buildings)		#		-	-
Access Node (< 5000 buildings)		#		-	-
Access Node (< 15000 buildings)		#		-	-
Total MSAN racks deployed					
Centralised MSANs		#		-	-
Distributed MSANs		#		-	-
Total 1GE ports required for MSANs (electrical and/or optical)		#		**-**	**-**
Access Node (< 500 buildings)	assumes 1GE port deployed per rac	#		-	-
Access Node (< 1000 buildings)		#		-	-
Access Node (< 2000 buildings)		#		-	-
Access Node (< 5000 buildings)		#		-	-
Access Node (< 15000 buildings)		#		-	-
Checksum			-	-	-
Total 1GE ports required for MSANs - electrical		#		-	-
Access Node (< 500 buildings)	used by MSANs connected to a laye	#		-	-
Access Node (< 1000 buildings)		#		-	-
Access Node (< 2000 buildings)		#		-	-
Access Node (< 5000 buildings)		#		-	-
Access Node (< 15000 buildings)		#		-	-
Total 1GE ports required for MSANs - optical		#		-	-
Access Node (< 500 buildings)	used by MSANs not connected to a	#		-	-
Access Node (< 1000 buildings)		#		-	-
Access Node (< 2000 buildings)		#		-	-
Access Node (< 5000 buildings)		#		-	-
Access Node (< 15000 buildings)		#		-	-

NGN DSLAM calculation

Access nodes migrated to NGN DSLAM

Total access nodes migrated to NGN DSLAM by size	#		**-**	**-**

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Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-

NGN DSLAM line cards calculations

PSTN ports required per AN	**Available ports per line card**			
Access Node (< 500 buildings)	46	#	-	-
Access Node (< 1000 buildings)	46	#	-	-
Access Node (< 2000 buildings)	46	#	-	-
Access Node (< 5000 buildings)	46	#	-	-
Access Node (< 15000 buildings)	46	#	-	-

PSTN Line cards required per AN (taking into account utilisation)				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Total PSTN Line cards required		#	-	-

xDSL ports required per AN	**Available ports per line card**			
Access Node (< 500 buildings)	46	#	-	-
Access Node (< 1000 buildings)	46	#	-	-
Access Node (< 2000 buildings)	46	#	-	-
Access Node (< 5000 buildings)	46	#	-	-
Access Node (< 15000 buildings)	46	#	-	-

xDSL Line cards required per AN (taking into account utilisation)				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Total xDSL Line cards required		#	-	-

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Fibre ports required per AN	Available ports per line card			
Access Node (< 500 buildings)	46	#	-	-
Access Node (< 1000 buildings)	46	#	-	-
Access Node (< 2000 buildings)	46	#	-	-
Access Node (< 5000 buildings)	46	#	-	-
Access Node (< 15000 buildings)	46	#	-	-
Fibre Line cards required per AN (taking into account utilisation)				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Total Fibre Line cards required		#	-	-

Splitter ports required per AN	Available ports per line card			
Access Node (< 500 buildings)	46	#	-	-
Access Node (< 1000 buildings)	46	#	-	-
Access Node (< 2000 buildings)	46	#	-	-
Access Node (< 5000 buildings)	46	#	-	-
Access Node (< 15000 buildings)	46	#	-	-
Splitter Line cards required per AN (taking into account utilisation)				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Total splitter Line cards required		#	-	-

NGN DSLAM shelves and racks calculations

Maximum line cards required per AN	Available line cards per shelf			
Access Node (< 500 buildings)	14	#	-	-
Access Node (< 1000 buildings)	14	#	-	-
Access Node (< 2000 buildings)	14	#	-	-
Access Node (< 5000 buildings)	14	#	-	-

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Access Node (< 15000 buildings)	14		#	-	-

Shelves required per AN (taking into account utilisation)	Available shelves per rack	Provision shelves on expectation of 3 ports per line			
Access Node (< 500 buildings)	3	3	#	-	-
Access Node (< 1000 buildings)	3	3	#	-	-
Access Node (< 2000 buildings)	3	3	#	-	-
Access Node (< 5000 buildings)	3	3	#	-	-
Access Node (< 15000 buildings)	3	3	#	-	-

Racks required per AN (taking into account utilisation)					
Access Node (< 500 buildings)			#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Total NGN DSLAM racks required			#		
Access Node (< 500 buildings)			#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Total NGN DSLAM racks deployed			#	-	-
Standard size			#	-	-
Original size			#	-	-
Total 1GE ports required for NGN DSLAMs (electrical and/or optical)			#	**-**	**-**
Access Node (< 500 buildings)		assumes 1GE port deployed per rac	#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Checksum				-	-
Total 1GE ports required for NGN DSLAMs - electrical			#	-	-
Access Node (< 500 buildings)		used by NGN_DSLAMs connected t	#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-

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Total 1GE ports required for NGN DSLAMs - optical		#	-	-
Access Node (< 500 buildings)	used by NGN_DSLAMs not connect	#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-

Layer 2 aggregation/metro switch units calculation

Located in access nodes containing more than one DSLAM/MSAN

Locations that may contain layer 2 aggregation/metro switches		#	-	-
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Locations that may contain layer 2 aggregation/metro switches and that are connected to Access rings or collocated with Distribution routers				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Locations that may contain layer 2 aggregation/metro switches and that are connected to Access trees				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Traffic requirements				
Services type				
NGN IP Access transmission for voice		Mbps	-	-
Modern IP Access transmission for xDSL, and VOD IPTV (Mbps)		Mbps	-	-
NGN IP Access transmission for xDSL, and VOD IPTV (Mbps)		Mbps	-	-
IP Access transmission for data transmission services (Mbps)		Mbps	-	-
Checksum		-	-	-
IP Access transmission for linear IPTV (Mbps)		Mbps	-	-
By type of AN				
Access Node (< 500 buildings)		Mbps	-	-
Access Node (< 1000 buildings)		Mbps	-	-
Access Node (< 2000 buildings)		Mbps	-	-
Access Node (< 5000 buildings)		Mbps	-	-

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Access Node (< 15000 buildings)			Mbps	-	-
Checksum			-	-	-
By AN on average					
Access Node (< 500 buildings)			Mbps	-	-
Access Node (< 1000 buildings)			Mbps	-	-
Access Node (< 2000 buildings)			Mbps	-	-
Access Node (< 5000 buildings)			Mbps	-	-
Access Node (< 15000 buildings)			Mbps	-	-
By DSLAM/MSAN/NGN DSLAM rack on average					
Access Node (< 500 buildings)			Mbps	-	-
Access Node (< 1000 buildings)			Mbps	-	-
Access Node (< 2000 buildings)			Mbps	-	-
Access Node (< 5000 buildings)			Mbps	-	-
Access Node (< 15000 buildings)			Mbps	-	-
Checksum			-	-	-
Access equipment facing ports - 1 GE electrical ports					
Required 1GE ports for business access nodes (if a switch is deployed)					
Access Node (< 500 buildings)	Required port for	-	#	-	-
Access Node (< 1000 buildings)	Required port for	-	#	-	-
Access Node (< 2000 buildings)	Required port for	1	#	-	-
Access Node (< 5000 buildings)	Required port for	1	#	-	-
Access Node (< 15000 buildings)	Required port for	1	#	-	-
Required 1GE ports for DSLAMs connectivity (if a switch is deployed)					
Access Node (< 500 buildings)	Assumes 1 GE electrical port requir		#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required 1GE ports for MSANs connectivity (if a switch is deployed)					
Access Node (< 500 buildings)	Assumes 1 GE electrical port requir		#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required 1GE ports for NGN DSLAM connectivity (if a switch is deployed)					
Access Node (< 500 buildings)	Assumes 1 GE electrical port requir		#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-

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Required 1GE ports for count of equipment (if a switch is deployed)			#		
Access Node (< 500 buildings)			#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)				-	-
Required 1GE ports for capacity (if a switch is deployed)	**Capacity 1GigE port**	**Switch port ultilisation**			
Access Node (< 500 buildings)	10,000	40%	#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required 1GE access facing ports					
Access Node (< 500 buildings)	No switch if only one access poi		#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required switch due to connectivity requirements					
Access Node (< 500 buildings)	No switch if only one access poi		#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Edge router facing ports - 1 GE or 10 GE					
Transmission requirement from local switch towards edge router, per node					
Access Node (< 500 buildings)			Mbps	-	-
Access Node (< 1000 buildings)			Mbps	-	-
Access Node (< 2000 buildings)			Mbps	-	-
Access Node (< 5000 buildings)			Mbps	-	-
Access Node (< 15000 buildings)			Mbps	-	-
Edge router facing port capability per node		**Switch port ultilisation**			
Access Node (< 500 buildings)		40%	port capability	-	-
Access Node (< 1000 buildings)			port capability	-	-
Access Node (< 2000 buildings)			port capability	-	-
Access Node (< 5000 buildings)			port capability	-	-
Access Node (< 15000 buildings)			port capability	-	-

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Number of Edge router facing ports per node				
Access Node (< 500 buildings)		#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Edge router facing 1GE ports per node	**Port capacity**			
Access Node (< 500 buildings)	1Gbps	#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Edge router facing 10 GE ports per node	**Port capacity**			
Access Node (< 500 buildings)	10Gbps	#	-	-
Access Node (< 1000 buildings)		#	-	-
Access Node (< 2000 buildings)		#	-	-
Access Node (< 5000 buildings)		#	-	-
Access Node (< 15000 buildings)		#	-	-
Totals				
1GE electrical ports		#	-	-
1GE optical ports		#	-	-
10GE optical ports		#	-	-

Line cards and chassis calculations	**1GE electrical ports per line card**	**10GE optical ports per line card**
	48	12

Switches locations connected to Access rings or collocated with Distribution routers					
Required 1GE electrical ports per node	**Port capacity**				
Access Node (< 500 buildings)	1Gbps	No cards deplo	#	-	-
Access Node (< 1000 buildings)		Considers acce	#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required 1GE electrical ports line cards per node					
Access Node (< 500 buildings)			#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-

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Required 10 GE optical ports per node	**Port capacity**				
Access Node (< 500 buildings)	10Gbps	No cards deplo	#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required 10 GE optical ports line cards per node					
Access Node (< 500 buildings)			#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required chassis per node	**Linecards slots per chassis**				
Access Node (< 500 buildings)	6		#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Totals					
1GE electrical ports			#	-	-
1GE electrical ports cards			#	-	-
10GE optical ports			#	-	-
10GE optical ports cards			#	-	-
Chassis			#	-	-
Switches locations connected to Access trees					
Required 1GE electrical ports per node, including ports linked	**Port capacity**				
Access Node (< 500 buildings)	1Gbps	No cards deplo	#	-	-
Access Node (< 1000 buildings)		Considers acce	#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required 1GE electrical ports line cards per node					
Access Node (< 500 buildings)			#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required 1GE optical port adaptors per node	**Port capacity**				

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Access Node (< 500 buildings)	1Gbps	Port adaptors d	#	-	-
Access Node (< 1000 buildings)		Considers core	#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required 10GE optical ports per node	**Port capacity**				
Access Node (< 500 buildings)	10Gbps	No cards deplo	#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required 10 GE optical ports line cards per node					
Access Node (< 500 buildings)			#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Required chassis per node					
Access Node (< 500 buildings)			#	-	-
Access Node (< 1000 buildings)			#	-	-
Access Node (< 2000 buildings)			#	-	-
Access Node (< 5000 buildings)			#	-	-
Access Node (< 15000 buildings)			#	-	-
Totals					
1GE electrical ports, including ports linked to optical adaptors			#	-	-
1GE electrical ports cards			#	-	-
1GE optical port adaptors			#	-	-
10GE optical ports			#	-	-
10GE optical ports cards			#	-	-
Chassis			#	-	-

Layer 3 edge routers (ER) units calculation

Located in access nodes containing DSLAMs/MSANs and (connected to access rings or co-located with distribution nodes)

Layer 3 edge routers locations	**Max number of EN**			**-**	**-**
Locations that may contain layer 3 edge routers	558		#	**-**	**-**
ER-equipped Access Node (< 500 buildings)			#	-	-
ER-equipped Access Node (< 1000 buildings)			#	-	-
ER-equipped Access Node (< 2000 buildings)			#	-	-
ER-equipped Access Node (< 5000 buildings)			#	-	-
ER-equipped Access Node (< 15000 buildings)			#	-	-

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Traffic requirements				
Total IP Access transmission for voice, dial-up, xDSL, data transmission services and VC	IP Access trans	Mbps	-	-
Total IP Access transmission for linear IPTV		Mbps	-	-
DSLAM/MSAN facing ports				
DSLAM facing ports - 1 GE optical	used by DSLAMs not connected to a	#	-	-
MSAN facing ports - 1 GE optical	used by MSANs not connected to a	#	-	-
NGN DSLAM facing ports - 1 GE optical	used by NGN DSLAMs not connected to a layer 2 switch		-	-
Aggregation switch facing ports				
Aggregation switch facing ports - 1 GE electrical		#	-	-
Aggregation switch facing ports - 1 GE optical		#	-	-
Aggregation switch facing ports - 10 GE optical		#	-	-
Distribution router facing ports - 1GE optical or 10 GE optical				
Required ports for capacity				
Transmission requirement from edge router towards distribution router, per node		Mbps	-	-
Distribution router facing bandwidth required		Mbps	-	-
	Router port ultilisation			
Distribution router facing port capability per node	40%	port capability	-	-
Number of Distribution router facing ports per node, for capacity		#	-	-
Minimum deployment for resilience, per node			-	-
Distribution router facing ports, all nodes				
1Gbps			-	-
10Gbps			-	-
40Gbps			-	-

Line cards and chassis calculations	**1GE electrical ports per line card**	**10GE optical ports per line card**
	4	2

Total number of ports required				
1 GE electrical		#	-	-
1 GE electrical with an optical port adaptor		#	-	-
10 GE optical		#	-	-
Required ports per node				
1 GE electrical		#	-	-
1 GE electrical with an optical port adaptor		#	-	-
10 GE optical		#	-	-

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Required line cards per node				
1 GE electrical, including ports linked to optical adaptors		#	-	-
10 GE optical		#	-	-
	Linecards slots per chassis			
Required chassis per node	12		-	-
Totals				
1GE electrical ports cards		#	-	-
1GE optical port adaptors		#	-	-
10GE optical ports cards		#	-	-
Chassis		#	-	-

Access trees and rings

Infrastructure

Access trees infrastructure				
Maritime Fibre cables		km	-	-
Terrestrial Fibre cables		km	-	-
Trench		km	-	-
Wireless link towers and ancillary		#	-	984
Wireless link transmission antennae		#	-	1,092
Wireless link repeaters		#	-	4
Access rings infrastructure				
Maritime Fibre cables		km	-	-
Terrestrial Fibre cables		km	-	-
Trench		km	-	-

Transmission needs

This step summarises the transmission needs before taking into account how they are transmitted exactly e.g. SDH rings, WDM rings, direct fibre connections

TDM transmission				
Total TDM Access transmission for voice (BHE)	TDM Access tra	BHE	**-**	**182,727**
Access Node (< 500 buildings)		BHE	-	49,259
Access Node (< 1000 buildings)		BHE	-	32,692
Access Node (< 2000 buildings)		BHE	-	41,777
Access Node (< 5000 buildings)		BHE	-	50,063
Access Node (< 15000 buildings)		BHE	-	8,936
Number of circuit groups			**-**	**4,513**

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Access Node (< 500 buildings)	#	-	3,091
Access Node (< 1000 buildings)	#	-	456
Access Node (< 2000 buildings)	#	-	528
Access Node (< 5000 buildings)	#	-	384
Access Node (< 15000 buildings)	#	-	54
TDM Voice Access transmission BHE per circuit group			
Access Node (< 500 buildings)	BHE	-	16
Access Node (< 1000 buildings)	BHE	-	72
Access Node (< 2000 buildings)	BHE	-	79
Access Node (< 5000 buildings)	BHE	-	130
Access Node (< 15000 buildings)	BHE	-	165
TDM Voice Access transmission E1s per circuit group			
Access Node (< 500 buildings)	# E1s	-	2
Access Node (< 1000 buildings)	# E1s	-	5
Access Node (< 2000 buildings)	# E1s	-	6
Access Node (< 5000 buildings)	# E1s	-	9
Access Node (< 15000 buildings)	# E1s	-	11
Total TDM Access transmission for voice (E1s)		**-**	**15,680**
Access Node (< 500 buildings)	# E1s	-	6,182
Access Node (< 1000 buildings)	# E1s	-	2,280
Access Node (< 2000 buildings)	# E1s	-	3,168
Access Node (< 5000 buildings)	# E1s	-	3,456
Access Node (< 15000 buildings)	# E1s	-	594
Total TDM Access transmission for low capacity digital leased lines (<=8 Mbps) (Mbps)		-	9,419
Access Node (< 500 buildings)	Mbps	-	3,219
Access Node (< 1000 buildings)	Mbps	-	1,656
Access Node (< 2000 buildings)	Mbps	-	2,186
Access Node (< 5000 buildings)	Mbps	-	2,079
Access Node (< 15000 buildings)	Mbps	-	279
Total TDM Access transmission for high capacity digital leased lines (>8 Mbps) (Mbps)		-	73,121
Access Node (< 500 buildings)	Mbps	-	29,782
Access Node (< 1000 buildings)	Mbps	-	10,366
Access Node (< 2000 buildings)	Mbps	-	12,184
Access Node (< 5000 buildings)	Mbps	-	17,246
Access Node (< 15000 buildings)	Mbps	-	3,542
Summary of current TDM/IP transmission			
TDM Access transmission for voice (E1s)	# E1s	-	15,680
TDM Access transmission for llow capacity digital leased lines (<=8 Mbps) (Mbps)	Mbps	-	9,419
TDM Access transmission for high capacity digital leased lines (>8 Mbps) (Mbps)	Mbps	-	73,121

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IP transmission				
NGN IP Access transmission for voice	NGN voice acc	Mbps	-	-
Access Node (< 500 buildings)		Mbps	-	-
Access Node (< 1000 buildings)		Mbps	-	-
Access Node (< 2000 buildings)		Mbps	-	-
Access Node (< 5000 buildings)		Mbps	-	-
Access Node (< 15000 buildings)		Mbps	-	-
IP Access transmission for data transmission services (Mbps)	VPN access tra	Mbps	-	-
Access Node (< 500 buildings)		Mbps	-	-
Access Node (< 1000 buildings)		Mbps	-	-
Access Node (< 2000 buildings)		Mbps	-	-
Access Node (< 5000 buildings)		Mbps	-	-
Access Node (< 15000 buildings)		Mbps	-	-
IP Access transmission for xDSL, and VOD IPTV (Mbps)	IP Access trans	Mbps	-	-
Modern IP Access transmission for xDSL and VOD IPTV (Mbps)		Mbps	**-**	**-**
Access Node (< 500 buildings)	note: excludes voice and VPN r	Mbps	-	-
Access Node (< 1000 buildings)		Mbps	-	-
Access Node (< 2000 buildings)		Mbps	-	-
Access Node (< 5000 buildings)		Mbps	-	-
Access Node (< 15000 buildings)			-	-
NGN IP Access transmission for xDSL and VOD IPTV (Mbps)		Mbps	**-**	**-**
Access Node (< 500 buildings)		Mbps	-	-
Access Node (< 1000 buildings)		Mbps	-	-
Access Node (< 2000 buildings)		Mbps	-	-
Access Node (< 5000 buildings)		Mbps	-	-
Access Node (< 15000 buildings)		Mbps	-	-
IP Access transmission for linear IPTV				
IP Access transmission for linear IPTV (Mbps per link)		Mbps per link	-	-
IP Access transmission for linear IPTV (Mbps)		Mbps	**-**	**-**
Access Node (< 500 buildings)		Mbps	-	-
Access Node (< 1000 buildings)		Mbps	-	-
Access Node (< 2000 buildings)		Mbps	-	-
Access Node (< 5000 buildings)		Mbps	-	-
Access Node (< 15000 buildings)		Mbps	-	-

Allocation of traffic to transmission resources

This step allocates the previous "Transmission needs" to the different transmission resources

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TDM transmission			
PDH/SDH Access trees			
TDM Access transmission for voice (E1s) per AN type		**-**	**8,519**
Access Node (< 500 buildings)	# E1s	-	5,609
Access Node (< 1000 buildings)	# E1s	-	1,705
Access Node (< 2000 buildings)	# E1s	-	985
Access Node (< 5000 buildings)	# E1s	-	220
Access Node (< 15000 buildings)	# E1s	-	-
TDM Access transmission for low capacity digital leased lines (<=8 Mbps) per AN type (Mbps)		**-**	**5,045**
Access Node (< 500 buildings)	Mbps	-	2,921
Access Node (< 1000 buildings)	Mbps	-	1,254
Access Node (< 2000 buildings)	Mbps	-	772
Access Node (< 5000 buildings)	Mbps	-	98
Access Node (< 15000 buildings)	Mbps	-	-
TDM Access transmission for high capacity digital leased lines (>8 Mbps) per AN type (Mbps)		**-**	**35,225**
Access Node (< 500 buildings)	Mbps	-	25,248
Access Node (< 1000 buildings)	Mbps	-	6,444
Access Node (< 2000 buildings)	Mbps	-	2,986
Access Node (< 5000 buildings)	Mbps	-	547
Access Node (< 15000 buildings)	Mbps	-	-
Total transmission required (E1s) per AN type			
Access Node (< 500 buildings)	# E1s	-	19,363.58
Access Node (< 1000 buildings)	# E1s	-	5,463.68
Access Node (< 2000 buildings)	# E1s	-	2,819.34
Access Node (< 5000 buildings)	# E1s	-	535.43
Access Node (< 15000 buildings)	# E1s	-	-
SDH Access rings			
TDM Access transmission for voice (E1s)		**-**	**11,612**
Access Node (< 500 buildings)	# E1s	-	6,138
Access Node (< 1000 buildings)	# E1s	-	2,141
Access Node (< 2000 buildings)	# E1s	-	2,270
Access Node (< 5000 buildings)	# E1s	-	1,064
Access Node (< 15000 buildings)	# E1s	-	-
TDM Access transmission for low capacity digital leased lines (<=8 Mbps) per AN type (Mbps)		**-**	**6,677**
Access Node (< 500 buildings)	Mbps	-	3,157
Access Node (< 1000 buildings)	Mbps	-	1,499
Access Node (< 2000 buildings)	Mbps	-	1,488
Access Node (< 5000 buildings)	Mbps	-	533
Access Node (< 15000 buildings)	Mbps	-	-

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TDM Access transmission for high capacity digital leased lines (>8 Mbps) per AN type (Mbps)			**-**	**46,241**
Access Node (< 500 buildings)		Mbps	-	27,622
Access Node (< 1000 buildings)		Mbps	-	8,354
Access Node (< 2000 buildings)		Mbps	-	6,620
Access Node (< 5000 buildings)		Mbps	-	3,644
Access Node (< 15000 buildings)		Mbps	-	-
TDM Access transmission for voice (E1s) per ring			**-**	**11,612**
	1	# E1s	-	132
	0	# E1s	-	-
TDM Access transmission for low capacity digital leased lines (<=8 Mbps) per ring (Mbps)			**-**	**6,677**
	1	Mbps	-	81
	0	Mbps	-	-
TDM Access transmission for high capacity digital leased lines (>8 Mbps) per ring (Mbps)			**-**	**11,310**
	1	Mbps	-	49
	0	Mbps	-	-
Total transmission required (E1s) per ring			**-**	**20,433**
	1	# E1s	-	196
	0	# E1s	-	-

IP transmission

Dedicated fibre access trees for remote MSANs

NGN IP Access transmission for voice			**-**	**-**
Access Node (< 500 buildings)		Mbps	-	-
Access Node (< 1000 buildings)		Mbps	-	-
Access Node (< 2000 buildings)		Mbps	-	-
Access Node (< 5000 buildings)		Mbps	-	-
Access Node (< 15000 buildings)		Mbps	-	-
Modern IP Access transmission for xDSL, and VOD IPTV (Mbps)			**-**	**-**
Access Node (< 500 buildings)		Mbps	-	-
Access Node (< 1000 buildings)		Mbps	-	-
Access Node (< 2000 buildings)		Mbps	-	-
Access Node (< 5000 buildings)		Mbps	-	-
Access Node (< 15000 buildings)		Mbps	-	-
NGN IP Access transmission for xDSL, and VOD IPTV (Mbps)			**-**	**-**
Access Node (< 500 buildings)		Mbps	-	-
Access Node (< 1000 buildings)		Mbps	-	-
Access Node (< 2000 buildings)		Mbps	-	-
Access Node (< 5000 buildings)		Mbps	-	-

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Access Node (< 15000 buildings)	Mbps	-	-
IP Access transmission for data transmission services (Mbps)		**-**	**-**
Access Node (< 500 buildings)	Mbps	-	-
Access Node (< 1000 buildings)	Mbps	-	-
Access Node (< 2000 buildings)	Mbps	-	-
Access Node (< 5000 buildings)	Mbps	-	-
Access Node (< 15000 buildings)	Mbps	-	-
IP Access transmission for linear IPTV (Mbps per link)	Mbps per link	-	-
CWDM Access rings for colocated MSANs and traffic collected on aggregation switches from remote MSANs			
NGN IP Access transmission for voice		**-**	**-**
Access Node (< 500 buildings)	Mbps	-	-
Access Node (< 1000 buildings)	Mbps	-	-
Access Node (< 2000 buildings)	Mbps	-	-
Access Node (< 5000 buildings)	Mbps	-	-
Access Node (< 15000 buildings)	Mbps	-	-
Modern IP Access transmission for xDSL, and VOD IPTV (Mbps)		**-**	**-**
Access Node (< 500 buildings)	Mbps	-	-
Access Node (< 1000 buildings)	Mbps	-	-
Access Node (< 2000 buildings)	Mbps	-	-
Access Node (< 5000 buildings)	Mbps	-	-
Access Node (< 15000 buildings)	Mbps	-	-
NGN IP Access transmission for xDSL, and VOD IPTV (Mbps)		**-**	**-**
Access Node (< 500 buildings)	Mbps	-	-
Access Node (< 1000 buildings)	Mbps	-	-
Access Node (< 2000 buildings)	Mbps	-	-
Access Node (< 5000 buildings)	Mbps	-	-
Access Node (< 15000 buildings)	Mbps	-	-
IP Access transmission for data transmission services (Mbps)		**-**	**-**
Access Node (< 500 buildings)	Mbps	-	-
Access Node (< 1000 buildings)	Mbps	-	-
Access Node (< 2000 buildings)	Mbps	-	-
Access Node (< 5000 buildings)	Mbps	-	-
Access Node (< 15000 buildings)	Mbps	-	-
IP Access transmission for linear IPTV (Mbps per link)	Mbps per link	-	-

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Dimensioning of transmission resources

This step dimensions the different transmission resources

TDM transmission			
PDH/SDH Access trees			
Transmission required by AN (E1s)			
Access Node (< 500 buildings)	# E1s	-	6.7
Access Node (< 1000 buildings)	# E1s	-	14.8
Access Node (< 2000 buildings)	# E1s	-	27.9
Access Node (< 5000 buildings)	# E1s	-	48.7
Access Node (< 15000 buildings)	# E1s	-	-
PDH/SDH capability by AN			
Access Node (< 500 buildings)	transmission level	-	E3
Access Node (< 1000 buildings)	transmission level	-	E3
Access Node (< 2000 buildings)	transmission level	-	E3
Access Node (< 5000 buildings)	transmission level	-	STM-1
Access Node (< 15000 buildings)	transmission level	-	-
Number of connections by AN			
Access Node (< 500 buildings)	#	-	1
Access Node (< 1000 buildings)	#	-	2
Access Node (< 2000 buildings)	#	-	2
Access Node (< 5000 buildings)	#	-	1
Access Node (< 15000 buildings)	#	-	-
Total number of PDH/SDH connections		**-**	**3,859**
E1	#	-	-
E3	#	-	3,848
STM-0	#	-	-
STM-1	#	-	11
STM-4	#	-	-
STM-16	#	-	-
STM-64	#	-	-
Total number of PDH terminals and SDH ADMs		**-**	**7,718**
E1	#	-	-
E3	#	-	7,696
STM-0	#	-	-
STM-1	#	-	22
STM-4	#	-	-
STM-16	#	-	-
STM-64	#	-	-

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PDH/SDH Fibre regenerator			#	-	2
SDH Access rings					
Transmission required by SDH ring (E1s)				**-**	**20,433**
	1		# E1s	-	196
	0		# E1s	-	-
SDH capability by ring					
	1		transmission level	-	STM-4
	0		transmission level	-	-
Number of ADMs per ring		**Number of nodes on the ring**		**-**	**732**
	1	6	#	-	6
	0	0	#	-	-
Total number of SDH ADM				**-**	**732**
E1			#	-	-
E3			#	-	-
STM-0			#	-	-
STM-1			#	-	28
STM-4			#	-	688
STM-16			#	-	16
STM-64			#	-	-
SDH Fibre regenerator			#	-	8
IP transmission					
Dedicated fibre access trees for remote DSLAMs, MSANs and layer 2 switches					
Required assets already dimensioned in previous calculations					
fibre cables and trench					
optical ports in DSLAMs and MSANs not connected to a layer 2 switch					
optical ports in aggregation layer 2 switch					
optical ports in edge routers					
CWDM Access rings for Edge router Access Nodes not collocated with Distribution Nodes					
fibre cables and trench already dimensioned in previous calculations (shared with SDH rings)					
Number of Edge router Access Nodes connected to CWDM Access rings			#	-	-
Edge router Access Nodes			#	-	-
Edge router Access Nodes collocated with Distribution routers			#	-	-
Proportion of Edge router Access Nodes collocated with DR			%	-%	-%

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Proportion of non-collocated hub level access nodes upgraded to Edge router			%	-%	-%
Number of additional transponders per Access Node required for regeneration			#	-	-
Number of fibre regenerators			#	-	-
	Number of rings				
Number of CWDM Access rings	194		#	-	-
Distribution router facing ports per AN connected to CWDM Access rings					
1Gbps			#	-	-
10Gbps			#	-	-
Active fibre rings per physical ring			#	-	-
Total number of distribution router facing ports					
1Gbps			#	-	-
10Gbps			#	-	-
Required Optical ADMs at Access Nodes		Equal to numbe	#	-	-
Transponders required at Access Nodes ADMs					
1Gbps	2	2 transponders	#	-	-
10Gbps	2	2 transponders	#	-	-
Additional transponders required for regeneration					
1Gbps			#	-	-
10Gbps			#	-	-
Required terminal multiplexers at Distribution Nodes		1 multiplexer pe	#	-	-

Distribution nodes

Distribution node sites

Number of distribution nodes	**Number of DN**				
Number of distribution nodes	163		#	-	163
Proportion of distribution nodes deployed on the same site as core nodes					
Proportion of distribution nodes sharing site with core nodes			%	-%	17%
			#		
Total distribution nodes sites required				-	135

LS units calculation

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LSs to support BHCA demand	**BHCA capacity**	**BHCA utilisation**			
	800,000	80%			
LS BHCA		TDM Distributio	BHCA	-	2,290,292
LS required			#	-	4
LSs to support BHE demand	**BHE capacity**	**BHE**			
	1,500	80%			
LS BHE		TDM Distributio	BHE	-	177,528
LS required			#	-	148
	Minimum per distribution node				
Calculated LSs according to total requirements	1		#	-	163
LS chassis/processor			#	-	163
LS switchblock			#	-	163
LS software			#	-	163

Layer 3 distribution routers units calculation

Layer 3 distribution routers locations			
Total nodes	#	-	-
of which, nodes NOT colocated with Distribution SBCs, Interco SBCs or service platforms	#	-	-
of which, nodes colocated with Distribution SBCs	#	-	-
of which, nodes colocated with Distribution SBCs and Interco SBCs assumes interco SBCs collocate	#	-	-
of which, nodes colocated with Distribution SBCs, Interco SBCs an assumes service platforms collc	#	-	-
Traffic requirements			
Total IP Distribution transmission for voice, dial-up, xDSL, data transmission services an IP Distribution t	Mbps	-	-
Total IP Distribution transmission for linear IPTV	Mbps	-	-
Edge router facing ports - 1GE optical	#	-	-
of which, nodes NOT colocated with Distribution SBCs, Interco SBCs or service platforms	#	-	-
of which, nodes colocated with Distribution SBCs	#	-	-
of which, nodes colocated with Distribution SBCs and Interco SBCs	#	-	-
of which, nodes colocated with Distribution SBCs, Interco SBCs and service platforms	#	-	-
Edge router facing ports - 10GE optical	#	-	-
of which, nodes NOT colocated with Distribution SBCs, Interco SBCs or service platforms	#	-	-
of which, nodes colocated with Distribution SBCs	#	-	-
of which, nodes colocated with Distribution SBCs and Interco SBCs	#	-	-
of which, nodes colocated with Distribution SBCs, Interco SBCs and service platforms	#	-	-
Edge router facing ports - 40GE optical	#	-	-
of which, nodes NOT colocated with Distribution SBCs, Interco SBCs or service platforms	#	-	-

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of which, nodes colocated with Distribution SBCs	#	-	-
of which, nodes colocated with Distribution SBCs and Interco SBCs	#	-	-
of which, nodes colocated with Distribution SBCs, Interco SBCs and service platforms	#	-	-
Distribution SBC facing ports - 1 GE electrical	#	-	-
of which, nodes colocated with Distribution SBCs	#	-	-
of which, nodes colocated with Distribution SBCs and Interco SBCs	#	-	-
of which, nodes colocated with Distribution SBCs, Interco SBCs and service platforms	#	-	-
Interco SBC facing ports - 1 GE electrical	#	-	-
of which, nodes colocated with Distribution SBCs and Interco SBCs	#	-	-
of which, nodes colocated with Distribution SBCs, Interco SBCs and service platforms	#	-	-
Service platform facing ports			
1GE electrical ports	#	-	-
10 GE optical ports	#	-	-
40 GE optical ports	#	-	-
Core router facing ports - 10 GE optical	#	-	-
of which, nodes NOT colocated with Distribution SBCs, Interco SBCs or service platforms	#	-	-
of which, nodes colocated with Distribution SBCs	#	-	-
of which, nodes colocated with Distribution SBCs and Interco SBCs	#	-	-
of which, nodes colocated with Distribution SBCs, Interco SBCs and service platforms	#	-	-
Core router facing ports - 40 GE optical	#	-	-
of which, nodes NOT colocated with Distribution SBCs, Interco SBCs or service platforms	#	-	-
of which, nodes colocated with Distribution SBCs	#	-	-
of which, nodes colocated with Distribution SBCs and Interco SBCs	#	-	-
of which, nodes colocated with Distribution SBCs, Interco SBCs and service platforms	#	-	-

	Capacity 10GigE port	Router port ultilisation			
Required ports for capacity	10,000	50%	#	-	-
Core router facing bandwidth required				-	-
Minimum deployment			#	-	-

	Capacity 40GigE port	Router port ultilisation			
Required ports for capacity	40,000	50%	#	-	-
Core router facing bandwidth required				-	-
Minimum deployment			#	-	-

Line cards and chassis calculations	1GE electrical ports per line card	10GE optical ports per line card	40GE optical ports per line card
	2	2	2

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Distribution routers locations NOT collocated with Distribution SBCs				
Total number of ports required				
1 GE electrical		#	-	-
1 GE electrical with an optical port adaptor		#	-	-
10 GE optical		#	-	-
Required ports per node				
1 GE electrical		#	-	-
1 GE electrical with an optical port adaptor		#	-	-
10 GE optical		#	-	-
Required line cards per node				
1 GE electrical, including ports linked to optical adaptors		#	-	-
10 GE optical		#	-	-
	Linecards slots per chassis			
Required chassis per node	12	#	-	-
Totals				
1GE electrical ports cards		#	-	-
1GE optical port adaptors		#	-	-
10GE optical ports cards		#	-	-
Chassis		#	-	-
Distribution routers locations collocated with Distribution SBCs				
Total number of ports required				
1 GE electrical		#	-	-
1 GE electrical with an optical port adaptor		#	-	-
10 GE optical		#	-	-
Required ports per node				
1 GE electrical		#	-	-
1 GE electrical with an optical port adaptor		#	-	-
10 GE optical		#	-	-
Required line cards per node				
1 GE electrical, including ports linked to optical adaptors		#	-	-
10 GE optical		#	-	-
Required chassis per node		#	-	-
Totals				
1GE electrical ports cards		#	-	-
1GE optical port adaptors		#	-	-
10GE optical ports cards		#	-	-

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Chassis	#	-	-
Distribution routers locations colocated with Distribution SBCs and Interco SBCs			
Total number of ports required			
1 GE electrical	#	-	-
1 GE electrical with an optical port adaptor	#	-	-
10 GE optical	#	-	-
Required ports per node			
1 GE electrical	#	-	-
1 GE electrical with an optical port adaptor	#	-	-
10 GE optical		-	-
Required line cards per node			
1 GE electrical, including ports linked to optical adaptors	#	-	-
10 GE optical	#	-	-
Required chassis per node	#	-	-
Totals			
1GE electrical ports cards	#	-	-
1GE optical port adaptors	#	-	-
10GE optical ports cards	#	-	-
Chassis	#	-	-
Distribution routers locations colocated with Distribution SBCs, Interco SBCs and service platforms			
Total number of ports required			
1 GE electrical	#	-	-
1 GE electrical with an optical port adaptor	#	-	-
10 GE optical	#	-	-
40 GE optical	#	-	-
Required ports per node			
1 GE electrical	#	-	-
1 GE electrical with an optical port adaptor	#	-	-
10 GE optical	#	-	-
40 GE optical	#	-	-
Required line cards per node			
1Gbps	#	-	-
10Gbps	#	-	-
40Gbps	#	-	-
Required chassis per node	#	-	-
Totals			

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1GE electrical ports cards			#	-	-
1GE optical port adaptors			#	-	-
10GE optical ports cards			#	-	-
40GE optical ports cards			#	-	-
Chassis			#	-	-
Totals					
1GE electrical ports cards			#	-	-
1GE optical port adaptors			#	-	-
10GE optical ports cards			#	-	-
40GE optical ports cards			#	-	-
Chassis			#	-	-

Distribution SBC units calculation

Distribution SBC locations			#	-	-
Traffic requirements					
Total IP traffic through distribution SBCs		NGN Distributio	Mbps	-	-
	Capacity 1GigE port	**SBC port ultilisation**			
Layer 3 distribution router facing ports - 1 GE electrical	10,000	40%	#	-	-
Required ports for capacity	2	Double traffic to	#	-	-
Minimum ports deployment	1	Minimally deplo	#	-	-
	Licence trigger	**SW utilisation**			
Software upgrades required	10	100%		-	-
Line cards and chassis calculations					
Required ports per node					
1 GE electrical			#	-	-
Required line cards per node	**1GE electrical**				
1 GE electrical	2		#	-	-
	Linecards				
Required chassis per node	2		#	-	-
Totals					
1GE electrical ports cards			#	-	-
Chassis			#	-	-

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Distribution rings

Distribution rings infrastructure

Maritime Fibre cables	km	-	-
Terrestrial Fibre cables	km	-	-
Trench	km	-	-

Transmission needs

This step summarises the transmission needs before taking into account how they are transmitted exactly e.g. SDH rings, WDM rings, direct fibre connections

TDM transmission				
Total TDM Distribution transmission for voice (BHE)	TDM Distributio	BHE	-	172,330
Number of circuit groups		#	-	652
TDM Voice Distribution transmission BHE per circuit group		BHE	-	264
TDM Voice Distribution transmission E1s per circuit group		E1	-	16
Total TDM Distribution transmission for voice (E1s)		E1	**-**	**10,432**
Total TDM Distribution transmission for leased lines services (Mbps)		Mbps	-	77,476
Summary of current TDM/IP transmission				
TDM Distribution transmission for voice (E1s)		E1	-	10,432
TDM Distribution transmission for leased lines services (Mbps)		Mbps	-	77,476
TDM Distribution transmission for leased lines services (E1 equivalents)		E1	-	37,830
IP transmission				
Total IP Distribution transmission for voice, dial-up, xDSL, data transmission services and VOD IP		Mbps	-	-
Total IP Distribution transmission for linear IPTV		Mbps	-	-

Allocation of traffic to transmission resources

This step allocates the previous "Transmission needs" to the different transmission resources

TDM transmission			
SDH Distribution rings			
TDM Distribution transmission for voice (E1s) per ring		**-**	**10,115**
AL1	E1	-	405.54
OS5	E1	-	730.90
TDM Distribution transmission for leased lines services (Mbps) per ring		**-**	**73,846**
AL1	Mbps	-	2,919.39
OS5	Mbps	-	3,853.60

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Total transmission required (E1s) per ring			**-**	**46,187**
AL1		E1	-	1,832.00
OS5		E1	-	2,613.00

IP transmission

CWDM Distribution rings

All traffic at that layer is carried on the CWDM Distribution rings

Dimensioning of transmission resources

This step dimensions the different transmission resources

TDM transmission

SDH Distribution rings

Transmission required by SDH ring (E1s)			**-**	**46,187**
AL1		E1	-	1,832.00
OS5		E1	-	2,613.00
SDH capability by ring				
AL1		transmission level	-	STM-16
OS5		transmission level	-	STM-64
Number of ADMs per ring			**-**	**480**
AL1	17	#	-	34
OS5	18	#	-	18
Total number of SDH ADM			**-**	**480**
E1		#	-	-
E3		#	-	-
STM-0		#	-	-
STM-1		#	-	12
STM-4		#	-	89
STM-16		#	-	202
STM-64		#	-	177
SDH Fibre regenerator		#	-	54

IP transmission

DWDM Distribution rings

fibre cables and trench already dimensioned in previous calculations (shared with SDH rings)

Number of Distribution Nodes connected to DWDM Distribution rings		#	-	-
Distribution routers nodes		#	-	-
Distribution routers nodes collocated with Core nodes		#	-	-
Proportion of Distribution Nodes collocated with CN		%	-%	-%
Proportion of non-collocated distribution access nodes upgraded to Distribution router		%	-%	-%

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Number of additional transponders per Distribution Node required for regeneration			#	-	-
Number of fibre regenerators			#	-	-
	Number of rings				
Number of DWDM Distribution rings	26		#	-	-
Core router facing ports per DN connected to DWDM Distribution rings					
10Gbps			#	-	-
40Gbps			#	-	-
Active fibre rings per physical ring			#	-	-
Total number of core router facing ports					
10Gbps			#	-	-
40Gbps			#	-	-
Required Optical ADMs at Distribution Nodes		Equal to numbe	#	-	-
Transponders required at Distribution Nodes ADMs					
10Gbps	2	2 transponders	#	-	-
40Gbps	2	2 transponders	#	-	-
Additional transponders required for regeneration					
10Gbps			#	-	-
40Gbps			#	-	-
Required terminal multiplexers at Core Nodes		1 multiplexer pe	#	-	-

Core nodes

Core node sites

Number of core nodes	**Number of CN**				
Number of core nodes	28	based on opera	#	-	28
	Proportion of coloc				
Proportion of collocated core nodes	7%	based on opera	%	-%	7%
Total core nodes sites required			#	-	26

TDM call servers units calculation

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TDM CSs to support BHCA demand	**BHCA capacity**	**BHCA utilisation**			
	1,000,000	90%			
TDM CS BHCA		TDM call server	BHCA	-	1,322,875
TDM CS required			#	-	2
	Minimum needed at network level				
Calculated TDM CSs according to total requirements	4		#	-	-
TDM CS processor			#	-	-
TDM CS software			#	-	-

NGN call servers units calculation

NGN CSs to support BHCA demand	**BHCA capacity**	**BHCA utilisation**			
	200,000	90%			
NGN CS BHCA		NGN call server	BHCA	-	-
NGN CS required			#	-	-
	Minimum needed at network level				
Calculated NGN CSs according to total requirements	2		#	-	-
NGN CS processor			#	-	-
NGN CS software			#	-	-

PE routers

Number of voice router nodes			#	-	28
Traffic requirements					
NGN voice traffic	NGN voice access		Mbps	-	-
Ports calculations	**Port**				
	40%				
Transmission requirement, per router location			Mbps	-	-
Port capability, per router location			port capability	-	-
Line cards and chassis calculations					
Number of ports, per router location			#	-	-
1GE electrical ports	1Gbps		#	-	-
	Ports per line card	**Linecards per chassis**			
Required line cards per router location		5			
1GE electrical ports	4		#	-	-

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Required chassis per router location			#	-	-
Totals					
1GE electrical ports cards			#	-	-
Chassis			#	-	-

IMS call servers units calculation

IMS CSs to support BHCA demand	**BHCA capacity**	**BHCA utilisation**			
	200,000	90%			
NGN CS BHCA		NGN call server	BHCA	-	-
NGN CS required			#	-	-
	Minimum needed at network level				
Calculated NGN CSs according to total requirements	2		#	-	-
NGN CS processor			#	-	-
Software upgrades (subscriber-driven)					
Subscribers			#	-	2,233,365
	Upgrade trigger	**Utilisation**			
	1	100%		-	-
Software upgrades (call-driven)					
NGN CS BHCA		NGN call server	BHCA	-	-
	Upgrade trigger	**Utilisation**			
	1	100%		-	-
MTAS					
Residential subscribers				-	2,233,365
Business subscribers				-	-
	Upgrade trigger	**Utilisation**			
Residential services	25,000	100%		-	-
Business services	25,000	100%		-	-

MGW units calculation

MGWs to support BHE demand	**BHE capacity**	**BHE**			
	50,000	80%			
MGW BHE		TDM Core switc	BHE	-	108,631

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MGWs required			#	-	3
	Minimum per core node for ATM switching and LS connectivity				
Calculated MGWs according to total requirements	1		#	-	-

IGWs units calculation

IGWs to support BHCA demand	BHCA capacity	BHCA utilisation			
	800,000	80%			
IGW BHCA		TDM Internatior	BHCA	-	40,822
IGW required			#	-	1
IGWs to support BHE demand	BHE capacity	BHE			
	50,000	80%			
IGW BHE		TDM Internatior	BHE	-	3,347
IGWs required			#	-	1
Calculated IGWs according to total requirements	Minimum needed at network level		#	-	2
IGW processor	2		#	-	2
IGW switchblock			#	-	2
IGW software			#	-	2

MGWs/IGWs E1 ports

MGW to MGW traffic is carried on ATM ports, not E1s

Interconnect traffic				
total interco BHE	TDM Voice inte	BHE	-	13,252
international interco BHE	TDM Internatior	BHE	-	3,347
Incoming share of total interconnect traffic		%	-%	22%
National interconnection ports				
national interco BHE		BHE	-	9,905
Incoming traffic ports				
incoming national interco BHE		BHE	-	2,204
number of circuit groups		#	-	-
BHE per circuit group		BHE	-	-
E1 per circuit group		#	-	-

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total E1s		#	-	-
Outgoing traffic ports				
outgoing national interco BHE		BHE	-	7,701
number of circuit groups		#	-	-
BHE per circuit group		BHE	-	-
E1 per circuit group		#	-	-
total E1s		#	-	-
International interconnection ports				
international interco BHE		BHE	-	3,347
Incoming traffic ports				
incoming international interco BHE		BHE	-	745
number of circuit groups		#	-	80
BHE per circuit group		BHE	-	9
E1 per circuit group		#	-	2
total E1s		#	-	160
Outgoing traffic ports				
outgoing international interco BHE		BHE	-	2,602
number of circuit groups		#	-	80
BHE per circuit group		BHE	-	33
E1 per circuit group		#	-	3
total E1s		#	-	240
Total TDM interconnection ports		#	-	400

Layer 2 services facing switch units calculation

Layer 2 services switch locations			-	-
Traffic requirements			-	-
Dial-up Internet traffic		Mbps	-	-
xDSL (direct, contended)		Mbps	-	-
xDSL (indirect, contended)		Mbps	-	-
Fibre (direct, contended)		Mbps	-	-
Fibre (indirect, contended)		Mbps	-	-
Cable (direct, contended)		Mbps	-	-
Cable (indirect, contended)		Mbps	-	-
VoD (direct, contended)		Mbps	-	-
VoD in(direct, contended)		Mbps	-	-
TV (linear broadcast)	One flow to the local DR that wil	Mbps	-	-
BSA (direct, contended)		Mbps	-	-
Distribution router facing ports		**Switch port ultilisation**		
		50%		
Transmission requirement from services towards local distribution router, per service node		Mbps	-	-

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Distribution router facing port capability, per service node			port capability		-	-
Number of Distribution router facing ports, per service node			#		-	-
1GE electrical ports	1Gbps		#		-	-
10 GE optical ports	10Gbps		#		-	-
40 GE optical ports	40Gbps		#		-	-
Service platform facing ports						
Number of Distribution router facing ports, per service node						
1GE electrical ports	1	Additional ports	#		-	-
10 GE optical ports	1	Additional ports	#		-	-
40 GE optical ports	1	Additional ports	#		-	-
Line cards and chassis calculations						
Total number of ports required, per service node						
1GE electrical ports			#		-	-
10 GE optical ports			#		-	-
40 GE optical ports			#		-	-
	1GE electrical ports per line card	**10GE optical ports per line card**	**40 GE optical ports per line card**	**Linecards slots per chassis**		
Required line cards per service node	48	12	12	6		
1GE electrical ports			#		-	-
10 GE optical ports			#		-	-
40 GE optical ports			#		-	-
Required chassis per service node			#		-	-
Totals		**Port capacity**				
1GE electrical ports cards		1Gbps	#		-	-
10GE optical ports cards			#		-	-
40 GE optical ports cards			#		-	-
Chassis			#		-	-

Layer 3 core routers units calculation

Layer 3 core routers locations			#		-	-
Traffic requirements						
Total IP Core transmission for voice, dial-up, xDSL, data transmission services and VOD		IP Core transmi	Mbps		-	-
Total IP Core transmission for linear IPTV			Mbps		-	-
Distribution router facing ports - 10 GE optical						
Total Distribution router 10 GE optical facing ports			#		-	-

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Other core router facing ports - 10 GE optical	**Capacity 10GigE port**	**Router port ultilisation**	#	-	-
	10,000	40%			
Required ports for capacity	2	two ports per lin	#	-	-
Other core routers facing bandwidth required			Mbps	-	-
Minimum deployment - full mesh			#	-	-
Line cards and chassis calculations	**10GE optical ports per line card**				
	4				
Total number of ports required					
10Gbps			#	-	-
Required ports per node					
10Gbps			#	-	-
Required line cards per node					
10Gbps			#	-	-
	Linecards slots per chassis				
Required chassis per node	8		#	-	-
Totals					
10GE optical ports cards			#	-	-
Chassis			#	-	-

Interconnect-facing SBC units calculation

Interconnect-facing SBC locations			#	-	-
Traffic requirements					
Total IP traffic through interconnect-facing SBCs		NGN Interconne	Mbps	-	-
Layer 3 distribution router facing ports - 1 GE electrical	**Capacity 1GigE port**	**SBC port ultilisation**	#	-	-
	10,000	40%			
Required ports for capacity	1	No doubling as	#	-	-
Minimum ports deployment	1	Minimally deplo	#	-	-
Layer 3 peering routers facing ports - 1 GE electrical			#	-	-
Trunk gateway facing ports - 1 GE electrical			#	-	-
Total ports required			#	-	-

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Line cards calculations

	1GE electrical ports per line card	Linecards slots per chassis			
			#	-	-
Required cards for capacity	2	2	#	-	-
Minimum cards deployment	1	Minimally deplo	#	-	-

Chassis calculations

	Linecards slots per chassis				
		#		-	-
Required chassis for capacity	2	#		-	-
Minimum chassis deployment	1	Minimally deplo	#	-	-

Totals

1GE electrical ports cards		#		-	-
Chassis		#		-	-

	Licence	SW utilisation			
Software upgrades required	10	100%		-	-

Layer 3 peering routers units calculation

Number of NGN SIP PoI nodes		#		-	-
Traffic requirements					
Total NGN SIP voice interconnection traffic		NGN SIP Voice	Mbps	-	-

	Capacity interco port	Peering router port ultilisation			
Interconnection facing ports - 10 Mbps, 100 Mbps and 1GE ports	10	40%	#	-	-
Required ports for capacity			#	-	-
Minimum ports deployment			#	-	-

	Capacity 1GigE port	Peering router port ultilisation			
SBC facing ports - 1GE electrical	10,000	40%	#	-	-
Required ports for capacity			#	-	-
Minimum ports deployment			#	-	-

Line cards and chassis calculations	10Mbps electrical ports per line card	100Mbps electrical ports per line card	1GE electrical ports per line card
	10	10	4

Total number of ports required				
10Mbps	#		-	-

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100Mbps			#	-	-
1Gbps			#	-	-
Required ports per node					
10Mbps			#	-	-
100Mbps			#	-	-
1Gbps			#	-	-
Required line cards per node	**Linecards slots per chassis**				
10Mbps	12		#	-	-
100Mbps			#	-	-
1Gbps			#	-	-
Required chassis per node			#	-	-
Totals					
10Mbps electrical ports cards			#	-	-
100Mbps electrical ports cards			#	-	-
1GE electrical ports cards			#	-	-
Chassis			#	-	-

TGW units calculation

Number of NGN ss7 PoI nodes			#	-	-
Traffic requirements					
Total NGN ss7 voice interconnection traffic		NGN ss7 Voice	Mbps	-	-
Total NGN ss7 voice interconnection traffic	95	Bandwidth occu	BHE	-	-
TDM E1 ports calculations					
number of circuit groups			#	-	-
BHE per circuit group			BHE	-	-
E1 per circuit group			#	-	-
total E1s			#	-	-
	1GE ports facing SBC per gateway				
Interco SBC facing ports - 1 GE electrical	1		#	-	-
	E1 ports per Gateway				
Gateways required	63		#	-	-
Required gateway for capacity			#	-	-
Minimum gateway deployment			#	-	-

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Data for chart				
Assuming 5 PoIs		#	-	-
Assuming 13 PoIs		#	-	-

Other elements

Drivers	% users online at the same time			
Voice connections	0%	#	-	2,233,365
Broadband connections (xDSL+fibre)		#	-	-
Number of core nodes		#	-	28
Number of core IP nodes		#	-	-
Approx CDRs per day		#	-	9,753,755
Number of type of network elements		#	-	2
TDM switching	PSTN	boolean	-	1
PDH/SDH	Common	boolean	-	1
CS	PSTN	boolean	-	-
DSLAM	Common	boolean	-	-
MSAN	Common	boolean	-	-
NGN DSLAM	Common	boolean	-	-
IP routing	Common	boolean	-	-
SBC	NGN voice	boolean	-	-
NGN TGW	0	boolean	-	-
CWDM	Common	boolean	-	-
DWDM	Common	boolean	-	-

	BRAS capacity (concurrent subscribers)	BRAS utilisation factor			
BRAS units required on subscriber basis	48,000	40%	#	-	-
DNS			#	-	-

	RADIUS capacity (concurrent subscribers)	RADIUS utilisation factor	% users online at the same time		
Radius server units required	350,000	40%	50%	-	-

	Minimum number of VAS	Capacity, subs incl utilisaton			
VAS/IN	2	800,000.00	#	-	3

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	Minimum number of WBS	Capacity, CDRs per day incl utlisation			
Wholesale billing system	2	###########	#	-	2
Network management system				-	2
NMS: PSTN	PSTN		#	-	1
NMS: NGN Voice	NGN Voice		#	-	-
NMS: Common	Common		#	-	1
Clock system			#	-	28

Core rings

Core rings topology

Core rings infrastructure				
Maritime Fibre cables		#	-	-
Terrestrial Fibre cables		#	-	-
Trench		#	-	-

Transmission needs

This step summarises the transmission needs before taking into account how they are transmitted exactly e.g. SDH rings, WDM rings, direct fibre connections

TDM transmission				
Total TDM Core transmission for voice (BHE)	TDM Core trans	BHE	-	15,840
Number of circuit groups		#	-	528
Assuming full mesh	n*(n-1)	#	-	-
Assuming Telenor's ATM-based partial mesh		#	-	528
TDM Voice Core transmission BHE per circuit group		BHE	-	30
TDM Voice Core transmission E1s per circuit group		#	-	2
TDM Voice Core transmission E1s		#	**-**	**1,056**
Total TDM Core transmission for leased lines services (Mbps)		Mbps	-	53,061
Summary of current TDM/IP transmission				
TDM Core transmission for voice (E1s)		#	-	1,056
TDM Core transmission for leased lines services (Mbps)		Mbps	-	53,061
IP transmission				
Total IP Core transmission for voice, dial-up, xDSL, data transmission services and VOD IPTV (Mb		Mbps	-	-
Total IP Core transmission for linear IPTV		Mbps	-	-

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Allocation of traffic to transmission resources

This step allocates the previous "Transmission needs" to the different transmission resources

TDM transmission

IP transmission

DWDM Core rings

All traffic at that layer is carried on the DWDM Core rings

Dimensioning of transmission resources

This step dimensions the different transmission resources

TDM transmission

ATM rings

Total transmission required (E1s)			#	-	1,056
Number of logical paths between core nodes			#	-	132
Assuming full mesh			#	-	325
Assuming Telenor's ATM-based partial mesh			#	-	132
Traffic requirements per logical path between core nodes (E1s)			#	-	8
	STM4 capacity (in E1s)	**ATM links utilisation**			
Number of STM4 bi-directional links required	252	50%	#	-	53
Number of STM4 ATM cards required on MGWs	2	Cards per link	#	-	106

SDH core rings

Total transmission required (E1s) for all rings			#	-	25,909
SDH capability required for core rings			transmission level	-	STM-64
Number of rings			#	-	7
Number of ADMs			#	-	182
Total number of SDH ADM			#	**-**	**182**
E1			#	-	-
E3			#	-	-
STM-0			#	-	-
STM-1			#	-	-
STM-4			#	-	-
STM-16			#	-	-
STM-64			#	-	182

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SDH Fibre regenerator			#	-	-
IP transmission					
DWDM Core rings					
Number of Core Nodes			#	-	26
Number of IP Core Nodes			#	-	-
Number of core router chassis			#	-	-
Number of core router chassis per IP core node			#	-	-
Number of logical paths between core routers		n*(n-1)	#	-	-
between collocated core routers			#	-	-
between distant core routers			#	-	-
Number of logical paths per core router			#	-	-
between collocated core routers			#	-	-
between distant core routers			#	-	-
Traffic requirements between core routers			Mbps	-	-
between collocated core routers			Mbps	-	-
between distant core routers			Mbps	-	-
Number of 10GE links per logical path	Equal to wavelengths per path				
between collocated core routers	1	Minimum deployn	#	-	-
between distant core routers	1	Minimum deployn	#	-	-
Number of distant physical paths between core routers nodes		n*(n-1)	#	-	-
Number of distant logical paths per distant physical path			#	-	-
Wavelengths required (all distant paths)			#	-	-
Required terminal multiplexers at core nodes	40	wavelengths per s	#	-	-
	2	Systems per link			
DWDM amplifiers	80	km distance befor	#	-	-

Transmission assets used by other operators

Transmission assets used by other operators (represented by the pure, theoretical operator profiles) are assumed to be based on leasing dark fibre or Ethernet l

Access transmission

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Transmission needs

This step summarises the transmission needs before taking into account how they are transmitted exactly e.g. Ethernet leased lines or dark fibre

Transmission between DSLAMs, MSANs, layer 2 switches and ER

Number of AN served			
Access Node (< 500 buildings)	#	-	3,091
Access Node (< 1000 buildings)	#	-	456
Access Node (< 2000 buildings)	#	-	264
Access Node (< 5000 buildings)	#	-	128
Access Node (< 15000 buildings)	#	-	9

Traffic requirements towards ER by type of AN			
Access Node (< 500 buildings)	Mbps	-	-
Access Node (< 1000 buildings)	Mbps	-	-
Access Node (< 2000 buildings)	Mbps	-	-
Access Node (< 5000 buildings)	Mbps	-	-
Access Node (< 15000 buildings)	Mbps	-	-

Transmission between ER and DR

Traffic requirements towards DR per ER	Mbps	-	-

Allocation of traffic to transmission resources

This step allocates the previous "Transmission needs" to the different transmission resources

All the Access transmission is assumed to be carried on Ethernet leased lines or dark fibre

Transmission between DSLAMs, MSANs, layer 2 switches and ER

Transmission level towards ER by type of AN			
Access Node (< 500 buildings)	transmission level (Mbps)	-	-
Access Node (< 1000 buildings)	transmission level (Mbps)	-	-
Access Node (< 2000 buildings)	transmission level (Mbps)	-	-
Access Node (< 5000 buildings)	transmission level (Mbps)	-	-
Access Node (< 15000 buildings)	transmission level (Mbps)	-	-

Transmission between ER and DR	transmission level (Mbps)	-	-

Dimensioning of transmission resources between DSLAMs, MSANs, layer 2 switches and ER

Transmission on Ethernet leased lines

Ethernet leased lines capacity required	**Threshold**			
Access Node (< 500 buildings)	-	transmission level (Mbps)	-	-
Access Node (< 1000 buildings)	-	transmission level (Mbps)	-	-
Access Node (< 2000 buildings)	-	transmission level (Mbps)	-	-
Access Node (< 5000 buildings)	-	transmission level (Mbps)	-	-
Access Node (< 15000 buildings)	-	transmission level (Mbps)	-	-

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	Ethernet leased lines required in 0 Mbps equivalents	**Ethernet**			
1	Access Node (< 500 buildings)	-	#	-	-
2	Access Node (< 1000 buildings)		#	-	-
3	Access Node (< 2000 buildings)		#	-	-
4	Access Node (< 5000 buildings)		#	-	-
5	Access Node (< 15000 buildings)		#	-	-
	Ethernet leased line assets for transmission between DSLAMs, MSANs, layer 2 switches and ER			-	-
	Transmission on dark fibre				
	Dark fibre connections required				
	Access Node (< 500 buildings)			-	-
	Access Node (< 1000 buildings)			-	-
	Access Node (< 2000 buildings)			-	-
	Access Node (< 5000 buildings)			-	-
	Access Node (< 15000 buildings)			-	-
	Leased dark fibre assets for transmission between DSLAMs, MSANs, layer 2 switches and ER			-	-

Dimensioning of transmission resources between ER and DR

		Resources used			
		own fibre			
	Transmission on Ethernet leased lines				
	Ethernet leased lines capacity required	Ethernet leased lines transmission level (Mbps)		-	-
	Ethernet leased lines required in 0 Mbps equivalents	**Ethernet**	#	-	-
		-			
	Ethernet leased line assets for transmission between ER and DR			-	-
	Transmission on dark fibre	leased dark fibre		-	-
	Leased dark fibre assets for transmission between ER and DR			-	-
	Ethernet amplifiers	22		-	-

Distribution transmission

Transmission needs

This step summarises the transmission needs

	Transmission between DR and CR			
	Traffic requirements towards CR per DR	Mbps	-	-

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Allocation of traffic to transmission resources and dimensioning of transmission resources

Distribution rings using leased dark fibre

The calculations assume distribution routers in the network are able to interface directly with dark fibre, without the need for DWDM or CWDM equipment

Ethernet amplifiers	69	-	-
Leased dark fibre assets for distribution transmission		-	-

Core transmission

Transmission needs

This step summarises the transmission needs

Transmission between CRs

Traffic requirements between CRs per CR	Mbps	-	-

Allocation of traffic to transmission resources and dimensioning of transmission resources

Core rings using leased dark fibre

The calculations assume core routers in the network are able to interface directly with dark fibre, without the need for DWDM or CWDM equipment

Ethernet amplifiers	not applicable	-	-
core network with 2 CRs	-	-	-
core network with 28 CRs	19	-	-
Leased dark fibre assets for core transmission		-	-

Accomodation calculations

Access node site usage calculation

Accomodation required	Floor space	Proportion of a rack			
Total RSX racks required	10	1	10	-	4,513
Total DSLAM racks required	5	1	5	-	-
Total MSAN racks required	5	1	5	-	-
Total NGN DSLAM racks required	5	1	5	-	-
Other (leased line)	5	1.00	5	-	3,948

Accomodation split between PSTN/ Other		
PSTN	-	45,130
Other	-	19,740
Proportion of accomodation to PSTN	100%	70%

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Proportion of accomodation to other				-%	30%

Distribution node site usage calculation

	Floor space	Proportion of a rack			
Accomodation required					
Local switch	20	1	20	-	163
IP equipment	20	1	20	-	-
Other (leased line)	20	1	20	-	163
Accomodation split between PSTN/ Other					
PSTN				-	3,260
Other				-	3,260
Proportion of accomodation to PSTN				100%	50%
Proportion of accomodation to other				-%	50%

Core node site usage calculation

	Floor space	Proportion of a rack			
Accomodation required					
MGW	10	1	10	-	-
IP equipment	20	1	20	-	-
Other (leased line)	10	1	10	-	28
Accomodation split between PSTN/ Other					
PSTN				-	-
Other				-	280
Proportion of accomodation to PSTN				100%	-%
Proportion of accomodation to other				-%	100%

Power calculations

Access node site usage calculation

	Power requirem	Accommodation requirements			
	KWh	m2			
AN-TDM: RSX processor/rack	32,000	1.39		-	4,513
AN-IP: DSLAM processor/rack	17,608	1.50		-	-
AN-IP: MSAN processor/rack	5,869	1.50		-	-
NGN DSLAM processor/rack	17,608	1.50		-	-
AN-IP: layer 2 switch - chassis	1,752	0.1875		-	-
AN-IP: layer 3 edge router - chassis	12,264	0.75		-	-
Other (leased line)	21,333	0.93		-	3,948
Accom split between PSTN/ Other					
PSTN				-	6,282
Other			With termination	-	3,664
Proportion of power to PSTN			2	100%	63%
current				100%	63%
Pasted value - for use in pure LRIC calculation				100%	63%
Proportion of power to other				-%	37%
Power split between PSTN/ Other					
PSTN				-	144,416,000
Other				-	84,224,000
Proportion of power to PSTN				100%	63%
current				100%	63%
Pasted value - for use in pure LRIC calculation				100%	63%

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Proportion of power to other			-%	37%
Distribution node site usage calculation				
DN-TDM: LS chassis/processor	85,000	3.28	-	163
DN-IP: distribution SBC - chassis	12,264	0.75	-	-
DN-IP: layer 3 distribution router - chassis	12,264	0.75	-	-
Other (leased line)	56,667	2.19	-	163
Accom split between PSTN/ Other				
PSTN			-	535
Other			-	356
Proportion of power to PSTN			100%	60%
current			100%	60%
Pasted value - for use in pure LRIC calculation			100%	60%
Proportion of power to other			-%	40%
Power split between PSTN/ Other				
PSTN			-	13,855,000
Other			-	9,236,667
Proportion of power to PSTN			100%	60%
current			100%	60%
Pasted value - for use in pure LRIC calculation			100%	60%
Proportion of power to other			-%	40%
Core node site usage calculation				
CN-TDM: Call Server processor (softswitch)	100,000	7.7	-	-
CN-TDM: Media Gateway switchblock	110,000	4.82	-	-
CN-IP: interco SBC - chassis	12,264	0.75	-	-
CN-IP: Call Server processor (softswitch)	12,264	1.5	-	-
CN-TDM: interconnect trunk gateway (TGW)	12,264	7.5	-	-
CN-IP: layer 3 peering router - chassis	12,264	1.5	-	-
CN-IP: layer 2 services switch - chassis	1,752	0.1875	-	-
PE router	12,264	1.5	-	-
CN-IP: layer 3 core router - chassis	12,264	1.5	-	-
Other (leased line)	73,333.33	3.21	-	28
Accom split between PSTN/ Other				
PSTN			-	-
Other			-	90
Proportion of power to PSTN			100%	-%
current			100%	-%
Pasted value - for use in pure LRIC calculation			100%	-%
Proportion of power to other			-%	100%
Power split between PSTN/ Other				
PSTN			-	-
Other			-	2,053,333
Proportion of power to PSTN			100%	-%
current			100%	-%
Pasted value - for use in pure LRIC calculation			100%	-%
Proportion of power to other			-%	100%

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TOTAL power requirements				-	253,785,000
AN				-	228,640,000
PSTN				-	144,416,000
Other				-	84,224,000
DN				-	23,091,667
PSTN				-	13,855,000
Other				-	9,236,667
CN				-	2,053,333
PSTN				-	-
Other				-	2,053,333
OPEX				-	11,308,460
				-	10,188,018
AN-Common: Air conditioning unit - PSTN				-	6,435,063
AN-Common: Air conditioning unit - Other				-	3,752,955
				-	1,028,946
DN-Common: Air conditioning unit - PSTN				-	617,368
DN-Common: Air conditioning unit - Other				-	411,579
				-	91,495
CN-Common: Air conditioning unit - PSTN				-	-
CN-Common: Air conditioning unit - Other				-	91,495
				-	59,369,413
				-	53,487,096
AN-Common: UPS and Generator - PSTN				-	33,784,082
AN-Common: UPS and Generator - Other				-	19,703,014
				-	5,401,969
DN-Common: UPS and Generator - PSTN				-	3,241,181
DN-Common: UPS and Generator - Other				-	2,160,788
				-	480,348
CN-Common: UPS and Generator - PSTN				-	-
CN-Common: UPS and Generator - Other				-	480,348
OPEX/ unit	*aircon.input.ope*	0.044559	0.044559		0.04
	aircon.input.ope	0.022534	0.044559		0.04
AN-Common: Air conditioning unit - PSTN					0.04
AN-Common: Air conditioning unit - Other					0.04
	aircon.input.ope	0.181117	0.044559		0.04
DN-Common: Air conditioning unit - PSTN					0.04
DN-Common: Air conditioning unit - Other					0.04
	aircon.input.ope	0.519358	0.044559		0.04
CN-Common: Air conditioning unit - PSTN					-
CN-Common: Air conditioning unit - Other					0.04
	UPS.Gen.input.	0.233936	0.233936		0.23
	UPS.Gen.input.	0.118303	0.233936		0.23

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	AN-Common: UPS and Generator - PSTN					0.23
	AN-Common: UPS and Generator - Other					0.23
		UPS.Gen.input.	0.950862	0.233936		0.23
	DN-Common: UPS and Generator - PSTN					0.23
	DN-Common: UPS and Generator - Other					0.23
		UPS.Gen.input.	2.726632	0.233936		0.23
	CN-Common: UPS and Generator - PSTN					-
	CN-Common: UPS and Generator - Other					0.23
Recalc OPEX	sum				-	10,400,845
	AN: aircon				-	5,152,144
	DN: aircon				-	4,182,285
	CN: aircon				-	1,066,416
	total				-	11,308,460
	% dif					-%
	sum				-	54,604,436
	AN: ups				-	27,048,757
	DN: ups				-	21,956,995
	CN: ups				-	5,598,684
	total				-	59,369,413
	% dif					-%

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3	4	5	6	7	8	9	10	11	12	13
1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003

1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
188,315	193,579	198,430	202,567	204,242	204,302	225,778	247,723	243,126	219,631	205,570
177,600	182,625	187,406	191,542	193,320	193,585	214,922	237,147	233,876	211,956	199,075
16,325	16,774	17,170	17,501	17,622	17,602	19,201	21,153	22,014	21,686	22,387
188,315	193,579	198,430	202,567	204,242	204,302	225,778	247,723	243,126	219,631	205,570
182,957	188,102	192,918	197,054	198,781	198,944	220,350	242,435	238,501	215,794	202,322
111,953	115,768	121,065	126,446	130,108	133,234	152,848	180,638	190,025	180,672	178,320
3,449	3,642	4,008	4,331	4,529	4,675	6,292	6,375	7,238	6,495	6,247
13,657	15,363	20,384	26,350	31,652	37,679	52,371	81,823	102,146	106,016	112,791
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	0	3	30	4,886
-	-	-	-	-	-	-	0	3	30	4,745
-	-	-	-	-	-	-	-	-	-	1,629
-	-	-	-	-	-	-	0	3	30	4,866
-	-	-	-	-	-	-	0	3	30	4,820
-	-	-	-	-	-	-	0	3	30	4,050
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	4,741
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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CONFIDENTIAL © Analysys Mason

1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
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2,428,243	2,503,396	2,590,752	2,672,358	2,717,836	2,743,686	3,094,715	3,453,738	3,444,809	3,152,300	2,984,327
2,360,330	2,433,966	2,520,878	2,602,479	2,648,610	2,675,760	3,025,908	3,386,706	3,386,184	3,103,654	2,943,160
1,465,608	1,523,991	1,622,338	1,726,276	1,803,013	1,874,938	2,203,279	2,648,022	2,829,030	2,723,597	2,712,518
42,071	43,220	44,214	45,036	45,322	45,243	53,567	49,560	52,092	44,561	40,425
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1,363,329	1,417,590	1,508,998	1,605,788	1,677,476	1,745,026	2,054,564	2,461,601	2,618,114	2,494,072	2,456,445
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4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
3,948	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**
3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
201	206	210	212	208	196	184	172	157	145	139
903	927	946	956	935	881	828	775	708	652	625
1,993	2,047	2,089	2,109	2,063	1,944	1,828	1,710	1,563	1,439	1,379
4,927	5,059	5,162	5,214	5,100	4,806	4,517	4,226	3,863	3,558	3,407
12,507	12,843	13,105	13,235	12,947	12,201	11,467	10,729	9,806	9,032	8,650
5	6	6	6	6	5	5	5	4	4	4
21	21	22	22	22	20	19	18	17	15	15
45	46	47	47	46	44	41	38	35	33	31
109	112	114	115	113	106	100	94	86	79	76
275	283	288	291	285	269	252	236	216	199	191
53,338	57,149	58,170	58,325	57,751	52,180	50,011	47,851	42,308	39,819	38,835
-	0	1	2	8	20	38	58	70	74	74
-	0	3	10	37	88	170	263	316	332	331
-	1	6	23	81	195	375	580	698	732	731
-	2	15	57	201	482	927	1,434	1,726	1,810	1,807
-	6	37	145	510	1,224	2,354	3,641	4,381	4,594	4,588
-	1	1	1	1	2	3	4	4	4	4
-	1	1	1	3	5	8	13	15	16	16

CONFIDENTIAL © Analysys Mason

-	1	1	2	5	10	17	26	32	33	33
-	1	2	4	10	22	42	64	77	80	80
-	1	3	7	23	55	104	161	193	203	202
-	3,948	4,094	4,650	7,266	14,413	23,721	34,797	39,245	40,439	40,430
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-	0	1	2	5	7	11	14	17	19	21
-	0	2	6	12	18	26	35	41	47	51
-	1	4	14	30	46	67	89	105	120	130
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-	1	1	1	2	2	3	3	4	4	4
-	1	1	2	3	4	5	7	8	9	10
-	401	401	410	547	556	957	975	1,112	1,121	1,130
5	7	7	7	7	7	8	9	8	8	8
21	22	23	23	25	25	27	31	32	31	31
45	48	49	50	52	55	60	66	69	68	66
109	114	117	120	125	130	145	161	167	163	160
275	285	292	300	311	328	361	404	417	411	403
1	1	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00
2	2	2.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
4	4	4.00	4.00	4.00	4.00	5.00	5.00	5.00	5.00	5.00
8	8	8.00	8.00	9.00	9.00	10.00	11.00	11.00	11.00	11.00
18	19	19.00	20.00	20.00	21.00	23.00	26.00	27.00	26.00	26.00

CONFIDENTIAL © Analysys Mason

1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	4	4	4	4	4
6	7	7	7	7	7	8	9	9	9	9
4,513	**4,522**	**4,522**	**4,522**	**4,522**	**4,522**	**4,659**	**4,668**	**4,668**	**4,668**	**4,668**
3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
528	528	528	528	528	528	528	528	528	528	528
384	384	384	384	384	384	512	512	512	512	512
54	63	63	63	63	63	72	81	81	81	81
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-	-	-	-	-	-	-	-	23	36	67
-	-	-	-	-	-	-	1	14	64	127
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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

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-	-	-	-	-	-	-	138	163	163	163
-	-	-	-	-	-	-	117	117	117	117
-	-	-	-	-	-	-	9	9	9	9
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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

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-	-	-	-	-	-	-	-	88	88	88
-	-	-	-	-	-	-	138	163	163	163
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-	-	-	-	-	-	-	0	3	30	4,886
-	-	-	-	-	-	-	1Gbps	1Gbps	1Gbps	1Gbps
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-	-	-	-	-	-	-	303	630	946	1,046
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-	-	-	-	-	-	-	-	20,802	20,802	20,802
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
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-	-	-	-	-	-	-	-	6,930	6,930	6,930
-	-	-	-	-	-	-	-	3,546	3,546	3,546
188,315	**193,579**	**198,430**	**202,567**	**204,242**	**204,302**	**225,778**	**247,723**	**243,126**	**219,631**	**205,570**
50,765	52,184	53,492	54,607	55,059	55,075	60,864	66,780	65,541	59,207	55,417
33,692	34,634	35,502	36,242	36,541	36,552	40,394	44,321	43,498	39,295	36,779
43,054	44,258	45,367	46,313	46,696	46,710	51,620	56,637	55,586	50,214	46,999
51,594	53,036	54,365	55,499	55,958	55,974	61,858	67,870	66,611	60,174	56,321
9,210	9,467	9,704	9,907	9,988	9,991	11,042	12,115	11,890	10,741	10,053
4,513	**4,522**	**4,522**	**4,522**	**4,522**	**4,522**	**4,659**	**4,668**	**4,668**	**4,668**	**4,668**

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3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
528	528	528	528	528	528	528	528	528	528	528
384	384	384	384	384	384	512	512	512	512	512
54	63	63	63	63	63	72	81	81	81	81
16	17	17	18	18	18	20	22	21	19	18
74	76	78	79	80	80	89	97	95	86	81
82	84	86	88	88	88	98	107	105	95	89
134	138	142	145	146	146	121	133	130	118	110
171	150	154	157	159	159	153	150	147	133	124
2	2	2	2	2	2	2	2	2	2	2
6	6	6	6	6	6	6	7	7	6	6
6	6	6	6	6	6	7	7	7	7	6
9	9	9	10	10	10	8	9	9	8	8
11	10	10	10	10	10	10	10	10	9	8
16,136	**16,172**	**16,172**	**16,556**	**16,556**	**16,556**	**17,430**	**18,488**	**18,488**	**17,439**	**16,830**
6,182	6,182	6,182	6,182	6,182	6,182	6,182	6,182	6,182	6,182	6,182
2,736	2,736	2,736	2,736	2,736	2,736	2,736	3,192	3,192	2,736	2,736
3,168	3,168	3,168	3,168	3,168	3,168	3,696	3,696	3,696	3,696	3,168
3,456	3,456	3,456	3,840	3,840	3,840	4,096	4,608	4,608	4,096	4,096
594	630	630	630	630	630	720	810	810	729	648
10,481	11,662	12,976	14,439	16,066	17,877	19,213	20,624	22,108	25,588	23,641
3,582	3,986	4,435	4,935	5,491	6,110	6,566	7,048	7,556	8,745	8,080
1,843	2,050	2,281	2,538	2,825	3,143	3,378	3,626	3,887	4,499	4,156
2,432	2,706	3,011	3,351	3,728	4,148	4,458	4,786	5,130	5,938	5,486
2,313	2,574	2,864	3,187	3,546	3,946	4,241	4,552	4,880	5,648	5,218
311	346	385	428	476	530	570	612	656	759	701
75,353	77,654	80,024	82,468	84,985	87,580	82,712	77,466	83,289	70,043	61,735
30,692	31,629	32,594	33,589	34,615	35,672	33,689	31,552	33,924	28,529	25,145
10,683	11,009	11,345	11,691	12,048	12,416	11,726	10,982	11,808	9,930	8,752
12,556	12,939	13,334	13,741	14,161	14,593	13,782	12,908	13,878	11,671	10,287
17,773	18,315	18,875	19,451	20,045	20,657	19,509	18,271	19,645	16,520	14,561
3,650	3,762	3,876	3,995	4,117	4,242	4,007	3,752	4,035	3,393	2,990
16,136	16,172	16,172	16,556	16,556	16,556	17,430	18,488	18,488	17,439	16,830
10,481	11,662	12,976	14,439	16,066	17,877	19,213	20,624	22,108	25,588	23,641
75,353	77,654	80,024	82,468	84,985	87,580	82,712	77,466	83,289	70,043	61,735

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8,860	**8,860**	**8,860**	**8,884**	**8,884**	**8,884**	**9,065**	**9,438**	**9,438**	**9,065**	**8,901**
5,609	5,609	5,609	5,609	5,609	5,609	5,609	5,609	5,609	5,609	5,609
2,046	2,046	2,046	2,046	2,046	2,046	2,046	2,387	2,387	2,046	2,046
985	985	985	985	985	985	1,149	1,149	1,149	1,149	985
220	220	220	245	245	245	261	294	294	261	261
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5,613	**6,246**	**6,950**	**7,734**	**8,605**	**9,575**	**10,291**	**11,046**	**11,841**	**13,705**	**12,662**
3,250	3,616	4,024	4,477	4,982	5,543	5,958	6,395	6,855	7,934	7,330
1,396	1,553	1,728	1,923	2,139	2,380	2,558	2,746	2,944	3,407	3,148
859	956	1,063	1,183	1,316	1,465	1,574	1,690	1,812	2,097	1,937
109	122	135	151	168	186	200	215	231	267	247
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36,301	**37,409**	**38,551**	**39,728**	**40,941**	**42,191**	**39,846**	**37,318**	**40,124**	**33,742**	**29,740**
26,019	26,813	27,632	28,476	29,345	30,241	28,560	26,749	28,759	24,185	21,317
6,641	6,844	7,053	7,268	7,490	7,718	7,289	6,827	7,340	6,173	5,441
3,077	3,171	3,268	3,367	3,470	3,576	3,377	3,163	3,401	2,860	2,521
564	581	599	617	636	655	619	580	623	524	462
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19,900.69	20,467.41	21,066.13	21,699.48	22,370.36	23,081.97	22,463.57	21,792.52	22,999.13	21,292.63	19,597.20
5,969.71	6,145.51	6,332.99	6,533.22	6,747.37	6,976.76	6,854.17	7,061.03	7,408.14	6,723.44	6,239.36
2,906.32	2,999.45	3,099.30	3,206.53	3,321.84	3,446.02	3,566.54	3,518.36	3,693.86	3,568.99	3,161.36
548.99	563.41	578.77	619.62	637.11	655.81	661.16	681.81	710.65	647.34	607.08
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12,041	**12,041**	**12,041**	**12,159**	**12,159**	**12,159**	**12,616**	**13,202**	**13,202**	**12,616**	**12,238**
6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138
2,569	2,569	2,569	2,569	2,569	2,569	2,569	2,997	2,997	2,569	2,569
2,270	2,270	2,270	2,270	2,270	2,270	2,648	2,648	2,648	2,648	2,270
1,064	1,064	1,064	1,182	1,182	1,182	1,261	1,418	1,418	1,261	1,261
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7,429	**8,266**	**9,198**	**10,235**	**11,388**	**12,672**	**13,619**	**14,619**	**15,671**	**18,138**	**16,758**
3,512	3,908	4,349	4,839	5,384	5,991	6,439	6,912	7,409	8,575	7,923
1,667	1,855	2,065	2,297	2,556	2,844	3,057	3,281	3,517	4,071	3,761
1,656	1,842	2,050	2,281	2,538	2,824	3,035	3,258	3,493	4,042	3,735
593	660	735	818	910	1,012	1,088	1,168	1,252	1,449	1,339
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47,652	**49,107**	**50,606**	**52,151**	**53,744**	**55,384**	**52,306**	**48,988**	**52,671**	**44,294**	**39,041**
28,465	29,334	30,230	31,153	32,104	33,084	31,245	29,263	31,463	26,459	23,321
8,609	8,872	9,143	9,422	9,710	10,006	9,450	8,851	9,516	8,003	7,053
6,822	7,031	7,245	7,467	7,695	7,930	7,489	7,014	7,541	6,342	5,590
3,755	3,870	3,988	4,110	4,235	4,365	4,122	3,861	4,151	3,491	3,077
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12,041	**12,041**	**12,041**	**12,159**	**12,159**	**12,159**	**12,616**	**13,202**	**13,202**	**12,616**	**12,238**
137	137	137	138	138	138	144	150	150	144	139
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7,429	**8,266**	**9,198**	**10,235**	**11,388**	**12,672**	**13,619**	**14,619**	**15,671**	**18,138**	**16,758**
90	100	111	124	138	153	165	177	190	219	203
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11,655	**12,011**	**12,378**	**12,756**	**13,145**	**13,546**	**12,793**	**11,982**	**12,883**	**10,834**	**9,549**
51	52	54	56	57	59	56	52	56	47	42
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21,396	**21,979**	**22,623**	**23,426**	**24,181**	**25,000**	**25,551**	**26,226**	**27,183**	**26,798**	**25,122**
206	212	218	226	234	242	252	263	271	274	259
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6.8	7.0	7.2	7.5	7.7	7.9	7.7	7.5	7.9	7.3	6.7
16.2	16.7	17.2	17.8	18.3	19.0	18.6	19.2	20.1	18.3	17.0
28.8	29.7	30.7	31.7	32.9	34.1	35.3	34.8	36.6	35.3	31.3
49.9	51.2	52.6	56.3	57.9	59.6	60.1	62.0	64.6	58.8	55.2
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E3	E3	E3	E3	E3	E3	E3	E3	E3	E3	E3
E3	E3	E3	E3	E3	E3	E3	E3	E3	E3	E3
STM-0	STM-0	STM-0	STM-0	STM-0	STM-0	STM-0	STM-0	STM-0	STM-0	STM-0
STM-1	STM-1	STM-1	STM-1	STM-1	STM-1	STM-1	STM-1	STM-1	STM-1	STM-1
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1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	2	1	1
-	-	-	-	-	-	-	-	-	-	-
3,859	**3,859**	**3,859**	**3,859**	**3,859**	**3,859**	**3,859**	**3,859**	**3,870**	**3,859**	**3,859**
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3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646
202	202	202	202	202	202	202	202	202	202	202
11	11	11	11	11	11	11	11	22	11	11
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
7,718	**7,718**	**7,718**	**7,718**	**7,718**	**7,718**	**7,718**	**7,718**	**7,740**	**7,718**	**7,718**
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7,292	7,292	7,292	7,292	7,292	7,292	7,292	7,292	7,292	7,292	7,292
404	404	404	404	404	404	404	404	404	404	404
22	22	22	22	22	22	22	22	44	22	22
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2	2	2	2	2	2	2	2	2	2	2
21,396	**21,979**	**22,623**	**23,426**	**24,181**	**25,000**	**25,551**	**26,226**	**27,183**	**26,798**	**25,122**
206	212	218	226	234	242	252	263	271	274	259
-	-	-	-	-	-	-	-	-	-	-
STM-4	STM-4	STM-4	STM-4	STM-4	STM-4	STM-4	STM-4	STM-4	STM-4	STM-4
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772	**788**	**776**	**785**	**791**	**809**	**807**	**819**	**813**	**815**	**819**
6	6	6	6	6	6	6	12	12	12	12
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772	**788**	**776**	**785**	**791**	**809**	**807**	**819**	**813**	**815**	**819**
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28	28	28	18	18	18	18	12	12	12	12
728	744	720	722	728	746	735	745	730	744	765
16	16	28	45	45	45	54	62	71	59	42
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163	163	163	163	163	163	163	163	163	163	163
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135	135	135	135	135	135	135	135	135	135	135

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2,360,330	2,433,966	2,520,878	2,602,479	2,648,610	2,675,760	3,025,908	3,386,706	3,386,184	3,103,654	2,943,160
4	4	4	5	5	5	5	6	6	5	5
182,957	188,102	192,918	197,054	198,781	198,944	220,350	242,435	238,501	215,794	202,322
153	157	161	165	166	166	184	203	199	180	169
163	163	163	165	166	166	184	203	199	180	169
163	163	163	165	166	166	184	203	199	180	169
163	163	163	165	166	166	184	203	199	180	169
163	163	163	165	166	166	184	203	199	180	169
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-	-	-	-	-	-	-	12	44	68	115
-	-	-	-	-	-	-	24	68	107	215
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-	-	-	-	-	-	-	14	52	76	125
-	-	-	-	-	-	-	28	80	120	234
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-	-	-	-	-	-	-	-	10,372	10,372	10,372
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177,600	182,625	187,406	191,542	193,320	193,585	214,922	237,147	233,876	211,956	199,075
652	652	652	660	664	664	736	812	796	720	676
272	280	287	290	291	292	292	292	294	294	294
17	17	17	18	18	18	18	18	18	18	18
11,084	**11,084**	**11,084**	**11,880**	**11,952**	**11,952**	**13,248**	**14,616**	**14,328**	**12,960**	**12,168**
80,568	83,836	87,295	90,961	94,852	98,987	95,672	92,072	98,931	89,764	80,139
11,084	11,084	11,084	11,880	11,952	11,952	13,248	14,616	14,328	12,960	12,168
80,568	83,836	87,295	90,961	94,852	98,987	95,672	92,072	98,931	89,764	80,139
39,340	40,936	42,625	44,415	46,315	48,334	46,715	44,957	48,306	43,830	39,130
-	-	-	-	-	-	-	0	3	30	4,745
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10,747	**10,747**	**10,747**	**11,519**	**11,589**	**11,589**	**12,845**	**14,172**	**13,892**	**12,566**	**11,798**
430.89	430.89	430.89	461.83	464.63	464.63	515.01	568.19	557.00	503.82	473.03
776.58	776.58	776.58	832.35	837.39	837.39	928.19	1,024.04	1,003.86	908.02	852.53
76,793	**79,908**	**83,205**	**86,699**	**90,408**	**94,349**	**91,190**	**87,758**	**94,296**	**85,558**	**76,384**
3,035.90	3,159.05	3,289.39	3,427.53	3,574.14	3,729.96	3,605.05	3,469.36	3,727.84	3,382.41	3,019.71
4,007.38	4,169.94	4,341.99	4,524.34	4,717.87	4,923.54	4,758.67	4,579.56	4,920.75	4,464.78	3,986.02

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48,258	**49,775**	**51,388**	**53,867**	**55,745**	**57,669**	**57,384**	**57,036**	**59,948**	**54,356**	**49,108**
1,914.00	1,974.00	2,038.00	2,136.00	2,210.00	2,286.00	2,276.00	2,263.00	2,378.00	2,156.00	1,948.00
2,734.00	2,813.00	2,897.00	3,042.00	3,142.00	3,242.00	3,252.00	3,261.00	3,407.00	3,089.00	2,799.00

48,258	**49,775**	**51,388**	**53,867**	**55,745**	**57,669**	**57,384**	**57,036**	**59,948**	**54,356**	**49,108**
1,914.00	1,974.00	2,038.00	2,136.00	2,210.00	2,286.00	2,276.00	2,263.00	2,378.00	2,156.00	1,948.00
2,734.00	2,813.00	2,897.00	3,042.00	3,142.00	3,242.00	3,252.00	3,261.00	3,407.00	3,089.00	2,799.00

STM-16 STM-64	STM-16 STM-64	STM-64 STM-64	STM-64 STM-64	STM-64 STM-64	STM-64 STM-64	STM-64 STM-64	STM-64 STM-64	STM-64 STM-64	STM-64 STM-64	STM-16 STM-64
501	**501**	**493**	**467**	**451**	**451**	**451**	**451**	**440**	**460**	**501**
34	34	17	17	17	17	17	17	17	17	34
18	18	18	18	18	18	18	18	18	18	18
501	**501**	**493**	**467**	**451**	**451**	**451**	**451**	**440**	**460**	**501**
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12	12	12	12	12	12	12	12	12	12	12
89	89	98	98	84	84	84	84	62	84	89
202	202	168	107	96	96	96	96	107	114	202
198	198	215	250	259	259	259	259	259	250	198
54	54	54	54	54	54	54	54	54	54	54
-	-	-	-	-	-	-	-	-	-	-
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1,363,329	1,417,590	1,508,998	1,605,788	1,677,476	1,745,026	2,054,564	2,461,601	2,618,114	2,494,072	2,456,445
2	2	2	2	2	2	3	3	3	3	3
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28	28	28	28	28	28	28	28	28	28	28
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2,301,661	2,364,570	2,418,944	2,463,879	2,479,569	2,475,227	2,543,179	2,622,134	2,560,295	2,434,698	2,329,314
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2,301,661	2,363,439	2,411,657	2,435,728	2,382,598	2,245,270	2,103,211	1,943,027	1,743,469	1,577,038	1,471,699
-	1,131	7,288	28,151	96,971	229,957	439,969	679,107	816,826	857,660	857,614
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111,953	115,768	121,065	126,446	130,108	133,234	152,848	180,638	190,025	180,672	178,320

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3	3	4	4	4	4	4	5	5	5	5
-	-	-	-	-	-	-	-	-	-	28
42,071	43,220	44,214	45,036	45,322	45,243	53,567	49,560	52,092	44,561	40,425
1	1	1	1	1	1	1	1	1	1	1
3,449	3,642	4,008	4,331	4,529	4,675	6,292	6,375	7,238	6,495	6,247
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
13,657	15,363	20,384	26,350	31,652	37,679	52,371	81,823	102,146	106,016	112,791
3,449	3,642	4,008	4,331	4,529	4,675	6,292	6,375	7,238	6,495	6,247
22%	25%	31%	36%	39%	41%	40%	36%	37%	38%	39%
10,208	11,722	16,376	22,019	27,122	33,004	46,079	75,448	94,907	99,521	106,544
2,272	2,921	5,132	7,900	10,467	13,471	18,490	27,296	34,728	38,156	41,770
-	-	-	-	-	-	-	-	-	-	640
-	-	-	-	-	-	-	-	-	-	65
-	-	-	-	-	-	-	-	-	-	5

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-	-	-	-	-	-	-	-	-	-	3,200
7,937	8,800	11,245	14,118	16,656	19,533	27,589	48,152	60,179	61,365	64,774
-	-	-	-	-	-	-	-	-	-	640
-	-	-	-	-	-	-	-	-	-	101
-	-	-	-	-	-	-	-	-	-	7
-	-	-	-	-	-	-	-	-	-	4,480
3,449	3,642	4,008	4,331	4,529	4,675	6,292	6,375	7,238	6,495	6,247
767	908	1,256	1,554	1,748	1,908	2,525	2,306	2,649	2,490	2,449
80	80	80	80	80	80	80	80	80	80	80
10	11	16	19	22	24	32	29	33	31	31
2	2	2	2	2	2	3	3	3	3	3
160	160	160	160	160	160	240	240	240	240	240
2,681	2,734	2,752	2,777	2,781	2,767	3,767	4,069	4,590	4,005	3,798
80	80	80	80	80	80	80	80	80	80	80
34	34	34	35	35	35	47	51	57	50	47
3	3	3	3	3	3	4	4	5	4	4
240	240	240	240	240	240	320	320	400	320	320
400	400	400	400	400	400	560	560	640	560	8,240
-	-	-	-	-	-	-	1	2	2	2
-	44	123	259	473	925	2,119	3,243	3,825	3,613	3,354
-	44	123	259	473	925	2,119	3,243	3,822	3,583	3,209
-	-	-	-	-	-	-	0	2	26	84
-	-	-	-	-	-	-	-	-	-	42
-	-	-	-	-	-	-	-	0	0	0
-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	0	1	5	13
-	-	-	-	-	-	-	-	-	-	6
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	3,243	1,913	1,806	1,677

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-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	2	2	2
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	2	2	2
-	-	-	-	-	-	-	1	2	2	3
-	-	-	-	-	-	-	-	-	-	1,629
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	14	26	38	50

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-	-	-	-	-	-	-	-	2	2	6
-	-	-	-	-	-	-	14	28	40	56
-	-	-	-	-	-	-	14	14	20	19
-	-	-	-	-	-	-	4	4	5	5
-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	4	8	10	15
-	-	-	-	-	-	-	1	2	2	3
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-	-	-	-	-	-	-	-	-	-	-
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2,301,661	2,364,570	2,418,944	2,463,879	2,479,569	2,475,227	2,550,229	2,653,574	2,621,408	2,519,822	2,449,472
-	-	-	-	-	-	-	669	16,482	73,512	146,064
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	1	2	2	3
10,052,026	10,466,884	11,173,244	11,936,239	12,532,931	13,162,177	15,761,234	19,161,911	20,480,790	19,528,520	19,173,938
2	2	2	2	2	2	2	5	6	6	7
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	-	1	1	1

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-	-	-	-	-	-	-	2	4	4	6

-	-	-	-	-	-	-	1	1	1	1

3	3	4	4	4	4	4	4	4	4	4

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2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	5	6	6	7
1	1	1	1	1	1	1	1	1	1	2
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	4	5	5	5
28	28	28	28	28	28	28	28	28	28	28

-	-	-	-	-	-	-	-	605	605	605
-	-	-	-	-	-	-	-	11,786	11,786	11,786
-	-	-	-	-	-	-	-	778	778	778

16,325	16,774	17,170	17,501	17,622	17,602	19,201	21,153	22,014	21,686	22,387
528	528	528	528	528	528	528	528	528	528	528
-	-	-	-	-	-	-	-	-	-	756
528	528	528	528	528	528	528	528	528	528	528
31	32	33	33	33	33	36	40	42	41	42
2	2	2	2	2	2	2	2	3	2	3
1,056	**1,056**	**1,056**	**1,056**	**1,056**	**1,056**	**1,056**	**1,056**	**1,584**	**1,056**	**1,584**
55,179	57,417	59,786	62,297	64,962	67,794	65,524	63,057	67,755	61,477	54,885
1,056	1,056	1,056	1,056	1,056	1,056	1,056	1,056	1,584	1,056	1,584
55,179	57,417	59,786	62,297	64,962	67,794	65,524	63,057	67,755	61,477	54,885
-	-	-	-	-	-	-	-	-	-	1,629
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1,056	1,056	1,056	1,056	1,056	1,056	1,056	1,056	1,584	1,056	1,584
132	132	132	132	132	132	132	132	132	132	132
325	325	325	325	325	325	325	325	325	325	325
132	132	132	132	132	132	132	132	132	132	132
8	8	8	8	8	8	8	8	12	8	12
53	53	53	53	53	53	53	53	71	53	71
106	106	106	106	106	106	106	106	142	106	142
26,943	28,036	29,193	30,418	31,720	33,102	31,994	30,790	33,084	30,018	26,799
STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64
7	7	8	8	8	9	8	8	9	8	7
182	182	208	208	208	234	208	208	234	208	182
182	**182**	**208**	**208**	**208**	**234**	**208**	**208**	**234**	**208**	**182**
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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182	182	208	208	208	234	208	208	234	208	182

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-	-	-	-	-	-	-	-	131	131	131
26	26	26	26	26	26	26	26	26	26	26
-	-	-	-	-	-	-	1	2	2	3
-	-	-	-	-	-	-	1	2	2	3
-	-	-	-	-	-	-	1	1	1	1
-	-	-	-	-	-	-	-	2	2	6
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	2	2	6
-	-	-	-	-	-	-	-	1	1	2
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	1	1	2
-	-	-	-	-	-	-	-	-	-	1,629
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	1,629
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	1	1	1
-	-	-	-	-	-	-	-	2	2	6
-	-	-	-	-	-	-	-	1	1	1
-	-	-	-	-	-	-	-	2	2	6
-	-	-	-	-	-	-	-	4	4	12
-	-	-	-	-	-	-	-	107	107	107

eased lines.

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3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
-	-	-	-	-	-	-	0	0	0	1
-	-	-	-	-	-	-	0	0	0	2
-	-	-	-	-	-	-	0	0	0	4
-	-	-	-	-	-	-	0	0	0	8
-	-	-	-	-	-	-	0	0	0	16
-	-	-	-	-	-	-	0	0	1	42
-	-	-	-	-	-	-	4	4	4	4
-	-	-	-	-	-	-	4	4	4	4
-	-	-	-	-	-	-	4	4	4	10
-	-	-	-	-	-	-	4	4	4	10
-	-	-	-	-	-	-	4	4	4	20
-	-	-	-	-	-	-	4	4	4	50
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	19
-	-	-	-	-	-	-	-	-	-	-
4,513	4,522	4,522	4,522	4,522	4,522	4,659	4,668	4,668	4,668	4,668
-	-	-	-	-	-	-	275	550	826	1,101
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
45,130	45,220	45,220	45,220	45,220	45,220	46,590	46,680	46,680	46,680	46,680
19,740	19,740	19,740	19,740	19,740	19,740	19,740	21,116	22,492	23,868	25,244
70%	70%	70%	70%	70%	70%	70%	69%	67%	66%	65%

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30%	30%	30%	30%	30%	30%	30%	31%	33%	34%	35%
163	163	163	165	166	166	184	203	199	180	169
-	-	-	-	-	-	-	6	11	17	23
163	163	163	163	163	163	163	163	163	163	163
3,260	3,260	3,260	3,300	3,320	3,320	3,680	4,060	3,980	3,600	3,380
3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,380	3,480	3,600	3,720
50%	50%	50%	50%	50%	50%	53%	55%	53%	50%	48%
50%	50%	50%	50%	50%	50%	47%	45%	47%	50%	52%
-	-	-	-	-	-	-	-	-	-	28
-	-	-	-	-	-	-	1	2	2	3
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	280
280	280	280	280	280	280	280	300	320	320	340
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	45%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	55%
4,513	4,522	4,522	4,522	4,522	4,522	4,659	4,668	4,668	4,668	4,668
-	-	-	-	-	-	-	275	550	826	1,101
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	513
-	-	-	-	-	-	-	14	40	60	117
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
6,282	6,295	6,295	6,295	6,295	6,295	6,485	6,498	6,498	6,498	6,498
3,664	3,664	3,664	3,664	3,664	3,664	3,664	4,087	4,519	4,947	5,499
63%	63%	63%	63%	63%	63%	64%	61%	59%	57%	54%
63%	63%	63%	63%	63%	63%	64%	61%	59%	57%	54%
63%	63%	63%	63%	63%	63%	64%	61%	59%	57%	54%
37%	37%	37%	37%	37%	37%	36%	39%	41%	43%	46%
144,416,000	144,704,000	144,704,000	144,704,000	144,704,000	144,704,000	149,088,000	149,376,000	149,376,000	149,376,000	149,376,000
84,224,000	84,224,000	84,224,000	84,224,000	84,224,000	84,224,000	84,224,000	89,241,308	94,405,783	99,496,675	105,940,110
63%	63%	63%	63%	63%	63%	64%	63%	61%	60%	59%
63%	63%	63%	63%	63%	63%	64%	63%	61%	60%	59%
63%	63%	63%	63%	63%	63%	64%	63%	61%	60%	59%

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37%	37%	37%	37%	37%	37%	36%	37%	39%	40%	41%
163	163	163	165	166	166	184	203	199	180	169
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	6	11	17	23
163	163	163	163	163	163	163	163	163	163	163
535	535	535	541	544	544	604	666	653	590	554
356	356	356	356	356	356	356	361	365	369	374
60%	60%	60%	60%	60%	60%	63%	65%	64%	62%	60%
60%	60%	60%	60%	60%	60%	63%	65%	64%	62%	60%
60%	60%	60%	60%	60%	60%	63%	65%	64%	62%	60%
40%	40%	40%	40%	40%	40%	37%	35%	36%	38%	40%
13,855,000	13,855,000	13,855,000	14,025,000	14,110,000	14,110,000	15,640,000	17,255,000	16,915,000	15,300,000	14,365,000
9,236,667	9,236,667	9,236,667	9,236,667	9,236,667	9,236,667	9,236,667	9,310,251	9,371,571	9,445,155	9,518,739
60%	60%	60%	60%	60%	60%	63%	65%	64%	62%	60%
60%	60%	60%	60%	60%	60%	63%	65%	64%	62%	60%
60%	60%	60%	60%	60%	60%	63%	65%	64%	62%	60%
40%	40%	40%	40%	40%	40%	37%	35%	36%	38%	40%
-	-	-	-	-	-	-	-	-	-	4
-	-	-	-	-	-	-	-	-	-	28
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	2	2	3
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	166
90	90	90	90	90	90	90	91	93	93	94
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	64%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	64%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	64%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	36%
-	-	-	-	-	-	-	-	-	-	3,480,000
2,053,333	2,053,333	2,053,333	2,053,333	2,053,333	2,053,333	2,053,333	2,065,597	2,077,861	2,077,861	2,090,125
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	62%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	62%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	62%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	38%

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253,785,000	254,073,000	254,073,000	254,243,000	254,328,000	254,328,000	260,242,000	267,248,156	272,146,215	275,695,691	284,769,974
228,640,000	228,928,000	228,928,000	228,928,000	228,928,000	228,928,000	233,312,000	238,617,308	243,781,783	248,872,675	255,316,110
144,416,000	144,704,000	144,704,000	144,704,000	144,704,000	144,704,000	149,088,000	149,376,000	149,376,000	149,376,000	149,376,000
84,224,000	84,224,000	84,224,000	84,224,000	84,224,000	84,224,000	84,224,000	89,241,308	94,405,783	99,496,675	105,940,110
23,091,667	23,091,667	23,091,667	23,261,667	23,346,667	23,346,667	24,876,667	26,565,251	26,286,571	24,745,155	23,883,739
13,855,000	13,855,000	13,855,000	14,025,000	14,110,000	14,110,000	15,640,000	17,255,000	16,915,000	15,300,000	14,365,000
9,236,667	9,236,667	9,236,667	9,236,667	9,236,667	9,236,667	9,236,667	9,310,251	9,371,571	9,445,155	9,518,739
2,053,333	2,053,333	2,053,333	2,053,333	2,053,333	2,053,333	2,053,333	2,065,597	2,077,861	2,077,861	5,570,125
-	-	-	-	-	-	-	-	-	-	3,480,000
2,053,333	2,053,333	2,053,333	2,053,333	2,053,333	2,053,333	2,053,333	2,065,597	2,077,861	2,077,861	2,090,125
11,308,460	11,321,293	11,321,293	11,328,868	11,332,655	11,332,655	11,596,179	11,908,367	12,126,621	12,284,783	12,689,126
10,188,018	10,200,851	10,200,851	10,200,851	10,200,851	10,200,851	10,396,199	10,632,599	10,862,724	11,089,570	11,376,685
6,435,063	6,447,896	6,447,896	6,447,896	6,447,896	6,447,896	6,643,244	6,656,077	6,656,077	6,656,077	6,656,077
3,752,955	3,752,955	3,752,955	3,752,955	3,752,955	3,752,955	3,752,955	3,976,522	4,206,647	4,433,493	4,720,608
1,028,946	1,028,946	1,028,946	1,036,522	1,040,309	1,040,309	1,108,485	1,183,727	1,171,309	1,102,625	1,064,241
617,368	617,368	617,368	624,943	628,730	628,730	696,906	768,869	753,719	681,756	640,093
411,579	411,579	411,579	411,579	411,579	411,579	411,579	414,857	417,590	420,869	424,147
91,495	91,495	91,495	91,495	91,495	91,495	91,495	92,041	92,588	92,588	248,200
-	-	-	-	-	-	-	-	-	-	155,066
91,495	91,495	91,495	91,495	91,495	91,495	91,495	92,041	92,588	92,588	93,134
59,369,413	59,436,787	59,436,787	59,476,556	59,496,441	59,496,441	60,879,937	62,518,928	63,664,760	64,495,110	66,617,910
53,487,096	53,554,470	53,554,470	53,554,470	53,554,470	53,554,470	54,580,044	55,821,146	57,029,302	58,220,244	59,727,595
33,784,082	33,851,455	33,851,455	33,851,455	33,851,455	33,851,455	34,877,030	34,944,404	34,944,404	34,944,404	34,944,404
19,703,014	19,703,014	19,703,014	19,703,014	19,703,014	19,703,014	19,703,014	20,876,742	22,084,898	23,275,841	24,783,191
5,401,969	5,401,969	5,401,969	5,441,738	5,461,623	5,461,623	5,819,545	6,214,565	6,149,372	5,788,779	5,587,263
3,241,181	3,241,181	3,241,181	3,280,951	3,300,835	3,300,835	3,658,757	4,036,563	3,957,025	3,579,219	3,360,489
2,160,788	2,160,788	2,160,788	2,160,788	2,160,788	2,160,788	2,160,788	2,178,002	2,192,346	2,209,560	2,226,774
480,348	480,348	480,348	480,348	480,348	480,348	480,348	483,217	486,086	486,086	1,303,052
-	-	-	-	-	-	-	-	-	-	814,097
480,348	480,348	480,348	480,348	480,348	480,348	480,348	483,217	486,086	486,086	488,955
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
-	-	-	-	-	-	-	-	-	-	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

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0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
-	-	-	-	-	-	-	-	-	-	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
10,400,845	10,407,335	10,407,335	10,438,125	10,453,519	10,453,519	10,829,416	11,261,166	11,333,437	11,168,978	12,971,894
5,152,144	5,158,634	5,158,634	5,158,634	5,158,634	5,158,634	5,257,422	5,376,972	5,493,347	5,608,065	5,753,260
4,182,285	4,182,285	4,182,285	4,213,075	4,228,469	4,228,469	4,505,578	4,811,409	4,760,935	4,481,759	4,325,742
1,066,416	1,066,416	1,066,416	1,066,416	1,066,416	1,066,416	1,066,416	1,072,785	1,079,155	1,079,155	2,892,892
11,308,460	11,321,293	11,321,293	11,328,868	11,332,655	11,332,655	11,596,179	11,908,367	12,126,621	12,284,783	12,689,126
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
54,604,436	54,638,507	54,638,507	54,800,154	54,880,977	54,880,977	56,854,436	59,121,119	59,500,544	58,637,137	68,102,444
27,048,757	27,082,828	27,082,828	27,082,828	27,082,828	27,082,828	27,601,468	28,229,101	28,840,073	29,442,340	30,204,616
21,956,995	21,956,995	21,956,995	22,118,641	22,199,465	22,199,465	23,654,284	25,259,895	24,994,908	23,529,234	22,710,146
5,598,684	5,598,684	5,598,684	5,598,684	5,598,684	5,598,684	5,598,684	5,632,124	5,665,563	5,665,563	15,187,682
59,369,413	59,436,787	59,436,787	59,476,556	59,496,441	59,496,441	60,879,937	62,518,928	63,664,760	64,495,110	66,617,910
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%

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14	15	16	17	18	19	20	21	22	23	24
2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014

2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
179,906	152,225	126,788	106,848	88,778	67,040	58,701	49,335	41,841	9,344	5,929
174,828	148,080	123,412	104,047	86,441	65,264	57,198	48,149	40,878	9,136	5,806
21,869	18,693	15,683	13,275	11,032	8,323	7,348	6,266	5,363	589	367
179,906	152,225	126,788	106,848	88,778	67,040	58,701	49,335	41,841	9,344	5,929
177,367	150,152	125,100	105,447	87,609	66,152	57,949	48,742	41,359	9,240	5,868
164,998	142,216	120,422	103,050	86,746	66,489	58,852	50,254	42,514	8,829	5,701
5,614	5,736	5,758	5,753	5,688	2,085	2,156	2,177	1,900	452	292
111,430	98,965	86,066	75,502	64,987	51,068	45,811	39,827	33,424	7,343	4,863
-	-	-	-	-	-	-	-	-	-	-
19,965	40,545	55,837	64,733	90,821	126,181	174,274	233,720	316,917	432,243	573,179
19,561	40,717	58,672	72,971	110,722	164,125	246,450	353,565	503,266	705,441	953,455
6,655	15,505	23,653	28,968	45,703	67,213	103,981	148,453	210,636	293,901	397,161
19,899	40,437	55,718	64,628	90,708	126,066	174,163	233,628	316,845	432,186	573,136
19,806	41,124	59,112	73,360	111,140	164,555	246,866	353,910	503,538	705,879	953,846
16,654	36,465	54,307	68,529	106,304	159,035	241,852	349,380	499,677	702,156	950,774
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	2,405	2,195
-	-	-	-	-	-	-	-	-	1,890	1,800
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	1,890	1,800
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
19,308	38,139	49,247	49,358	59,378	67,628	71,752	64,713	55,065	46,471	37,870
-	-	-	-	-	-	-	-	-	2,405	2,195
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2,639,310	2,253,210	1,893,495	1,601,226	1,333,418	1,011,485	889,936	753,896	643,756	144,441	92,591
2,607,123	2,226,939	1,872,100	1,583,476	1,318,606	1,000,232	880,407	746,383	637,647	143,128	91,810
2,528,007	2,198,658	1,879,480	1,613,570	1,362,119	1,049,675	932,469	800,710	681,257	142,255	92,658
34,543	36,189	38,665	37,943	37,584	13,939	13,802	13,349	11,297	2,618	1,611
-	-	-	-	-	-	-	-	-	-	-
2,261,399	1,973,384	1,695,617	1,462,049	1,241,764	943,734	839,543	721,771	612,694	136,451	88,866
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	362,625	340,026
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,948	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**
3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9

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4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
3,948	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,091**
3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	-
264	264	264	264	264	264	264	264	264	264	-
128	128	128	128	128	128	128	128	128	128	-
9	9	9	9	9	9	9	9	9	9	-
133	125	113	102	93	86	79	73	66	58	51
601	560	507	457	420	388	357	327	297	263	-
1,326	1,237	1,119	1,008	928	857	788	723	656	581	-
3,276	3,056	2,767	2,493	2,293	2,118	1,948	1,787	1,621	1,435	-
8,317	7,759	7,024	6,328	5,821	5,376	4,946	4,536	4,116	3,643	-
4	4	3	3	3	3	3	3	2	2	2
14	13	12	11	10	10	9	8	8	7	-
30	28	26	23	21	20	18	17	15	14	-
73	68	62	56	51	47	44	40	37	32	-
183	171	155	140	129	119	109	100	91	81	-
37,659	35,927	30,940	28,789	27,066	26,200	24,742	23,429	19,345	17,895	6,182
70	61	50	42	36	31	26	22	19	16	14
313	274	225	187	162	139	118	100	85	72	-
692	605	496	414	357	307	261	221	188	159	-
1,710	1,495	1,225	1,022	882	758	644	546	464	393	-
4,340	3,795	3,110	2,595	2,239	1,925	1,635	1,387	1,177	997	-
4	4	3	3	3	2	2	2	2	2	2
15	13	11	9	8	7	6	5	5	4	-

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31	28	23	19	17	14	12	11	9	8	-
76	67	55	46	40	34	29	25	21	18	-
191	167	137	115	99	85	73	62	53	45	-
38,835	35,763	28,634	25,316	23,420	18,187	16,455	15,124	14,003	12,827	6,182
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
22	21	18	15	14	12	10	9	8	7	-
55	51	44	38	34	30	25	22	19	17	-
139	131	111	96	86	75	65	56	48	42	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	1	-
5	4	4	3	3	3	3	2	2	2	-
10	10	8	7	7	6	5	5	4	4	-
1,258	1,130	1,112	975	975	966	957	829	820	556	-
8	8	6	6	6	5	5	5	4	4	4
29	26	23	20	18	17	15	13	13	11	-
63	58	51	44	40	36	32	30	26	23	-
154	139	121	105	94	84	76	67	60	52	-
384	348	300	262	235	210	187	167	148	130	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1	1
3.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2	-
5.00	5.00	4.00	4.00	3.00	3.00	3.00	3.00	3.00	2	-
11.00	10.00	8.00	7.00	7.00	6.00	6.00	5.00	5.00	4	-
25.00	22.00	20.00	17.00	16.00	14.00	13.00	11.00	10.00	9	-

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1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	-
2	2	2	2	1	1	1	1	1	1	-
4	4	3	3	3	2	2	2	2	2	-
9	8	7	6	6	5	5	4	4	3	-
4,668	**4,659**	**4,522**	**4,513**	**4,249**	**4,112**	**4,112**	**4,103**	**4,103**	**4,094**	**3,091**
3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	-
528	528	528	528	264	264	264	264	264	264	-
512	512	384	384	384	256	256	256	256	256	-
81	72	63	54	54	45	45	36	36	27	-
1,376	**1,651**	**1,926**	**2,202**	**2,477**	**2,752**	**3,027**	**3,027**	**3,027**	**3,027**	**2,170**
519	794	1,069	1,345	1,620	1,895	2,170	2,170	2,170	2,170	2,170
456	456	456	456	456	456	456	456	456	456	-
264	264	264	264	264	264	264	264	264	264	-
128	128	128	128	128	128	128	128	128	128	-
9	9	9	9	9	9	9	9	9	9	-
162	177	169	155	132	108	89	85	81	77	72
136	227	293	337	346	329	312	299	285	269	-
256	427	550	634	651	619	586	562	536	506	-
554	924	1,192	1,372	1,410	1,340	1,269	1,217	1,161	1,095	-
1,131	1,887	2,434	2,802	2,879	2,737	2,590	2,485	2,370	2,235	-
294,769	491,964	634,519	730,594	750,554	713,494	675,304	647,827	617,902	582,783	156,198
5	5	5	4	4	3	3	3	3	3	3
4	6	7	8	9	8	8	8	7	7	-
7	10	13	15	15	15	14	13	13	12	-
13	21	27	31	32	30	29	28	26	25	-
26	42	54	62	64	61	58	55	53	50	-

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8,165	12,413	15,913	17,512	19,215	17,682	18,089	17,670	16,940	16,521	6,511
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1	2	2	2	2	2	2	2	2	2	-
2	2	3	3	3	3	3	3	3	3	-
3	4	4	5	5	5	5	4	4	4	-
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1	1	1	1	1	1	1	1	1	1	-
1	1	1	1	1	1	1	1	1	1	-
1	2	2	2	2	2	2	2	2	2	-
1,376	**1,660**	**1,935**	**2,211**	**2,486**	**2,761**	**3,036**	**3,036**	**3,036**	**3,036**	**2,170**
519	794	1,069	1,345	1,620	1,895	2,170	2,170	2,170	2,170	2,170
456	456	456	456	456	456	456	456	456	456	-
264	264	264	264	264	264	264	264	264	264	-
128	128	128	128	128	128	128	128	128	128	-
9	18	18	18	18	18	18	18	18	18	-
1,376	**1,660**	**1,935**	**2,211**	**2,486**	**2,761**	**3,036**	**3,036**	**3,036**	**3,036**	**2,170**
519	794	1,069	1,345	1,620	1,895	2,170	2,170	2,170	2,170	2,170
456	456	456	456	456	456	456	456	456	456	-
264	264	264	264	264	264	264	264	264	264	-
128	128	128	128	128	128	128	128	128	128	-
9	18	18	18	18	18	18	18	18	18	-
-	-	-	-	-	-	-	-	-	-	-
401	410	410	410	410	410	410	410	410	410	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
264	264	264	264	264	264	264	264	264	264	-
128	128	128	128	128	128	128	128	128	128	-
9	18	18	18	18	18	18	18	18	18	-
975	1,250	1,525	1,801	2,076	2,351	2,626	2,626	2,626	2,626	2,170
519	794	1,069	1,345	1,620	1,895	2,170	2,170	2,170	2,170	2,170
456	456	456	456	456	456	456	456	456	456	-

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-	-	-	-	-	-	-	-	-	-	750
-	-	-	-	-	-	-	-	-	456	456
-	-	-	-	-	-	-	-	-	264	264
-	-	-	-	-	-	-	-	-	128	128
-	-	-	-	-	-	-	-	-	9	9
-	-	-	-	-	-	-	-	-	-	51
-	-	-	-	-	-	-	-	-	263	229
-	-	-	-	-	-	-	-	-	581	506
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-	-	-	-	-	-	-	-	-	11,713	11,626
-	-	-	-	-	-	-	-	-	-	51
-	-	-	-	-	-	-	-	-	269	252
-	-	-	-	-	-	-	-	-	506	474
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-	-	-	-	-	-	-	-	-	12	11
-	-	-	-	-	-	-	-	-	25	24
-	-	-	-	-	-	-	-	-	50	47
-	-	-	-	-	-	-	-	-	10,010	11,090

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-	-	-	-	-	-	-	-	-	15	28
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-	-	-	-	-	-	-	-	-	62	116
-	-	-	-	-	-	-	-	-	127	236
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-	-	-	-	-	-	-	-	-	269	252
-	-	-	-	-	-	-	-	-	581	506
-	-	-	-	-	-	-	-	-	1,435	1,250
-	-	-	-	-	-	-	-	-	3,643	3,172
-	-	-	-	-	-	-	-	-	-	2
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-	-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	7	7
-	-	-	-	-	-	-	-	-	14	12
-	-	-	-	-	-	-	-	-	32	28

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-	-	-	-	-	-	-	-	-	81	71
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-	-	-	-	-	-	-	-	-	4	3
-	-	-	-	-	-	-	-	-	8	7
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-	-	-	-	-	-	-	-	-	-	750
-	-	-	-	-	-	-	-	-	456	456
-	-	-	-	-	-	-	-	-	528	264
-	-	-	-	-	-	-	-	-	384	384
-	-	-	-	-	-	-	-	-	54	54
-	-	-	-	-	-	-	-	-	1,422	1,908
-	-	-	-	-	-	-	-	-	1,422	1,908
-	-	-	-	-	-	-	-	-	-	-
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**1,422**	**1,908**
-	-	-	-	-	-	-	-	-	-	750
-	-	-	-	-	-	-	-	-	456	456
-	-	-	-	-	-	-	-	-	528	264
-	-	-	-	-	-	-	-	-	384	384
-	-	-	-	-	-	-	-	-	54	54
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	966	702
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	528	264
-	-	-	-	-	-	-	-	-	384	384
-	-	-	-	-	-	-	-	-	54	54

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-	-	-	-	-	-	-	-	-	456	1,206
-	-	-	-	-	-	-	-	-	-	750
-	-	-	-	-	-	-	-	-	456	456
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,376	**1,651**	**1,926**	**2,202**	**2,477**	**2,752**	**3,027**	**3,027**	**3,027**	**3,884**	**3,777**
519	794	1,069	1,345	1,620	1,895	2,170	2,170	2,170	2,170	2,920
456	456	456	456	456	456	456	456	456	912	456
264	264	264	264	264	264	264	264	264	528	264
128	128	128	128	128	128	128	128	128	256	128
9	9	9	9	9	9	9	9	9	18	9
181	181	181	181	181	181	181	181	181	181	181
88	88	88	88	88	88	88	88	88	88	88
163	163	163	163	163	163	163	163	163	163	163
117	117	117	117	117	117	117	117	117	117	117
9	9	9	9	9	9	9	9	9	9	9
338	613	888	1,164	1,439	1,714	1,989	1,989	1,989	1,989	2,739
368	368	368	368	368	368	368	368	368	824	368
101	101	101	101	101	101	101	101	101	365	101
11	11	11	11	11	11	11	11	11	139	11
-	-	-	-	-	-	-	-	-	9	-
-	-	-	-	-	-	-	-	-	2,405	2,195
656	2,406	6,590	15,375	31,442	58,553	102,522	169,007	261,852	383,366	533,114
-	-	-	-	-	-	-	-	-	-	-
19,308	38,139	49,247	49,358	59,378	67,628	71,752	64,713	55,065	46,471	37,870
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6,786	13,722	18,713	21,260	29,273	39,834	53,801	70,382	93,600	126,014	165,783
3,533	7,211	10,045	11,913	17,055	24,210	34,188	46,940	64,781	89,270	119,231
4,631	9,401	12,937	14,974	20,979	29,102	40,129	53,721	72,745	99,128	131,378
4,420	8,997	12,455	14,592	20,667	29,007	40,491	54,924	75,120	103,101	137,154

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595	1,214	1,688	1,994	2,846	4,026	5,667	7,753	10,672	14,729	19,633
-	-	-	-	-	-	-	-	-	-	-
2	4	6	7	9	13	17	23	30	41	54
8	16	22	26	37	53	75	103	142	196	261
18	36	49	57	79	110	152	203	276	375	498
35	70	97	114	161	227	316	429	587	805	1,072
66	135	188	222	316	447	630	861	1,186	1,637	2,181
13	17	17	16	18	21	25	32	43	58	57
8	16	22	26	37	53	75	103	142	98	261
18	36	49	57	79	110	152	203	276	125	498
35	70	97	114	161	227	316	429	587	201	357
66	67	94	111	158	224	315	431	593	205	364
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	-
1	1	1	1	1	1	1	1	1	1	-
1	1	1	1	1	1	1	1	1	1	-
1	2	2	2	2	2	2	2	2	2	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	2	1
-	-	-	-	-	-	-	-	-	3	3
-	-	-	-	-	-	-	-	-	6	6

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1	1	1	1	1	1	1	1	1	1	1
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2	2	2	2	2	2	2	2	2	4	4
2	3	3	3	3	3	3	3	3	7	7
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2	2	2	2	2	2	2	2	2	3	2
2	2	2	2	2	2	2	2	2	4	4
2	3	3	3	3	3	3	3	3	7	7
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
17.5	35.6	49.0	56.7	79.5	110.2	152.0	203.5	275.5	187.7	497.6
34.5	70.3	97.3	114.0	161.5	226.6	316.3	429.1	586.9	402.7	1,071.5
66.1	134.9	187.5	221.6	316.2	447.4	629.6	861.4	1,185.8	818.3	2,181.5
-	-	-	-	-	-	-	-	-	-	-
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1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps
1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	10Gbps
1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	10Gbps	10Gbps	10Gbps	10Gbps

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1	1	1	1	1	1	1	2	2	2	1
1	1	1	1	1	2	2	1	1	1	1

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-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	2
1	1	1	1	1	1	1	2	2	2	-
1	1	1	1	1	2	2	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	1	1	1	1

289	289	289	289	289	298	298	397	397	397	326
112	112	112	112	112	112	112	123	123	643	202
-	-	-	-	-	-	-	9	9	18	137

-	-	-	-	-	-	-	-	-	-	-
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3	3	3	3	3	3	3	3	3	4	4
3	3	3	3	3	3	3	4	4	6	4
3	4	4	4	4	5	5	3	3	7	7

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-	-	-	-	-	-	-	-	-	-	1
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1,203	1,212	1,212	1,212	1,212	1,221	1,221	1,331	1,331	3,774	1,631
401	401	401	401	401	401	401	401	401	802	401
-	-	-	-	-	-	-	9	9	18	137
-	-	-	-	-	-	-	9	9	18	137
401	401	401	401	401	401	401	401	401	802	401
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3	3	3	3	3	3	3	3	3	4	4
3	3	3	3	3	3	3	4	4	6	4
3	4	4	4	4	5	5	3	3	7	7
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

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1	1	1	1	1	1	1	1	1	1	2
1	1	1	1	1	1	1	2	2	2	-
1	1	1	1	1	2	2	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
336	336	336	336	336	336	336	347	347	2,357	448
112	112	112	112	112	112	112	112	112	513	112
112	112	112	112	112	112	112	123	123	643	202
-	-	-	-	-	-	-	-	-	9	11
-	-	-	-	-	-	-	-	-	9	11
112	112	112	112	112	112	112	112	112	513	112
147	**176**	**206**	**235**	**264**	**294**	**323**	**352**	**382**	**411**	**441**
558	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**
181	181	181	181	181	181	181	181	181	181	181
88	88	88	88	88	88	88	88	88	88	88
163	163	163	163	163	163	163	163	163	163	163
117	117	117	117	117	117	117	117	117	117	117
9	9	9	9	9	9	9	9	9	9	9

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19,965	40,545	55,837	64,733	90,821	126,181	174,274	233,720	316,917	432,243	573,179
-	-	-	-	-	-	-	-	-	-	-
975	1,250	1,525	1,801	2,076	2,351	2,626	2,626	2,626	2,626	2,170
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	456	1,206
289	289	289	289	289	298	298	397	397	397	326
112	112	112	112	112	112	112	123	123	643	202
-	-	-	-	-	-	-	9	9	18	137
136	230	271	275	344	429	540	664	830	1,052	1,300
19,965	40,545	55,837	64,733	90,821	126,181	174,274	233,720	316,917	432,243	573,179
1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	10Gbps	10Gbps	10Gbps
1	1	1	1	1	2	2	2	1	1	1
2	2	2	2	2	2	2	2	2	2	2
294	352	412	470	528	588	646	704	-	-	-
-	-	-	-	-	-	-	-	764	822	882
-	-	-	-	-	-	-	-	-	-	-
289	289	289	289	289	298	298	397	397	397	326
1,381	1,714	2,049	2,383	2,716	3,051	3,384	3,453	2,749	3,725	3,578
-	-	-	-	-	-	-	9	773	840	1,019
2	2	1	1	1	1	1	1	1	1	1
9	10	10	10	10	10	10	10	7	9	8
-	-	-	-	-	-	-	0	2	2	2

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3	3	3	3	3	3	3	3	3	3	3
-	-	-	-	-	-	-	1	2	2	2
1	1	1	1	1	1	1	1	1	1	1
441	528	618	705	792	882	969	1,056	1,146	1,233	1,323
1,381	1,714	2,049	2,383	2,716	3,051	3,384	3,453	2,749	3,725	3,578
-	-	-	-	-	-	-	352	764	822	882
147	176	206	235	264	294	323	352	382	411	441
1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315
24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528
20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
65	65	65	65	65	65	65	65	65	65	65
6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930
3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546
179,906	**152,225**	**126,788**	**106,848**	**88,778**	**67,040**	**58,701**	**49,335**	**41,841**	**9,344**	**5,929**
48,498	41,036	34,179	28,804	23,932	18,072	15,824	13,299	11,279	2,519	1,598
32,187	27,235	22,684	19,116	15,883	11,994	10,502	8,827	7,486	1,672	1,061
41,132	34,803	28,987	24,429	20,297	15,327	13,421	11,279	9,566	2,136	1,356
49,290	41,706	34,737	29,274	24,323	18,367	16,083	13,517	11,464	2,560	1,624
8,798	7,445	6,201	5,225	4,342	3,279	2,871	2,413	2,046	457	290
4,668	**4,659**	**4,522**	**4,513**	**4,249**	**4,112**	**4,112**	**4,103**	**4,103**	**4,094**	**3,091**

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3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	-
528	528	528	528	264	264	264	264	264	264	-
512	512	384	384	384	256	256	256	256	256	-
81	72	63	54	54	45	45	36	36	27	-
16	13	11	9	8	6	5	4	4	1	1
71	60	50	42	35	26	23	19	16	4	-
78	66	55	46	77	58	51	43	36	8	-
96	81	90	76	63	72	63	53	45	10	-
109	103	98	97	80	73	64	67	57	17	-
2	2	2	2	1	1	1	1	1	1	1
5	5	4	4	3	3	2	2	2	1	-
6	5	4	4	6	5	4	4	3	1	-
7	6	6	6	5	5	5	4	4	2	-
8	7	7	7	6	5	5	5	4	2	-
15,862	**14,678**	**12,863**	**12,800**	**8,287**	**7,284**	**6,564**	**6,263**	**5,963**	**4,377**	**3,091**
6,182	6,182	6,182	6,182	3,091	3,091	3,091	3,091	3,091	3,091	3,091
2,280	2,280	1,824	1,824	1,368	1,368	912	912	912	456	-
3,168	2,640	2,112	2,112	1,584	1,320	1,056	1,056	792	264	-
3,584	3,072	2,304	2,304	1,920	1,280	1,280	1,024	1,024	512	-
648	504	441	378	324	225	225	180	144	54	-
23,394	21,804	16,916	15,612	16,400	16,640	15,266	15,197	14,481	11,177	9,229
7,995	7,452	5,781	5,336	5,605	5,687	5,217	5,194	4,949	3,820	3,154
4,113	3,833	2,974	2,745	2,883	2,925	2,684	2,672	2,546	1,965	1,623
5,429	5,059	3,925	3,623	3,806	3,861	3,542	3,526	3,360	2,593	2,142
5,164	4,813	3,734	3,446	3,620	3,673	3,370	3,355	3,196	2,467	2,037
694	647	502	463	486	493	453	451	429	331	274
72,574	92,450	95,629	72,477	77,552	97,336	100,445	106,035	96,132	98,469	112,512
29,560	37,655	38,950	29,520	31,587	39,646	40,912	43,188	39,155	40,107	45,827
10,289	13,107	13,557	10,275	10,995	13,799	14,240	15,033	13,629	13,960	15,951
12,093	15,404	15,934	12,076	12,922	16,219	16,737	17,668	16,018	16,407	18,747
17,117	21,805	22,555	17,095	18,291	22,958	23,691	25,009	22,674	23,225	26,537
3,516	4,478	4,632	3,511	3,757	4,715	4,866	5,136	4,657	4,770	5,450
15,862	14,678	12,863	12,800	8,287	7,284	6,564	6,263	5,963	4,377	3,091
23,394	21,804	16,916	15,612	16,400	16,640	15,266	15,197	14,481	11,177	9,229
72,574	92,450	95,629	72,477	77,552	97,336	100,445	106,035	96,132	98,469	112,512

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-	-	-	-	-	-	-	-	-	648	592
-	-	-	-	-	-	-	-	-	430	393
-	-	-	-	-	-	-	-	-	550	502
-	-	-	-	-	-	-	-	-	659	601
-	-	-	-	-	-	-	-	-	118	107
19,308	38,139	49,247	49,358	59,378	67,628	71,752	64,713	55,065	46,471	37,870
6,599	13,034	16,831	16,869	20,293	23,113	24,522	22,117	18,819	15,882	12,943
3,394	6,705	8,658	8,677	10,439	11,889	12,614	11,377	9,681	8,170	6,658
4,480	8,850	11,428	11,453	13,778	15,693	16,650	15,016	12,778	10,784	8,788
4,262	8,419	10,871	10,895	13,107	14,928	15,838	14,284	12,155	10,258	8,359
573	1,131	1,460	1,464	1,761	2,005	2,128	1,919	1,633	1,378	1,123
656	2,406	6,590	15,375	31,442	58,553	102,522	169,007	261,852	383,366	533,114
656	**2,406**	**6,590**	**15,375**	**31,442**	**58,553**	**102,522**	**169,007**	**261,852**	**383,366**	**533,114**
187	687	1,882	4,391	8,979	16,722	29,279	48,266	74,781	109,483	152,248
138	506	1,387	3,235	6,616	12,321	21,573	35,563	55,100	80,670	112,181
150	551	1,509	3,521	7,201	13,409	23,479	38,704	59,967	87,795	122,089
158	579	1,585	3,697	7,561	14,080	24,653	40,640	62,965	92,184	128,193
23	83	227	531	1,085	2,021	3,539	5,834	9,039	13,234	18,403
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8,527	**8,330**	**7,776**	**7,776**	**4,442**	**4,319**	**3,896**	**3,880**	**3,798**	**3,260**	**2,805**
5,609	5,609	5,609	5,609	2,805	2,805	2,805	2,805	2,805	2,805	2,805
1,705	1,705	1,364	1,364	1,023	1,023	682	682	682	341	-
985	821	656	656	492	410	328	328	246	82	-
228	196	147	147	122	82	82	65	65	33	-
-	-	-	-	-	-	-	-	-	-	-
12,530	**11,678**	**9,060**	**8,362**	**8,784**	**8,912**	**8,176**	**8,140**	**7,756**	**5,986**	**4,943**
7,254	6,761	5,245	4,841	5,085	5,160	4,733	4,712	4,490	3,466	2,862
3,115	2,903	2,252	2,079	2,184	2,216	2,033	2,024	1,928	1,488	1,229
1,917	1,787	1,386	1,279	1,344	1,363	1,251	1,245	1,187	916	756
244	227	176	163	171	174	159	159	151	117	96
-	-	-	-	-	-	-	-	-	-	-
34,962	**44,537**	**46,068**	**34,915**	**37,360**	**46,891**	**48,388**	**51,081**	**46,311**	**47,437**	**54,202**
25,059	31,922	33,020	25,026	26,778	33,610	34,683	36,613	33,194	34,001	38,850
6,396	8,148	8,428	6,387	6,835	8,578	8,852	9,345	8,472	8,678	9,916
2,963	3,775	3,905	2,959	3,167	3,974	4,101	4,330	3,925	4,021	4,594
543	692	715	542	580	728	751	793	719	737	842
-	-	-	-	-	-	-	-	-	-	-
21,387.28	24,497.50	24,293.56	20,192.68	18,363.04	21,735.00	22,050.98	22,983.06	21,205.05	21,098.84	23,171.67
6,348.80	7,100.68	6,578.77	5,497.70	5,426.40	6,293.36	5,996.82	6,232.91	5,760.21	5,305.01	5,441.77
3,367.58	3,536.10	3,239.83	2,726.07	2,694.68	3,016.67	2,941.60	3,050.30	2,742.16	2,492.45	2,612.47
612.78	644.64	582.40	491.18	489.25	521.95	526.30	530.05	490.23	449.29	458.03
-	-	-	-	-	-	-	-	-	-	-
11,652	**11,116**	**10,073**	**10,073**	**6,079**	**5,693**	**5,076**	**4,997**	**4,808**	**3,844**	**3,069**
6,138	6,138	6,138	6,138	3,069	3,069	3,069	3,069	3,069	3,069	3,069
2,141	2,141	1,713	1,713	1,285	1,285	856	856	856	428	-
2,270	1,891	1,513	1,513	1,135	946	757	757	567	189	-
1,103	945	709	709	591	394	394	315	315	158	-
-	-	-	-	-	-	-	-	-	-	-
16,583	**15,455**	**11,991**	**11,066**	**11,625**	**11,795**	**10,821**	**10,772**	**10,264**	**7,922**	**6,542**
7,840	7,307	5,669	5,232	5,496	5,577	5,116	5,093	4,853	3,746	3,093
3,722	3,469	2,691	2,484	2,609	2,647	2,429	2,418	2,304	1,778	1,468
3,696	3,444	2,672	2,466	2,591	2,629	2,412	2,401	2,288	1,766	1,458
1,325	1,235	958	884	929	942	864	861	820	633	523
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45,895	**58,464**	**60,475**	**45,834**	**49,043**	**61,554**	**63,520**	**67,055**	**60,793**	**62,271**	**71,151**
27,415	34,924	36,125	27,379	29,296	36,770	37,944	40,055	36,315	37,198	42,502
8,292	10,563	10,926	8,281	8,861	11,121	11,476	12,115	10,983	11,250	12,855
6,571	8,370	8,658	6,562	7,022	8,813	9,094	9,600	8,704	8,915	10,187
3,617	4,607	4,766	3,612	3,865	4,851	5,006	5,284	4,791	4,907	5,607
-	-	-	-	-	-	-	-	-	-	-
11,652	**11,116**	**10,073**	**10,073**	**6,079**	**5,693**	**5,076**	**4,997**	**4,808**	**3,844**	**3,069**
133	126	115	115	69	65	58	57	55	44	35
-	-	-	-	-	-	-	-	-	-	-
16,583	**15,455**	**11,991**	**11,066**	**11,625**	**11,795**	**10,821**	**10,772**	**10,264**	**7,922**	**6,542**
201	187	145	134	141	143	131	130	124	96	79
-	-	-	-	-	-	-	-	-	-	-
11,225	**14,299**	**14,791**	**11,210**	**11,995**	**15,055**	**15,536**	**16,401**	**14,869**	**15,231**	**17,403**
49	62	64	49	52	66	68	71	65	66	76
-	-	-	-	-	-	-	-	-	-	-
25,270	**25,684**	**23,192**	**20,991**	**17,651**	**18,843**	**17,985**	**18,302**	**17,123**	**15,190**	**14,800**
255	249	217	204	164	167	155	156	147	123	111
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	588	537
-	-	-	-	-	-	-	-	-	322	294
-	-	-	-	-	-	-	-	-	171	156
-	-	-	-	-	-	-	-	-	42	38
-	-	-	-	-	-	-	-	-	-	-
330	**1,210**	**3,314**	**7,733**	**15,814**	**29,450**	**51,565**	**85,004**	**131,701**	**192,818**	**268,135**
170	623	1,708	3,984	8,148	15,172	26,566	43,794	67,852	99,339	138,143
103	379	1,037	2,419	4,947	9,212	16,130	26,590	41,197	60,314	83,874
47	171	469	1,094	2,238	4,168	7,297	12,030	18,638	27,287	37,946
10	37	101	236	482	898	1,572	2,591	4,014	5,877	8,173
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10,342	**20,427**	**26,377**	**26,436**	**31,803**	**36,222**	**38,430**	**34,660**	**29,493**	**24,890**	**20,283**
5,987	11,826	15,270	15,305	18,411	20,970	22,248	20,066	17,074	14,409	11,742
2,571	5,078	6,558	6,572	7,907	9,005	9,554	8,617	7,332	6,188	5,043
1,582	3,125	4,035	4,044	4,865	5,541	5,879	5,303	4,512	3,808	3,103
201	398	514	515	619	706	749	675	574	485	395
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**1,282**	**1,170**
-	-	-	-	-	-	-	-	-	60	55
-	-	-	-	-	-	-	-	-	109	99
-	-	-	-	-	-	-	-	-	379	346
-	-	-	-	-	-	-	-	-	617	563
-	-	-	-	-	-	-	-	-	118	107
326	**1,196**	**3,275**	**7,642**	**15,628**	**29,103**	**50,958**	**84,003**	**130,151**	**190,548**	**264,978**
17	64	174	407	832	1,549	2,713	4,472	6,928	10,143	14,106
35	128	350	816	1,669	3,109	5,444	8,974	13,904	20,356	28,307
104	380	1,040	2,427	4,963	9,242	16,181	26,675	41,329	60,508	84,143
148	542	1,484	3,461	7,079	13,182	23,081	38,049	58,951	86,308	120,020
23	83	227	531	1,085	2,021	3,539	5,834	9,039	13,234	18,403
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,345	**6,607**	**8,531**	**8,550**	**10,286**	**11,715**	**12,429**	**11,210**	**9,539**	**8,050**	**6,560**
484	956	1,234	1,237	1,488	1,695	1,798	1,622	1,380	1,165	949
501	989	1,277	1,280	1,540	1,754	1,861	1,679	1,428	1,205	982
1,468	2,900	3,745	3,753	4,515	5,142	5,456	4,920	4,187	3,533	2,879
892	1,762	2,275	2,280	2,743	3,124	3,314	2,989	2,544	2,147	1,749
-	-	-	-	-	-	-	-	-	-	-
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7.3	8.4	8.3	6.9	6.3	7.5	7.6	7.9	7.3	7.3	8.0
17.3	19.3	17.9	14.9	14.7	17.1	16.3	16.9	15.7	14.4	14.8
33.3	35.0	32.1	27.0	26.7	29.9	29.1	30.2	27.2	24.7	25.9
55.7	58.6	52.9	44.7	44.5	47.4	47.8	48.2	44.6	40.8	41.6
-	-	-	-	-	-	-	-	-	-	-
E3	E3	E3	E3	E3	E3	E3	E3	E3	E3	E3
E3	E3	E3	E3	E3	E3	E3	E3	E3	E3	E3
STM-0	STM-0	STM-0	E3	E3	STM-0	STM-0	STM-0	E3	E3	E3
STM-1	STM-1	STM-1	STM-1	STM-1	STM-1	STM-1	STM-1	STM-1	STM-0	STM-0
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	1	2	2
-	-	-	-	-	-	-	-	-	-	-
3,859	**3,859**	**3,859**	**3,859**	**3,859**	**3,859**	**3,859**	**3,859**	**3,859**	**3,870**	**3,870**
-	-	-	-	-	-	-	-	-	-	-
3,646	3,646	3,646	3,848	3,848	3,646	3,646	3,646	3,848	3,848	3,848
202	202	202	-	-	202	202	202	-	22	22
11	11	11	11	11	11	11	11	11	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7,718	**7,718**	**7,718**	**7,718**	**7,718**	**7,718**	**7,718**	**7,718**	**7,718**	**7,740**	**7,740**
-	-	-	-	-	-	-	-	-	-	-
7,292	7,292	7,292	7,696	7,696	7,292	7,292	7,292	7,696	7,696	7,696
404	404	404	-	-	404	404	404	-	44	44
22	22	22	22	22	22	22	22	22	-	-
-	-	-	-	-	-	-	-	-	-	-
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2	2	2	2	2	2	2	2	2	2	2
25,270	**25,684**	**23,192**	**20,991**	**17,651**	**18,843**	**17,985**	**18,302**	**17,123**	**15,190**	**14,800**
255	249	217	204	164	167	155	156	147	123	111
-	-	-	-	-	-	-	-	-	-	-
STM-4	STM-4	STM-4	STM-4	STM-4	STM-4	STM-4	STM-4	STM-4	STM-1	STM-1
-	-	-	-	-	-	-	-	-	-	-
818	**810**	**775**	**771**	**673**	**689**	**645**	**650**	**624**	**680**	**707**
12	6	6	6	6	6	6	6	6	12	12
-	-	-	-	-	-	-	-	-	-	-
818	**810**	**775**	**771**	**673**	**689**	**645**	**650**	**624**	**680**	**707**
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
12	18	28	28	68	68	68	68	84	244	288
764	738	702	727	597	593	549	554	520	424	399
42	54	45	16	8	28	28	28	20	12	20
-	-	-	-	-	-	-	-	-	-	-
8	8	8	8	8	8	8	8	8	8	8
116	139	162	185	208	232	255	278	302	331	361
147	176	206	235	264	294	323	352	382	411	441
31	37	44	50	56	62	68	74	80	80	80
21%	21%	21%	21%	21%	21%	21%	21%	21%	19%	18%

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24%	29%	34%	39%	44%	49%	53%	58%	63%	69%	76%
0.0 2	0.0 3	0.0 3	0.0 4	0.0 4	0.0 4	0.0 5	0.0 5	0.0 6	0.0 6	0.0 7
48	57	66	76	85	95	104	113	123	135	147
2 - 2	2 - 2	2 - 2	2 - 2	2 - 2	2 - 2	2 - 2	2 - 2	- 2 2	- 2 2	- 2 2
232 -	278 -	324 -	370 -	416 -	464 -	510 -	556 -	- 604	- 662	- 722
232	278	324	370	416	464	510	556	604	662	722
464 -	556 -	648 -	740 -	832 -	928 -	1,020 -	1,112 -	- 1,208	- 1,324	- 1,444
8 -	12 -	12 -	16 -	16 -	16 -	20 -	20 -	- 24	- 24	- 28
96	114	132	152	170	190	208	226	246	270	294
163	163	163	163	163	163	163	163	163	163	163
17%	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%
135	135	135	135	135	135	135	135	135	135	135

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2,607,123	2,226,939	1,872,100	1,583,476	1,318,606	1,000,232	880,407	746,383	637,647	143,128	91,810
5	4	3	3	3	2	2	2	1	1	1
177,367	150,152	125,100	105,447	87,609	66,152	57,949	48,742	41,359	9,240	5,868
148	126	105	88	74	56	49	41	35	8	5
163	163	163	163	163	163	163	163	163	163	163
163	163	163	163	163	163	163	163	163	163	163
163	163	163	163	163	163	163	163	163	163	163
163	163	163	163	163	163	163	163	163	163	163
31	37	44	50	56	62	68	74	80	80	80
29	35	42	48	54	60	66	72	78	78	76
-	-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
19,561	40,717	58,672	72,971	110,722	164,125	246,450	353,565	503,266	705,441	953,455
-	-	-	-	-	-	-	-	-	-	-
294	352	412	470	528	588	646	704	-	-	-
275	333	393	451	509	569	627	685	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
19	19	19	19	19	19	19	19	-	-	-
-	-	-	-	-	-	-	-	764	822	882
-	-	-	-	-	-	-	-	745	801	838
-	-	-	-	-	-	-	-	-	-	22
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	-	-
2	2	2	4	8	12	22	34	54	78	108
-	-	-	-	-	-	-	-	-	-	-
62	74	88	100	112	124	136	148	160	160	191
58	70	84	96	108	120	132	144	156	156	181
-	-	-	-	-	-	-	-	-	-	5
-	-	-	-	-	-	-	-	-	-	-
4	4	4	4	4	4	4	4	4	4	5
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
4	9	12	15	23	33	50	71	101	142	191
19,561	40,717	58,672	72,971	110,722	164,125	246,450	353,565	503,266	705,441	953,455
62	74	88	100	112	124	136	148	160	160	160
-	-	-	-	-	-	-	-	-	-	-
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275	333	393	451	509	569	627	685	-	-	-
58	70	84	96	108	120	132	144	901	957	1,019
-	-	-	-	-	-	-	-	-	-	-
10	10	10	10	10	10	10	10	-	-	-
2	2	2	2	2	2	2	2	12	13	14
5	5	5	5	5	5	5	5	-	-	-
1	1	1	1	1	1	1	1	6	7	7
1	1	1	1	1	1	1	1	1	1	1
145	175	210	240	270	300	330	360	-	-	-
275	333	393	451	509	569	627	685	-	-	-
29	35	42	48	54	60	66	72	468	546	532
29	35	42	48	54	60	66	72	78	78	76
-	-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	27
-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	14
-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	7
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-	-	-	-	-	-	-	-	-	-	-

10	10	10	10	10	10	10	10	-	2	2
19	19	19	19	19	19	19	19	-	-	-
4	4	4	4	6	8	14	20	40	52	68
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	4	4	6	6
155	185	220	250	280	310	340	370	-	2	4
294	352	412	470	528	588	646	704	-	-	-
33	39	46	52	60	68	80	92	508	598	614
-	-	-	-	-	-	-	-	-	-	-
29	35	42	48	54	60	66	72	78	78	78
-	-	-	-	-	-	-	-	-	2	4
-	-	-	-	-	-	-	-	-	2,405	2,195
-	-	-	-	-	-	-	-	-	2	4
-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	2	4
-	-	-	-	-	-	-	-	-	241	220
-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	2	4
-	-	-	-	-	-	-	-	-	2	4

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577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
174,828	148,080	123,412	104,047	86,441	65,264	57,198	48,149	40,878	9,136	5,806
652	652	652	652	652	652	652	652	652	652	652
268	227	189	160	133	100	88	74	63	14	9
16	14	12	10	9	7	6	6	5	2	1
10,432	**9,128**	**7,824**	**6,520**	**5,868**	**4,564**	**3,912**	**3,912**	**3,260**	**1,304**	**652**
90,081	107,244	105,641	82,685	88,188	106,984	108,612	113,794	103,827	102,919	114,273
10,432	9,128	7,824	6,520	5,868	4,564	3,912	3,912	3,260	1,304	652
90,081	107,244	105,641	82,685	88,188	106,984	108,612	113,794	103,827	102,919	114,273
43,985	52,365	51,582	40,374	43,061	52,238	53,033	55,564	50,697	50,253	55,797
19,561	40,717	58,672	72,971	110,722	164,125	246,450	353,565	503,266	705,441	953,455
-	-	-	-	-	-	-	-	-	-	-
10,115	**8,851**	**7,586**	**6,322**	**5,690**	**4,425**	**3,793**	**3,793**	**3,161**	**1,264**	**632**
405.54	354.85	304.16	253.46	228.12	177.42	152.08	152.08	126.73	50.69	25.35
730.90	639.53	548.17	456.81	411.13	319.77	274.09	274.09	228.41	91.36	45.68
85,860	**102,219**	**100,691**	**78,811**	**84,056**	**101,971**	**103,523**	**108,462**	**98,962**	**98,097**	**108,918**
3,394.35	4,041.08	3,980.66	3,115.67	3,323.04	4,031.28	4,092.61	4,287.90	3,912.32	3,878.11	4,305.93
4,480.54	5,334.22	5,254.47	4,112.68	4,386.41	5,321.29	5,402.25	5,660.02	5,164.26	5,119.11	5,683.83

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52,049	**58,778**	**56,763**	**44,816**	**46,746**	**54,229**	**54,354**	**56,765**	**51,493**	**49,176**	**53,829**
2,063.00	2,329.00	2,248.00	1,775.00	1,851.00	2,146.00	2,151.00	2,246.00	2,038.00	1,945.00	2,128.00
2,919.00	3,245.00	3,114.00	2,465.00	2,553.00	2,919.00	2,912.00	3,038.00	2,751.00	2,591.00	2,821.00

52,049	**58,778**	**56,763**	**44,816**	**46,746**	**54,229**	**54,354**	**56,765**	**51,493**	**49,176**	**53,829**
2,063.00	2,329.00	2,248.00	1,775.00	1,851.00	2,146.00	2,151.00	2,246.00	2,038.00	1,945.00	2,128.00
2,919.00	3,245.00	3,114.00	2,465.00	2,553.00	2,919.00	2,912.00	3,038.00	2,751.00	2,591.00	2,821.00

STM-64	STM-64	STM-64	STM-16	STM-16	STM-64	STM-64	STM-64	STM-64	STM-16	STM-64
STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64
476	**440**	**431**	**451**	**480**	**438**	**438**	**431**	**484**	**515**	**452**
17	17	17	34	34	17	17	17	17	34	17
18	18	18	18	18	18	18	18	18	18	18
476	**440**	**431**	**451**	**480**	**438**	**438**	**431**	**484**	**515**	**452**
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
12	12	12	12	12	12	12	12	12	12	12
89	62	53	89	89	67	67	53	89	89	67
143	107	107	202	202	100	100	107	168	230	128
232	259	259	148	177	259	259	259	215	184	245
54	54	54	54	54	54	54	54	54	54	54
3	9	16	22	28	34	40	46	52	52	52
31	37	44	50	56	62	68	74	80	80	80
28	28	28	28	28	28	28	28	28	28	28
90%	76%	64%	56%	50%	45%	41%	38%	35%	35%	35%
6%	17%	31%	42%	54%	65%	77%	88%	100%	100%	100%

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1.3	1.1	1.1	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0
4	10	17	23	30	36	42	48	54	54	54
2	5	8	11	14	17	20	23	26	26	26
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
6	18	32	44	56	68	80	92	104	104	124
-	-	-	-	-	-	-	-	-	-	-
6	18	32	44	56	68	80	92	104	104	124
12	36	64	88	112	136	160	184	208	208	248
-	-	-	-	-	-	-	-	-	-	-
16	40	68	92	120	144	168	192	216	216	258
-	-	-	-	-	-	-	-	-	-	-
4	10	16	22	28	34	40	46	52	52	62
28	28	28	28	28	28	28	28	28	28	28
7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%
26	26	26	26	26	26	26	26	26	26	26

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2,261,399	1,973,384	1,695,617	1,462,049	1,241,764	943,734	839,543	721,771	612,694	136,451	88,866
3	3	2	2	2	2	1	1	1	1	1
4	4	4	4	4	4	4	4	4	4	4
4	4	4	4	4	4	4	4	4	4	4
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	362,625	340,026
-	-	-	-	-	-	-	-	-	3	2
-	-	-	-	-	-	-	-	-	3	2
-	-	-	-	-	-	-	-	-	3	2
-	-	-	-	-	-	-	-	-	3	2
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	2,405	2,195
-	-	-	-	-	-	-	-	-	86	78
-	-	-	-	-	-	-	-	-	1Gbps	1Gbps
-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	1	1

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-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	28	28
-	-	-	-	-	-	-	-	-	28	28
-	-	-	-	-	-	-	-	-	362,625	340,026
-	-	-	-	-	-	-	-	-	3	2
-	-	-	-	-	-	-	-	-	3	2
-	-	-	-	-	-	-	-	-	3	2
2,188,712	2,018,500	1,852,500	1,705,500	1,582,000	1,453,751	1,325,201	1,205,898	1,086,266	961,574	841,372
-	-	-	-	-	-	-	-	-	961,575	841,373
-	-	-	-	-	-	-	-	-	362,625	340,026
-	-	-	-	-	-	-	-	-	362,625	340,027
1,375,905	1,306,822	1,268,996	1,218,166	1,161,230	1,091,841	1,017,766	945,080	864,675	773,848	682,569
812,807	711,678	583,504	487,334	420,770	361,910	307,435	260,818	221,591	187,726	158,803
-	-	-	-	-	-	-	-	-	31	28
-	-	-	-	-	-	-	-	-	8	7
164,998	142,216	120,422	103,050	86,746	66,489	58,852	50,254	42,514	8,829	5,701

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5	4	4	3	3	2	2	2	2	1	1
28	28	28	28	28	28	28	28	28	28	28
34,543	36,189	38,665	37,943	37,584	13,939	13,802	13,349	11,297	2,618	1,611
1	1	1	1	1	1	1	1	1	1	1
5,614	5,736	5,758	5,753	5,688	2,085	2,156	2,177	1,900	452	292
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
111,430	98,965	86,066	75,502	64,987	51,068	45,811	39,827	33,424	7,343	4,863
5,614	5,736	5,758	5,753	5,688	2,085	2,156	2,177	1,900	452	292
40%	40%	39%	41%	43%	44%	46%	48%	50%	52%	55%
105,816	93,229	80,309	69,749	59,299	48,983	43,655	37,650	31,524	6,891	4,571
42,215	37,303	31,615	28,846	25,742	21,449	20,141	18,214	15,877	3,609	2,518
640	640	640	640	640	640	640	640	640	640	640
66	58	49	45	40	34	31	28	25	6	4
5	5	4	4	4	3	3	3	3	1	1

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3,200	3,200	2,560	2,560	2,560	1,920	1,920	1,920	1,920	640	640
63,602	55,926	48,694	40,903	33,558	27,534	23,513	19,436	15,648	3,282	2,053
640	640	640	640	640	640	640	640	640	640	640
99	87	76	64	52	43	37	30	24	5	3
7	6	6	5	4	4	3	3	3	1	1
4,480	3,840	3,840	3,200	2,560	2,560	1,920	1,920	1,920	640	640
5,614	5,736	5,758	5,753	5,688	2,085	2,156	2,177	1,900	452	292
2,240	2,295	2,267	2,379	2,469	913	995	1,053	957	237	161
80	80	80	80	80	80	80	80	80	80	80
28	29	28	30	31	11	12	13	12	3	2
3	3	3	3	3	2	2	2	2	1	1
240	240	240	240	240	160	160	160	160	80	80
3,374	3,441	3,491	3,374	3,219	1,172	1,161	1,124	943	215	131
80	80	80	80	80	80	80	80	80	80	80
42	43	44	42	40	15	15	14	12	3	2
4	4	4	4	4	2	2	2	2	1	1
320	320	320	320	320	160	160	160	160	80	80
8,240	7,600	6,960	6,320	5,680	4,800	4,160	4,160	4,160	1,440	1,440
2	2	2	2	2	2	2	2	2	2	2
3,060	3,881	7,295	15,728	31,584	58,613	102,566	169,033	261,873	383,383	533,127
2,404	1,475	705	353	142	61	43	26	22	17	13
398	1,099	2,364	5,359	8,538	14,291	19,335	29,333	42,014	56,603	72,323
199	1,099	3,546	8,038	17,075	28,582	48,338	73,332	105,036	141,508	180,807
1	1	4	7	4	92	347	987	2,676	7,076	14,596
0	1	6	10	8	183	867	2,468	6,689	17,690	36,490
39	102	268	785	1,939	5,135	9,610	17,968	30,125	45,854	65,400
20	102	402	1,177	3,878	10,270	24,026	44,920	75,312	114,635	163,499
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,530	1,940	3,647	7,864	15,792	29,307	51,283	84,516	130,937	191,692	266,563

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10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
1	1	1	2	4	6	11	17	27	39	54
-	-	-	-	-	-	-	-	-	-	-
1	1	1	2	4	6	11	17	27	39	54
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	2	4	6	11	17	27	39	54
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	2	2	4	8	12	22	34	54	78	108
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	2	3	5	7	9
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	2	2
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	4	6	10	14	18
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	4	4
3	4	5	5	6	6	7	7	7	7	7
6,655	15,505	23,653	28,968	45,703	67,213	103,981	148,453	210,636	293,901	397,161
-	-	-	-	-	-	-	-	-	-	-
62	74	88	100	112	124	136	148	160	160	191

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6	12	20	20	30	34	52	76	106	148	200
4	8	12	16	24	34	52	76	106	148	200
6,654.89	15,505.06	23,652.90	28,968.32	45,702.50	67,213.46	103,981.16	148,453.49	210,636.42	293,900.89	397,161.32
6	12	20	20	30	30	42	42	42	42	42
68	86	108	120	142	158	188	224	266	308	391
23	22	22	24	24	26	27	32	38	44	56
6	6	6	6	6	7	7	8	10	11	14
1	1	1	1	1	1	1	1	2	2	2
18	24	30	30	36	42	49	56	70	77	98
3	4	5	5	6	6	7	7	14	14	14
-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	1,890	1,800
-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	19	18
-	-	-	-	-	-	-	-	-	21	20

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-	-	-	-	-	-	-	-	-	11	10
-	-	-	-	-	-	-	-	-	11	10
-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	6	5
-	-	-	-	-	-	-	-	-	6	5
-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	11	10
-	-	-	-	-	-	-	-	-	6	5
-	-	-	-	-	-	-	-	-	190	181
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	1,890	1,800
-	-	-	-	-	-	-	-	-	19,895	18,952
-	-	-	-	-	-	-	-	-	40	40
-	-	-	-	-	-	-	-	-	497	474
-	-	-	-	-	-	-	-	-	29	27
-	-	-	-	-	-	-	-	-	1,160	1,080
-	-	-	-	-	-	-	-	-	19	18
-	-	-	-	-	-	-	-	-	19	18
-	-	-	-	-	-	-	-	-	19	18
-	-	-	-	-	-	-	-	-	2	2

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-	-	-	-	-	-	5	18	21	27	29
-	-	-	-	-	-	13	21	25	34	34

2,343,373	2,139,553	1,876,120	1,651,823	1,492,013	1,351,191	1,217,735	1,095,507	979,138	858,110	742,606
294,772	492,140	634,838	731,207	751,140	713,745	678,759	657,478	635,914	615,913	608,438
28	28	28	28	28	28	28	28	28	28	28
3	4	5	5	6	6	7	7	7	7	7
17,526,760	15,093,755	12,774,060	10,918,238	9,197,161	7,073,679	6,280,745	5,387,004	4,573,023	3,775,313	3,248,289
7	7	7	7	7	7	7	7	7	10	10
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

-	-	-	-	-	-	-	-	-	-	-
6	8	10	10	12	12	14	14	14	14	14
2	2	3	3	3	3	3	3	3	3	3
3	3	3	3	2	2	2	2	2	2	2

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2	2	2	2	2	2	2	2	2	2	2
7	7	7	7	7	7	7	7	7	9	9
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	1	1
5	5	5	5	5	5	5	5	5	6	6
28	28	28	28	28	28	28	28	28	28	28
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
21,869	18,693	15,683	13,275	11,032	8,323	7,348	6,266	5,363	589	367
528	528	528	528	528	528	528	528	528	528	528
756	756	756	756	756	756	756	756	756	756	756
528	528	528	528	528	528	528	528	528	528	528
41	35	30	25	21	16	14	12	10	1	1
2	2	2	2	2	1	1	1	1	1	1
1,056	**1,056**	**1,056**	**1,056**	**1,056**	**528**	**528**	**528**	**528**	**528**	**528**
61,694	73,449	72,350	56,629	60,398	73,271	74,385	77,935	71,108	70,487	78,262
1,056	1,056	1,056	1,056	1,056	528	528	528	528	528	528
61,694	73,449	72,350	56,629	60,398	73,271	74,385	77,935	71,108	70,487	78,262
6,655	15,505	23,653	28,968	45,703	67,213	103,981	148,453	210,636	293,901	397,161
-	-	-	-	-	-	-	-	-	-	-

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1,056	1,056	1,056	1,056	1,056	528	528	528	528	528	528
132	132	132	132	132	132	132	132	132	132	132
325	325	325	325	325	325	325	325	325	325	325
132	132	132	132	132	132	132	132	132	132	132
8	8	8	8	8	4	4	4	4	4	4
53	53	53	53	53	47	47	47	47	47	47
106	106	106	106	106	94	94	94	94	94	94
30,124	35,864	35,327	27,651	29,491	35,777	36,321	38,054	34,721	34,417	38,214
STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64	STM-64
8	9	9	7	8	9	10	10	9	9	10
208	234	234	182	208	234	260	260	234	234	260
208	**234**	**234**	**182**	**208**	**234**	**260**	**260**	**234**	**234**	**260**
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
208	234	234	182	208	234	260	260	234	234	260

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131	131	131	131	131	131	131	131	131	131	131
26	26	26	26	26	26	26	26	26	26	26
3	4	5	5	6	6	7	7	7	7	7
3	4	5	5	6	6	7	7	14	14	14
1	1	1	1	1	1	1	1	2	2	2
6	12	20	20	30	30	42	42	182	182	182
-	-	-	-	-	-	-	-	14	14	14
6	12	20	20	30	30	42	42	168	168	168
2	3	4	4	5	5	6	6	13	13	13
-	-	-	-	-	-	-	-	1	1	1
2	3	4	4	5	5	6	6	12	12	12
6,655	15,505	23,653	28,968	45,703	67,213	103,981	148,453	210,636	293,901	397,161
-	-	-	-	-	-	-	-	16,203	22,608	30,551
6,655	15,505	23,653	28,968	45,703	67,213	103,981	148,453	194,434	271,293	366,610
-	-	-	-	-	-	-	-	1	1	1
1	1	1	1	1	1	1	1	1	1	1
6	12	20	20	30	30	42	42	42	42	42
1	1	1	1	1	1	1	1	4	4	4
6	12	20	20	30	30	42	42	168	168	168
12	24	40	40	60	60	84	84	84	84	84
107	107	107	107	107	107	107	107	107	107	107

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3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
2	4	6	7	9	13	17	23	30	41	54
8	16	22	26	37	53	75	103	142	196	261
18	36	49	57	79	110	152	203	276	375	498
35	70	97	114	161	227	316	429	587	805	1,072
66	135	188	222	316	447	630	861	1,186	1,637	2,181
136	230	271	275	344	429	540	664	830	1,052	1,300
4	10	10	10	10	20	20	50	50	50	100
10	20	50	50	50	100	100	150	150	300	300
20	50	50	100	100	150	300	300	300	450	600
50	100	100	150	300	300	450	450	600	1,000	1,000
100	150	300	300	450	450	1,000	1,000	1,000	1,000	1,000
150	300	300	300	450	450	600	1,000	1,000	#N/A	#N/A
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
145	302	435	541	820	1,216	1,826	2,619	3,728	5,225	7,063

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2,218	3,876	4,731	5,794	7,617	11,202	14,854	21,208	30,091	41,986	56,737
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
19	19	19	19	19	19	19	19	19	19	19
-	-	-	-	-	-	-	-	-	-	-
4,668	4,659	4,522	4,513	4,249	4,112	4,112	4,103	4,103	4,094	3,091
1,376	1,660	1,935	2,211	2,486	2,761	3,036	3,036	3,036	3,036	2,170
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	1,422	1,908
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
46,680	46,590	45,220	45,130	42,490	41,120	41,120	41,030	41,030	40,940	30,910
26,620	28,041	29,417	30,793	32,169	33,545	34,921	34,921	34,921	42,031	40,129
64%	62%	61%	59%	57%	55%	54%	54%	54%	49%	44%

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36%	38%	39%	41%	43%	45%	46%	46%	46%	51%	56%
163	163	163	163	163	163	163	163	163	163	163
29	35	42	48	54	60	66	72	78	78	78
163	163	163	163	163	163	163	163	163	163	163
3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260
3,840	3,960	4,100	4,220	4,340	4,460	4,580	4,700	4,820	4,820	4,820
46%	45%	44%	44%	43%	42%	42%	41%	40%	40%	40%
54%	55%	56%	56%	57%	58%	58%	59%	60%	60%	60%
28	28	28	28	28	28	28	28	28	28	28
3	4	5	5	6	6	7	7	14	14	14
28	28	28	28	28	28	28	28	28	28	28
280	280	280	280	280	280	280	280	280	280	280
340	360	380	380	400	400	420	420	560	560	560
45%	44%	42%	42%	41%	41%	40%	40%	33%	33%	33%
55%	56%	58%	58%	59%	59%	60%	60%	67%	67%	67%
4,668	4,659	4,522	4,513	4,249	4,112	4,112	4,103	4,103	4,094	3,091
1,376	1,660	1,935	2,211	2,486	2,761	3,036	3,036	3,036	3,036	2,170
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	1,422	1,908
513	513	513	513	513	513	513	513	513	1,315	513
147	176	206	235	264	294	323	352	382	411	441
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
6,498	6,485	6,295	6,282	5,915	5,724	5,724	5,711	5,711	5,699	4,303
5,934	6,382	6,818	7,252	7,687	8,122	8,556	8,578	8,601	10,906	10,207
52%	50%	48%	46%	43%	41%	40%	40%	40%	34%	30%
52%	50%	48%	46%	43%	41%	40%	40%	40%	34%	30%
52%	50%	48%	46%	43%	41%	40%	40%	40%	34%	30%
48%	50%	52%	54%	57%	59%	60%	60%	60%	66%	70%
149,376,000	149,088,000	144,704,000	144,416,000	135,968,000	131,584,000	131,584,000	131,296,000	131,296,000	131,008,000	98,912,000
111,153,642	116,513,378	121,726,909	126,928,177	132,129,444	137,342,976	142,544,243	142,899,899	143,267,819	170,066,586	162,329,711
57%	56%	54%	53%	51%	49%	48%	48%	48%	44%	38%
57%	56%	54%	53%	51%	49%	48%	48%	48%	44%	38%
57%	56%	54%	53%	51%	49%	48%	48%	48%	44%	38%

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43%	44%	46%	47%	49%	51%	52%	52%	52%	56%	62%
163	163	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	2	4
29	35	42	48	54	60	66	72	78	78	78
163	163	163	163	163	163	163	163	163	163	163
535	535	535	535	535	535	535	535	535	535	535
378	383	388	392	397	401	406	410	415	416	418
59%	58%	58%	58%	57%	57%	57%	57%	56%	56%	56%
59%	58%	58%	58%	57%	57%	57%	57%	56%	56%	56%
59%	58%	58%	58%	57%	57%	57%	57%	56%	56%	56%
41%	42%	42%	42%	43%	43%	43%	43%	44%	44%	44%
13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000
9,592,323	9,665,907	9,751,755	9,825,339	9,898,923	9,972,507	10,046,091	10,119,675	10,193,259	10,217,787	10,242,315
59%	59%	59%	59%	58%	58%	58%	58%	58%	58%	57%
59%	59%	59%	59%	58%	58%	58%	58%	58%	58%	57%
59%	59%	59%	59%	58%	58%	58%	58%	58%	58%	57%
41%	41%	41%	41%	42%	42%	42%	42%	42%	42%	43%
4	4	4	4	4	4	4	4	4	4	4
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	6	5
-	-	-	-	-	-	-	-	-	3	2
-	-	-	-	-	-	-	-	-	19	18
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	28	28
3	4	5	5	6	6	7	7	14	14	14
28	28	28	28	28	28	28	28	28	28	28
166	166	166	166	166	166	166	166	166	166	166
94	96	97	97	99	99	100	100	111	304	295
64%	63%	63%	63%	63%	63%	62%	62%	60%	35%	36%
64%	63%	63%	63%	63%	63%	62%	62%	60%	35%	36%
64%	63%	63%	63%	63%	63%	62%	62%	60%	35%	36%
36%	37%	37%	37%	37%	37%	38%	38%	40%	65%	64%
3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000
2,090,125	2,102,389	2,114,653	2,114,653	2,126,917	2,126,917	2,139,181	2,139,181	2,225,029	2,911,813	2,875,021
62%	62%	62%	62%	62%	62%	62%	62%	61%	54%	55%
62%	62%	62%	62%	62%	62%	62%	62%	61%	54%	55%
62%	62%	62%	62%	62%	62%	62%	62%	61%	54%	55%
38%	38%	38%	38%	38%	38%	38%	38%	39%	46%	45%

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289,547,090	294,704,674	295,632,317	300,619,169	297,458,284	298,361,400	303,648,515	303,789,755	304,317,107	331,539,186	291,694,047
260,529,642	265,601,378	266,430,909	271,344,177	268,097,444	268,926,976	274,128,243	274,195,899	274,563,819	301,074,586	261,241,711
149,376,000	149,088,000	144,704,000	144,416,000	135,968,000	131,584,000	131,584,000	131,296,000	131,296,000	131,008,000	98,912,000
111,153,642	116,513,378	121,726,909	126,928,177	132,129,444	137,342,976	142,544,243	142,899,899	143,267,819	170,066,586	162,329,711
23,447,323	23,520,907	23,606,755	23,680,339	23,753,923	23,827,507	23,901,091	23,974,675	24,048,259	24,072,787	24,097,315
13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000	13,855,000
9,592,323	9,665,907	9,751,755	9,825,339	9,898,923	9,972,507	10,046,091	10,119,675	10,193,259	10,217,787	10,242,315
5,570,125	5,582,389	5,594,653	5,594,653	5,606,917	5,606,917	5,619,181	5,619,181	5,705,029	6,391,813	6,355,021
3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000	3,480,000
2,090,125	2,102,389	2,114,653	2,114,653	2,126,917	2,126,917	2,139,181	2,139,181	2,225,029	2,911,813	2,875,021
12,901,990	13,131,808	13,173,143	13,395,353	13,254,507	13,294,749	13,530,339	13,536,632	13,560,131	14,773,125	12,997,657
11,608,996	11,834,988	11,871,951	12,090,883	11,946,211	11,983,174	12,214,939	12,217,953	12,234,348	13,415,646	11,640,725
6,656,077	6,643,244	6,447,896	6,435,063	6,058,627	5,863,279	5,863,279	5,850,446	5,850,446	5,837,613	4,407,441
4,952,919	5,191,744	5,424,055	5,655,820	5,887,584	6,119,895	6,351,659	6,367,507	6,383,901	7,578,033	7,233,284
1,044,794	1,048,073	1,051,898	1,055,177	1,058,456	1,061,735	1,065,014	1,068,293	1,071,571	1,072,664	1,073,757
617,368	617,368	617,368	617,368	617,368	617,368	617,368	617,368	617,368	617,368	617,368
427,426	430,705	434,531	437,809	441,088	444,367	447,646	450,925	454,204	455,297	456,389
248,200	248,747	249,293	249,293	249,840	249,840	250,386	250,386	254,212	284,814	283,175
155,066	155,066	155,066	155,066	155,066	155,066	155,066	155,066	155,066	155,066	155,066
93,134	93,681	94,227	94,227	94,774	94,774	95,320	95,320	99,146	129,748	128,109
67,735,449	68,941,993	69,159,002	70,325,605	69,586,161	69,797,432	71,034,278	71,067,319	71,190,686	77,558,906	68,237,699
60,947,227	62,133,688	62,327,745	63,477,135	62,717,607	62,911,665	64,128,428	64,144,255	64,230,324	70,432,144	61,113,805
34,944,404	34,877,030	33,851,455	33,784,082	31,807,792	30,782,217	30,782,217	30,714,843	30,714,843	30,647,470	23,139,064
26,002,823	27,256,658	28,476,290	29,693,053	30,909,816	32,129,448	33,346,211	33,429,411	33,515,481	39,784,674	37,974,741
5,485,170	5,502,384	5,522,467	5,539,681	5,556,894	5,574,108	5,591,322	5,608,536	5,625,750	5,631,488	5,637,226
3,241,181	3,241,181	3,241,181	3,241,181	3,241,181	3,241,181	3,241,181	3,241,181	3,241,181	3,241,181	3,241,181
2,243,988	2,261,202	2,281,285	2,298,499	2,315,713	2,332,927	2,350,141	2,367,355	2,384,569	2,390,307	2,396,045
1,303,052	1,305,921	1,308,790	1,308,790	1,311,659	1,311,659	1,314,528	1,314,528	1,334,611	1,495,274	1,486,667
814,097	814,097	814,097	814,097	814,097	814,097	814,097	814,097	814,097	814,097	814,097
488,955	491,824	494,693	494,693	497,562	497,562	500,431	500,431	520,514	681,178	672,571
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

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0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
13,010,333	13,144,315	13,184,926	13,308,968	13,255,503	13,287,523	13,424,425	13,439,276	13,505,480	14,464,000	13,551,745
5,870,741	5,985,027	6,003,720	6,114,435	6,041,273	6,059,966	6,177,170	6,178,695	6,186,986	6,784,376	5,886,787
4,246,700	4,260,027	4,275,576	4,288,903	4,302,230	4,315,558	4,328,885	4,342,212	4,355,539	4,359,982	4,364,424
2,892,892	2,899,261	2,905,631	2,905,631	2,912,000	2,912,000	2,918,369	2,918,369	2,962,955	3,319,642	3,300,534
12,901,990	13,131,808	13,173,143	13,395,353	13,254,507	13,294,749	13,530,339	13,536,632	13,560,131	14,773,125	12,997,657
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
68,304,248	69,007,656	69,220,861	69,872,083	69,591,393	69,759,497	70,478,229	70,556,202	70,903,772	75,936,000	71,146,663
30,821,392	31,421,392	31,519,528	32,100,782	31,716,684	31,814,820	32,430,145	32,438,148	32,481,674	35,617,973	30,905,631
22,295,175	22,365,143	22,446,773	22,516,741	22,586,709	22,656,677	22,726,645	22,796,614	22,866,582	22,889,905	22,913,227
15,187,682	15,221,121	15,254,561	15,254,561	15,288,000	15,288,000	15,321,439	15,321,439	15,555,515	17,428,123	17,327,804
67,735,449	68,941,993	69,159,002	70,325,605	69,586,161	69,797,432	71,034,278	71,067,319	71,190,686	77,558,906	68,237,699
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%

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25	26	27	28	29	30	31	32	33	34	35
2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
3,410	1,582	-	-	-	-	-	-	-	-	-
3,347	1,554	-	-	-	-	-	-	-	-	-
201	92	-	-	-	-	-	-	-	-	-
3,410	1,582	-	-	-	-	-	-	-	-	-
3,378	1,568	-	-	-	-	-	-	-	-	-
3,353	1,581	-	-	-	-	-	-	-	-	-
171	78	-	-	-	-	-	-	-	-	-
2,957	1,424	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
744,047	943,202	1,157,386	1,367,152	1,588,578	1,809,036	2,016,526	2,207,310	2,378,192	2,527,097	2,653,428
1,250,487	1,595,245	1,961,256	2,322,939	2,702,952	3,081,330	3,437,387	3,764,706	4,057,810	4,313,159	4,529,744
520,888	664,498	817,092	967,836	1,126,241	1,283,955	1,432,361	1,568,785	1,690,945	1,797,368	1,887,635
744,013	943,174	1,157,358	1,367,128	1,588,554	1,809,012	2,016,503	2,207,287	2,378,169	2,527,074	2,653,405
1,250,844	1,595,584	1,961,576	2,323,243	2,703,247	3,081,620	3,437,674	3,764,994	4,058,102	4,313,455	4,530,047
1,248,209	1,593,283	1,959,204	2,321,082	2,701,137	3,079,559	3,435,650	3,762,994	4,056,114	4,311,470	4,528,057
-	-	-	-	-	-	-	-	-	-	-
2,009	1,895	1,717	1,465	1,259	1,076	923	799	700	622	559
1,742	1,706	1,558	1,389	1,237	1,105	997	912	848	801	768
-	-	-	-	-	-	-	-	-	-	-
1,742	1,706	1,558	1,389	1,237	1,105	997	912	848	801	768
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
32,403	27,911	29,692	27,079	26,702	26,267	25,925	25,692	25,565	25,530	25,570
2,009	1,895	1,717	1,465	1,259	1,076	923	799	700	622	559
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
53,871	25,167	-	-	-	-	-	-	-	-	-
53,470	24,991	-	-	-	-	-	-	-	-	-
54,950	26,046	-	-	-	-	-	-	-	-	-
868	386	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
52,738	24,991	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
321,718	310,257	284,531	248,718	217,670	190,291	167,591	149,375	135,131	124,168	115,752
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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3,948	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**	**3,948**
3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9

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4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
2,342	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2,342	-	-	-	-	-	-	-	-	-	-
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4,683	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-
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2,342	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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1,421	**671**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
1,421	671	-	-	-	-	-	-	-	-	-
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96,987	43,460	-	-	-	-	-	-	-	-	-
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2,841	1,342	-	-	-	-	-	-	-	-	-
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1,421	**671**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
1,421	671	-	-	-	-	-	-	-	-	-
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1,421	**671**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
1,421	671	-	-	-	-	-	-	-	-	-
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1,421	671	-	-	-	-	-	-	-	-	-
1,421	671	-	-	-	-	-	-	-	-	-
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1,499	2,249	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
45	39	34	29	25	21	17	15	12	10	9
201	177	153	130	110	93	78	66	55	46	39
444	390	338	288	244	206	173	145	122	102	87
1,097	965	836	711	602	510	428	359	301	253	215
2,785	2,450	2,122	1,805	1,529	1,294	1,087	910	763	643	546
2	2	2	2	2	1	1	1	1	1	1
5	5	4	4	3	3	3	2	2	2	2
11	10	8	7	6	6	5	4	4	3	3
25	22	19	17	14	12	10	9	8	7	6
62	55	48	41	35	29	25	21	18	15	13
11,940	12,728	12,796	12,213	11,055	7,747	7,191	6,307	6,152	5,733	5,587
48	45	42	38	33	29	25	21	17	13	10
239	227	211	189	167	146	125	105	85	67	51
450	427	396	355	313	275	236	197	159	125	96
975	924	857	769	678	596	510	426	345	272	207
1,990	1,887	1,750	1,569	1,385	1,216	1,041	869	705	555	423
2	2	2	2	2	2	2	1	1	1	1
6	6	6	5	5	4	4	3	3	2	2
11	10	10	9	8	7	6	5	4	4	3
22	21	20	18	16	14	12	10	9	7	6
45	42	39	35	31	28	24	20	16	13	10
11,859	12,939	14,283	13,271	12,715	11,712	11,156	7,146	6,718	5,979	5,560

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8	10	13	16	20	24	29	33	37	41	44
42	51	63	80	100	121	142	164	184	203	221
80	96	118	151	188	228	268	308	346	383	415
173	208	256	327	407	493	580	666	750	828	898
353	425	523	669	832	1,007	1,183	1,361	1,532	1,691	1,834
1	1	1	1	1	2	2	2	2	2	2
2	2	2	3	3	4	4	5	5	5	6
3	3	4	4	5	6	7	8	9	9	10
5	6	7	8	10	12	14	16	17	19	21
9	10	12	16	19	23	27	31	35	38	41
3,924	4,811	5,970	6,590	7,137	11,147	11,703	12,715	13,143	13,426	14,429
48	45	42	38	33	29	29	33	37	41	44
239	227	211	189	167	146	142	164	184	203	221
450	427	396	355	313	275	268	308	346	383	415
1,097	965	857	769	678	596	580	666	750	828	898
2,785	2,450	2,122	1,805	1,529	1,294	1,183	1,361	1,532	1,691	1,834
2	2	2	2	2	2	2	2	2	2	2
6	6	6	5	5	4	4	5	5	5	6
11	10	10	9	8	7	7	8	9	9	10
25	22	20	18	16	14	14	16	17	19	21
62	55	48	41	35	29	27	31	35	38	41
12,396	13,184	14,364	13,325	12,751	11,721	11,703	12,715	13,143	13,426	14,429
2	2	2	2	2	2	2	2	2	2	2
6	6	6	5	5	4	4	5	5	5	6
11	10	10	9	8	7	7	8	9	9	10
25	22	20	18	16	14	14	16	17	19	21

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62	55	48	41	35	29	27	31	35	38	41
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6	6	5	5	4	4	4	4	5	5	5
14	12	11	10	8	7	7	7	8	9	10
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1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
5	4	4	4	3	3	3	3	3	3	4
1,499	2,249	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
256	256	256	256	256	256	256	256	256	256	256
45	36	36	36	27	27	27	27	27	27	36
2,520	3,261	4,010	4,010	4,001	4,001	4,001	4,001	4,001	4,001	4,010
2,520	3,182	3,182	3,182	3,173	3,173	3,173	3,173	3,173	3,173	3,182
-	78	828	828	828	828	828	828	828	828	828
2,520	**3,261**	**4,010**	**4,010**	**4,001**	**4,001**	**4,001**	**4,001**	**4,001**	**4,001**	**4,010**
1,499	2,249	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
256	256	256	256	256	256	256	256	256	256	256
45	36	36	36	27	27	27	27	27	27	36
-	-	-	-	-	-	-	-	-	-	-
565	556	556	556	547	547	547	547	547	547	556
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
264	264	264	264	264	264	264	264	264	264	264
256	256	256	256	256	256	256	256	256	256	256
45	36	36	36	27	27	27	27	27	27	36

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1,955	2,705	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,499	2,249	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
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3,777	**3,777**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**
2,920	2,920	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
181	181	181	181	181	181	181	181	181	181	181
88	88	88	88	88	88	88	88	88	88	88
163	163	163	163	163	163	163	163	163	163	163
117	117	117	117	117	117	117	117	117	117	117
9	9	9	9	9	9	9	9	9	9	9
2,739	2,739	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817
368	368	368	368	368	368	368	368	368	368	368
101	101	101	101	101	101	101	101	101	101	101
11	11	11	11	11	11	11	11	11	11	11
-	-	-	-	-	-	-	-	-	-	-
2,009	1,895	1,717	1,465	1,259	1,076	923	799	700	622	559
709,635	913,395	1,125,977	1,338,608	1,560,617	1,781,693	1,989,677	2,180,819	2,351,926	2,500,945	2,627,299
-	-	-	-	-	-	-	-	-	-	-
32,403	27,911	29,692	27,079	26,702	26,267	25,925	25,692	25,565	25,530	25,570
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
214,276	270,901	332,171	391,934	455,151	518,089	577,328	631,802	680,597	723,121	759,203
155,381	197,447	242,461	286,699	333,313	379,723	423,401	463,559	499,524	530,861	557,445
170,493	216,088	265,143	313,174	363,882	414,368	461,885	505,576	544,709	578,810	607,741
178,342	226,316	277,778	328,261	381,506	434,520	484,415	530,292	571,381	607,185	637,560

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25,556	32,451	39,833	47,083	54,726	62,335	69,497	76,082	81,980	87,120	91,480
-	-	-	-	-	-	-	-	-	-	-
69	88	107	127	147	168	187	204	220	234	246
341	433	532	629	731	833	929	1,017	1,095	1,164	1,222
646	819	1,004	1,186	1,378	1,570	1,750	1,915	2,063	2,192	2,302
1,393	1,768	2,170	2,565	2,981	3,395	3,784	4,143	4,464	4,744	4,981
2,840	3,606	4,426	5,231	6,081	6,926	7,722	8,454	9,109	9,680	10,164
73	93	111	131	152	173	193	211	227	241	253
341	433	532	629	731	833	929	1,017	1,095	1,164	1,222
646	819	1,004	1,186	1,378	1,570	1,750	1,915	2,063	2,192	2,302
697	884	1,085	1,282	1,490	1,697	1,892	2,071	2,232	2,372	2,490
568	901	1,106	1,308	2,027	2,309	2,574	2,818	3,036	3,227	2,541
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1	-	-	-	-	-	-	-	-	-
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2	2	2	2	2	2	2	2	2	2	2
5	4	4	4	3	3	3	3	3	3	4

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1	1	1	1	1	1	1	1	1	1	1
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2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
6	5	5	5	4	4	4	4	4	4	5
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1	1	2	2	2	2	2	3	3	3	3
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-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
6	5	5	5	4	4	4	4	4	4	5
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
645.8	818.5	1,004.3	1,186.3	1,378.3	1,569.6	1,749.6	1,915.1	2,063.3	2,192.5	2,302.1
1,393.3	1,768.1	2,170.1	2,564.5	2,980.5	3,394.7	3,784.5	4,142.9	4,463.9	4,743.6	4,980.9
2,839.5	3,605.6	4,425.9	5,231.5	6,080.6	6,926.1	7,721.9	8,453.6	9,108.9	9,680.0	10,164.4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps

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2	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	2	2	2	2
1	1	2	2	2	2	2	3	3	3	3

-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	2	2	2	2
1	1	2	2	2	2	2	3	3	3	3

326	-	-	-	-	-	-	-	-	-	-
202	-	-	-	-	-	-	-	-	-	-
137	401	410	410	410	410	410	547	547	547	547

-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
4	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
6	5	5	5	4	4	4	4	4	4	5

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-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

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-	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	2	2	2	2
1	1	2	2	2	2	2	3	3	3	3

-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

1,494	957	957	957	948	948	948	948	948	948	957
401	401	401	401	401	401	401	401	401	401	401
137	401	410	410	410	410	410	547	547	547	547
137	401	401	401	401	401	401	401	401	401	401
401	401	401	401	401	401	401	401	401	401	401

-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
4	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
6	5	5	5	4	4	4	4	4	4	5

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-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

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-	-	-	-	-	-	-	-	-	-	-
-	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	2	2	2	2
1	1	2	2	2	2	2	3	3	3	3
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
437	235	235	235	235	235	235	235	235	235	235
112	112	112	112	112	112	112	112	112	112	112
202	-	-	-	-	-	-	-	-	-	-
11	112	112	112	112	112	112	123	123	123	123
11	112	112	112	112	112	112	112	112	112	112
112	112	112	112	112	112	112	112	112	112	112
470	**499**	**529**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**
558	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**
181	181	181	181	181	181	181	181	181	181	181
88	88	88	88	88	88	88	88	88	88	88
163	163	163	163	163	163	163	163	163	163	163
117	117	117	117	117	117	117	117	117	117	117
9	9	9	9	9	9	9	9	9	9	9

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744,047	943,202	1,157,386	1,367,152	1,588,578	1,809,036	2,016,526	2,207,310	2,378,192	2,527,097	2,653,428
-	-	-	-	-	-	-	-	-	-	-
1,421	671	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,955	2,705	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
326	-	-	-	-	-	-	-	-	-	-
202	-	-	-	-	-	-	-	-	-	-
137	401	410	410	410	410	410	547	547	547	547
1,583	1,890	2,188	2,450	2,847	3,242	3,614	3,956	4,262	4,529	4,755
744,047	943,202	1,157,386	1,367,152	1,588,578	1,809,036	2,016,526	2,207,310	2,378,192	2,527,097	2,653,428
10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
1	1	1	1	1	1	1	1	2	2	2
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
940	998	1,058	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
-	-	-	-	-	-	-	-	-	-	-
326	-	-	-	-	-	-	-	-	-	-
3,578	3,376	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,077	1,399	1,468	1,526	1,526	1,526	1,526	1,663	1,663	1,663	1,663
1	-	-	-	-	-	-	-	-	-	-
8	7	7	6	6	6	6	6	6	6	6
2	3	3	3	3	3	3	3	3	3	3

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3	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	1	1	1
1,410	998	1,058	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
3,578	3,376	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
940	998	1,058	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
470	499	529	558	558	558	558	558	558	558	558
1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315
24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528
20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
65	65	65	65	65	65	65	65	65	65	65
6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930
3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546
3,410	**1,582**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
919	427	-	-	-	-	-	-	-	-	-
610	283	-	-	-	-	-	-	-	-	-
780	362	-	-	-	-	-	-	-	-	-
934	433	-	-	-	-	-	-	-	-	-
167	77	-	-	-	-	-	-	-	-	-
2,342	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

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2,342	-	-	-	-	-	-	-	-	-	-
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0	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-
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2,342	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2,342	-	-	-	-	-	-	-	-	-	-
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7,480	-	-	-	-	-	-	-	-	-	-
2,556	-	-	-	-	-	-	-	-	-	-
1,315	-	-	-	-	-	-	-	-	-	-
1,736	-	-	-	-	-	-	-	-	-	-
1,651	-	-	-	-	-	-	-	-	-	-
222	-	-	-	-	-	-	-	-	-	-
129,096	-	-	-	-	-	-	-	-	-	-
52,581	-	-	-	-	-	-	-	-	-	-
18,302	-	-	-	-	-	-	-	-	-	-
21,511	-	-	-	-	-	-	-	-	-	-
30,449	-	-	-	-	-	-	-	-	-	-
6,253	-	-	-	-	-	-	-	-	-	-
2,342	-	-	-	-	-	-	-	-	-	-
7,480	-	-	-	-	-	-	-	-	-	-
129,096	-	-	-	-	-	-	-	-	-	-

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2,009	1,895	1,717	1,465	1,259	1,076	923	799	700	622	559
542	511	463	395	339	290	249	216	189	168	151
359	339	307	262	225	192	165	143	125	111	100
459	433	393	335	288	246	211	183	160	142	128
550	519	470	402	345	295	253	219	192	170	153
98	93	84	72	62	53	45	39	34	30	27
32,403	27,911	29,692	27,079	26,702	26,267	25,925	25,692	25,565	25,530	25,570
11,074	9,539	10,147	9,255	9,126	8,977	8,860	8,781	8,737	8,725	8,739
5,697	4,907	5,220	4,761	4,694	4,618	4,558	4,517	4,494	4,488	4,495
7,519	6,477	6,890	6,284	6,196	6,095	6,016	5,962	5,932	5,924	5,933
7,152	6,161	6,554	5,977	5,894	5,798	5,723	5,671	5,643	5,635	5,644
961	828	880	803	792	779	769	762	758	757	758
709,635	913,395	1,125,977	1,338,608	1,560,617	1,781,693	1,989,677	2,180,819	2,351,926	2,500,945	2,627,299
709,635	**913,395**	**1,125,977**	**1,338,608**	**1,560,617**	**1,781,693**	**1,989,677**	**2,180,819**	**2,351,926**	**2,500,945**	**2,627,299**
202,660	260,851	321,560	382,284	445,686	508,822	568,219	622,806	671,671	714,228	750,313
149,325	192,201	236,934	281,677	328,393	374,913	418,678	458,899	494,904	526,262	552,850
162,514	209,178	257,861	306,556	357,398	408,027	455,658	499,431	538,617	572,744	601,680
170,639	219,636	270,753	321,883	375,267	428,427	478,439	524,401	565,546	601,379	631,762
24,497	31,530	38,869	46,209	53,872	61,504	68,683	75,282	81,188	86,332	90,694
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2,125	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2,125	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
4,006	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2,319	-	-	-	-	-	-	-	-	-	-
996	-	-	-	-	-	-	-	-	-	-
613	-	-	-	-	-	-	-	-	-	-
78	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
62,191	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
44,576	-	-	-	-	-	-	-	-	-	-
11,377	-	-	-	-	-	-	-	-	-	-
5,271	-	-	-	-	-	-	-	-	-	-
966	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
25,022.79	-	-	-	-	-	-	-	-	-	-
6,041.68	-	-	-	-	-	-	-	-	-	-
2,873.12	-	-	-	-	-	-	-	-	-	-
509.71	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2,325	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2,325	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5,302	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2,507	-	-	-	-	-	-	-	-	-	-
1,190	-	-	-	-	-	-	-	-	-	-
1,182	-	-	-	-	-	-	-	-	-	-
424	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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81,638	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
48,767	-	-	-	-	-	-	-	-	-	-
14,750	-	-	-	-	-	-	-	-	-	-
11,688	-	-	-	-	-	-	-	-	-	-
6,434	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2,325	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
26	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5,302	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
64	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
19,968	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
87	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
14,700	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
101	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

938	**885**	**802**	**684**	**588**	**502**	**431**	**373**	**327**	**290**	**261**
491	464	420	358	308	263	226	196	171	152	137
269	254	230	196	168	144	124	107	94	83	75
143	135	122	104	89	76	66	57	50	44	40
35	33	30	26	22	19	16	14	12	11	10
-	-	-	-	-	-	-	-	-	-	-
356,919	**459,402**	**566,322**	**673,267**	**784,929**	**896,122**	**1,000,729**	**1,096,866**	**1,182,926**	**1,257,877**	**1,321,428**
183,884	236,683	291,768	346,866	404,394	461,680	515,574	565,103	609,441	648,056	680,797
111,646	143,703	177,148	210,601	245,529	280,311	313,032	343,104	370,024	393,469	413,348
50,511	65,014	80,145	95,280	111,082	126,818	141,622	155,227	167,406	178,013	187,007
10,879	14,002	17,261	20,521	23,924	27,313	30,501	33,431	36,054	38,339	40,276
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17,355	**14,949**	**15,903**	**14,504**	**14,302**	**14,068**	**13,886**	**13,761**	**13,693**	**13,674**	**13,695**
10,047	8,655	9,206	8,397	8,280	8,145	8,039	7,966	7,927	7,916	7,928
4,315	3,717	3,954	3,606	3,556	3,498	3,452	3,421	3,404	3,400	3,405
2,655	2,287	2,433	2,219	2,188	2,152	2,124	2,105	2,095	2,092	2,095
338	291	310	282	279	274	270	268	267	266	267
-	-	-	-	-	-	-	-	-	-	-
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1,071	**1,010**	**915**	**781**	**671**	**574**	**492**	**426**	**373**	**331**	**298**
50	47	43	37	31	27	23	20	17	16	14
91	86	78	66	57	49	42	36	32	28	25
317	299	271	231	198	170	145	126	110	98	88
515	486	440	376	323	276	237	205	180	159	143
98	93	84	72	62	53	45	39	34	30	27
352,717	**453,993**	**559,655**	**665,341**	**775,688**	**885,572**	**988,948**	**1,083,953**	**1,169,000**	**1,243,068**	**1,305,871**
18,776	24,168	29,792	35,418	41,292	47,142	52,645	57,702	62,230	66,173	69,516
37,679	48,498	59,786	71,076	82,864	94,602	105,646	115,795	124,880	132,792	139,502
112,004	144,164	177,716	211,276	246,316	281,209	314,036	344,204	371,211	394,730	414,673
159,761	205,634	253,492	301,362	351,343	401,114	447,938	490,970	529,492	563,040	591,487
24,497	31,530	38,869	46,209	53,872	61,504	68,683	75,282	81,188	86,332	90,694
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5,613	**4,835**	**5,143**	**4,691**	**4,626**	**4,550**	**4,491**	**4,451**	**4,429**	**4,423**	**4,429**
812	699	744	679	669	658	650	644	641	640	641
841	724	770	702	693	681	673	666	663	662	663
2,464	2,122	2,258	2,059	2,030	1,997	1,971	1,953	1,944	1,941	1,944
1,497	1,289	1,372	1,251	1,233	1,213	1,198	1,187	1,181	1,179	1,181
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8.6	-	-	-	-	-	-	-	-	-	-
16.4	-	-	-	-	-	-	-	-	-	-
28.4	-	-	-	-	-	-	-	-	-	-
46.3	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
E3	-	-	-	-	-	-	-	-	-	-
E3	-	-	-	-	-	-	-	-	-	-
STM-0	-	-	-	-	-	-	-	-	-	-
STM-1	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-
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3,859	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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3,646	-	-	-	-	-	-	-	-	-	-
202	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-
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7,718	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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7,292	-	-	-	-	-	-	-	-	-	-
404	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-
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14,700	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
101	-	-	-	-	-	-	-	-	-	-
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STM-1	-	-	-	-	-	-	-	-	-	-
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741	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
12	-	-	-	-	-	-	-	-	-	-
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741	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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10	-	-	-	-	-	-	-	-	-	-
349	-	-	-	-	-	-	-	-	-	-
362	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
390	419	449	478	478	478	478	478	478	478	478
470	499	529	558	558	558	558	558	558	558	558
80	80	80	80	80	80	80	80	80	80	80
17%	16%	15%	14%	14%	14%	14%	14%	14%	14%	14%

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82%	88%	94%	100%	100%	100%	100%	100%	100%	100%	100%
0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
159	171	183	194	194	194	194	194	194	194	194
-22	-22	-22	-22	-22	-22	-22	-22	-22	-22	-22
-780	-838	-898	-956	-956	-956	-956	-956	-956	-956	-956
780	838	898	956	956	956	956	956	956	956	956
-1,560	-1,676	-1,796	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912
-28	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32
318	342	366	388	388	388	388	388	388	388	388
163	163	163	163	163	163	163	163	163	163	163
17%	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%
135	135	135	135	135	135	135	135	135	135	135

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53,470	24,991	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-
3,378	1,568	-	-	-	-	-	-	-	-	-
3	2	-	-	-	-	-	-	-	-	-
163	-	-	-	-	-	-	-	-	-	-
163	-	-	-	-	-	-	-	-	-	-
163	-	-	-	-	-	-	-	-	-	-
163	-	-	-	-	-	-	-	-	-	-
80	80	80	80	80	80	80	80	80	80	80
74	74	74	74	74	74	74	74	74	74	74
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
1,250,487	1,595,245	1,961,256	2,322,939	2,702,952	3,081,330	3,437,387	3,764,706	4,057,810	4,313,159	4,529,744
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
940	998	1,058	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
870	923	979	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032
47	50	53	56	56	56	56	56	56	56	56
-	-	-	-	-	-	-	-	-	-	-
24	25	26	28	28	28	28	28	28	28	28
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6	6	6	6	6	6	6	6	6	6	6
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
142	184	-	-	-	-	-	-	-	-	-
-	-	58	68	80	90	100	110	118	126	132
251	320	393	465	541	617	688	753	812	863	906
232	296	364	430	500	571	636	697	751	798	838
13	16	20	23	27	31	34	38	41	43	45
-	-	-	-	-	-	-	-	-	-	-
6	8	10	12	14	15	17	19	20	22	23
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
251	320	393	465	541	617	688	753	812	863	906
1,250,487	1,595,245	1,961,256	2,322,939	2,702,952	3,081,330	3,437,387	3,764,706	4,057,810	4,313,159	4,529,744
160	160	160	160	160	160	160	160	160	160	160
-	-	-	-	-	-	-	-	-	-	-
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1,102	1,219	1,342	1,462	1,533	1,603	1,669	1,729	1,783	1,831	1,870
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
15	17	19	20	21	22	23	24	25	25	26
-	-	-	-	-	-	-	-	-	-	-
8	9	10	10	11	11	12	12	13	13	13
1	1	1	1	1	1	1	1	2	2	2
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
592	666	740	740	814	814	888	888	962	962	962
74	74	74	74	74	74	74	74	148	148	148
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
60	66	73	79	83	87	90	93	96	99	101
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
15	17	19	20	21	22	23	24	25	25	26
1	1	1	1	1	1	1	1	1	1	1
8	9	10	10	11	11	12	12	13	13	13
1	1	1	1	1	1	2	2	2	2	2
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
32	36	40	40	44	44	48	48	52	52	52

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4	4	4	4	4	4	8	8	8	8	8
-	-	-	-	-	-	-	-	-	-	-
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4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
172	217	36	40	41	43	45	47	48	49	51
-	-	58	68	80	90	100	110	118	126	132
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
86	109	19	20	21	22	23	24	25	25	26
-	-	29	34	40	45	50	55	59	63	66
1	1	1	1	1	1	1	1	1	1	1
43	55	10	10	11	11	12	12	13	13	13
-	-	15	17	20	23	25	28	30	32	33
4	5	3	3	3	3	4	4	4	4	4

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2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
86	110	20	20	22	22	24	24	26	26	26
-	-	30	34	40	46	50	56	60	64	66
8	10	6	6	6	6	8	8	8	8	8
6	6	6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-	-	-
710	812	800	800	880	880	960	960	1,040	1,040	1,040
-	-	30	34	40	46	50	56	60	64	66
78	78	108	112	118	124	132	138	216	220	222
6	6	6	6	6	6	6	6	6	6	6
2,009	1,895	1,717	1,465	1,259	1,076	923	799	700	622	559
6	6	6	6	6	6	6	6	6	6	6
2	1	1	1	1	1	1	1	1	1	1
6	6	6	6	6	6	6	6	6	6	6
201	190	172	147	126	108	93	80	71	63	56
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
6	6	6	6	6	6	6	6	6	6	6
6	6	6	6	6	6	6	6	6	6	6

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577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
3,347	1,554	-	-	-	-	-	-	-	-	-
652	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-
652	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
128,197	-	-	-	-	-	-	-	-	-	-
652	-	-	-	-	-	-	-	-	-	-
128,197	-	-	-	-	-	-	-	-	-	-
62,596	-	-	-	-	-	-	-	-	-	-
1,250,487	1,595,245	1,961,256	2,322,939	2,702,952	3,081,330	3,437,387	3,764,706	4,057,810	4,313,159	4,529,744
-	-	-	-	-	-	-	-	-	-	-
632	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
25.35	-	-	-	-	-	-	-	-	-	-
45.68	-	-	-	-	-	-	-	-	-	-
122,190	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
4,830.61	-	-	-	-	-	-	-	-	-	-
6,376.41	-	-	-	-	-	-	-	-	-	-

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60,310	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2,385.00	-	-	-	-	-	-	-	-	-	-
3,160.00	-	-	-	-	-	-	-	-	-	-
60,310	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2,385.00	-	-	-	-	-	-	-	-	-	-
3,160.00	-	-	-	-	-	-	-	-	-	-
STM-64	-	-	-	-	-	-	-	-	-	-
STM-64	-	-	-	-	-	-	-	-	-	-
431	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
17	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-
431	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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12	-	-	-	-	-	-	-	-	-	-
53	-	-	-	-	-	-	-	-	-	-
107	-	-	-	-	-	-	-	-	-	-
259	-	-	-	-	-	-	-	-	-	-
54	54	54	54	54	54	-	-	-	-	-
52	52	52	52	52	52	52	52	52	52	52
80	80	80	80	80	80	80	80	80	80	80
28	28	28	28	28	28	28	28	28	28	28
35%	35%	35%	35%	35%	35%	35%	35%	35%	35%	35%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

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1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
54	54	54	54	54	54	54	54	54	54	54
26	26	26	26	26	26	26	26	26	26	26
3	4	5	6	7	8	9	9	10	11	11
-	-	-	-	-	-	-	-	-	-	-
3	4	5	6	7	8	9	9	10	11	11
163	208	255	302	352	401	447	489	528	561	589
-	-	-	-	-	-	-	-	-	-	-
163	208	255	302	352	401	447	489	528	561	589
326.30	416.00	510.90	604.50	703	802.10	894.40	979	1,055.60	1,121.90	1,177.80
-	-	-	-	-	-	-	-	-	-	-
339	432	531	628	731	833	929	1,017	1,097	1,166	1,224
-	-	-	-	-	-	-	-	-	-	-
82	104	128	151	176	201	224	245	264	280	294
28	28	28	28	28	28	28	28	28	28	28
7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%
26	26	26	26	26	26	26	26	26	26	26

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52,738	24,991	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-
321,718	310,257	284,531	248,718	217,670	190,291	167,591	149,375	135,131	124,168	115,752
2	2	2	2	2	2	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
28	28	28	28	28	28	28	28	28	28	28
2,009	1,895	1,717	1,465	1,259	1,076	923	799	700	622	559
72	68	61	52	45	38	33	29	25	22	20
1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

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1	1	1	1	1	1	1	1	1	1	1
28	28	28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	28	28	28	28	28
321,718	310,257	284,531	248,718	217,670	190,291	167,591	149,375	135,131	124,168	115,752
2	2	2	2	2	2	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
723,103	612,493	518,651	443,567	382,257	322,872	271,559	228,776	194,114	166,671	145,324
723,104	612,493	518,652	443,567	382,257	322,872	271,560	228,777	194,114	166,671	145,325
321,718	310,257	284,531	248,718	217,670	190,291	167,591	149,375	135,131	124,168	115,752
321,719	310,258	284,531	248,719	217,670	190,291	167,591	149,375	135,132	124,168	115,752
595,407	512,904	437,784	371,824	319,080	274,145	234,448	200,550	172,427	149,658	131,582
127,696	99,589	80,867	71,743	63,177	48,726	37,111	28,226	21,687	17,012	13,742
24	21	18	15	13	11	10	9	7	6	6
6	4	4	3	3	2	2	2	1	1	1
3,353	1,581	-	-	-	-	-	-	-	-	-

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1	1	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-
868	386	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-
171	78	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2,957	1,424	-	-	-	-	-	-	-	-	-
171	78	-	-	-	-	-	-	-	-	-
59%	60%	-%	-%	-%	-%	-%	-%	-%	-%	-%
2,786	1,346	-	-	-	-	-	-	-	-	-
1,634	813	-	-	-	-	-	-	-	-	-
640	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-

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640	-	-	-	-	-	-	-	-	-	-
1,152	533	-	-	-	-	-	-	-	-	-
640	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-
640	-	-	-	-	-	-	-	-	-	-
171	78	-	-	-	-	-	-	-	-	-
100	47	-	-	-	-	-	-	-	-	-
80	80	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-
80	80	-	-	-	-	-	-	-	-	-
71	31	-	-	-	-	-	-	-	-	-
80	80	-	-	-	-	-	-	-	-	-
1	0	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-
80	80	-	-	-	-	-	-	-	-	-
1,440	160	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
709,644	913,395	1,125,977	1,338,608	1,560,617	1,781,693	1,989,677	2,180,819	2,351,926	2,500,945	2,627,299
9	-	-	-	-	-	-	-	-	-	-
89,220	105,438	117,046	121,249	119,679	114,322	104,078	90,598	75,598	60,587	46,693
223,051	263,596	292,616	303,121	299,197	285,805	260,196	226,495	188,996	151,467	116,733
23,471	37,364	60,065	91,232	131,285	178,731	232,511	289,874	347,547	402,397	451,974
58,677	93,409	150,162	228,079	328,213	446,829	581,279	724,686	868,868	1,005,992	1,129,936
90,062	118,168	144,597	169,979	194,926	216,002	231,889	242,619	248,834	251,572	251,989
225,154	295,420	361,492	424,948	487,316	540,005	579,723	606,547	622,084	628,930	629,974
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
354,822	456,698	562,989	669,304	780,308	890,847	994,839	1,090,410	1,175,963	1,250,472	1,313,650

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10Gbps	10Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps
71	92	29	34	40	45	50	55	59	63	66
-	-	-	-	-	-	-	-	-	-	-
71	92	-	-	-	-	-	-	-	-	-
-	-	29	34	40	45	50	55	59	63	66
-	-	-	-	-	-	-	-	-	-	-
71	92	-	-	-	-	-	-	-	-	-
-	-	29	34	40	45	50	55	59	63	66
-	-	-	-	-	-	-	-	-	-	-
142	184	-	-	-	-	-	-	-	-	-
-	-	58	68	80	90	100	110	118	126	132
-	-	-	-	-	-	-	-	-	-	-
12	16	-	-	-	-	-	-	-	-	-
-	-	5	6	7	8	9	10	10	11	11
2	3	1	1	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
24	32	-	-	-	-	-	-	-	-	-
-	-	10	12	14	16	18	20	20	22	22
4	6	2	2	4	4	4	4	4	4	4
7	7	7	7	7	7	7	7	7	7	7
520,888	664,498	817,092	967,836	1,126,241	1,283,955	1,432,361	1,568,785	1,690,945	1,797,368	1,887,635
-	-	-	-	-	-	-	-	-	-	-
251	320	393	465	541	617	688	753	812	863	906

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262	334	410	484	564	642	718	786	846	900	944
262	334	410	484	564	642	718	786	846	900	944
520,888.00	664,497.80	817,091.87	967,836.04	1,126,240.72	1,283,955.46	1,432,361.06	1,568,784.60	1,690,944.83	1,797,367.78	1,887,634.91
42	42	42	42	42	42	42	42	42	42	42
513	654	803	949	1,105	1,259	1,406	1,539	1,658	1,763	1,850
73	93	115	136	158	180	201	220	237	252	264
19	24	29	34	40	45	51	55	60	63	67
3	3	4	5	5	6	7	7	8	8	9
133	168	203	238	280	315	357	385	420	441	469
21	21	28	35	35	42	49	49	56	56	63
2	2	2	2	2	2	2	2	2	2	2
1,742	1,706	1,558	1,389	1,237	1,105	997	912	848	801	768
2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
18	17	16	14	13	12	11	10	9	9	9
20	19	18	16	15	14	13	12	11	11	11

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10	10	9	8	8	7	7	6	6	6	6
10	10	9	8	8	7	7	6	6	6	6
2	2	2	2	2	2	2	2	2	2	2
5	5	5	4	4	4	4	3	3	3	3
5	5	5	4	4	4	4	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2
10	10	9	8	8	7	7	6	6	6	6
5	5	5	4	4	4	4	3	3	3	3
175	171	156	139	124	111	100	92	85	81	77
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
1,742	1,706	1,558	1,389	1,237	1,105	997	912	848	801	768
18,340	17,954	16,401	14,618	13,018	11,635	10,496	9,600	8,925	8,433	8,081
40	40	40	40	40	40	40	40	40	40	40
459	449	410	365	325	291	262	240	223	211	202
27	26	24	22	19	18	16	15	14	13	13
1,080	1,040	960	880	760	720	640	600	560	520	520
18	17	16	14	13	12	11	10	9	9	9
18	17	16	14	13	12	11	10	9	9	9
18	17	16	14	13	12	11	10	9	9	9
2	2	2	2	2	2	2	2	2	2	2

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31	31	32	34	35	35	37	37	37	37	37
34	34	38	38	38	42	42	42	42	42	42
640,298	550,397	471,354	404,007	344,518	286,916	237,186	195,739	162,104	135,324	114,253
610,773	602,833	592,401	583,465	577,918	579,624	580,089	581,280	583,172	585,629	588,577
28	28	28	28	28	28	28	28	28	28	28
7	7	7	7	7	7	7	7	7	7	7
2,838,760	2,543,253	2,159,088	1,887,461	1,651,790	1,443,970	1,271,679	1,133,429	1,025,329	942,122	878,246
10	7	6	6	6	6	6	6	6	6	6
1	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
14	14	14	14	14	14	14	14	14	14	14
3	3	3	3	3	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2

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2	2	2	2	2	2	2	2	2	2	2
9	6	5	5	5	5	5	5	5	5	5
2	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
6	5	4	4	4	4	4	4	4	4	4
28	28	28	28	28	28	28	28	28	28	28

605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778

201	92	-	-	-	-	-	-	-	-	-
528	528	-	-	-	-	-	-	-	-	-
756	-	-	-	-	-	-	-	-	-	-
528	528	-	-	-	-	-	-	-	-	-
0	0	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-
528	**528**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
87,799	-	-	-	-	-	-	-	-	-	-
528	528	-	-	-	-	-	-	-	-	-
87,799	-	-	-	-	-	-	-	-	-	-
520,888	664,498	817,092	967,836	1,126,241	1,283,955	1,432,361	1,568,785	1,690,945	1,797,368	1,887,635
-	-	-	-	-	-	-	-	-	-	-

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528	528	-	-	-	-	-	-	-	-	-
132	132	-	-	-	-	-	-	-	-	-
325	325	-	-	-	-	-	-	-	-	-
132	132	-	-	-	-	-	-	-	-	-
4	4	-	-	-	-	-	-	-	-	-
47	47	-	-	-	-	-	-	-	-	-
94	94	-	-	-	-	-	-	-	-	-
42,871	-	-	-	-	-	-	-	-	-	-
STM-64	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-
286	-	-	-	-	-	-	-	-	-	-
286	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
286	-	-	-	-	-	-	-	-	-	-

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131	131	131	131	131	131	-	-	-	-	-
26	26	26	26	26	26	26	26	26	26	26
7	7	7	7	7	7	7	7	7	7	7
21	21	28	35	35	42	49	49	56	56	63
3	3	4	5	5	6	7	7	8	8	9
420	420	756	1,190	1,190	1,722	2,352	2,352	3,080	3,080	3,906
42	42	84	140	140	210	294	294	392	392	504
378	378	672	1,050	1,050	1,512	2,058	2,058	2,688	2,688	3,402
20	20	27	34	34	41	48	48	55	55	62
2	2	3	4	4	5	6	6	7	7	8
18	18	24	30	30	36	42	42	48	48	54
520,888	664,498	817,092	967,836	1,126,241	1,283,955	1,432,361	1,568,785	1,690,945	1,797,368	1,887,635
52,089	66,450	90,788	113,863	132,499	156,580	179,045	196,098	215,211	228,756	243,566
468,799	598,048	726,304	853,973	993,742	1,127,376	1,253,316	1,372,687	1,475,734	1,568,612	1,644,069
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
42	42	42	42	42	42	42	42	42	42	42
9	9	16	25	25	36	49	49	64	64	81
378	378	672	1,050	1,050	1,512	2,058	2,058	2,688	2,688	3,402
84	84	84	84	84	84	168	168	168	168	252
107	107	107	107	107	107	107	107	107	107	107

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3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
69	88	107	127	147	168	187	204	220	234	246
341	433	532	629	731	833	929	1,017	1,095	1,164	1,222
646	819	1,004	1,186	1,378	1,570	1,750	1,915	2,063	2,192	2,302
1,393	1,768	2,170	2,565	2,981	3,395	3,784	4,143	4,464	4,744	4,981
2,840	3,606	4,426	5,231	6,081	6,926	7,722	8,454	9,109	9,680	10,164
1,583	1,890	2,188	2,450	2,847	3,242	3,614	3,956	4,262	4,529	4,755
100	100	150	150	150	300	300	300	300	300	300
450	450	600	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
9,263	11,817	14,528	17,207	20,022	22,825	25,462	27,887	30,058	31,949	33,554

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-	-	-	-	-	-	-	-	-	-	-
74,413	94,928	116,727	138,262	160,892	183,422	204,623	224,112	241,564	256,767	269,662
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
19	19	19	19	19	19	19	19	19	19	19
-	-	-	-	-	-	-	-	-	-	-
2,342	-	-	-	-	-	-	-	-	-	-
1,421	671	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2,520	3,182	3,182	3,182	3,173	3,173	3,173	3,173	3,173	3,173	3,182
3,948	3,948	3,948	3,948	3,948	3,948	-	-	-	-	-
23,415	-	-	-	-	-	-	-	-	-	-
39,444	39,007	35,651	35,651	35,606	35,606	15,866	15,866	15,866	15,866	15,911
37%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%

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63%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
163	-	-	-	-	-	-	-	-	-	-
78	78	108	112	118	124	132	138	216	220	222
163	163	163	163	163	163	-	-	-	-	-
3,260	-	-	-	-	-	-	-	-	-	-
4,820	4,820	5,420	5,500	5,620	5,740	2,640	2,760	4,320	4,400	4,440
40%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
60%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
28	-	-	-	-	-	-	-	-	-	-
21	21	28	35	35	42	49	49	56	56	63
28	28	28	28	28	28	-	-	-	-	-
280	-	-	-	-	-	-	-	-	-	-
700	700	840	980	980	1,120	980	980	1,120	1,120	1,260
29%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
71%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
2,342	-	-	-	-	-	-	-	-	-	-
1,421	671	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2,520	3,182	3,182	3,182	3,173	3,173	3,173	3,173	3,173	3,173	3,182
513	513	513	513	513	513	513	513	513	513	513
470	499	529	558	558	558	558	558	558	558	558
3,948	3,948	3,948	3,948	3,948	3,948	-	-	-	-	-
3,259	-	-	-	-	-	-	-	-	-	-
10,023	9,914	8,930	8,952	8,938	8,938	5,274	5,274	5,274	5,274	5,288
25%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
25%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
25%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
74,928,000	-	-	-	-	-	-	-	-	-	-
160,273,125	159,091,638	147,641,337	147,996,993	147,838,524	147,838,524	63,614,524	63,614,524	63,614,524	63,614,524	63,772,993
32%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
32%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
32%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%

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68%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
163	-	-	-	-	-	-	-	-	-	-
6	6	6	6	6	6	6	6	6	6	6
78	78	108	112	118	124	132	138	216	220	222
163	163	163	163	163	163	-	-	-	-	-
535	-	-	-	-	-	-	-	-	-	-
419	419	442	445	449	454	104	108	167	170	171
56%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
56%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
56%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
44%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
13,855,000	-	-	-	-	-	-	-	-	-	-
10,266,843	10,266,843	10,634,763	10,683,819	10,757,403	10,830,987	1,692,432	1,766,016	2,722,608	2,771,664	2,796,192
57%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
57%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
57%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
43%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
4	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-
5	5	5	4	4	4	4	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2
18	17	16	14	13	12	11	10	9	9	9
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
28	28	28	28	28	28	28	28	28	28	28
21	21	28	35	35	42	49	49	56	56	63
28	28	28	28	28	28	-	-	-	-	-
166	-	-	-	-	-	-	-	-	-	-
305	298	301	295	288	291	204	196	199	199	209
35%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
35%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
35%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
65%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
3,480,000	-	-	-	-	-	-	-	-	-	-
2,960,869	2,948,605	3,022,189	3,071,245	3,058,981	3,132,565	1,152,816	1,128,288	1,201,872	1,201,872	1,287,720
54%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
54%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
54%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
46%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

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265,763,837	172,307,086	161,298,289	161,752,057	161,654,908	161,802,076	66,459,772	66,508,828	67,539,004	67,588,060	67,856,905
235,201,125	159,091,638	147,641,337	147,996,993	147,838,524	147,838,524	63,614,524	63,614,524	63,614,524	63,614,524	63,772,993
74,928,000	-	-	-	-	-	-	-	-	-	-
160,273,125	159,091,638	147,641,337	147,996,993	147,838,524	147,838,524	63,614,524	63,614,524	63,614,524	63,614,524	63,772,993
24,121,843	10,266,843	10,634,763	10,683,819	10,757,403	10,830,987	1,692,432	1,766,016	2,722,608	2,771,664	2,796,192
13,855,000	-	-	-	-	-	-	-	-	-	-
10,266,843	10,266,843	10,634,763	10,683,819	10,757,403	10,830,987	1,692,432	1,766,016	2,722,608	2,771,664	2,796,192
6,440,869	2,948,605	3,022,189	3,071,245	3,058,981	3,132,565	1,152,816	1,128,288	1,201,872	1,201,872	1,287,720
3,480,000	-	-	-	-	-	-	-	-	-	-
2,960,869	2,948,605	3,022,189	3,071,245	3,058,981	3,132,565	1,152,816	1,128,288	1,201,872	1,201,872	1,287,720
11,842,227	7,677,868	7,187,325	7,207,544	7,203,215	7,209,773	2,961,395	2,963,581	3,009,485	3,011,671	3,023,650
10,480,377	7,088,998	6,578,782	6,594,629	6,587,568	6,587,568	2,834,613	2,834,613	2,834,613	2,834,613	2,841,674
3,338,733	-	-	-	-	-	-	-	-	-	-
7,141,644	7,088,998	6,578,782	6,594,629	6,587,568	6,587,568	2,834,613	2,834,613	2,834,613	2,834,613	2,841,674
1,074,850	457,482	473,877	476,063	479,341	482,620	75,413	78,692	121,317	123,503	124,596
617,368	-	-	-	-	-	-	-	-	-	-
457,482	457,482	473,877	476,063	479,341	482,620	75,413	78,692	121,317	123,503	124,596
287,000	131,388	134,666	136,852	136,306	139,585	51,369	50,276	53,554	53,554	57,380
155,066	-	-	-	-	-	-	-	-	-	-
131,934	131,388	134,666	136,852	136,306	139,585	51,369	50,276	53,554	53,554	57,380
62,171,693	40,308,807	37,733,455	37,839,607	37,816,881	37,851,309	15,547,324	15,558,800	15,799,795	15,811,271	15,874,164
55,021,979	37,217,240	34,538,604	34,621,804	34,584,733	34,584,733	14,881,719	14,881,719	14,881,719	14,881,719	14,918,790
17,528,346	-	-	-	-	-	-	-	-	-	-
37,493,632	37,217,240	34,538,604	34,621,804	34,584,733	34,584,733	14,881,719	14,881,719	14,881,719	14,881,719	14,918,790
5,642,964	2,401,783	2,487,852	2,499,328	2,516,542	2,533,756	395,921	413,134	636,916	648,392	654,130
3,241,181	-	-	-	-	-	-	-	-	-	-
2,401,783	2,401,783	2,487,852	2,499,328	2,516,542	2,533,756	395,921	413,134	636,916	648,392	654,130
1,506,750	689,785	706,998	718,474	715,605	732,819	269,685	263,947	281,161	281,161	301,244
814,097	-	-	-	-	-	-	-	-	-	-
692,654	689,785	706,998	718,474	715,605	732,819	269,685	263,947	281,161	281,161	301,244
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	-	-	-	-	-	-	-	-	-	-
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	-	-	-	-	-	-	-	-	-	-
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	-	-	-	-	-	-	-	-	-	-
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

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0.23	-	-	-	-	-	-	-	-	-	-
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	-	-	-	-	-	-	-	-	-	-
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	-	-	-	-	-	-	-	-	-	-
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
13,013,978	6,975,829	6,822,663	6,865,040	6,868,427	6,919,970	2,338,734	2,339,322	2,550,793	2,559,678	2,612,278
5,299,992	3,584,950	3,326,931	3,334,945	3,331,374	3,331,374	1,433,481	1,433,481	1,433,481	1,433,481	1,437,052
4,368,867	1,859,496	1,926,132	1,935,017	1,948,344	1,961,672	306,528	319,855	493,110	501,994	506,437
3,345,120	1,531,383	1,569,600	1,595,077	1,588,708	1,626,924	598,725	585,986	624,202	624,202	668,788
11,842,227	7,677,868	7,187,325	7,207,544	7,203,215	7,209,773	2,961,395	2,963,581	3,009,485	3,011,671	3,023,650
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
68,323,387	36,623,105	35,818,979	36,041,458	36,059,239	36,329,844	12,278,352	12,281,442	13,391,666	13,438,311	13,714,457
27,824,957	18,820,990	17,466,387	17,508,462	17,489,715	17,489,715	7,525,778	7,525,778	7,525,778	7,525,778	7,544,525
22,936,550	9,762,353	10,112,195	10,158,840	10,228,808	10,298,777	1,609,270	1,679,238	2,588,825	2,635,471	2,658,793
17,561,880	8,039,762	8,240,398	8,374,156	8,340,716	8,541,353	3,143,305	3,076,426	3,277,063	3,277,063	3,511,139
62,171,693	40,308,807	37,733,455	37,839,607	37,816,881	37,851,309	15,547,324	15,558,800	15,799,795	15,811,271	15,874,164
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%

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36	37	38	39	40	41	42	43	44	45	46
2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036

2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2,758,071	2,843,214	2,912,003	2,968,000	3,014,440	3,054,061	3,089,023	3,120,830	3,150,532	3,178,753	3,205,814
4,709,096	4,854,984	4,972,812	5,068,693	5,148,180	5,215,972	5,275,775	5,330,168	5,380,955	5,429,203	5,475,464
1,962,385	2,023,188	2,072,298	2,112,261	2,145,391	2,173,647	2,198,573	2,221,243	2,242,411	2,262,520	2,281,801
2,758,048	2,843,190	2,911,980	2,967,977	3,014,416	3,054,037	3,088,999	3,120,805	3,150,508	3,178,729	3,205,790
4,709,405	4,855,299	4,973,132	5,069,018	5,148,507	5,216,301	5,276,105	5,330,498	5,381,284	5,429,533	5,475,793
4,707,406	4,853,288	4,971,108	5,066,979	5,146,455	5,214,235	5,274,027	5,328,407	5,379,182	5,427,419	5,473,668
-	-	-	-	-	-	-	-	-	-	-
509	469	437	411	390	373	360	349	340	333	327
743	725	710	697	686	675	665	656	647	639	632
-	-	-	-	-	-	-	-	-	-	-
743	725	710	697	686	675	665	656	647	639	632
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
25,667	25,806	25,972	26,155	26,347	26,542	26,737	26,931	27,121	27,308	27,492
509	469	437	411	390	373	360	349	340	333	327
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
8	7	6	5	5	4	4	4	4	4	4
34	29	26	23	21	19	18	17	17	16	16
75	65	57	51	46	43	40	38	37	36	35
185	160	141	126	114	105	99	94	90	88	86
469	407	358	320	290	268	251	238	229	223	219
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	1	1	1	1	1	1	1
3	2	2	2	2	2	2	2	2	2	2
5	5	4	4	4	3	3	3	3	3	3
11	10	9	8	7	7	6	6	6	6	6
5,441	5,168	5,031	5,022	4,557	4,429	4,420	4,420	4,420	4,420	4,420
8	5	4	2	2	1	1	0	0	0	0
38	27	18	12	8	5	3	2	1	0	0
71	50	34	23	14	9	5	3	2	1	0
153	109	74	49	31	19	11	6	3	2	1
312	222	152	100	63	39	23	13	7	4	2
1	1	1	1	1	1	1	1	1	1	1
2	2	1	1	1	1	1	1	1	1	1
3	2	2	1	1	1	1	1	1	1	1
4	3	3	2	2	1	1	1	1	1	1
8	6	4	3	2	2	1	1	1	1	1
5,286	4,876	4,402	4,001	3,992	3,864	3,855	3,855	3,855	3,855	3,855

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47	50	52	54	55	56	57	58	59	59	60
236	248	259	268	275	280	285	289	293	296	299
443	467	487	503	516	527	536	544	551	557	562
959	1,011	1,054	1,089	1,118	1,142	1,161	1,178	1,193	1,206	1,218
1,959	2,065	2,152	2,224	2,283	2,331	2,371	2,405	2,435	2,462	2,486
2	2	2	2	2	2	2	2	2	2	2
6	6	7	7	7	7	7	7	7	7	8
11	11	12	12	12	13	13	13	13	13	13
22	23	24	25	26	26	26	27	27	27	28
44	46	48	50	51	52	53	54	54	55	56
14,848	14,994	15,860	16,006	16,143	16,416	16,425	16,562	16,562	16,571	17,164

47	50	52	54	55	56	57	58	59	59	60
236	248	259	268	275	280	285	289	293	296	299
443	467	487	503	516	527	536	544	551	557	562
959	1,011	1,054	1,089	1,118	1,142	1,161	1,178	1,193	1,206	1,218
1,959	2,065	2,152	2,224	2,283	2,331	2,371	2,405	2,435	2,462	2,486
2	2	2	2	2	2	2	2	2	2	2
6	6	7	7	7	7	7	7	7	7	8
11	11	12	12	12	13	13	13	13	13	13
22	23	24	25	26	26	26	27	27	27	28
44	46	48	50	51	52	53	54	54	55	56
14,848	14,994	15,860	16,006	16,143	16,416	16,425	16,562	16,562	16,571	17,164

2	2	2	2	2	2	2	2	2	2	2
6	6	7	7	7	7	7	7	7	7	8
11	11	12	12	12	13	13	13	13	13	13
22	23	24	25	26	26	26	27	27	27	28

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44	46	48	50	51	52	53	54	54	55	56
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	3
3	3	3	3	3	4	4	4	4	4	4
6	6	6	6	6	6	6	7	7	7	7
10	11	11	11	12	12	12	12	12	12	13
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	2	2	2	2	2	2
2	2	2	2	2	2	2	3	3	3	3
4	4	4	4	4	4	4	4	4	4	5
2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	528	528	528	528	528	528
256	256	256	256	256	256	256	384	384	384	384
36	36	36	36	36	36	36	36	36	36	45
4,010	4,010	4,010	4,010	4,010	4,274	4,274	4,402	4,402	4,402	4,411
3,182	3,182	3,182	3,182	3,182	3,446	3,446	3,574	3,574	3,574	3,583
828	828	828	828	828	828	828	828	828	828	828
4,010	**4,010**	**4,010**	**4,010**	**4,010**	**4,274**	**4,274**	**4,402**	**4,402**	**4,402**	**4,411**
2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	528	528	528	528	528	528
256	256	256	256	256	256	256	384	384	384	384
36	36	36	36	36	36	36	36	36	36	45
-	-	-	-	-	-	-	-	-	-	-
556	556	556	556	556	820	820	948	948	948	957
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
264	264	264	264	264	528	528	528	528	528	528
256	256	256	256	256	256	256	384	384	384	384
36	36	36	36	36	36	36	36	36	36	45

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3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,855	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**
2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
181	181	181	181	181	181	181	181	181	181	181
88	88	88	88	88	88	88	88	88	88	88
163	163	163	163	163	163	163	163	163	163	163
117	117	117	117	117	117	117	117	117	117	117
9	9	9	9	9	9	9	9	9	9	9
2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817
368	368	368	368	368	368	368	368	368	368	368
101	101	101	101	101	101	101	101	101	101	101
11	11	11	11	11	11	11	11	11	11	11
-	-	-	-	-	-	-	-	-	-	-
509	469	437	411	390	373	360	349	340	333	327
2,731,894	2,816,938	2,885,594	2,941,435	2,987,703	3,027,146	3,061,926	3,093,550	3,123,071	3,151,113	3,177,995
-	-	-	-	-	-	-	-	-	-	-
25,667	25,806	25,972	26,155	26,347	26,542	26,737	26,931	27,121	27,308	27,492
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
789,093	813,417	833,072	849,074	862,348	873,674	883,670	892,764	901,258	909,328	917,067
579,463	597,375	611,846	623,623	633,389	641,720	649,071	655,758	662,001	667,934	673,622
631,706	651,205	666,959	679,784	690,419	699,494	707,501	714,786	721,588	728,052	734,250
662,718	683,188	699,725	713,185	724,348	733,871	742,274	749,917	757,056	763,838	770,341

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95,091	98,028	100,402	102,334	103,935	105,302	106,508	107,604	108,629	109,602	110,535
-	-	-	-	-	-	-	-	-	-	-
255	263	270	275	279	283	286	289	292	294	297
1,271	1,310	1,342	1,368	1,389	1,407	1,423	1,438	1,452	1,465	1,477
2,393	2,467	2,526	2,575	2,615	2,650	2,680	2,708	2,733	2,758	2,781
5,177	5,337	5,467	5,572	5,659	5,733	5,799	5,859	5,914	5,967	6,018
10,566	10,892	11,156	11,370	11,548	11,700	11,834	11,956	12,070	12,178	12,282
263	271	278	283	288	291	295	298	301	303	306
1,271	1,310	1,342	1,368	1,389	1,407	1,423	1,438	1,452	1,465	1,477
2,393	2,467	2,526	2,575	2,615	1,325	1,340	1,354	1,367	1,379	1,391
2,589	2,669	2,733	2,786	2,829	2,867	2,900	1,953	1,971	1,989	2,006
2,641	2,723	2,789	2,843	2,887	2,925	2,959	2,989	3,017	3,044	2,456
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	2	2	2	2	2	2
2	2	2	2	2	2	2	3	3	3	3
4	4	4	4	4	4	4	4	4	4	5

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1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
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3	3	3	3	3	3	3	4	4	4	4
5	5	5	5	5	5	5	5	5	5	6
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	3	3	3	3	3	3
3	3	3	3	3	3	3	4	4	4	4
5	5	5	5	5	5	5	5	5	5	6
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2,392.8	2,466.7	2,526.4	2,574.9	2,615.2	2,649.6	2,679.9	2,707.5	2,733.3	2,757.8	2,781.2
5,177.5	5,337.4	5,466.6	5,571.8	5,659.0	5,733.4	5,799.0	5,858.7	5,914.5	5,967.5	6,018.3
10,565.6	10,892.0	11,155.8	11,370.4	11,548.4	11,700.2	11,834.2	11,956.1	12,069.9	12,178.0	12,281.7
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
547	547	547	547	547	547	547	547	556	556	556
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	3	3	3	3	3	3
3	3	3	3	3	3	3	4	4	4	4
5	5	5	5	5	5	5	5	5	5	6
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
957	957	957	957	957	1,221	1,221	1,349	1,349	1,349	1,358
401	401	401	401	401	401	401	401	401	401	401
547	547	547	547	547	547	547	547	556	556	556
401	401	401	401	401	401	401	401	401	401	401
401	401	401	401	401	401	401	401	401	401	401
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	3	3	3	3	3	3
3	3	3	3	3	3	3	4	4	4	4
5	5	5	5	5	5	5	5	5	5	6
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
235	235	235	235	235	336	336	347	347	347	347
112	112	112	112	112	112	112	112	112	112	112
-	-	-	-	-	-	-	-	-	-	-
123	123	123	123	123	123	123	123	123	123	123
112	112	112	112	112	112	112	112	112	112	112
112	112	112	112	112	112	112	112	112	112	112
558	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**
558	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**
181	181	181	181	181	181	181	181	181	181	181
88	88	88	88	88	88	88	88	88	88	88
163	163	163	163	163	163	163	163	163	163	163
117	117	117	117	117	117	117	117	117	117	117
9	9	9	9	9	9	9	9	9	9	9

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2,758,071	2,843,214	2,912,003	2,968,000	3,014,440	3,054,061	3,089,023	3,120,830	3,150,532	3,178,753	3,205,814
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
547	547	547	547	547	547	547	547	556	556	556
4,943	5,095	5,219	5,319	5,402	5,473	5,536	5,593	5,646	5,697	5,745
2,758,071	2,843,214	2,912,003	2,968,000	3,014,440	3,054,061	3,089,023	3,120,830	3,150,532	3,178,753	3,205,814
10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,672	1,672	1,672
-	-	-	-	-	-	-	-	-	-	-
6	6	6	6	6	6	6	6	6	6	6
3	3	3	3	3	3	3	3	3	3	3

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2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	1	1	1
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
558	558	558	558	558	558	558	558	558	558	558
1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315
24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528
20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
65	65	65	65	65	65	65	65	65	65	65
6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930
3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546
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509	469	437	411	390	373	360	349	340	333	327
137	127	118	111	105	101	97	94	92	90	88
91	84	78	74	70	67	64	62	61	60	59
116	107	100	94	89	85	82	80	78	76	75
140	129	120	113	107	102	99	96	93	91	90
25	23	21	20	19	18	18	17	17	16	16
25,667	25,806	25,972	26,155	26,347	26,542	26,737	26,931	27,121	27,308	27,492
8,772	8,820	8,876	8,939	9,004	9,071	9,138	9,204	9,269	9,333	9,396
4,512	4,537	4,566	4,598	4,632	4,666	4,701	4,735	4,768	4,801	4,833
5,956	5,988	6,027	6,069	6,114	6,159	6,204	6,249	6,293	6,337	6,379
5,666	5,696	5,733	5,773	5,816	5,859	5,902	5,944	5,986	6,028	6,068
761	765	770	776	781	787	793	799	804	810	815
2,731,894	2,816,938	2,885,594	2,941,435	2,987,703	3,027,146	3,061,926	3,093,550	3,123,071	3,151,113	3,177,995
2,731,894	**2,816,938**	**2,885,594**	**2,941,435**	**2,987,703**	**3,027,146**	**3,061,926**	**3,093,550**	**3,123,071**	**3,151,113**	**3,177,995**
780,184	804,471	824,078	840,025	853,238	864,503	874,435	883,467	891,897	899,905	907,583
574,859	592,754	607,201	618,952	628,688	636,987	644,306	650,961	657,173	663,073	668,730
625,633	645,109	660,832	673,621	684,217	693,249	701,214	708,457	715,217	721,639	727,796
656,913	677,363	693,872	707,300	718,425	727,910	736,273	743,877	750,976	757,719	764,183
94,305	97,240	99,610	101,538	103,135	104,497	105,697	106,789	107,808	108,776	109,704
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238	**219**	**204**	**192**	**182**	**174**	**168**	**163**	**159**	**156**	**153**
125	115	107	100	95	91	88	85	83	81	80
68	63	58	55	52	50	48	47	46	45	44
36	33	31	29	28	27	26	25	24	24	23
9	8	8	7	7	7	6	6	6	6	6
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1,374,035	**1,416,809**	**1,451,340**	**1,479,426**	**1,502,697**	**1,522,535**	**1,540,028**	**1,555,934**	**1,570,782**	**1,584,886**	**1,598,407**
707,900	729,937	747,728	762,197	774,187	784,407	793,420	801,614	809,264	816,530	823,496
429,804	443,184	453,985	462,771	470,050	476,255	481,727	486,703	491,347	495,759	499,988
194,452	200,505	205,392	209,366	212,660	215,467	217,943	220,194	222,295	224,291	226,204
41,879	43,183	44,235	45,091	45,801	46,405	46,939	47,423	47,876	48,306	48,718
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13,747	**13,822**	**13,911**	**14,009**	**14,111**	**14,216**	**14,321**	**14,424**	**14,526**	**14,626**	**14,725**
7,959	8,002	8,053	8,110	8,169	8,230	8,291	8,350	8,409	8,467	8,524
3,418	3,436	3,458	3,483	3,508	3,534	3,560	3,586	3,611	3,636	3,661
2,103	2,115	2,128	2,143	2,159	2,175	2,191	2,207	2,222	2,238	2,253
268	269	271	273	275	277	279	281	283	285	287
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272	**250**	**233**	**219**	**208**	**199**	**192**	**186**	**181**	**178**	**174**
13	12	11	10	10	9	9	9	8	8	8
23	21	20	19	18	17	16	16	15	15	15
80	74	69	65	61	59	57	55	54	52	52
131	120	112	105	100	96	92	90	87	85	84
25	23	21	20	19	18	18	17	17	16	16
1,357,859	**1,400,129**	**1,434,254**	**1,462,009**	**1,485,006**	**1,504,611**	**1,521,898**	**1,537,616**	**1,552,289**	**1,566,227**	**1,579,589**
72,283	74,533	76,350	77,827	79,052	80,095	81,016	81,852	82,633	83,375	84,087
145,055	149,571	153,216	156,181	158,638	160,732	162,579	164,258	165,825	167,314	168,742
431,182	444,604	455,441	464,254	471,557	477,782	483,272	488,263	492,922	497,348	501,591
615,034	634,180	649,637	662,208	672,625	681,504	689,335	696,454	703,100	709,413	715,465
94,305	97,240	99,610	101,538	103,135	104,497	105,697	106,789	107,808	108,776	109,704
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4,446	**4,470**	**4,499**	**4,531**	**4,564**	**4,598**	**4,632**	**4,665**	**4,698**	**4,730**	**4,762**
643	647	651	655	660	665	670	675	680	684	689
666	669	674	678	683	689	694	699	704	708	713
1,952	1,962	1,975	1,989	2,003	2,018	2,033	2,048	2,062	2,076	2,090
1,186	1,192	1,200	1,208	1,217	1,226	1,235	1,244	1,253	1,261	1,270
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478	478	478	478	478	478	478	478	478	478	478
558	558	558	558	558	558	558	558	558	558	558
80	80	80	80	80	80	80	80	80	80	80
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0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
194	194	194	194	194	194	194	194	194	194	194
-222	-222	-222	-222	-222	-222	-222	-222	-222	-222	-222
-956	-956	-956	-956	-956	-956	-956	-956	-956	-956	-956
956	956	956	956	956	956	956	956	956	956	956
-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912
-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32
388	388	388	388	388	388	388	388	388	388	388
163	163	163	163	163	163	163	163	163	163	163
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135	135	135	135	135	135	135	135	135	135	135

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-	-	-	-	-	-	-	-	-	-	-
80	80	80	80	80	80	80	80	80	80	80
74	74	74	74	74	74	74	74	74	74	74
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
4,709,096	4,854,984	4,972,812	5,068,693	5,148,180	5,215,972	5,275,775	5,330,168	5,380,955	5,429,203	5,475,464
-	-	-	-	-	-	-	-	-	-	-
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1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032
56	56	56	56	56	56	56	56	56	56	56
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28	28	28	28	28	28	28	28	28	28	28
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138	142	146	148	150	152	154	156	158	158	160
942	971	995	1,014	1,030	1,044	1,056	1,067	1,077	1,086	1,096
871	898	920	938	953	966	977	987	996	1,005	1,014
47	49	50	51	52	52	53	53	54	54	55
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24	24	25	25	26	26	26	27	27	27	27
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942	971	995	1,014	1,030	1,044	1,056	1,067	1,077	1,086	1,096
4,709,096	4,854,984	4,972,812	5,068,693	5,148,180	5,215,972	5,275,775	5,330,168	5,380,955	5,429,203	5,475,464
160	160	160	160	160	160	160	160	160	160	160
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1,904	1,930	1,953	1,970	1,985	1,998	2,009	2,019	2,029	2,037	2,046
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26	27	27	27	27	27	28	28	28	28	28
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13	14	14	14	14	14	14	14	14	14	14
2	2	2	2	2	2	2	2	2	2	2
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962	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036
148	148	148	148	148	148	148	148	148	148	148
4	4	4	4	4	4	4	4	4	4	4
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103	104	106	107	107	108	109	109	110	110	111
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
26	27	27	27	27	27	28	28	28	28	28
1	1	1	1	1	1	1	1	1	1	1
13	14	14	14	14	14	14	14	14	14	14
2	2	2	2	2	2	2	2	2	2	2
4	4	4	4	4	4	4	4	4	4	4
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52	56	56	56	56	56	56	56	56	56	56

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51	52	53	53	54	54	54	55	55	55	55
138	142	146	148	150	152	154	156	158	158	160
2	2	2	2	2	2	2	2	2	2	2
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26	27	27	27	27	27	28	28	28	28	28
69	71	73	74	75	76	77	78	79	79	80
1	1	1	1	1	1	1	1	1	1	1
13	14	14	14	14	14	14	14	14	14	14
35	36	37	37	38	38	39	39	40	40	40
5	5	5	5	5	5	5	5	5	5	5

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26	28	28	28	28	28	28	28	28	28	28
70	72	74	74	76	76	78	78	80	80	80
10	10	10	10	10	10	10	10	10	10	10
6	6	6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-	-	-
1,040	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
70	72	74	74	76	76	78	78	80	80	80
226	228	230	230	232	232	234	234	236	236	236
6	6	6	6	6	6	6	6	6	6	6
509	469	437	411	390	373	360	349	340	333	327
6	6	6	6	6	6	6	6	6	6	6
1	1	1	1	1	1	1	1	1	1	1
6	6	6	6	6	6	6	6	6	6	6
51	47	44	42	39	38	36	35	35	34	33
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
6	6	6	6	6	6	6	6	6	6	6
6	6	6	6	6	6	6	6	6	6	6

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577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
4,709,096	4,854,984	4,972,812	5,068,693	5,148,180	5,215,972	5,275,775	5,330,168	5,380,955	5,429,203	5,475,464
-	-	-	-	-	-	-	-	-	-	-
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1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
54	54	54	54	54	54	54	54	54	54	54
26	26	26	26	26	26	26	26	26	26	26
12	12	12	13	13	13	13	13	13	14	14
-	-	-	-	-	-	-	-	-	-	-
12	12	12	13	13	13	13	13	13	14	14
612	631	647	659	670	679	686	694	700	706	712
-	-	-	-	-	-	-	-	-	-	-
612	631	647	659	670	679	686	694	700	706	712
1,224.60	1,262.30	1,293.50	1,318.20	1,339.00	1,357.20	1,372.80	1,387.10	1,400	1,411.80	1,424.80
-	-	-	-	-	-	-	-	-	-	-
1,272	1,311	1,344	1,369	1,391	1,410	1,426	1,441	1,454	1,467	1,480
-	-	-	-	-	-	-	-	-	-	-
306	316	323	330	335	339	343	347	350	353	356
28	28	28	28	28	28	28	28	28	28	28
7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%
26	26	26	26	26	26	26	26	26	26	26

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
109,222	104,053	99,867	96,414	93,527	91,094	89,031	87,266	85,742	84,407	83,218
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
28	28	28	28	28	28	28	28	28	28	28
509	469	437	411	390	373	360	349	340	333	327
18	17	16	15	14	13	13	12	12	12	12
1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

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1	1	1	1	1	1	1	1	1	1	1
28	28	28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	28	28	28	28	28
109,222	104,053	99,867	96,414	93,527	91,094	89,031	87,266	85,742	84,407	83,218
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
128,937	116,488	107,129	100,184	95,113	91,488	88,971	87,293	86,242	85,651	85,394
128,937	116,488	107,129	100,185	95,113	91,488	88,972	87,294	86,242	85,651	85,394
109,222	104,053	99,867	96,414	93,527	91,094	89,031	87,266	85,742	84,407	83,218
109,223	104,054	99,868	96,414	93,527	91,095	89,031	87,267	85,743	84,407	83,218
117,443	106,510	98,155	91,857	87,193	83,814	81,440	79,837	78,817	78,230	77,959
11,494	9,977	8,974	8,327	7,920	7,673	7,531	7,456	7,424	7,420	7,435
5	5	4	4	4	4	4	4	4	4	4
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
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-	-	-	-	-	-	-	-	-	-	-

40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps
69	71	73	74	75	76	77	78	79	79	80
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
69	71	73	74	75	76	77	78	79	79	80
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
69	71	73	74	75	76	77	78	79	79	80
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
138	142	146	148	150	152	154	156	158	158	160
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
12	12	13	13	13	13	13	13	14	14	14
2	2	3	3	3	3	3	3	3	3	3
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
24	24	26	26	26	26	26	26	28	28	28
4	4	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7
1,962,385	2,023,188	2,072,298	2,112,261	2,145,391	2,173,647	2,198,573	2,221,243	2,242,411	2,262,520	2,281,801
-	-	-	-	-	-	-	-	-	-	-
942	971	995	1,014	1,030	1,044	1,056	1,067	1,077	1,086	1,096

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982	1,012	1,038	1,058	1,074	1,088	1,100	1,112	1,122	1,132	1,142
982	1,012	1,038	1,058	1,074	1,088	1,100	1,112	1,122	1,132	1,142
1,962,384.74	2,023,188.07	2,072,297.67	2,112,260.61	2,145,390.73	2,173,646.79	2,198,572.86	2,221,243.37	2,242,410.85	2,262,520.09	2,281,800.66
42	42	42	42	42	42	42	42	42	42	42
1,924	1,983	2,033	2,072	2,104	2,132	2,156	2,179	2,199	2,218	2,238
275	283	290	296	301	305	308	311	314	317	320
69	71	73	74	76	77	77	78	79	80	80
9	9	10	10	10	10	10	10	10	10	10
483	497	511	518	532	539	539	546	553	560	560
63	63	70	70	70	70	70	70	70	70	70
2	2	2	2	2	2	2	2	2	2	2
743	725	710	697	686	675	665	656	647	639	632
2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
8	8	8	8	8	7	7	7	7	7	7
10	10	10	10	10	9	9	9	9	9	9

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5	5	5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5	5	5
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2
5	5	5	5	5	5	5	5	5	5	5
3	3	3	3	3	3	3	3	3	3	3
75	73	72	70	69	68	67	66	65	64	64
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
743	725	710	697	686	675	665	656	647	639	632
7,825	7,631	7,475	7,340	7,218	7,107	7,003	6,906	6,815	6,731	6,651
40	40	40	40	40	40	40	40	40	40	40
196	191	187	183	180	178	175	173	170	168	166
12	12	12	12	12	11	11	11	11	11	11
480	480	480	480	480	440	440	440	440	440	440
8	8	8	8	8	7	7	7	7	7	7
8	8	8	8	8	7	7	7	7	7	7
8	8	8	8	8	7	7	7	7	7	7
2	2	2	2	2	2	2	2	2	2	2

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37	37	37	37	37	37	37	37	37	37	37
42	42	42	42	42	42	42	42	42	42	42
97,774	84,926	74,945	67,241	61,353	56,918	53,637	51,263	49,593	48,458	47,726
592,038	596,070	600,710	605,944	611,700	617,816	624,115	630,442	636,673	642,737	648,592
28	28	28	28	28	28	28	28	28	28	28
7	7	7	7	7	7	7	7	7	7	7
828,684	789,446	757,673	731,453	709,538	691,072	675,409	662,018	650,449	640,314	631,293
6	6	6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
14	14	14	14	14	14	14	14	14	14	14
3	3	3	3	3	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2

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2	2	2	2	2	2	2	2	2	2	2
5	5	5	5	5	5	5	5	5	5	5
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1	1	1	1	1	1	1	1	1	1	1
4	4	4	4	4	4	4	4	4	4	4
28	28	28	28	28	28	28	28	28	28	28
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
-	-	-	-	-	-	-	-	-	-	-
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1,962,385	2,023,188	2,072,298	2,112,261	2,145,391	2,173,647	2,198,573	2,221,243	2,242,411	2,262,520	2,281,801
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26	26	26	26	26	26	26	26	26	26	26
7	7	7	7	7	7	7	7	7	7	7
63	63	70	70	70	70	70	70	70	70	70
9	9	10	10	10	10	10	10	10	10	10
3,906	3,906	4,830	4,830	4,830	4,830	4,830	4,830	4,830	4,830	4,830
504	504	630	630	630	630	630	630	630	630	630
3,402	3,402	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200
62	62	69	69	69	69	69	69	69	69	69
8	8	9	9	9	9	9	9	9	9	9
54	54	60	60	60	60	60	60	60	60	60
1,962,385	2,023,188	2,072,298	2,112,261	2,145,391	2,173,647	2,198,573	2,221,243	2,242,411	2,262,520	2,281,801
253,211	261,057	270,300	275,512	279,834	283,519	286,770	289,727	292,488	295,111	297,626
1,709,174	1,762,132	1,801,998	1,836,748	1,865,557	1,890,128	1,911,802	1,931,516	1,949,922	1,967,409	1,984,174
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
42	42	42	42	42	42	42	42	42	42	42
81	81	100	100	100	100	100	100	100	100	100
3,402	3,402	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200
252	252	252	252	252	252	252	252	252	252	252
107	107	107	107	107	107	107	107	107	107	107

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3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
255	263	270	275	279	283	286	289	292	294	297
1,271	1,310	1,342	1,368	1,389	1,407	1,423	1,438	1,452	1,465	1,477
2,393	2,467	2,526	2,575	2,615	2,650	2,680	2,708	2,733	2,758	2,781
5,177	5,337	5,467	5,572	5,659	5,733	5,799	5,859	5,914	5,967	6,018
10,566	10,892	11,156	11,370	11,548	11,700	11,834	11,956	12,070	12,178	12,282
4,943	5,095	5,219	5,319	5,402	5,473	5,536	5,593	5,646	5,697	5,745

300	300	300	300	300	300	300	300	300	300	300
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

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34,882	35,963	36,836	37,546	38,135	38,637	39,080	39,483	39,859	40,216	40,559

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280,341	289,027	296,043	301,752	306,484	310,521	314,082	317,320	320,344	323,217	325,972
-	-	-	-	-	-	-	-	-	-	-
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19	19	19	19	19	19	19	19	19	19	19
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,182	3,182	3,182	3,182	3,182	3,446	3,446	3,574	3,574	3,574	3,583
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
15,911	15,911	15,911	15,911	15,911	17,231	17,231	17,871	17,871	17,871	17,916
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226	228	230	230	232	232	234	234	236	236	236
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
4,520	4,560	4,600	4,600	4,640	4,640	4,680	4,680	4,720	4,720	4,720
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100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
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63	63	70	70	70	70	70	70	70	70	70
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,260	1,260	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
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100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
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-	-	-	-	-	-	-	-	-	-	-
3,182	3,182	3,182	3,182	3,182	3,446	3,446	3,574	3,574	3,574	3,583
513	513	513	513	513	513	513	513	513	513	513
558	558	558	558	558	558	558	558	558	558	558
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5,288	5,288	5,288	5,288	5,288	5,684	5,684	5,876	5,876	5,876	5,889
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100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
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63,772,993	63,772,993	63,772,993	63,772,993	63,772,993	68,421,399	68,421,399	70,675,172	70,675,172	70,675,172	70,833,640
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6	6	6	6	6	6	6	6	6	6	6
226	228	230	230	232	232	234	234	236	236	236
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
174	176	177	177	179	179	180	180	182	182	182
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2,845,248	2,869,776	2,894,304	2,894,304	2,918,832	2,918,832	2,943,360	2,943,360	2,967,888	2,967,888	2,967,888
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3	3	3	3	3	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2
8	8	8	8	8	7	7	7	7	7	7
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
28	28	28	28	28	28	28	28	28	28	28
63	63	70	70	70	70	70	70	70	70	70
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
202	202	212	212	212	205	205	205	205	205	205
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1,275,456	1,275,456	1,361,304	1,361,304	1,361,304	1,349,040	1,349,040	1,349,040	1,349,040	1,349,040	1,349,040
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67,893,697	67,918,225	68,028,601	68,028,601	68,053,129	72,689,271	72,713,799	74,967,572	74,992,100	74,992,100	75,150,568
63,772,993	63,772,993	63,772,993	63,772,993	63,772,993	68,421,399	68,421,399	70,675,172	70,675,172	70,675,172	70,833,640
-	-	-	-	-	-	-	-	-	-	-
63,772,993	63,772,993	63,772,993	63,772,993	63,772,993	68,421,399	68,421,399	70,675,172	70,675,172	70,675,172	70,833,640
2,845,248	2,869,776	2,894,304	2,894,304	2,918,832	2,918,832	2,943,360	2,943,360	2,967,888	2,967,888	2,967,888
-	-	-	-	-	-	-	-	-	-	-
2,845,248	2,869,776	2,894,304	2,894,304	2,918,832	2,918,832	2,943,360	2,943,360	2,967,888	2,967,888	2,967,888
1,275,456	1,275,456	1,361,304	1,361,304	1,361,304	1,349,040	1,349,040	1,349,040	1,349,040	1,349,040	1,349,040
-	-	-	-	-	-	-	-	-	-	-
1,275,456	1,275,456	1,361,304	1,361,304	1,361,304	1,349,040	1,349,040	1,349,040	1,349,040	1,349,040	1,349,040
3,025,290	3,026,383	3,031,301	3,031,301	3,032,394	3,238,977	3,240,070	3,340,496	3,341,589	3,341,589	3,348,650
2,841,674	2,841,674	2,841,674	2,841,674	2,841,674	3,048,804	3,048,804	3,149,230	3,149,230	3,149,230	3,156,291
-	-	-	-	-	-	-	-	-	-	-
2,841,674	2,841,674	2,841,674	2,841,674	2,841,674	3,048,804	3,048,804	3,149,230	3,149,230	3,149,230	3,156,291
126,782	127,875	128,968	128,968	130,061	130,061	131,154	131,154	132,247	132,247	132,247
-	-	-	-	-	-	-	-	-	-	-
126,782	127,875	128,968	128,968	130,061	130,061	131,154	131,154	132,247	132,247	132,247
56,833	56,833	60,659	60,659	60,659	60,112	60,112	60,112	60,112	60,112	60,112
-	-	-	-	-	-	-	-	-	-	-
56,833	56,833	60,659	60,659	60,659	60,112	60,112	60,112	60,112	60,112	60,112
15,882,771	15,888,509	15,914,330	15,914,330	15,920,068	17,004,627	17,010,365	17,537,604	17,543,342	17,543,342	17,580,413
14,918,790	14,918,790	14,918,790	14,918,790	14,918,790	16,006,219	16,006,219	16,533,457	16,533,457	16,533,457	16,570,529
-	-	-	-	-	-	-	-	-	-	-
14,918,790	14,918,790	14,918,790	14,918,790	14,918,790	16,006,219	16,006,219	16,533,457	16,533,457	16,533,457	16,570,529
665,606	671,344	677,082	677,082	682,819	682,819	688,557	688,557	694,295	694,295	694,295
-	-	-	-	-	-	-	-	-	-	-
665,606	671,344	677,082	677,082	682,819	682,819	688,557	688,557	694,295	694,295	694,295
298,375	298,375	318,458	318,458	318,458	315,589	315,589	315,589	315,589	315,589	315,589
-	-	-	-	-	-	-	-	-	-	-
298,375	298,375	318,458	318,458	318,458	315,589	315,589	315,589	315,589	315,589	315,589
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
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0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
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0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
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0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

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0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
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0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
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0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
2,614,793	2,619,235	2,668,264	2,668,264	2,672,706	2,771,083	2,775,526	2,826,312	2,830,754	2,830,754	2,834,325
1,437,052	1,437,052	1,437,052	1,437,052	1,437,052	1,541,799	1,541,799	1,592,585	1,592,585	1,592,585	1,596,156
515,322	519,764	524,207	524,207	528,649	528,649	533,091	533,091	537,534	537,534	537,534
662,419	662,419	707,005	707,005	707,005	700,635	700,635	700,635	700,635	700,635	700,635
3,025,290	3,026,383	3,031,301	3,031,301	3,032,394	3,238,977	3,240,070	3,340,496	3,341,589	3,341,589	3,348,650
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13,727,663	13,750,986	14,008,384	14,008,384	14,031,707	14,548,187	14,571,510	14,838,138	14,861,461	14,861,461	14,880,208
7,544,525	7,544,525	7,544,525	7,544,525	7,544,525	8,094,445	8,094,445	8,361,072	8,361,072	8,361,072	8,379,819
2,705,439	2,728,762	2,752,084	2,752,084	2,775,407	2,775,407	2,798,730	2,798,730	2,822,053	2,822,053	2,822,053
3,477,699	3,477,699	3,711,775	3,711,775	3,711,775	3,678,336	3,678,336	3,678,336	3,678,336	3,678,336	3,678,336
15,882,771	15,888,509	15,914,330	15,914,330	15,920,068	17,004,627	17,010,365	17,537,604	17,543,342	17,543,342	17,580,413
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47	48	49	50	51	52	53	54	55	56	57
2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047

2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
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3,231,871	3,257,028	3,281,324	3,304,758	3,327,319	3,349,072	3,370,188	3,390,644	3,410,517	3,430,086	3,449,398
5,520,004	5,563,005	5,604,530	5,644,579	5,683,133	5,720,305	5,756,388	5,791,340	5,825,293	5,858,727	5,891,721
2,300,364	2,318,286	2,335,592	2,352,283	2,368,352	2,383,844	2,398,882	2,413,449	2,427,601	2,441,535	2,455,286
3,231,846	3,257,004	3,281,299	3,304,733	3,327,293	3,349,046	3,370,163	3,390,619	3,410,491	3,430,060	3,449,372
5,520,332	5,563,333	5,604,856	5,644,905	5,683,459	5,720,629	5,756,711	5,791,662	5,825,615	5,859,048	5,892,041
5,518,196	5,561,186	5,602,699	5,642,737	5,681,281	5,718,441	5,754,513	5,789,455	5,823,398	5,856,822	5,889,805
-	-	-	-	-	-	-	-	-	-	-
322	318	314	310	306	303	300	297	294	291	288
625	618	611	605	598	592	586	580	575	569	563
-	-	-	-	-	-	-	-	-	-	-
625	618	611	605	598	592	586	580	575	569	563
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
27,673	27,852	28,028	28,201	28,371	28,538	28,703	28,865	29,025	29,183	29,341
322	318	314	310	306	303	300	297	294	291	288
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-	-	-	-	-	-	-	-	-	-	-
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2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
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4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
3	3	3	3	3	3	3	3	4	4	4
16	16	15	15	16	16	16	16	16	16	16
34	34	34	34	34	34	35	35	35	35	35
85	85	84	84	85	85	85	86	86	87	87
216	215	214	215	215	216	216	217	219	220	221
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
6	6	6	6	6	6	6	6	6	6	6
4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0
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1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855

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60	61	61	62	62	63	63	64	64	64	65
302	304	307	309	311	313	315	317	319	321	323
567	572	577	581	585	589	593	597	600	604	607
1,229	1,239	1,249	1,258	1,267	1,276	1,284	1,292	1,300	1,307	1,315
2,508	2,530	2,550	2,569	2,587	2,605	2,621	2,638	2,654	2,669	2,684
2	2	2	2	2	2	2	2	2	2	2
8	8	8	8	8	8	8	8	8	8	8
13	14	14	14	14	14	14	14	14	14	14
28	28	28	29	29	29	29	29	30	30	30
56	56	57	57	58	58	58	59	59	60	60
17,164	17,428	17,437	17,565	17,574	17,574	17,574	17,583	17,711	17,720	17,720

60	61	61	62	62	63	63	64	64	64	65
302	304	307	309	311	313	315	317	319	321	323
567	572	577	581	585	589	593	597	600	604	607
1,229	1,239	1,249	1,258	1,267	1,276	1,284	1,292	1,300	1,307	1,315
2,508	2,530	2,550	2,569	2,587	2,605	2,621	2,638	2,654	2,669	2,684
2	2	2	2	2	2	2	2	2	2	2
8	8	8	8	8	8	8	8	8	8	8
13	14	14	14	14	14	14	14	14	14	14
28	28	28	29	29	29	29	29	30	30	30
56	56	57	57	58	58	58	59	59	60	60
17,164	17,428	17,437	17,565	17,574	17,574	17,574	17,583	17,711	17,720	17,720

2	2	2	2	2	2	2	2	2	2	2
8	8	8	8	8	8	8	8	8	8	8
13	14	14	14	14	14	14	14	14	14	14
28	28	28	29	29	29	29	29	30	30	30

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56	56	57	57	58	58	58	59	59	60	60
1	1	1	1	1	1	1	1	1	1	1
3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4
7	7	7	7	7	7	7	7	7	7	7
13	13	13	13	13	13	13	13	13	13	13
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
5	5	5	5	5	5	5	5	5	5	5
2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
528	528	528	528	528	528	528	528	528	528	528
384	384	384	384	384	384	384	384	384	384	384
45	45	45	45	45	45	45	45	45	45	45
4,411	4,411	4,411	4,411	4,411	4,411	4,411	4,411	4,411	4,411	4,411
3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583
828	828	828	828	828	828	828	828	828	828	828
4,411	**4,411**	**4,411**	**4,411**	**4,411**	**4,411**	**4,411**	**4,411**	**4,411**	**4,411**	**4,411**
2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
528	528	528	528	528	528	528	528	528	528	528
384	384	384	384	384	384	384	384	384	384	384
45	45	45	45	45	45	45	45	45	45	45
-	-	-	-	-	-	-	-	-	-	-
957	957	957	957	957	957	957	957	957	957	957
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
528	528	528	528	528	528	528	528	528	528	528
384	384	384	384	384	384	384	384	384	384	384
45	45	45	45	45	45	45	45	45	45	45

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3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,855	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**	**3,855**
2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998	2,998
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
181	181	181	181	181	181	181	181	181	181	181
88	88	88	88	88	88	88	88	88	88	88
163	163	163	163	163	163	163	163	163	163	163
117	117	117	117	117	117	117	117	117	117	117
9	9	9	9	9	9	9	9	9	9	9
2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817
368	368	368	368	368	368	368	368	368	368	368
101	101	101	101	101	101	101	101	101	101	101
11	11	11	11	11	11	11	11	11	11	11
-	-	-	-	-	-	-	-	-	-	-
322	318	314	310	306	303	300	297	294	291	288
3,203,875	3,228,859	3,252,983	3,276,247	3,298,641	3,320,230	3,341,186	3,361,483	3,381,198	3,400,612	3,419,769
-	-	-	-	-	-	-	-	-	-	-
27,673	27,852	28,028	28,201	28,371	28,538	28,703	28,865	29,025	29,183	29,341
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
924,518	931,713	938,661	945,363	951,816	958,038	964,078	969,929	975,613	981,210	986,735
679,099	684,386	689,493	694,418	699,160	703,731	708,169	712,468	716,644	720,757	724,815
740,217	745,979	751,544	756,911	762,078	767,060	771,897	776,582	781,134	785,616	790,039
776,603	782,649	788,487	794,119	799,540	804,768	809,842	814,758	819,533	824,235	828,876

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111,434	112,301	113,139	113,947	114,725	115,475	116,203	116,908	117,593	118,268	118,934
-	-	-	-	-	-	-	-	-	-	-
299	301	304	306	308	310	312	314	316	317	319
1,489	1,501	1,512	1,523	1,533	1,543	1,553	1,562	1,572	1,581	1,590
2,804	2,826	2,847	2,867	2,887	2,906	2,924	2,942	2,959	2,976	2,993
6,067	6,114	6,160	6,204	6,246	6,287	6,327	6,365	6,403	6,439	6,476
12,382	12,478	12,571	12,661	12,747	12,831	12,911	12,990	13,066	13,141	13,215
308	311	313	315	317	320	322	324	325	327	329
1,489	1,501	1,512	1,523	1,533	1,543	1,553	1,562	1,572	1,581	1,590
1,402	1,413	1,423	1,434	1,443	1,453	1,462	1,471	1,479	1,488	1,496
2,022	2,038	2,053	2,068	2,082	2,096	2,109	2,122	2,134	2,146	2,159
2,476	2,496	2,514	2,532	2,549	2,566	2,582	2,598	2,613	2,628	2,643
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
5	5	5	5	5	5	5	5	5	5	5

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1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4
6	6	6	6	6	6	6	6	6	6	6
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4
6	6	6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2,803.9	2,825.7	2,846.8	2,867.1	2,886.7	2,905.5	2,923.9	2,941.6	2,958.8	2,975.8	2,992.6
6,067.2	6,114.4	6,160.1	6,204.1	6,246.4	6,287.2	6,326.9	6,365.3	6,402.6	6,439.3	6,475.6
12,381.5	12,477.9	12,571.0	12,660.8	12,747.2	12,830.5	12,911.4	12,989.8	13,065.9	13,140.9	13,214.9
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps

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-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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2	2	2	2	2	2	2	2	2	2	2
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
556	556	556	556	556	556	556	556	556	556	556
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4
6	6	6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

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-	-	-	-	-	-	-	-	-	-	-
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4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
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-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
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1,358	1,358	1,358	1,358	1,358	1,358	1,358	1,358	1,358	1,358	1,358
401	401	401	401	401	401	401	401	401	401	401
556	556	556	556	556	556	556	556	556	556	556
401	401	401	401	401	401	401	401	401	401	401
401	401	401	401	401	401	401	401	401	401	401
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4
6	6	6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

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-	-	-	-	-	-	-	-	-	-	-
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4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
347	347	347	347	347	347	347	347	347	347	347
112	112	112	112	112	112	112	112	112	112	112
-	-	-	-	-	-	-	-	-	-	-
123	123	123	123	123	123	123	123	123	123	123
112	112	112	112	112	112	112	112	112	112	112
112	112	112	112	112	112	112	112	112	112	112
558	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**
558	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**	**558**
181	181	181	181	181	181	181	181	181	181	181
88	88	88	88	88	88	88	88	88	88	88
163	163	163	163	163	163	163	163	163	163	163
117	117	117	117	117	117	117	117	117	117	117
9	9	9	9	9	9	9	9	9	9	9

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3,231,871	3,257,028	3,281,324	3,304,758	3,327,319	3,349,072	3,370,188	3,390,644	3,410,517	3,430,086	3,449,398
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
556	556	556	556	556	556	556	556	556	556	556
5,792	5,837	5,881	5,923	5,963	6,002	6,040	6,076	6,112	6,147	6,182
3,231,871	3,257,028	3,281,324	3,304,758	3,327,319	3,349,072	3,370,188	3,390,644	3,410,517	3,430,086	3,449,398
10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps	10Gbps
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
-	-	-	-	-	-	-	-	-	-	-
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3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,672	1,672	1,672	1,672	1,672	1,672	1,672	1,672	1,672	1,672	1,672
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6	6	6	6	6	6	6	6	6	6	6
3	3	3	3	3	3	3	3	3	3	3

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2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	1	1	1
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
558	558	558	558	558	558	558	558	558	558	558
1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315
24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528	24,528
20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802	20,802
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
65	65	65	65	65	65	65	65	65	65	65
6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930	6,930
3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546
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322	318	314	310	306	303	300	297	294	291	288
87	86	85	84	83	82	81	80	79	78	78
58	57	56	55	55	54	54	53	53	52	52
74	73	72	71	70	69	69	68	67	67	66
88	87	86	85	84	83	82	81	81	80	79
16	16	15	15	15	15	15	15	14	14	14
27,673	27,852	28,028	28,201	28,371	28,538	28,703	28,865	29,025	29,183	29,341
9,458	9,519	9,579	9,638	9,696	9,753	9,809	9,865	9,920	9,974	10,028
4,865	4,896	4,927	4,958	4,988	5,017	5,046	5,075	5,103	5,131	5,158
6,421	6,463	6,504	6,544	6,583	6,622	6,660	6,698	6,735	6,772	6,809
6,108	6,148	6,187	6,225	6,262	6,299	6,336	6,371	6,407	6,442	6,477
821	826	831	836	841	846	851	856	861	865	870
3,203,875	3,228,859	3,252,983	3,276,247	3,298,641	3,320,230	3,341,186	3,361,483	3,381,198	3,400,612	3,419,769
3,203,875	**3,228,859**	**3,252,983**	**3,276,247**	**3,298,641**	**3,320,230**	**3,341,186**	**3,361,483**	**3,381,198**	**3,400,612**	**3,419,769**
914,974	922,109	928,998	935,642	942,037	948,203	954,187	959,984	965,614	971,158	976,629
674,176	679,433	684,509	689,405	694,117	698,660	703,069	707,340	711,489	715,574	719,605
733,722	739,444	744,968	750,296	755,425	760,369	765,168	769,816	774,331	778,777	783,164
770,406	776,414	782,215	787,809	793,194	798,385	803,424	808,305	813,046	817,714	822,320
110,597	111,460	112,292	113,096	113,869	114,614	115,337	116,038	116,718	117,389	118,050
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150	**148**	**146**	**145**	**143**	**142**	**140**	**139**	**137**	**136**	**134**
79	78	77	76	75	74	73	73	72	71	70
43	42	42	41	41	41	40	40	39	39	39
23	23	22	22	22	22	21	21	21	21	20
6	6	5	5	5	5	5	5	5	5	5
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1,611,423	**1,623,989**	**1,636,122**	**1,647,823**	**1,659,087**	**1,669,945**	**1,680,485**	**1,690,693**	**1,700,610**	**1,710,374**	**1,720,009**
830,202	836,676	842,927	848,956	854,758	860,353	865,783	871,042	876,151	881,181	886,146
504,060	507,991	511,786	515,446	518,969	522,366	525,663	528,856	531,958	535,012	538,026
228,047	229,825	231,542	233,198	234,792	236,328	237,820	239,265	240,668	242,050	243,413
49,115	49,498	49,867	50,224	50,567	50,898	51,220	51,531	51,833	52,131	52,424
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14,822	**14,917**	**15,012**	**15,104**	**15,196**	**15,285**	**15,373**	**15,460**	**15,546**	**15,631**	**15,715**
8,581	8,636	8,691	8,744	8,797	8,849	8,900	8,950	9,000	9,049	9,098
3,685	3,709	3,732	3,755	3,778	3,800	3,822	3,844	3,865	3,886	3,907
2,268	2,282	2,297	2,311	2,325	2,338	2,352	2,365	2,378	2,391	2,404
289	291	292	294	296	298	299	301	303	304	306
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172	**169**	**167**	**165**	**163**	**162**	**160**	**158**	**157**	**155**	**154**
8	8	8	8	8	8	7	7	7	7	7
15	14	14	14	14	14	14	13	13	13	13
51	50	49	49	48	48	47	47	46	46	45
83	81	80	79	79	78	77	76	75	75	74
16	16	15	15	15	15	15	15	14	14	14
1,592,452	**1,604,870**	**1,616,860**	**1,628,424**	**1,639,555**	**1,650,285**	**1,660,701**	**1,670,789**	**1,680,589**	**1,690,238**	**1,699,760**
84,771	85,432	86,071	86,686	87,279	87,850	88,405	88,942	89,463	89,977	90,484
170,116	171,443	172,723	173,959	175,148	176,294	177,407	178,484	179,531	180,562	181,579
505,676	509,619	513,427	517,098	520,633	524,040	527,348	530,551	533,663	536,727	539,751
721,292	726,916	732,347	737,585	742,626	747,487	752,205	756,774	761,213	765,583	769,896
110,597	111,460	112,292	113,096	113,869	114,614	115,337	116,038	116,718	117,389	118,050
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4,794	**4,825**	**4,855**	**4,885**	**4,915**	**4,944**	**4,972**	**5,000**	**5,028**	**5,055**	**5,083**
693	698	702	707	711	715	719	723	727	731	735
718	722	727	732	736	740	745	749	753	757	761
2,104	2,118	2,131	2,144	2,157	2,170	2,182	2,195	2,207	2,219	2,231
1,278	1,287	1,295	1,303	1,311	1,318	1,326	1,333	1,341	1,348	1,355
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478	478	478	478	478	478	478	478	478	478	478
558	558	558	558	558	558	558	558	558	558	558
80	80	80	80	80	80	80	80	80	80	80
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100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
194	194	194	194	194	194	194	194	194	194	194
-222	-222	-222	-222	-222	-222	-222	-222	-222	-222	-222
-956	-956	-956	-956	-956	-956	-956	-956	-956	-956	-956
956	956	956	956	956	956	956	956	956	956	956
-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912	-1,912
-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32
388	388	388	388	388	388	388	388	388	388	388
163	163	163	163	163	163	163	163	163	163	163
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135	135	135	135	135	135	135	135	135	135	135

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80	80	80	80	80	80	80	80	80	80	80
74	74	74	74	74	74	74	74	74	74	74
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
5,520,004	5,563,005	5,604,530	5,644,579	5,683,133	5,720,305	5,756,388	5,791,340	5,825,293	5,858,727	5,891,721
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032
56	56	56	56	56	56	56	56	56	56	56
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28	28	28	28	28	28	28	28	28	28	28
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162	162	164	164	166	168	168	170	170	172	172
1,105	1,113	1,121	1,129	1,137	1,145	1,152	1,159	1,166	1,172	1,179
1,022	1,030	1,037	1,044	1,052	1,059	1,066	1,072	1,079	1,084	1,091
55	56	56	56	57	57	58	58	58	59	59
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28	28	28	28	28	29	29	29	29	29	29
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1,105	1,113	1,121	1,129	1,137	1,145	1,152	1,159	1,166	1,172	1,179
5,520,004	5,563,005	5,604,530	5,644,579	5,683,133	5,720,305	5,756,388	5,791,340	5,825,293	5,858,727	5,891,721
160	160	160	160	160	160	160	160	160	160	160
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2,054	2,062	2,069	2,077	2,084	2,091	2,098	2,104	2,111	2,116	2,123
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28	28	28	29	29	29	29	29	29	29	29
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14	14	14	15	15	15	15	15	15	15	15
2	2	2	2	2	2	2	2	2	2	2
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1,036	1,036	1,036	1,110	1,110	1,110	1,110	1,110	1,110	1,110	1,110
148	148	148	148	148	148	148	148	148	148	148
4	4	4	4	4	4	4	4	4	4	4
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111	111	112	112	113	113	113	114	114	114	115
1	1	1	1	1	1	1	1	1	1	1
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28	28	28	29	29	29	29	29	29	29	29
1	1	1	1	1	1	1	1	1	1	1
14	14	14	15	15	15	15	15	15	15	15
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4	4	4	4	4	4	4	4	4	4	4
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56	56	56	60	60	60	60	60	60	60	60

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28	28	28	30	30	30	30	30	30	30	30
82	82	82	82	84	84	84	86	86	86	86
10	10	10	10	10	10	10	10	10	10	10
6	6	6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-	-	-
1,120	1,120	1,120	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
82	82	82	82	84	84	84	86	86	86	86
238	238	238	238	240	240	240	242	242	242	242
6	6	6	6	6	6	6	6	6	6	6
322	318	314	310	306	303	300	297	294	291	288
6	6	6	6	6	6	6	6	6	6	6
1	1	1	1	1	1	1	1	1	1	1
6	6	6	6	6	6	6	6	6	6	6
33	32	32	31	31	31	30	30	30	30	29
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
6	6	6	6	6	6	6	6	6	6	6
6	6	6	6	6	6	6	6	6	6	6

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577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5,520,004	5,563,005	5,604,530	5,644,579	5,683,133	5,720,305	5,756,388	5,791,340	5,825,293	5,858,727	5,891,721
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
54	54	54	54	54	54	54	54	54	54	54
26	26	26	26	26	26	26	26	26	26	26
14	14	14	14	14	14	14	14	15	15	15
-	-	-	-	-	-	-	-	-	-	-
14	14	14	14	14	14	14	14	15	15	15
718	723	729	734	739	744	749	753	758	762	766
-	-	-	-	-	-	-	-	-	-	-
718	723	729	734	739	744	749	753	758	762	766
1,436.50	1,446.90	1,457.30	1,467.70	1,478.10	1,488.50	1,497.60	1,506.70	1,515.80	1,523.60	1,532.70
-	-	-	-	-	-	-	-	-	-	-
1,492	1,503	1,514	1,525	1,535	1,546	1,556	1,565	1,575	1,583	1,592
-	-	-	-	-	-	-	-	-	-	-
359	362	364	367	370	372	374	377	379	381	383
28	28	28	28	28	28	28	28	28	28	28
7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%
26	26	26	26	26	26	26	26	26	26	26

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
82,141	81,149	80,222	79,342	78,498	77,681	76,884	76,103	75,335	74,577	73,829
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
28	28	28	28	28	28	28	28	28	28	28
322	318	314	310	306	303	300	297	294	291	288
12	11	11	11	11	11	11	11	10	10	10
1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps	1Gbps
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1

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1	1	1	1	1	1	1	1	1	1	1
28	28	28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	28	28	28	28	28
82,141	81,149	80,222	79,342	78,498	77,681	76,884	76,103	75,335	74,577	73,829
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
85,374	85,523	85,787	86,129	86,521	86,945	87,390	87,846	88,308	88,776	89,249
85,375	85,523	85,787	86,129	86,521	86,945	87,391	87,847	88,308	88,777	89,250
82,141	81,149	80,222	79,342	78,498	77,681	76,884	76,103	75,335	74,577	73,829
82,142	81,150	80,222	79,343	78,498	77,681	76,884	76,103	75,335	74,578	73,830
77,914	78,029	78,255	78,557	78,907	79,289	79,692	80,106	80,525	80,952	81,383
7,461	7,494	7,532	7,572	7,614	7,656	7,698	7,741	7,782	7,824	7,867
4	4	4	4	4	4	4	4	4	4	4
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
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40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps	40Gbps
81	81	82	82	83	84	84	85	85	86	86
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
81	81	82	82	83	84	84	85	85	86	86
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
81	81	82	82	83	84	84	85	85	86	86
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
162	162	164	164	166	168	168	170	170	172	172
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
14	14	14	14	14	14	14	15	15	15	15
3	3	3	3	3	3	3	3	3	3	3
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
28	28	28	28	28	28	28	30	30	30	30
6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7
2,300,364	2,318,286	2,335,592	2,352,283	2,368,352	2,383,844	2,398,882	2,413,449	2,427,601	2,441,535	2,455,286
-	-	-	-	-	-	-	-	-	-	-
1,105	1,113	1,121	1,129	1,137	1,145	1,152	1,159	1,166	1,172	1,179

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1,152	1,160	1,168	1,178	1,186	1,192	1,200	1,208	1,214	1,222	1,228
1,152	1,160	1,168	1,178	1,186	1,192	1,200	1,208	1,214	1,222	1,228
2,300,363.89	2,318,285.56	2,335,591.87	2,352,283.35	2,368,351.83	2,383,843.97	2,398,882.40	2,413,449.49	2,427,600.62	2,441,535.11	2,455,286.24
42	42	42	42	42	42	42	42	42	42	42
2,257	2,273	2,289	2,307	2,323	2,337	2,352	2,367	2,380	2,394	2,407
322	325	327	330	332	334	336	338	340	342	344
81	82	82	83	83	84	84	85	85	86	86
11	11	11	11	11	11	11	11	11	11	11
567	574	574	581	581	588	588	595	595	602	602
77	77	77	77	77	77	77	77	77	77	77
2	2	2	2	2	2	2	2	2	2	2
625	618	611	605	598	592	586	580	575	569	563
2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
7	7	7	7	7	7	7	7	7	7	7
9	9	9	9	9	9	9	9	9	9	9

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5	5	5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5	5	5
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2
5	5	5	5	5	5	5	5	5	5	5
3	3	3	3	3	3	3	3	3	3	3
63	62	62	61	60	60	59	59	58	57	57
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	2	2
625	618	611	605	598	592	586	580	575	569	563
6,575	6,502	6,433	6,365	6,300	6,235	6,172	6,110	6,048	5,988	5,928
40	40	40	40	40	40	40	40	40	40	40
164	163	161	159	157	156	154	153	151	150	148
11	11	10	10	10	10	10	10	10	10	10
440	440	400	400	400	400	400	400	400	400	400
7	7	7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7	7	7
2	2	2	2	2	2	2	2	2	2	2

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37	37	37	37	39	39	39	39	39	39	39
42	42	42	42	42	42	42	42	42	42	42
47,290	47,070	47,005	47,049	47,168	47,337	47,540	47,764	48,000	48,246	48,499
654,218	659,609	664,779	669,741	674,502	679,069	683,461	687,718	691,838	695,838	699,776
28	28	28	28	28	28	28	28	28	28	28
7	7	7	7	7	7	7	7	7	7	7
623,123	615,600	608,562	601,887	595,484	589,284	583,239	577,314	571,487	565,740	560,065
6	6	6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
14	14	14	14	14	14	14	14	14	14	14
3	3	3	3	3	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2

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2	2	2	2	2	2	2	2	2	2	2
5	5	5	5	5	5	5	5	5	5	5
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1	1	1	1	1	1	1	1	1	1	1
4	4	4	4	4	4	4	4	4	4	4
28	28	28	28	28	28	28	28	28	28	28
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
-	-	-	-	-	-	-	-	-	-	-
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2,300,364	2,318,286	2,335,592	2,352,283	2,368,352	2,383,844	2,398,882	2,413,449	2,427,601	2,441,535	2,455,286
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26	26	26	26	26	26	26	26	26	26	26
7	7	7	7	7	7	7	7	7	7	7
77	77	77	77	77	77	77	77	77	77	77
11	11	11	11	11	11	11	11	11	11	11
5,852	5,852	5,852	5,852	5,852	5,852	5,852	5,852	5,852	5,852	5,852
770	770	770	770	770	770	770	770	770	770	770
5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082
76	76	76	76	76	76	76	76	76	76	76
10	10	10	10	10	10	10	10	10	10	10
66	66	66	66	66	66	66	66	66	66	66
2,300,364	2,318,286	2,335,592	2,352,283	2,368,352	2,383,844	2,398,882	2,413,449	2,427,601	2,441,535	2,455,286
302,679	305,038	307,315	309,511	311,625	313,664	315,642	317,559	319,421	321,255	323,064
1,997,684	2,013,248	2,028,277	2,042,772	2,056,727	2,070,180	2,083,240	2,095,890	2,108,179	2,120,280	2,132,222
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
42	42	42	42	42	42	42	42	42	42	42
121	121	121	121	121	121	121	121	121	121	121
5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082
336	336	336	336	336	336	336	336	336	336	336
107	107	107	107	107	107	107	107	107	107	107

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3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091	3,091
456	456	456	456	456	456	456	456	456	456	456
264	264	264	264	264	264	264	264	264	264	264
128	128	128	128	128	128	128	128	128	128	128
9	9	9	9	9	9	9	9	9	9	9
299	301	304	306	308	310	312	314	316	317	319
1,489	1,501	1,512	1,523	1,533	1,543	1,553	1,562	1,572	1,581	1,590
2,804	2,826	2,847	2,867	2,887	2,906	2,924	2,942	2,959	2,976	2,993
6,067	6,114	6,160	6,204	6,246	6,287	6,327	6,365	6,403	6,439	6,476
12,382	12,478	12,571	12,661	12,747	12,831	12,911	12,990	13,066	13,141	13,215
5,792	5,837	5,881	5,923	5,963	6,002	6,040	6,076	6,112	6,147	6,182
300	450	450	450	450	450	450	450	450	450	450
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
40,889	41,207	41,515	41,812	42,097	42,373	42,640	42,899	43,150	43,398	43,642

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-	-	-	-	-	-	-	-	-	-	-
328,623	331,184	333,656	336,040	338,336	340,549	342,697	344,778	346,800	348,791	350,755
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
19	19	19	19	19	19	19	19	19	19	19
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
17,916	17,916	17,916	17,916	17,916	17,916	17,916	17,916	17,916	17,916	17,916
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100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
-	-	-	-	-	-	-	-	-	-	-
238	238	238	238	240	240	240	242	242	242	242
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
4,760	4,760	4,760	4,760	4,800	4,800	4,800	4,840	4,840	4,840	4,840
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
-	-	-	-	-	-	-	-	-	-	-
77	77	77	77	77	77	77	77	77	77	77
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,540
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583
513	513	513	513	513	513	513	513	513	513	513
558	558	558	558	558	558	558	558	558	558	558
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5,889	5,889	5,889	5,889	5,889	5,889	5,889	5,889	5,889	5,889	5,889
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
-	-	-	-	-	-	-	-	-	-	-
70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
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-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%

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100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
-	-	-	-	-	-	-	-	-	-	-
6	6	6	6	6	6	6	6	6	6	6
238	238	238	238	240	240	240	242	242	242	242
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
183	183	183	183	185	185	185	186	186	186	186
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
-	-	-	-	-	-	-	-	-	-	-
2,992,416	2,992,416	2,992,416	2,992,416	3,016,944	3,016,944	3,016,944	3,041,472	3,041,472	3,041,472	3,041,472
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
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100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3	3	3	3	3	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2
7	7	7	7	7	7	7	7	7	7	7
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
28	28	28	28	28	28	28	28	28	28	28
77	77	77	77	77	77	77	77	77	77	77
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
215	215	215	215	215	215	215	215	215	215	215
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
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1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
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-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

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75,260,944	75,260,944	75,260,944	75,260,944	75,285,472	75,285,472	75,285,472	75,310,000	75,310,000	75,310,000	75,310,000
70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640
-	-	-	-	-	-	-	-	-	-	-
70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640	70,833,640
2,992,416	2,992,416	2,992,416	2,992,416	3,016,944	3,016,944	3,016,944	3,041,472	3,041,472	3,041,472	3,041,472
-	-	-	-	-	-	-	-	-	-	-
2,992,416	2,992,416	2,992,416	2,992,416	3,016,944	3,016,944	3,016,944	3,041,472	3,041,472	3,041,472	3,041,472
1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888
-	-	-	-	-	-	-	-	-	-	-
1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888	1,434,888
3,353,568	3,353,568	3,353,568	3,353,568	3,354,661	3,354,661	3,354,661	3,355,754	3,355,754	3,355,754	3,355,754
3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291
-	-	-	-	-	-	-	-	-	-	-
3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291	3,156,291
133,340	133,340	133,340	133,340	134,433	134,433	134,433	135,526	135,526	135,526	135,526
-	-	-	-	-	-	-	-	-	-	-
133,340	133,340	133,340	133,340	134,433	134,433	134,433	135,526	135,526	135,526	135,526
63,937	63,937	63,937	63,937	63,937	63,937	63,937	63,937	63,937	63,937	63,937
-	-	-	-	-	-	-	-	-	-	-
63,937	63,937	63,937	63,937	63,937	63,937	63,937	63,937	63,937	63,937	63,937
17,606,234	17,606,234	17,606,234	17,606,234	17,611,972	17,611,972	17,611,972	17,617,710	17,617,710	17,617,710	17,617,710
16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529
-	-	-	-	-	-	-	-	-	-	-
16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529	16,570,529
700,033	700,033	700,033	700,033	705,771	705,771	705,771	711,509	711,509	711,509	711,509
-	-	-	-	-	-	-	-	-	-	-
700,033	700,033	700,033	700,033	705,771	705,771	705,771	711,509	711,509	711,509	711,509
335,672	335,672	335,672	335,672	335,672	335,672	335,672	335,672	335,672	335,672	335,672
-	-	-	-	-	-	-	-	-	-	-
335,672	335,672	335,672	335,672	335,672	335,672	335,672	335,672	335,672	335,672	335,672
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
-	-	-	-	-	-	-	-	-	-	-
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
-	-	-	-	-	-	-	-	-	-	-
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
-	-	-	-	-	-	-	-	-	-	-
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

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0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
-	-	-	-	-	-	-	-	-	-	-
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
-	-	-	-	-	-	-	-	-	-	-
0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
2,883,354	2,883,354	2,883,354	2,883,354	2,887,796	2,887,796	2,887,796	2,892,238	2,892,238	2,892,238	2,892,238
1,596,156	1,596,156	1,596,156	1,596,156	1,596,156	1,596,156	1,596,156	1,596,156	1,596,156	1,596,156	1,596,156
541,976	541,976	541,976	541,976	546,419	546,419	546,419	550,861	550,861	550,861	550,861
745,221	745,221	745,221	745,221	745,221	745,221	745,221	745,221	745,221	745,221	745,221
3,353,568	3,353,568	3,353,568	3,353,568	3,354,661	3,354,661	3,354,661	3,355,754	3,355,754	3,355,754	3,355,754
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%
15,137,606	15,137,606	15,137,606	15,137,606	15,160,929	15,160,929	15,160,929	15,184,252	15,184,252	15,184,252	15,184,252
8,379,819	8,379,819	8,379,819	8,379,819	8,379,819	8,379,819	8,379,819	8,379,819	8,379,819	8,379,819	8,379,819
2,845,375	2,845,375	2,845,375	2,845,375	2,868,698	2,868,698	2,868,698	2,892,021	2,892,021	2,892,021	2,892,021
3,912,411	3,912,411	3,912,411	3,912,411	3,912,411	3,912,411	3,912,411	3,912,411	3,912,411	3,912,411	3,912,411
17,606,234	17,606,234	17,606,234	17,606,234	17,611,972	17,611,972	17,611,972	17,617,710	17,617,710	17,617,710	17,617,710
-%	-%	-%	-%	-%	-%	-%	-%	-%	-%	-%

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58	59	60
2048	2049	2050

2048	2049	2050
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-	-	-
-	-	-
-	-	-
-	-	-
3,468,457	3,487,279	3,505,934
5,924,279	5,956,433	5,988,301
2,468,856	2,482,257	2,495,539
3,468,430	3,487,252	3,505,907
5,924,599	5,956,752	5,988,618
5,922,353	5,954,497	5,986,354
-	-	-
285	282	279
557	552	546
-	-	-
557	552	546
-	-	-
-	-	-
29,500	29,658	29,815
285	282	279
-	-	-
-	-	-
-	-	-
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2048	2049	2050	
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73,090	72,358	71,634	
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-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
3,948	**3,948**	**3,948**	*AN.nodes*
3,091	3,091	3,091	
456	456	456	
264	264	264	
128	128	128	
9	9	9	

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			AN.classification
4%	4%	4%	*AN.nositerequired.ratio*
3,785	3,785	3,785	*Required.assets.AN.sites*
-	-	-	*PSTN.AN.nodes*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			PSTN.AN.classification
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.RSX.ports.PSTN
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.RSX.line.cards.PSTN
-	-	-	*Required.assets.AN.RSX.line.card.PSTN*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.RSX.ports.ISDN2
-	-	-	
-	-	-	

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-	-	-	
-	-	-	
-	-	-	
			AN.RSX.line.cards.ISDN2
-	-	-	*Required.assets.AN.RSX.line.card.ISDN2*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.RSX.ports.ISDN30
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.RSX.line.cards.ISDN30
-	-	-	*Required.assets.AN.RSX.line.card.ISDN30*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.RSX.line.cards.total
-	-	-	
-	-	-	
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-	-	-	
-	-	-	
			AN.RSX.shelves

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-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.RSX.racks
-	-	-	*Required.assets.AN.RSX.processor*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.RSX.racks.total
-	-	-	*xDSL.AN.nodes*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			xDSL.AN.classification
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.DSLAM.ports.xDSL
-	-	-	*Required.assets.AN.DSLAM.splitter*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.DSLAM.line.cards

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-	-	-	*Required.assets.AN.DSLAM.line.cards*
-	-	-	
-	-	-	
-	-	-	
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-	-	-	
			AN.DSLAM.shelves
-	-	-	
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			AN.DSLAM.racks
-	-	-	*Required.assets.AN.DSLAM.processor*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.DSLAM.racks.total
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*AN.DSLAM.1GE.ports*
-	-	-	*Required.assets.AN.DSLAM.1GE.electrical.port*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*Required.assets.AN.DSLAM.1GE.optical.port*
-	-	-	
-	-	-	

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-	-	-	
-	-	-	
-	-	-	
-	-	-	*MSAN.AN.nodes*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			MSAN.AN.classification
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.MSAN.ports.PSTN
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.MSAN.line.cards.PSTN
-	-	-	*Required.assets.AN.MSAN.line.card.PSTN*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.MSAN.ports.xDSL
-	-	-	
-	-	-	

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-	-	-	
-	-	-	
-	-	-	
			AN.MSAN.line.cards.xDSL
-	-	-	*Required.assets.AN.MSAN.line.card.xDSL*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.MSAN.ports.splitter
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.MSAN.line.cards.splitter
-	-	-	*Required.assets.AN.MSAN.line.card.splitter*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.MSAN.line.cards.maximum
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

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			AN.MSAN.shelves
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.MSAN.racks
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			AN.MSAN.racks.total
-	-	-	*Required.assets.AN.MSAN.processor*
-	-	-	*Required.assets.AN.miniMSAN.processor*
-	**-**	**-**	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*AN.MSAN.1GE.ports*
-	-	-	*Required.assets.AN.MSAN.1GE.electrical.port*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*Required.assets.AN.MSAN.1GE.optical.port*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
3,855	**3,855**	**3,855**	*NGN_DSLAM.AN.nodes*

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2,998	2,998	2,998	
456	456	456	
264	264	264	
128	128	128	
9	9	9	
			NGN_DSLAM.AN.classification
4	4	4	
16	16	16	
35	36	36	
87	88	88	
222	223	224	
			AN.NGN_DSLAM.ports.PSTN
1	1	1	
1	1	1	
2	2	2	
3	3	3	
6	6	6	
			AN.NGN_DSLAM.line.cards.PSTN
4,420	4,420	4,420	*Required.assets.AN.NGN_DSLAM.line.card.PSTN*
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
			AN.NGN_DSLAM.ports.xDSL
1	1	1	
1	1	1	
1	1	1	
1	1	1	
1	1	1	
			AN.NGN_DSLAM.line.cards.xDSL
3,855	3,855	3,855	*Required.assets.AN.NGN_DSLAM.line.card.xDSL*

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65	65	66	
325	326	328	
610	614	617	
1,322	1,329	1,336	
2,699	2,714	2,728	
			AN.NGN_DSLAM.ports.Fibre
2	2	2	
8	8	8	
14	14	15	
30	30	30	
60	61	61	
			AN.NGN_DSLAM.line.cards.Fibre
17,720	17,729	17,993	*Required.assets.AN.NGN_DSLAM.line.card.Fibre*
65	65	66	
325	326	328	
610	614	617	
1,322	1,329	1,336	
2,699	2,714	2,728	
			AN.NGN_DSLAM.ports.splitter
2	2	2	
8	8	8	
14	14	15	
30	30	30	
60	61	61	
			AN.NGN_DSLAM.line.cards.splitter
17,720	17,729	17,993	*Required.assets.AN.NGN_DSLAM.line.card.splitter*
2	2	2	
8	8	8	
14	14	15	
30	30	30	

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60	61	61	
			AN.NGN_DSLAM.line.cards.maximum
1	1	1	
3	3	3	
4	4	4	
7	7	7	
13	14	14	
			AN.NGN_DSLAM.shelves
1	1	1	
1	1	1	
2	2	2	
3	3	3	
5	5	5	
			AN.NGN_DSLAM.racks
2,998	2,998	2,998	
456	456	456	
528	528	528	
384	384	384	
45	45	45	
			AN.NGN_DSLAM.racks.total
4,411	4,411	4,411	
3,583	3,583	3,583	*Required.assets.AN.NGN_DSLAM.processor*
828	828	828	*Required.assets.AN.NGN_DSLAM.mini.processor*
4,411	**4,411**	**4,411**	
2,998	2,998	2,998	
456	456	456	
528	528	528	
384	384	384	
45	45	45	
-	-	-	*AN.NGN_DSLAM.1GE.ports*
957	957	957	*Required.assets.AN.NGN_DSLAM.1GE.electrical.port*
-	-	-	
-	-	-	
528	528	528	
384	384	384	
45	45	45	

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3,454	3,454	3,454	*Required.assets.AN.NGN_DSLAM.1GE.optical.port*
2,998	2,998	2,998	
456	456	456	
-	-	-	
-	-	-	
-	-	-	
3,855	**3,855**	**3,855**	*AN.L2S.nodes.total*
2,998	2,998	2,998	
456	456	456	
264	264	264	
128	128	128	
9	9	9	
			AN.L2S.nodes
181	181	181	
88	88	88	
163	163	163	
117	117	117	
9	9	9	
			Access.rings.L2S.AN.classification
2,817	2,817	2,817	
368	368	368	
101	101	101	
11	11	11	
-	-	-	
			Access.trees.L2S.AN.classification
285	282	279	
3,438,672	3,457,339	3,475,839	
-	-	-	
29,500	29,658	29,815	
-	-	-	
-	-	-	
992,186	997,571	1,002,907	
728,820	732,775	736,695	
794,404	798,715	802,987	
833,455	837,978	842,461	

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119,591	120,240	120,883	
-	-	-	
321	323	324	
1,598	1,607	1,616	
3,009	3,025	3,042	
6,511	6,547	6,582	
13,288	13,360	13,431	
			AN.transmission.required
331	333	335	
1,598	1,607	1,616	
1,505	1,513	1,521	
2,170	2,182	2,194	
2,658	2,672	2,686	
-	-	-	
-	-	-	
-	-	-	
1.0	1.0	1.0	
1.0	1.0	1.0	
1.0	1.0	1.0	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
1	1	1	
1	1	1	
2	2	2	
3	3	3	
5	5	5	

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1	1	1
1	1	1
3	3	3
4	4	4
6	6	6

1	1	1
1	1	1
1	1	1
2	2	2
4	4	4

-	-	-
-	-	-
3	3	3
4	4	4
6	6	6

-	-	-
-	-	-
1	1	1
1	1	1
1	1	1

AN.switch.required

-	-	-
-	-	-
3,009.1	3,025.4	3,041.6
6,511.4	6,546.7	6,581.7
13,287.9	13,360.0	13,431.5

-	-	-
-	-	-
10Gbps	10Gbps	10Gbps
10Gbps	10Gbps	10Gbps
10Gbps	10Gbps	10Gbps

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-	-	-	
-	-	-	
1	1	1	
2	2	2	
4	4	4	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
1	1	1	
2	2	2	
4	4	4	
-	-	-	*AN.L2S.ER.facing.1GE.electrical.ports*
-	-	-	*AN.L2S.ER.facing.1GE.optical.ports*
556	556	556	*AN.L2S.ER.facing.10GE.optical.ports*
-	-	-	
-	-	-	
3	3	3	
4	4	4	
6	6	6	
-	-	-	
-	-	-	
1	1	1	
1	1	1	
1	1	1	

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-	-	-	
-	-	-	
1	1	1	
2	2	2	
4	4	4	
-	-	-	
-	-	-	
1	1	1	
1	1	1	
1	1	1	
-	-	-	
-	-	-	
1	1	1	
1	1	1	
1	1	1	
1,358	1,358	1,358	
401	401	401	*Required.assets.AN.Access.Rings.L2S.1GE.electrical.cards*
556	556	556	
401	401	401	*Required.assets.AN.Access.Rings.L2S.10GE.optical.cards*
401	401	401	*Required.assets.AN.Access.Rings.L2S.chassis*
-	-	-	
-	-	-	
3	3	3	
4	4	4	
6	6	6	
-	-	-	
-	-	-	
1	1	1	
1	1	1	
1	1	1	

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-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
1	1	1	
2	2	2	
4	4	4	
-	-	-	
-	-	-	
1	1	1	
1	1	1	
1	1	1	
-	-	-	
-	-	-	
1	1	1	
1	1	1	
1	1	1	
347	347	347	
112	112	112	*Required.assets.AN.Access.Trees.L2S.1GE.electrical.cards*
-	-	-	*Required.assets.AN.Access.Trees.L2S.1GE.optical.port.adaptor*
123	123	123	
112	112	112	*Required.assets.AN.Access.Trees.L2S.10GE.optical.cards*
112	112	112	*Required.assets.AN.Access.Trees.L2S.chassis*
558	**558**	**558**	*AN.edge.routers.nodes.total*
558	**558**	**558**	*AN.ER.nodes.total*
181	181	181	
88	88	88	
163	163	163	
117	117	117	
9	9	9	
			AN.ER.nodes

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3,468,457	3,487,279	3,505,934	*IP_Edge_Transmission_Mbps*
-	-	-	*IP_Edge_Transmission_Mbps_linear_IPTV*
-	-	-	
-	-	-	
3,454	3,454	3,454	
-	-	-	
-	-	-	
556	556	556	
6,216	6,250	6,283	*AN.ER.transmission.required*
3,468,457	3,487,279	3,505,934	
10Gbps	10Gbps	10Gbps	
2	2	2	
2	2	2	
-	-	-	*AN.ER.DR.facing.1GE.ports*
1,116	1,116	1,116	*AN.ER.DR.facing.10GE.ports*
-	-	-	*AN.ER.DR.facing.40GE.ports*
-	-	-	
3,454	3,454	3,454	
1,672	1,672	1,672	
-	-	-	
6	6	6	
3	3	3	

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2	2	2	
2	2	2	
1	1	1	
1,116	1,116	1,116	*Required.assets.AN.ER.1GE.electrical.cards*
3,454	3,454	3,454	*Required.assets.AN.ER.1GE.optical.port.adaptor*
1,116	1,116	1,116	*Required.assets.AN.ER.10GE.optical.cards*
558	558	558	*Required.assets.AN.ER.chassis*
1,315	1,315	1,315	*Required.assets.transmission.access.trees.fibre.cables.submarine*
24,528	24,528	24,528	*Required.assets.transmission.access.trees.fibre.cables.terrestrial*
20,802	20,802	20,802	*Required.assets.transmission.access.trees.trench*
984	984	984	*Required.assets.wireless.link.towers*
1,092	1,092	1,092	*Required.assets.wireless.link.antennae*
4	4	4	*Required.assets.wireless.link.repeaters*
65	65	65	*Required.assets.transmission.access.rings.fibre.cables.submarine*
6,930	6,930	6,930	*Required.assets.transmission.access.rings.fibre.cables.terrestrial*
3,546	3,546	3,546	*Required.assets.transmission.access.rings.trench*
-	**-**	**-**	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	**-**	**-**	

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-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			RSX_circuit_groups
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			TDM_Access_Transmission_Voice_E1s
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			TDM_Access_Transmission_LL_Low_Capa_Mbps
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			TDM_Access_Transmission_LL_High_Capa_Mbps
-	-	-	
-	-	-	
-	-	-	

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285	282	279	*IP_Access_Transmission_Voice_Mbps_Total*
77	76	75	
51	50	50	
65	65	64	
78	77	77	
14	14	14	
			IP_Access_Transmission_Voice_Mbps
29,500	29,658	29,815	*IP_Access_Transmission_VPNs_Mbps_Total*
10,082	10,136	10,190	
5,186	5,214	5,242	
6,845	6,882	6,919	
6,512	6,546	6,581	
875	879	884	
			IP_Access_Transmission_VPNs_Mbps
3,438,672	3,457,339	3,475,839	
3,438,672	**3,457,339**	**3,475,839**	*IP_Access_Transmission_xDSL_VOD_modern_Mbps_Total*
982,028	987,359	992,642	
723,583	727,511	731,404	
787,493	791,768	796,005	
826,866	831,354	835,803	
118,702	119,347	119,985	
			IP_Access_Transmission_xDSL_VOD_modern_Mbps
-	**-**	**-**	*IP_Access_Transmission_xDSL_VOD_NGN_Mbps_Total*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			IP_Access_Transmission_xDSL_VOD_NGN_Mbps
-	-	-	*IP_Access_Transmission_linear_IPTV_Mbpsperlink*
-	**-**	**-**	*IP_Access_Transmission_linear_IPTV_Mbps_Total*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			IP_Access_Transmission_linear_IPTV_Mbps

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E1s_required_access_trees

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-	**-**	**-**	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	**-**	**-**	
-	-	-	
-	-	-	
-	**-**	**-**	
-	-	-	
-	-	-	
-	**-**	**-**	
-	-	-	
-	-	-	
-	**-**	**-**	
-	-	-	
-	-	-	
			E1s_required_access_rings
133	**132**	**130**	*Mbps_required_access_trees_NGN_voice*
70	69	68	
38	38	37	
20	20	20	
5	5	5	
-	-	-	
1,729,517	**1,738,905**	**1,748,210**	*Mbps_required_access_trees_xDSL_VOD_modern*
891,044	895,881	900,675	
541,000	543,937	546,847	
244,759	246,088	247,404	
52,714	53,000	53,284	
-	-	-	
-	**-**	**-**	*Mbps_required_access_trees_xDSL_VOD_NGN*
-	-	-	
-	-	-	
-	-	-	
-	-	-	

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-	-	-	
15,800	**15,885**	**15,969**	*Mbps_required_access_trees_VPNs*
9,147	9,196	9,245	
3,928	3,949	3,970	
2,417	2,430	2,443	
308	309	311	
-	-	-	
-	-	-	*Mbps_required_access_trees_linear_IPTV*
152	**150**	**149**	*Mbps_required_access_rings_NGN_voice_total*
7	7	7	
13	13	13	
45	44	44	
73	72	72	
14	14	14	
			Mbps_required_access_rings_NGN_voice
1,709,155	**1,718,434**	**1,727,629**	*Mbps_required_access_rings_xDSL_VOD_modern_total*
90,984	91,478	91,967	
182,583	183,574	184,556	
542,734	545,681	548,601	
774,152	778,354	782,519	
118,702	119,347	119,985	
			Mbps_required_access_rings_xDSL_VOD_modern
-	**-**	**-**	*Mbps_required_access_rings_xDSL_VOD_NGN_total*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			Mbps_required_access_rings_xDSL_VOD_NGN
5,110	**5,138**	**5,165**	*Mbps_required_access_rings_VPNs_total*
739	743	747	
765	769	773	
2,243	2,255	2,267	
1,363	1,370	1,377	
-	-	-	
			Mbps_required_access_rings_VPNs
-	-	-	*Mbps_required_access_rings_linear_IPTV*

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-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
			E1s_required_access_trees_AN
-	-	-	
-	-	-	
-	-	-	
-	-	-

-	-	-	*Required.assets.transmission.access.trees.SDH.regenerator*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*Required.assets.transmission.access.rings.SDH.ADMs*
-	-	-	*Required.assets.transmission.access.rings.SDH.regenerator*
478	478	478	
558	558	558	
80	80	80	
14%	14%	14%	

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100%	100%	100%	
0.0	0.0	0.0	
8	8	8	
194	194	194	
-	-	-	
2	2	2	
2	2	2	
-	-	-	
956	956	956	
956	956	956	*Required.assets.transmission.access.rings.CWDM.ADMs*
-	-	-	*Required.assets.transmission.access.rings.CWDM.1GE.transponder*
1,912	1,912	1,912	*Required.assets.transmission.access.rings.CWDM.10GE.transponder*
-	-	-	*Required.assets.transmission.access.rings.CWDM.1GE.regeneration.transponder*
32	32	32	*Required.assets.transmission.access.rings.CWDM.10GE.regeneration.transponder*
388	388	388	*Required.assets.transmission.access.rings.CWDM.TERMs*
163	163	163	*DN.nodes*
17%	17%	17%	*DN.nositerequired.ratio*
135	135	135	*Required.assets.DN.sites*

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-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*Required.assets.DN.LS.chassis_processor*
-	-	-	*Required.assets.DN.LS.switchblock*
-	-	-	*Required.assets.DN.LS.software*
80	80	80	*DN.distribution.routers.nodes.total*
74	74	74	*DN.distribution.routers.nodes.total.no.coloc*
4	4	4	*DN.distribution.routers.nodes.total.DSBC.coloc*
-	-	-	*DN.distribution.routers.nodes.total.DSBC.ISBC.coloc*
2	2	2	*DN.distribution.routers.nodes.total.DSBC.ISBC.SP.coloc*
5,924,279	5,956,433	5,988,301	*IP_Distribution_Transmission_Mbps*
-	-	-	*IP_Distribution_Transmission_Mbps_linear_IPTV*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
1,116	1,116	1,116	
1,032	1,032	1,032	
56	56	56	
-	-	-	
28	28	28	
-	-	-	
-	-	-	

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-	-	-	
-	-	-	
-	-	-	
6	6	6	
4	4	4	
-	-	-	
2	2	2	
2	2	2	
-	-	-	
2	2	2	
-	-	-	
-	-	-	
172	174	174	
1,185	1,192	1,198	*DN.DR.1_10GE.optical.ports*
1,096	1,103	1,108	
59	60	60	
-	-	-	
30	30	30	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
1,185	1,192	1,198	
5,924,279	5,956,433	5,988,301	
160	160	160	
-	-	-	
-	-	-	
-	-	-	

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-	-	-
-	-	-
2,128	2,135	2,140
-	-	-
-	-	-
29	29	29
-	-	-
15	15	15
2	2	2
-	-	-
-	-	-
1,110	1,110	1,110
148	148	148
4	4	4
-	-	-
115	115	116
1	1	1
-	-	-
29	29	29
1	1	1
15	15	15
2	2	2
4	4	4
-	-	-
60	60	60

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8	8	8
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
4	4	4
-	-	-
58	58	58
172	174	174
2	2	2
-	-	-
29	29	29
86	87	87
1	1	1
15	15	15
43	44	44
5	5	5

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2	2	2	
-	-	-	
30	30	30	
86	88	88	
10	10	10	
6	6	6	*Required.assets.DN.DR.1GE.electrical.cards*
-	-	-	*Required.assets.DN.DR.1GE.optical.port.adaptor*
1,200	1,200	1,200	*Required.assets.DN.DR.10GE.optical.cards*
86	88	88	*Required.assets.DN.DR.40GE.optical.cards*
242	244	244	*Required.assets.DN.DR.chassis*
6	6	6	*DN.distribution.SBC.nodes.total*
285	282	279	
6	6	6	*DN.distribution.SBC.DR.facing.1GE.ports*
1	1	1	
6	6	6	
29	29	28	*DN.distribution.SBC.SW.licences*
1	1	1	
1	1	1	
1	1	1	
6	6	6	*Required.assets.DN.distribution.SBC.1GE.electrical.cards*
6	6	6	*Required.assets.DN.distribution.SBC.chassis*

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577	577	577	*Required.assets.transmission.Distribution.rings.fibre.cables.submarine*
10,372	10,372	10,372	*Required.assets.transmission.Distribution.rings.fibre.cables.terrestrial*
4,639	4,639	4,639	*Required.assets.transmission.Distribution.rings.trench*
-	-	-	
-	-	-	*LS_circuit_groups*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
5,924,279	5,956,433	5,988,301	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

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-	-	-	
-	-	-	
-	-	-	
			E1s_required_distribution_rings
-	-	-	
-	-	-	
-	-	-

1.0	1.0	1.0	
54	54	54	
26	26	26	
15	15	15	
-	-	-	
15	15	15	
770	775	779	
-	-	-	
770	775	779	*Required.assets.transmission.distribution.rings.DWDM.ADMs*
1,540.50	1,550	1,557.40	*Required.assets.transmission.distribution.rings.DWDM.10GE.transponder*
-	-	-	*Required.assets.transmission.distribution.rings.DWDM.40GE.transponder*
1,600	1,610	1,618	*Required.assets.transmission.distribution.rings.DWDM.10GE.regeneration.transponder*
-	-	-	*Required.assets.transmission.distribution.rings.DWDM.40GE.regeneration.transponder*
385	387	389	*Required.assets.transmission.distribution.rings.DWDM.TERMs*
28	28	28	*CN.nodes*
7%	7%	7%	*CN.siterequired.ratio*
26	26	26	*Required.assets.CN.sites*

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-	-	-	
-	-	-	
-	-	-	
-	-	-	*Required.assets.CN.TDM.CS.processor*
-	-	-	*Required.assets.CN.TDM.CS.software*
73,090	72,358	71,634	
1	1	1	
2	2	2	
2	2	2	*Required.assets.CN.NGN.CS.processor*
2	2	2	*Required.assets.CN.NGN.CS.software*
28	28	28	
285	282	279	
10	10	10	
1Gbps	1Gbps	1Gbps	
1	1	1	
1	1	1	
1	1	1	

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1	1	1	
28	28	28	*Required.assets.PE.router.1GE.electrical.cards*
28	28	28	*Required.assets.PE.router.chassis*
73,090	72,358	71,634	
1	1	1	
2	2	2	
2	2	2	*Required.assets.CN.NGN.CS.processor*
89,725	90,200	90,676	
89,725	90,201	90,677	*Required.assets.CN.IMS.CS.SW.subs*
73,090	72,358	71,634	
73,090	72,359	71,635	*Required.assets.CN.IMS.CS.SW.traffic*
81,816	82,249	82,684	
7,909	7,951	7,993	
4	4	4	*Required.assets.CN.IMS.CS.MTAS.Res*
1	1	1	*Required.assets.CN.IMS.CS.MTAS.Bus*
-	-	-	

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-	-	-	
-	-	-	*Required.assets.CN.MGW.switchblock*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
2	2	2	
2	2	2	*Required.assets.CN.IGW.processor*
2	2	2	*Required.assets.CN.IGW.switchblock*
2	2	2	*Required.assets.CN.IGW.software*
-	-	-	
-	-	-	
-%	-%	-%	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

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-	-	-	*National.Interco.incoming.E1.ports*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*National.Interco.outgoing.E1.ports*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*International.Interco.incoming.E1.ports*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*International.Interco.outgoing.E1.ports*
-	-	-	*Required.assets.CN.E1.ports*
2	2	2	*CN.service.L2S.nodes.total*
3,438,672	3,457,339	3,475,839	
-	-	-	
0	0	0	
0	0	0	
707,495	711,280	715,032	
1,768,737	1,778,201	1,787,580	
274,983	276,531	278,065	
687,457	691,327	695,162	
-	-	-	
-	-	-	
-	-	-	
0.00	0.00	0.00	
1,719,336	1,728,669	1,737,920	

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40Gbps	40Gbps	40Gbps	
86	87	87	
-	-	-	*CN.service.L2S.DR.facing.1GE.ports*
-	-	-	*CN.service.L2S.DR.facing.10GE.ports*
86	87	87	*CN.service.L2S.DR.facing.40GE.ports*
-	-	-	
-	-	-	
86	87	87	
-	-	-	
-	-	-	
172	174	174	
-	-	-	
-	-	-	
15	15	15	
3	3	3	
-	-	-	*Required.assets.CN.service.L2S.1GE.electrical.cards*
-	-	-	*Required.assets.CN.service.L2S.10GE.optical.cards*
30	30	30	*Required.assets.CN.service.L2S.40GE.optical.cards*
6	6	6	*Required.assets.CN.service.L2S.chassis*
7	7	7	*CN.core.routers.nodes.total*
2,468,856	2,482,257	2,495,539	*IP_Core_Transmission_Mbps*
-	-	-	*IP_Core_Transmission_Mbps_linear_IPTV*
1,185	1,192	1,198	

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1,236	1,242	1,248	
1,236	1,242	1,248	
2,468,855.90	2,482,257.02	2,495,538.88	
42	42	42	
2,421	2,434	2,446	
346	348	349	
87	87	88	
11	11	11	
609	609	616	*Required.assets.CN.CR.10GE.optical.cards*
77	77	77	*Required.assets.CN.CR.chassis*
2	2	2	*CN.PoI.nodes.total*
557	552	546	
2	2	2	*CN.interco.SBC.DR.facing.1GE.ports*
1	1	1	
2	2	2	
-	-	-	
7	7	7	
9	9	9	

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5	5	5	
5	5	5	
2	2	2	
3	3	3	
3	3	3	
2	2	2	
5	5	5	*Required.assets.CN.interco.SBC.1GE.electrical.cards*
3	3	3	*Required.assets.CN.interco.SBC.chassis*
56	56	55	*CN.interco.SBC.SW.licences*
-	-	-	*CN.sip.PoI.nodes.total*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*PR.SBC.facing.1GE.ports*
-	-	-	
-	-	-	
-	-	-	

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-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*Required.assets.CN.PR.10Mbps.electrical.cards*
-	-	-	*Required.assets.CN.PR.100Mbps.electrical.cards*
-	-	-	*Required.assets.CN.PR.1GE.electrical.cards*
-	-	-	*Required.assets.CN.PR.chassis*
2	2	2	*CN.ss7.PoI.nodes.total*
557	552	546	
5,868	5,810	5,752	
40	40	40	
147	145	144	
10	10	10	
400	400	400	*Required.assets.CN.TGW.E1.ports*
7	7	7	*TGW.SBC.facing.1GE.ports*
7	7	7	*Required.assets.CN.TGW.units*
7	7	7	
2	2	2	

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39	39	39
42	42	42

48,754	49,011	49,269	
703,661	707,495	711,280	
28	28	28	
7	7	7	
554,455	548,906	543,414	
6	6	6	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
1	1	1	
1	1	1	
1	1	1	
1	1	1	
1	1	1	
1	1	1	
-	-	-	*Required.assets.BRAS*
14	14	14	*Required.assets.DNS*
3	3	3	*Required.assets.Radius*
2	2	2	*Required.assets.VAS_IN*

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2	2	2	*Required.assets.WBS*
5	5	5	*Required.assets.NMS*
-	-	-	*Required.assets.NMS.PSTN*
1	1	1	*Required.assets.NMS.NGN.Voice*
4	4	4	*Required.assets.NMS.Common*
28	28	28	*Required.assets.Clock*
605	605	605	*Required.assets.transmission.core.rings.fibre.cables.submarine*
11,786	11,786	11,786	*Required.assets.transmission.core.rings.fibre.cables.terrestrial*
778	778	778	*Required.assets.transmission.core.rings.trench*
-	-	-	
-	-	-	*MGW_circuit_groups*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
2,468,856	2,482,257	2,495,539	
-	-	-	

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-	-	-	
-	-	-	*MGW_nodes_logical_paths*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*Required.assets.transmission.core.rings.ATM.cards*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

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			Required.assets.transmission.core.rings.SDH.ADMs
-	-	-	*Required.assets.transmission.core.rings.SDH.regenerator*
26	26	26	
7	7	7	
77	77	77	
11	11	11	
5,852	5,852	5,852	
770	770	770	
5,082	5,082	5,082	
76	76	76	
10	10	10	
66	66	66	
2,468,856	2,482,257	2,495,539	
324,849	326,613	328,360	
2,144,006	2,155,644	2,167,179	
1	1	1	
1	1	1	
42	42	42	
121	121	121	
5,082	5,082	5,082	*Required.assets.transmission.core.rings.DWDM.40GE.transponder*
336	336	336	*Required.assets.transmission.core.rings.DWDM.TERMs*
107	107	107	*Required.assets.transmission.core.rings.DWDM.amplifiers*

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3,091	3,091	3,091
456	456	456
264	264	264
128	128	128
9	9	9

321	323	324
1,598	1,607	1,616
3,009	3,025	3,042
6,511	6,547	6,582
13,288	13,360	13,431

6,216	6,250	6,283

450	450	450
1,000	1,000	1,000
1,000	1,000	1,000
1,000	1,000	1,000
1,000	1,000	1,000

#N/A	#N/A	#N/A

-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*Required.assets.transmission.access.DSLAM.ER.ethernet.LL*
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	*Required.assets.transmission.access.DSLAM.ER.leased.dark.fibre*
-	-	-	
-	-	-	
-	-	-	*Required.assets.transmission.access.ER.DR.ethernet.LL*
-	-	-	
-	-	-	*Required.assets.transmission.access.ER.DR.leased.dark.fibre*
-	-	-	*Required.assets.transmission.access.ER.DR.Ethernet.amplifiers.leased.dark.fibre*
43,884	44,122	44,358	

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-	-	-	*Required.assets.transmission.distribution.rings.Ethernet.amplifiers.leased.dark.fibre*
-	-	-	*Required.assets.transmission.distribution.rings.leased.dark.fibre*
352,694	354,608	356,506	
-	-	-	*Required.assets.transmission.core.rings.Ethernet.amplifiers.leased.dark.fibre*
-	-	-	
19	19	19	
-	-	-	*Required.assets.transmission.core.rings.leased.dark.fibre*
-	-	-	
-	-	-	
-	-	-	
3,583	3,583	3,583	
-	-	-	
-	-	-	
17,916	17,916	17,916	
-%	-%	-%	*AN.accom.PSTN*

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100%	100%	100%	*AN.accom.Other*

-	-	-
242	244	244
-	-	-

-	-	-	
4,840	4,880	4,880	
-%	-%	-%	*DN.accom.PSTN*
100%	100%	100%	*DN.accom.Other*

-	-	-
77	77	77
-	-	-

-	-	-	
1,540	1,540	1,540	
-%	-%	-%	*CN.accom.PSTN*
100%	100%	100%	*CN.accom.Other*

-	-	-
-	-	-
-	-	-
3,583	3,583	3,583
513	513	513
558	558	558
-	-	-

-	-	-	
5,889	5,889	5,889	
-%	-%	-%	*AN.accom.PSTN*
-%	-%	-%	*AN.accom.PSTN.current*
-%	-%	-%	*AN.accom.PSTN.pasted*
100%	100%	100%	*AN.accom.Other*
-	-	-	*AN.power.use.PSTN*
70,833,640	70,833,640	70,833,640	*AN.power.use.Other*
-%	-%	-%	*AN.power.PSTN*
-%	-%	-%	*AN.power.PSTN.current*
-%	-%	-%	*AN.power.PSTN.pasted*

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100%	100%	100%	*AN.power.Other*
-	-	-	
6	6	6	
242	244	244	
-	-	-	
-	-	-	
186	188	188	
-%	-%	-%	*DN.accom.PSTN*
-%	-%	-%	*DN.accom.PSTN.current*
-%	-%	-%	*DN.accom.PSTN.pasted*
100%	100%	100%	*DN.accom.Other*
-	-	-	*DN.power.use.PSTN*
3,041,472	3,066,000	3,066,000	*DN.power.use.Other*
-%	-%	-%	*DN.power.PSTN*
-%	-%	-%	*DN.power.PSTN.current*
-%	-%	-%	*DN.power.PSTN.pasted*
100%	100%	100%	*DN.power.Other*
-	-	-	
-	-	-	
3	3	3	
2	2	2	
7	7	7	
-	-	-	
-	-	-	
28	28	28	
77	77	77	
-	-	-	
-	-	-	
215	215	215	
-%	-%	-%	*CN.accom.PSTN*
-%	-%	-%	*CN.accom.PSTN.current*
-%	-%	-%	*CN.accom.PSTN.pasted*
100%	100%	100%	*CN.accom.Other*
-	-	-	*CN.power.use.PSTN*
1,434,888	1,434,888	1,434,888	*CN.power.use.Other*
-%	-%	-%	*CN.power.PSTN*
-%	-%	-%	*CN.power.PSTN.current*
-%	-%	-%	*CN.power.PSTN.pasted*
100%	100%	100%	*CN.power.Other*

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75,310,000	75,334,528	75,334,528
70,833,640	70,833,640	70,833,640
-	-	-
70,833,640	70,833,640	70,833,640
3,041,472	3,066,000	3,066,000
-	-	-
3,041,472	3,066,000	3,066,000
1,434,888	1,434,888	1,434,888
-	-	-
1,434,888	1,434,888	1,434,888
3,355,754	3,356,847	3,356,847
3,156,291	3,156,291	3,156,291
-	-	-
3,156,291	3,156,291	3,156,291
135,526	136,619	136,619
-	-	-
135,526	136,619	136,619
63,937	63,937	63,937
-	-	-
63,937	63,937	63,937
17,617,710	17,623,448	17,623,448
16,570,529	16,570,529	16,570,529
-	-	-
16,570,529	16,570,529	16,570,529
711,509	717,247	717,247
-	-	-
711,509	717,247	717,247
335,672	335,672	335,672
-	-	-
335,672	335,672	335,672
0.04	0.04	0.04
0.04	0.04	0.04
-	-	-
0.04	0.04	0.04
0.04	0.04	0.04
-	-	-
0.04	0.04	0.04
0.04	0.04	0.04
-	-	-
0.04	0.04	0.04
0.23	0.23	0.23
0.23	0.23	0.23

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-	-	-
0.23	0.23	0.23
0.23	0.23	0.23
-	-	-
0.23	0.23	0.23
0.23	0.23	0.23
-	-	-
0.23	0.23	0.23
2,892,238	2,896,681	2,896,681
1,596,156	1,596,156	1,596,156
550,861	555,304	555,304
745,221	745,221	745,221
3,355,754	3,356,847	3,356,847
-%	-%	-%
15,184,252	15,207,575	15,207,575
8,379,819	8,379,819	8,379,819
2,892,021	2,915,344	2,915,344
3,912,411	3,912,411	3,912,411
17,617,710	17,623,448	17,623,448
-%	-%	-%

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Full network according to demand

This table simply collates the number of network elements required of each type in each year, mid year

Network element	Source	1991	1992	1993	1994	1995
AN-Common: Site rental for core - PSTN	50	-	2,391	2,391	2,392	2,392
AN-Common: Site rental for core - Other	50	-	1,394	1,394	1,393	1,393
AN-Common: Air conditioning unit - PSTN	10	-	2,391	2,391	2,392	2,392
AN-Common: UPS and Generator - PSTN	10	-	2,391	2,391	2,392	2,392
AN-TDM: RSX processor/rack	100	-	4,513	4,513	4,522	4,522
AN-TDM: RSX line card - PSTN	5	-	51,898	53,338	57,149	58,170
AN-TDM: RSX line card - ISDN 2	5	-	-	-	3,948	4,094
AN-TDM: RSX line card - ISDN 30	5	-	-	-	401	401
AN-TDM: MDF splitter cards	5	-	-	-	-	-
AN-TDM: Replacement of RSX processor/rack	100	-	-	5	10	15
AN-IP: DSLAM processor/rack	5	-	-	-	-	-
AN-IP: DSLAM line cards - xDSL	5	-	-	-	-	-
AN-IP: DSLAM core-facing ports - 1GE electrical port	5	-	-	-	-	-
AN-IP: DSLAM core-facing ports - 1GE optical port	5	-	-	-	-	-
AN-Common: Air conditioning unit - Other	10	-	1,394	1,394	1,393	1,393
AN-Common: UPS and Generator - Other	10	-	1,394	1,394	1,393	1,393
AN-IP: mini-MSAN processor/rack	5	-	-	-	-	-
AN-IP: MSAN processor/rack	5	-	-	-	-	-
AN-IP: MSAN line card - PSTN	5	-	-	-	-	-
AN-IP: MSAN line card - xDSL	5	-	-	-	-	-
AN-IP: MSAN line card - splitter	5	-	-	-	-	-
AN-IP: MSAN core-facing ports - 1GE electrical port	5	-	-	-	-	-
AN-IP: MSAN core-facing ports - 1GE optical port	5	-	-	-	-	-
AN-IP: layer 2 switch - chassis	5	-	-	-	-	-
AN-IP: layer 2 switch - 48 x 1GE electrical ports card	5	-	-	-	-	-
AN-IP: layer 2 switch - 1GE optical port adaptor	5	-	-	-	-	-
AN-IP: layer 2 switch - 12 x 10GE optical ports card	5	-	-	-	-	-
spare	5	-	-	-	-	-
AN-IP: layer 3 edge router - chassis	5	-	-	-	-	-
AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	5	-	-	-	-	-
AN-IP: layer 3 edge router - 1GE optical port adaptor	5	-	-	-	-	-
AN-IP: layer 3 edge router - 2 x 10GE optical ports card	5	-	-	-	-	-
DN-Common: Site rental for core - PSTN	50	-	81	81	81	81
DN-Common: Site rental for core - Other	50	-	54	54	54	54
DN-Common: Air conditioning unit - PSTN	10	-	81	81	81	81
DN-Common: UPS and Generator - PSTN	10	-	81	81	81	81
DN-TDM: LS chassis/processor	100	-	163	163	163	163
DN-TDM: LS switchblock	100	-	163	163	163	163
DN-TDM: LS software	5	-	163	163	163	163

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DN-IP: distribution SBC - chassis	5	-	-	-	-	-
DN-IP: distribution SBC - 1GE port card	5	-	-	-	-	-
DN-IP: layer 3 distribution router - chassis	5	-	-	-	-	-
DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	5	-	-	-	-	-
DN-IP: layer 3 distribution router - 1GE optical port adaptor	5	-	-	-	-	-
DN-IP: layer 3 distribution router - 2 x 10GE optical port card	5	-	-	-	-	-
DN-Common: Air conditioning unit - Other	10	-	54	54	54	54
DN-Common: UPS and Generator - Other	10	-	54	54	54	54
CN-Common: Site rental for core - PSTN	50	-	-	-	-	-
CN-Common: Site rental for core - Other	50	-	-	-	-	-
CN-Common: Air conditioning unit - PSTN	10	-	-	-	-	-
CN-Common: UPS and Generator - PSTN	10	-	-	-	-	-
CN-TDM: Call Server processor (softswitch)	100	-	-	-	-	-
CN-TDM: Call Server software	5	-	-	-	-	-
CN-TDM: Media Gateway switchblock	100	-	-	-	-	-
CN-TDM: international gateway (IGW) processor	10	-	-	-	-	-
CN-TDM: international gateway (IGW) switchblock	10	-	-	-	-	-
CN-TDM: international gateway (IGW) software	5	-	-	-	-	-
CN-TDM: interconnect ports - E1 ports	5	-	-	-	-	-
CN-TDM: Media Gateway STM4 ATM ports	8	-	-	-	-	-
CN-Common: Air conditioning unit - Other	10	-	-	-	-	-
CN-Common: UPS and Generator - Other	10	-	-	-	-	-
CN-IP: interco SBC - chassis	5	-	-	-	-	-
CN-IP: interco SBC - 1GE port card	5	-	-	-	-	-
CN-IP: Call Server processor (softswitch)	5	-	-	-	-	-
CN-IP: Call Server software	5	-	-	-	-	-
CN-TDM: interconnect trunk gateway (TGW)	5	-	-	-	-	-
CN - Interconnect trunk gateway E1 ports	5	-	-	-	-	-
CN-IP: layer 3 peering router - chassis	5	-	-	-	-	-
CN-IP: layer 3 peering router - 4 x 1GE port card	5	-	-	-	-	-
CN-IP: layer 3 peering router - 10 x 100Mbps port card	5	-	-	-	-	-
CN-IP: layer 3 peering router - 10 x 10Mbps port card	5	-	-	-	-	-
CN-IP: layer 2 services switch - chassis	5	-	-	-	-	-
CN-IP: layer 2 services switch - 48 x 1GE ports card	5	-	-	-	-	-
CN-IP: layer 2 services switch - 12 x 10GE optical ports card	5	-	-	-	-	-
CN-IP: IP/MPLS router - chassis	5	-	-	-	-	-
CN-IP: IP/MPLS router - 4 x 10GE port cards	5	-	-	-	-	-
CN: BRAS	8	-	-	-	-	-
CN: DNS	6	-	-	-	-	-
CN: RADIUS	6	-	-	-	-	-
CN: VAS, IN platforms	6	-	3	3	3	4
CN: Billing system	5	-	2	2	2	2
Network management system: common	5	-	1	1	1	1
Clock and synchronisation equipment	5	-	28	28	28	28
Network management system: PSTN	5	-	1	1	1	1
Network management system: NGN voice	5	-	-	-	-	-

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CPE: terminal adaptor (Pure VoIP operator) - traffic related only	5	-	-	-	-	-
Wireless links: antenna towers and ancillary	10	-	984	984	984	984
Wireless links: transmission equipment	10	-	1,092	1,092	1,092	1,092
Wireless links: repeaters	10	-	4	4	4	4
Access transmission - submarine fibre cables (km)	15	-	-	-	-	-
Access transmission - terrestrial fibre cables (km)	20	-	-	-	-	-
Access transmission - trench (km)	40	-	-	-	-	-
Access transmission - ODF (12 fibre)	10	-	-	-	-	-
Access transmission - PDH 2Mbps terminal	8	-	-	-	-	-
Access transmission - PDH 8Mbps terminal	8	-	-	-	-	-
Access transmission - SDH STM-0 ADM	8	-	-	-	-	-
Access transmission - SDH STM-1 ADM	8	-	-	-	-	-
Access transmission - SDH STM-4 ADM	8	-	-	-	-	-
Access transmission - SDH STM-16 ADM	8	-	-	-	-	-
Access transmission - SDH STM-64 ADM	8	-	-	-	-	-
Access transmission - SDH regenerator	8	-	-	-	-	-
Access transmission - STM4 cross-connect	8	-	3,948	3,948	3,948	3,948
Access transmission - CWDM ADM	8	-	-	-	-	-
Access transmission - CWDM Terminal	8	-	-	-	-	-
Access transmission - CWDM 1GE transponder	5	-	-	-	-	-
Access transmission - CWDM 10GE transponder	5	-	-	-	-	-
Access transmission - leased dark fibre DSLAM/MSAN-ER	15	-	-	-	-	-
Access transmission - leased dark fibre ER-DR	15	-	-	-	-	-
Access transmission - Ethernet leased lines DSLAM/MSAN-ER	5	-	-	-	-	-
Access transmission - Ethernet leased lines ER-DR	5	-	-	-	-	-
Distribution transmission - submarine fibre cables (km)	15	-	-	-	-	-
Distribution transmission - terrestrial fibre cables (km)	20	-	-	-	-	-
Distribution transmission - trench (km)	40	-	-	-	-	-
Distribution transmission - ODF (48-fibre)	10	-	-	-	-	-
Distribution transmission - SDH STM-0 ADM	8	-	-	-	-	-
Distribution transmission - SDH STM-1 ADM	8	-	-	-	-	-
Distribution transmission - SDH STM-4 ADM	8	-	-	-	-	-
Distribution transmission - SDH STM-16 ADM	8	-	-	-	-	-
Distribution transmission - SDH STM-64 ADM	8	-	-	-	-	-
Distribution transmission - SDH regenerator	8	-	-	-	-	-
Distribution transmission - STM16 cross-connect	8	-	163	163	163	163
Distribution transmission - DWDM ADM	8	-	-	-	-	-
Distribution transmission - DWDM Terminal	8	-	-	-	-	-
Distribution transmission - DWDM 10GE transponder	5	-	-	-	-	-
Distribution transmission - DWDM 40GE transponder	5	-	-	-	-	-
Distribution transmission - leased dark fibre DR-CR	15	-	-	-	-	-
Distribution transmission - Ethernet signal amplifier	8	-	-	-	-	-
Core transmission - submarine fibre cables (km)	15	-	-	-	-	-
Core transmission - terrestrial fibre cables (km)	20	-	-	-	-	-
Core transmission - trench (km)	40	-	-	-	-	-
Core transmission - ODF (96-fibre)	10	-	-	-	-	-

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Core transmission - SDH STM-0 ADM	8	-	-	-	-	-
Core transmission - SDH STM-1 ADM	8	-	-	-	-	-
Core transmission - SDH STM-4 ADM	8	-	-	-	-	-
Core transmission - SDH STM-16 ADM	8	-	-	-	-	-
Core transmission - SDH STM-64 ADM	8	-	-	-	-	-
Core transmission - SDH regenerator	8	-	-	-	-	-
Core transmission - STM64 cross-connect	8	-	28	28	28	28
Core transmission - DWDM ADM	8	-	-	-	-	-
Core transmission - DWDM 40GE transponder	5	-	-	-	-	-
Core transmission - DWDM signal amplifier	8	-	-	-	-	-
Core transmission - leased dark fibre CR-CR	15	-	-	-	-	-
Core transmission - Ethernet signal amplifier	8	-	-	-	-	-
Access transmission - Ethernet signal amplifier	8	-	-	-	-	-
Decommissioning of RSX	100	-	-	5	10	15
Decommissioning of LS	100	-	-	-	-	-
Decommissioning of MGW	100	-	-	-	-	-
Decommissioning of CS	100	-	-	-	-	-
Business Overheads (Capex)	1	1	1	1	1	1
Business Overheads (Opex)	1	1	1	1	1	1
NGN DSLAM - processor/rack	5	-	-	-	-	-
NGN DSLAM - POTS line card	5	-	-	-	-	-
NGN DSLAM - xDSL line card	5	-	-	-	-	-
NGN DSLAM - fibre line card	5	-	-	-	-	-
NGN DSLAM - splitter	5	-	-	-	-	-
CN-IP: PE router - chassis	5	-	-	-	-	-
CN-IP: PE router - 4x1GE port cards	5	-	-	-	-	-
spare	0	0	0	0	0	0
CN-IP: Distribution SBC - software licences	5	-	-	-	-	-
CN-IP: Interconnect SBC - software licences	5	-	-	-	-	-
IMS core: CS - upgrades (subscriber-driven)	5	-	-	-	-	-
IMS core: CS - upgrades (voice-driven)	5	-	-	-	-	-
IMS core: MTAS (Residential voice services)	5	-	-	-	-	-
IMS core: MTAS (Business voice and ISDN)	5	-	-	-	-	-
NGN DSLAM - mini-processor/rack	5	-	-	-	-	-
CN-IP: layer 2 services switch - 12 x 40GE optical ports card	5	0	0	0	0	0
DN-IP: layer 3 distribution router - 2 x 40GE optical port card	5	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0

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spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0
spare	0	0	0	0	0	0

Network element (accounting for de-activated assets)

AN-Common: Site rental for core - PSTN	1	-	2,391	2,391	2,392	2,392
AN-Common: Site rental for core - Other	1	-	1,394	1,394	1,393	1,393
AN-Common: Air conditioning unit - PSTN	1	-	2,391	2,391	2,392	2,392
AN-Common: UPS and Generator - PSTN	1	-	2,391	2,391	2,392	2,392
AN-TDM: RSX processor/rack	1	-	4,513	4,513	4,522	4,522
AN-TDM: RSX line card - PSTN	1	-	51,898	53,338	57,149	58,170
AN-TDM: RSX line card - ISDN 2	1	-	-	-	3,948	4,094
AN-TDM: RSX line card - ISDN 30	1	-	-	-	401	401
AN-TDM: MDF splitter cards	1	-	-	-	-	-
AN-TDM: Replacement of RSX processor/rack	1	-	-	5	10	15
AN-IP: DSLAM processor/rack	1	-	-	-	-	-
AN-IP: DSLAM line cards - xDSL	1	-	-	-	-	-
AN-IP: DSLAM core-facing ports - 1GE electrical port	1	-	-	-	-	-
AN-IP: DSLAM core-facing ports - 1GE optical port	1	-	-	-	-	-
AN-Common: Air conditioning unit - Other	1	-	1,394	1,394	1,393	1,393
AN-Common: UPS and Generator - Other	1	-	1,394	1,394	1,393	1,393
AN-IP: mini-MSAN processor/rack	1	-	-	-	-	-
AN-IP: MSAN processor/rack	1	-	-	-	-	-
AN-IP: MSAN line card - PSTN	1	-	-	-	-	-
AN-IP: MSAN line card - xDSL	1	-	-	-	-	-
AN-IP: MSAN line card - splitter	1	-	-	-	-	-

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AN-IP: MSAN core-facing ports - 1GE electrical port	1	-	-	-	-	-
AN-IP: MSAN core-facing ports - 1GE optical port	1	-	-	-	-	-
AN-IP: layer 2 switch - chassis	1	-	-	-	-	-
AN-IP: layer 2 switch - 48 x 1GE electrical ports card	1	-	-	-	-	-
AN-IP: layer 2 switch - 1GE optical port adaptor	1	-	-	-	-	-
AN-IP: layer 2 switch - 12 x 10GE optical ports card	1	-	-	-	-	-
spare	1	-	-	-	-	-
AN-IP: layer 3 edge router - chassis	1	-	-	-	-	-
AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	1	-	-	-	-	-
AN-IP: layer 3 edge router - 1GE optical port adaptor	1	-	-	-	-	-
AN-IP: layer 3 edge router - 2 x 10GE optical ports card	1	-	-	-	-	-
DN-Common: Site rental for core - PSTN	1	-	81	81	81	81
DN-Common: Site rental for core - Other	1	-	54	54	54	54
DN-Common: Air conditioning unit - PSTN	1	-	81	81	81	81
DN-Common: UPS and Generator - PSTN	1	-	81	81	81	81
DN-TDM: LS chassis/processor	1	-	163	163	163	163
DN-TDM: LS switchblock	1	-	163	163	163	163
DN-TDM: LS software	1	-	163	163	163	163
DN-IP: distribution SBC - chassis	1	-	-	-	-	-
DN-IP: distribution SBC - 1GE port card	1	-	-	-	-	-
DN-IP: layer 3 distribution router - chassis	1	-	-	-	-	-
DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	1	-	-	-	-	-
DN-IP: layer 3 distribution router - 1GE optical port adaptor	1	-	-	-	-	-
DN-IP: layer 3 distribution router - 2 x 10GE optical port card	1	-	-	-	-	-
DN-Common: Air conditioning unit - Other	1	-	54	54	54	54
DN-Common: UPS and Generator - Other	1	-	54	54	54	54
CN-Common: Site rental for core - PSTN	1	-	-	-	-	-
CN-Common: Site rental for core - Other	1	-	-	-	-	-
CN-Common: Air conditioning unit - PSTN	1	-	-	-	-	-
CN-Common: UPS and Generator - PSTN	1	-	-	-	-	-
CN-TDM: Call Server processor (softswitch)	1	-	-	-	-	-
CN-TDM: Call Server software	1	-	-	-	-	-
CN-TDM: Media Gateway switchblock	1	-	-	-	-	-
CN-TDM: international gateway (IGW) processor	1	-	-	-	-	-
CN-TDM: international gateway (IGW) switchblock	1	-	-	-	-	-
CN-TDM: international gateway (IGW) software	1	-	-	-	-	-
CN-TDM: interconnect ports - E1 ports	1	-	-	-	-	-
CN-TDM: Media Gateway STM4 ATM ports	1	-	-	-	-	-
CN-Common: Air conditioning unit - Other	1	-	-	-	-	-
CN-Common: UPS and Generator - Other	1	-	-	-	-	-
CN-IP: interco SBC - chassis	1	-	-	-	-	-
CN-IP: interco SBC - 1GE port card	1	-	-	-	-	-
CN-IP: Call Server processor (softswitch)	1	-	-	-	-	-
CN-IP: Call Server software	1	-	-	-	-	-
CN-TDM: interconnect trunk gateway (TGW)	1	-	-	-	-	-
CN - Interconnect trunk gateway E1 ports	1	-	-	-	-	-

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CN-IP: layer 3 peering router - chassis	1	-	-	-	-	-
CN-IP: layer 3 peering router - 4 x 1GE port card	1	-	-	-	-	-
CN-IP: layer 3 peering router - 10 x 100Mbps port card	1	-	-	-	-	-
CN-IP: layer 3 peering router - 10 x 10Mbps port card	1	-	-	-	-	-
CN-IP: layer 2 services switch - chassis	1	-	-	-	-	-
CN-IP: layer 2 services switch - 48 x 1GE ports card	1	-	-	-	-	-
CN-IP: layer 2 services switch - 12 x 10GE optical ports card	1	-	-	-	-	-
CN-IP: IP/MPLS router - chassis	1	-	-	-	-	-
CN-IP: IP/MPLS router - 4 x 10GE port cards	1	-	-	-	-	-
CN: BRAS	1	-	-	-	-	-
CN: DNS	1	-	-	-	-	-
CN: RADIUS	1	-	-	-	-	-
CN: VAS, IN platforms	1	-	3	3	3	4
CN: Billing system	1	-	2	2	2	2
Network management system: common	1	-	1	1	1	1
Clock and synchronisation equipment	1	-	28	28	28	28
Network management system: PSTN	1	-	1	1	1	1
Network management system: NGN voice	1	-	-	-	-	-
CPE: terminal adaptor (Pure VoIP operator) - traffic related only	1	-	-	-	-	-
Wireless links: antenna towers and ancillary	1	-	984	984	984	984
Wireless links: transmission equipment	1	-	1,092	1,092	1,092	1,092
Wireless links: repeaters	1	-	4	4	4	4
Access transmission - submarine fibre cables (km)	1	-	-	-	-	-
Access transmission - terrestrial fibre cables (km)	1	-	-	-	-	-
Access transmission - trench (km)	1	-	-	-	-	-
Access transmission - ODF (12 fibre)	1	-	-	-	-	-
Access transmission - PDH 2Mbps terminal	1	-	-	-	-	-
Access transmission - PDH 8Mbps terminal	1	-	-	-	-	-
Access transmission - SDH STM-0 ADM	1	-	-	-	-	-
Access transmission - SDH STM-1 ADM	1	-	-	-	-	-
Access transmission - SDH STM-4 ADM	1	-	-	-	-	-
Access transmission - SDH STM-16 ADM	1	-	-	-	-	-
Access transmission - SDH STM-64 ADM	1	-	-	-	-	-
Access transmission - SDH regenerator	1	-	-	-	-	-
Access transmission - STM4 cross-connect	1	-	3,948	3,948	3,948	3,948
Access transmission - CWDM ADM	1	-	-	-	-	-
Access transmission - CWDM Terminal	1	-	-	-	-	-
Access transmission - CWDM 1GE transponder	1	-	-	-	-	-
Access transmission - CWDM 10GE transponder	1	-	-	-	-	-
Access transmission - leased dark fibre DSLAM/MSAN-ER	1	-	-	-	-	-
Access transmission - leased dark fibre ER-DR	1	-	-	-	-	-
Access transmission - Ethernet leased lines DSLAM/MSAN-ER	1	-	-	-	-	-
Access transmission - Ethernet leased lines ER-DR	1	-	-	-	-	-
Distribution transmission - submarine fibre cables (km)	1	-	-	-	-	-
Distribution transmission - terrestrial fibre cables (km)	1	-	-	-	-	-
Distribution transmission - trench (km)	1	-	-	-	-	-

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Distribution transmission - ODF (48-fibre)	1	-	-	-	-	-
Distribution transmission - SDH STM-0 ADM	1	-	-	-	-	-
Distribution transmission - SDH STM-1 ADM	1	-	-	-	-	-
Distribution transmission - SDH STM-4 ADM	1	-	-	-	-	-
Distribution transmission - SDH STM-16 ADM	1	-	-	-	-	-
Distribution transmission - SDH STM-64 ADM	1	-	-	-	-	-
Distribution transmission - SDH regenerator	1	-	-	-	-	-
Distribution transmission - STM16 cross-connect	1	-	163	163	163	163
Distribution transmission - DWDM ADM	1	-	-	-	-	-
Distribution transmission - DWDM Terminal	1	-	-	-	-	-
Distribution transmission - DWDM 10GE transponder	1	-	-	-	-	-
Distribution transmission - DWDM 40GE transponder	1	-	-	-	-	-
Distribution transmission - leased dark fibre DR-CR	1	-	-	-	-	-
Distribution transmission - Ethernet signal amplifier	1	-	-	-	-	-
Core transmission - submarine fibre cables (km)	1	-	-	-	-	-
Core transmission - terrestrial fibre cables (km)	1	-	-	-	-	-
Core transmission - trench (km)	1	-	-	-	-	-
Core transmission - ODF (96-fibre)	1	-	-	-	-	-
Core transmission - SDH STM-0 ADM	1	-	-	-	-	-
Core transmission - SDH STM-1 ADM	1	-	-	-	-	-
Core transmission - SDH STM-4 ADM	1	-	-	-	-	-
Core transmission - SDH STM-16 ADM	1	-	-	-	-	-
Core transmission - SDH STM-64 ADM	1	-	-	-	-	-
Core transmission - SDH regenerator	1	-	-	-	-	-
Core transmission - STM64 cross-connect	1	-	28	28	28	28
Core transmission - DWDM ADM	1	-	-	-	-	-
Core transmission - DWDM 40GE transponder	1	-	-	-	-	-
Core transmission - DWDM signal amplifier	1	-	-	-	-	-
Core transmission - leased dark fibre CR-CR	1	-	-	-	-	-
Core transmission - Ethernet signal amplifier	1	-	-	-	-	-
Access transmission - Ethernet signal amplifier	1	-	-	-	-	-
Decommissioning of RSX	1	-	-	5	10	15
Decommissioning of LS	1	-	-	-	-	-
Decommissioning of MGW	1	-	-	-	-	-
Decommissioning of CS	1	-	-	-	-	-
Business Overheads (Capex)	1	1	1	1	1	1
Business Overheads (Opex)	1	1	1	1	1	1
NGN DSLAM - processor/rack	1	-	-	-	-	-
NGN DSLAM - POTS line card	1	-	-	-	-	-
NGN DSLAM - xDSL line card	1	-	-	-	-	-
NGN DSLAM - fibre line card	1	-	-	-	-	-
NGN DSLAM - splitter	1	-	-	-	-	-
CN-IP: PE router - chassis	1	-	-	-	-	-
CN-IP: PE router - 4x1GE port cards	1	-	-	-	-	-
spare	1	-	-	-	-	-
CN-IP: Distribution SBC - software licences	1	-	-	-	-	-

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CN-IP: Interconnect SBC - software licences	1	-	-	-	-	-
IMS core: CS - upgrades (subscriber-driven)	1	-	-	-	-	-
IMS core: CS - upgrades (voice-driven)	1	-	-	-	-	-
IMS core: MTAS (Residential voice services)	1	-	-	-	-	-
IMS core: MTAS (Business voice and ISDN)	1	-	-	-	-	-
NGN DSLAM - mini-processor/rack	1	-	-	-	-	-
CN-IP: layer 2 services switch - 12 x 40GE optical ports card	1	-	-	-	-	-
DN-IP: layer 3 distribution router - 2 x 40GE optical port card	1	-	-	-	-	-
spare	1	-	-	-	-	-
spare	1	-	-	-	-	-
spare

1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
2,392	2,392	2,392	2,419	2,324	2,232	2,149	2,050	1,978	1,908	1,817
1,393	1,393	1,393	1,366	1,461	1,553	1,636	1,735	1,807	1,877	1,968
2,392	2,392	2,392	2,419	2,369	2,319	2,272	2,214	2,170	2,125	2,056
2,392	2,392	2,392	2,419	2,369	2,319	2,272	2,214	2,170	2,125	2,056
4,522	4,522	4,522	4,659	4,668	4,668	4,668	4,668	4,668	4,659	4,522
58,325	57,751	52,180	50,011	47,851	42,308	39,819	38,835	37,659	35,927	30,940
4,650	7,266	14,413	23,721	34,797	39,245	40,439	40,430	38,835	35,763	28,634
410	547	556	957	975	1,112	1,121	1,130	1,258	1,130	1,112
-	-	-	-	337	11,775	52,518	146,060	294,769	491,964	634,519
20	25	30	35	40	45	50	55	60	65	70
-	-	-	-	275	550	826	1,101	1,376	1,660	1,935
-	-	-	-	275	837	1,952	4,200	8,165	12,413	15,913
-	-	-	-	-	-	-	401	401	410	410
-	-	-	-	275	550	826	700	975	1,250	1,525
1,393	1,393	1,393	1,366	1,416	1,466	1,513	1,571	1,615	1,660	1,729
1,393	1,393	1,393	1,366	1,416	1,466	1,513	1,571	1,615	1,660	1,729
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	513	513	513	513
-	-	-	-	-	-	-	513	513	513	513
-	-	-	-	-	-	-	112	112	112	112
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	14	40	60	117	147	176	206
-	-	-	-	84	160	240	351	441	528	618
-	-	-	-	303	630	946	1,046	1,381	1,714	2,049
-	-	-	-	-	-	-	-	-	-	-
81	82	82	85	88	87	83	81	79	79	78
54	53	53	50	47	48	52	54	56	56	57
81	82	82	85	88	87	83	81	80	80	79
81	82	82	85	88	87	83	81	80	80	79
165	166	166	184	203	199	180	169	163	163	163
165	166	166	184	203	199	180	169	163	163	163
165	166	166	184	203	199	180	169	163	163	163

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-	-	-	-	6	11	17	23	29	35	42
-	-	-	-	14	52	76	125	155	185	220
-	-	-	-	28	80	120	234	294	352	412
-	-	-	-	8	15	21	27	33	39	46
54	53	53	50	47	48	52	54	55	55	56
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-	-	-	-	-	-	-	8,240	8,240	7,600	6,960
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28	28	28	28	28	28	28	28	28	28	28
1	1	1	1	1	1	1	2	2	2	2
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984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	1,380	1,380	1,380	1,380	1,380	1,380
-	-	-	-	-	31,458	31,458	31,458	31,458	31,458	31,458
-	-	-	-	-	24,348	24,348	24,348	24,348	24,348	24,348
-	-	-	-	-	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	7,292	7,292	7,292	7,292	7,292	7,292
-	-	-	-	-	404	404	404	404	404	404
-	-	-	-	-	56	34	34	34	40	50
-	-	-	-	-	730	744	765	764	738	702
-	-	-	-	-	71	59	42	42	54	45
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	10	10	10	10	10	10
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	14	54	82	184	232	278	324
-	-	-	-	6	22	34	76	96	114	132
-	-	-	-	32	112	168	376	472	568	660
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-	-	-	-	-	4,639	4,639	4,639	4,639	4,639	4,639
-	-	-	-	-	163	163	163	163	163	163
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-	-	-	-	-	62	84	89	89	62	53
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163	163	163	163	163	163	163	163	163	163	163
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-	-	-	-	-	605	605	605	605	605	605
-	-	-	-	-	11,786	11,786	11,786	11,786	11,786	11,786
-	-	-	-	-	778	778	778	778	778	778
-	-	-	-	-	28	28	28	28	28	28

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-	-	-	-	-	131	131	131	131	131	131
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0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0

2,392	2,392	2,392	2,419	2,324	2,232	2,149	2,050	1,978	1,908	1,817
1,393	1,393	1,393	1,366	1,461	1,553	1,636	1,735	1,807	1,877	1,968
2,392	2,392	2,392	2,419	2,369	2,319	2,272	2,214	2,170	2,125	2,056
2,392	2,392	2,392	2,419	2,369	2,319	2,272	2,214	2,170	2,125	2,056
4,522	4,522	4,522	4,659	4,668	4,668	4,668	4,668	4,668	4,659	4,522
58,325	57,751	52,180	50,011	47,851	42,308	39,819	38,835	37,659	35,927	30,940
4,650	7,266	14,413	23,721	34,797	39,245	40,439	40,430	38,835	35,763	28,634
410	547	556	957	975	1,112	1,121	1,130	1,258	1,130	1,112
-	-	-	-	337	11,775	52,518	146,060	294,769	491,964	634,519
20	25	30	35	40	45	50	55	60	65	70
-	-	-	-	275	550	826	1,101	1,376	1,660	1,935
-	-	-	-	275	837	1,952	4,200	8,165	12,413	15,913
-	-	-	-	-	-	-	401	401	410	410
-	-	-	-	275	550	826	700	975	1,250	1,525
1,393	1,393	1,393	1,366	1,416	1,466	1,513	1,571	1,615	1,660	1,729
1,393	1,393	1,393	1,366	1,416	1,466	1,513	1,571	1,615	1,660	1,729
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	513	513	513	513
-	-	-	-	-	-	-	513	513	513	513
-	-	-	-	-	-	-	112	112	112	112
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-	-	-	-	14	40	60	117	147	176	206
-	-	-	-	84	160	240	351	441	528	618
-	-	-	-	303	630	946	1,046	1,381	1,714	2,049
-	-	-	-	-	-	-	-	-	-	-
81	82	82	85	88	87	83	81	79	79	78
54	53	53	50	47	48	52	54	56	56	57
81	82	82	85	88	87	83	81	80	80	79
81	82	82	85	88	87	83	81	80	80	79
165	166	166	184	203	199	180	169	163	163	163
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165	166	166	184	203	199	180	169	163	163	163
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-	-	-	-	28	80	120	234	294	352	412
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54	53	53	50	47	48	52	54	55	55	56
54	53	53	50	47	48	52	54	55	55	56
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-	-	-	-	-	-	-	8,240	8,240	7,600	6,960
-	-	-	-	-	-	-	142	106	106	106
-	-	-	-	-	-	-	10	10	10	10
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	4	8	10	15	18	24	30
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	1	1	1	1	2	2	3
4	4	4	4	4	4	4	4	3	3	3
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1	1	1	1	1	1	1	2	2	2	2
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	1,380	1,380	1,380	1,380	1,380	1,380
-	-	-	-	-	31,458	31,458	31,458	31,458	31,458	31,458
-	-	-	-	-	24,348	24,348	24,348	24,348	24,348	24,348
-	-	-	-	-	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	7,292	7,292	7,292	7,292	7,292	7,292
-	-	-	-	-	404	404	404	404	404	404
-	-	-	-	-	56	34	34	34	40	50
-	-	-	-	-	730	744	765	764	738	702
-	-	-	-	-	71	59	42	42	54	45
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	10	10	10	10	10	10
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	14	54	82	184	232	278	324
-	-	-	-	6	22	34	76	96	114	132
-	-	-	-	32	112	168	376	472	568	660
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	577	577	577	577	577	577
-	-	-	-	-	10,372	10,372	10,372	10,372	10,372	10,372
-	-	-	-	-	4,639	4,639	4,639	4,639	4,639	4,639

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-	-	-	-	-	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	12	12	12	12	12	12
-	-	-	-	-	62	84	89	89	62	53
-	-	-	-	-	107	114	202	143	107	107
-	-	-	-	-	259	250	198	232	259	259
-	-	-	-	-	54	54	54	54	54	54
163	163	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	6	18	32
-	-	-	-	-	-	-	-	4	10	16
-	-	-	-	-	-	-	-	28	76	132
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	605	605	605	605	605	605
-	-	-	-	-	11,786	11,786	11,786	11,786	11,786	11,786
-	-	-	-	-	778	778	778	778	778	778
-	-	-	-	-	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	234	208	182	208	234	234
-	-	-	-	-	131	131	131	131	131	131
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	4	4	12	12	24	40
-	-	-	-	-	2	2	6	6	12	20
-	-	-	-	-	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
20	25	30	35	40	45	50	55	60	65	70
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
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2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
1,757	1,646	1,565	1,517	1,513	1,510	1,299	1,122	929	-	-
2,028	2,139	2,220	2,268	2,272	2,275	2,486	2,663	2,856	3,785	3,785
2,014	1,920	1,852	1,817	1,812	1,810	1,647	1,433	1,206	-	-
2,014	1,920	1,852	1,817	1,812	1,810	1,647	1,433	1,206	-	-
4,513	4,249	4,112	4,112	4,103	4,103	4,094	3,091	2,342	-	-
28,789	27,066	26,200	24,742	23,429	19,345	17,895	6,182	4,683	-	-
25,316	23,420	18,187	16,455	15,124	14,003	12,827	6,182	2,342	-	-
975	975	966	957	829	820	556	-	-	-	-
730,594	750,554	713,494	675,304	647,827	617,902	582,783	156,198	96,987	43,460	-
75	80	84	88	92	96	100	104	107	-	-
2,211	2,486	2,761	3,036	3,036	3,036	3,036	2,170	1,421	671	-
17,512	19,215	17,682	18,089	17,670	16,940	16,521	6,511	2,841	1,342	-
410	410	410	410	410	410	410	-	-	-	-
1,801	2,076	2,351	2,626	2,626	2,626	2,626	2,170	1,421	671	-
1,771	1,865	1,933	1,968	1,973	1,975	2,138	2,352	2,579	3,785	3,785
1,771	1,865	1,933	1,968	1,973	1,975	2,138	2,352	2,579	3,785	3,785
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
513	513	513	513	513	513	1,315	513	513	513	513
513	513	513	513	513	513	1,315	513	513	513	513
112	112	112	112	123	123	643	202	202	-	-
-	-	-	-	9	9	27	148	148	513	513
-	-	-	-	-	-	-	-	-	-	-
235	264	294	323	352	382	411	441	470	499	529
705	792	882	969	1,056	1,146	1,233	1,323	1,410	998	1,058
2,383	2,716	3,051	3,384	3,453	2,749	3,725	3,578	3,578	3,376	3,454
-	-	-	-	352	764	822	882	940	998	1,058
78	77	77	77	76	76	76	76	76	-	-
57	58	58	58	59	59	59	59	59	135	135
79	79	78	78	78	78	78	78	78	-	-
79	79	78	78	78	78	78	78	78	-	-
163	163	163	163	163	163	163	163	163	-	-
163	163	163	163	163	163	163	163	163	-	-
163	163	163	163	163	163	163	163	163	-	-

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-	-	-	-	-	-	2	4	6	6	6
-	-	-	-	-	-	2	4	6	6	6
48	54	60	66	72	78	78	78	78	78	108
250	280	310	340	370	-	2	4	6	6	6
470	528	588	646	704	-	-	-	-	-	-
52	60	68	80	92	508	598	614	710	812	800
56	56	57	57	57	57	57	57	57	135	135
56	56	57	57	57	57	57	57	57	135	135
16	16	16	16	16	16	9	9	9	-	-
10	10	10	10	10	10	17	17	17	26	26
16	16	16	16	16	16	14	14	14	-	-
16	16	16	16	16	16	14	14	14	-	-
4	4	4	4	4	4	4	4	4	-	-
4	4	4	4	4	4	4	4	4	-	-
28	28	28	28	28	28	28	28	28	-	-
2	2	2	2	2	2	2	2	2	-	-
2	2	2	2	2	2	2	2	2	-	-
2	2	2	2	2	2	2	2	2	-	-
6,320	5,680	4,800	4,160	4,160	4,160	1,440	1,440	1,440	-	-
106	106	94	94	94	94	94	94	94	-	-
10	10	10	10	10	10	12	12	12	26	26
10	10	10	10	10	10	12	12	12	26	26
-	-	-	-	-	-	6	5	5	5	5
-	-	-	-	-	-	11	10	10	10	9
-	-	-	-	-	-	3	2	2	2	2
-	-	-	-	-	-	3	2	2	2	2
-	-	-	-	-	-	19	18	18	17	16
-	-	-	-	-	-	1,160	1,080	1,080	1,040	960
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	4	4	4	6	2
-	-	-	-	-	-	-	-	-	-	-
2	2	2	4	6	10	14	18	24	32	-
5	6	6	7	7	14	14	14	21	21	28
30	36	42	49	56	70	77	98	133	168	203
-	-	-	-	-	-	-	-	-	-	-
10	12	12	14	14	14	14	14	14	14	14
3	3	3	3	3	3	3	3	3	3	3
3	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
5	5	5	5	5	5	6	6	6	5	4
28	28	28	28	28	28	28	28	28	28	28
2	2	2	2	2	2	2	2	2	-	-
-	-	-	-	-	-	1	1	1	1	1

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984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380
31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	-	-	-
7,696	7,696	7,292	7,292	7,292	7,696	7,696	7,696	7,292	-	-
-	-	404	404	404	-	44	44	414	-	-
50	90	90	90	90	106	244	288	371	-	-
727	597	593	549	554	520	424	399	362	-	-
16	8	28	28	28	20	12	20	20	-	-
-	-	-	-	-	-	-	-	-	-	-
10	10	10	10	10	10	10	10	10	-	-
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
370	416	464	510	556	604	662	722	780	838	898
152	170	190	208	226	246	270	294	318	342	366
756	848	944	1,040	1,132	-	-	-	-	-	-
-	-	-	-	-	1,232	1,348	1,472	1,588	1,708	1,828
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
163	163	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	-	-
12	12	12	12	12	12	12	12	12	-	-
89	89	67	67	53	89	89	67	53	-	-
202	202	100	100	107	168	230	128	107	-	-
148	177	259	259	259	215	184	245	259	-	-
54	54	54	54	54	54	54	54	54	54	54
163	163	163	163	163	163	163	163	163	163	163
44	56	68	80	92	104	104	124	163	208	255
22	28	34	40	46	52	52	62	82	104	128
180	232	280	328	376	424	424	506	665	848	1,042
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28	28	28

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
182	208	234	260	260	234	234	260	286	-	-
131	131	131	131	131	131	131	131	131	131	131
28	28	28	28	28	28	28	28	28	28	28
40	60	60	84	84	84	84	84	84	84	84
20	30	30	42	42	168	168	168	378	378	672
107	107	107	107	107	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
75	80	84	88	92	96	100	104	2,446	-	-
-	-	-	-	-	-	-	-	163	-	-
-	-	-	-	-	-	-	-	28	-	-
-	-	-	-	-	-	-	-	4	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	1,422	1,908	2,520	3,182	3,182
-	-	-	-	-	-	11,713	11,626	11,940	12,728	12,796
-	-	-	-	-	-	10,010	11,090	11,859	12,939	14,283
-	-	-	-	-	-	1,276	2,756	3,924	4,811	5,970
-	-	-	-	-	-	11,713	12,082	12,396	13,184	14,364
-	-	-	-	-	-	28	28	28	28	28
-	-	-	-	-	-	28	28	28	28	28
0	0	0	0	0	0	0	0	0	0	0
-	-	-	-	-	-	241	220	201	190	172
-	-	-	-	-	-	190	181	175	171	156
-	-	-	-	-	-	961,575	841,373	723,104	612,493	518,652
-	-	-	-	-	-	362,625	340,027	321,719	310,258	284,531
-	-	-	-	-	-	31	28	24	21	18
-	-	-	-	-	-	8	7	6	4	4
-	-	-	-	-	-	-	-	-	78	828
0	0	0	0	0	0	0	0	0	0	10
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0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0

1,757	1,646	1,565	1,517	1,513	1,510	1,299	1,122	929	-	-
2,028	2,139	2,220	2,268	2,272	2,275	2,486	2,663	2,856	3,785	3,785
2,014	1,920	1,852	1,817	1,812	1,810	1,647	1,433	1,206	-	-
2,014	1,920	1,852	1,817	1,812	1,810	1,647	1,433	1,206	-	-
4,513	4,249	4,112	4,112	4,103	4,103	4,094	3,091	2,342	-	-
28,789	27,066	26,200	24,742	23,429	19,345	17,895	6,182	4,683	-	-
25,316	23,420	18,187	16,455	15,124	14,003	12,827	6,182	2,342	-	-
975	975	966	957	829	820	556	-	-	-	-
730,594	750,554	713,494	675,304	647,827	617,902	582,783	156,198	96,987	43,460	-
75	80	84	88	92	96	100	104	107	-	-
2,211	2,486	2,761	3,036	3,036	3,036	3,036	2,170	1,421	671	-
17,512	19,215	17,682	18,089	17,670	16,940	16,521	6,511	2,841	1,342	-
410	410	410	410	410	410	410	-	-	-	-
1,801	2,076	2,351	2,626	2,626	2,626	2,626	2,170	1,421	671	-
1,771	1,865	1,933	1,968	1,973	1,975	2,138	2,352	2,579	3,785	3,785
1,771	1,865	1,933	1,968	1,973	1,975	2,138	2,352	2,579	3,785	3,785
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
513	513	513	513	513	513	1,315	513	513	513	513
513	513	513	513	513	513	1,315	513	513	513	513
112	112	112	112	123	123	643	202	202	-	-
-	-	-	-	9	9	27	148	148	513	513
-	-	-	-	-	-	-	-	-	-	-
235	264	294	323	352	382	411	441	470	499	529
705	792	882	969	1,056	1,146	1,233	1,323	1,410	998	1,058
2,383	2,716	3,051	3,384	3,453	2,749	3,725	3,578	3,578	3,376	3,454
-	-	-	-	352	764	822	882	940	998	1,058
78	77	77	77	76	76	76	76	76	-	-
57	58	58	58	59	59	59	59	59	135	135
79	79	78	78	78	78	78	78	78	-	-
79	79	78	78	78	78	78	78	78	-	-
163	163	163	163	163	163	163	163	163	-	-
163	163	163	163	163	163	163	163	163	-	-
163	163	163	163	163	163	163	163	163	-	-
-	-	-	-	-	-	2	4	6	6	6
-	-	-	-	-	-	2	4	6	6	6
48	54	60	66	72	78	78	78	78	78	108
250	280	310	340	370	-	2	4	6	6	6
470	528	588	646	704	-	-	-	-	-	-
52	60	68	80	92	508	598	614	710	812	800
56	56	57	57	57	57	57	57	57	135	135
56	56	57	57	57	57	57	57	57	135	135
16	16	16	16	16	16	9	9	9	-	-
10	10	10	10	10	10	17	17	17	26	26
16	16	16	16	16	16	14	14	14	-	-
16	16	16	16	16	16	14	14	14	-	-
4	4	4	4	4	4	4	4	4	-	-
4	4	4	4	4	4	4	4	4	-	-
28	28	28	28	28	28	28	28	28	-	-
2	2	2	2	2	2	2	2	2	-	-
2	2	2	2	2	2	2	2	2	-	-
2	2	2	2	2	2	2	2	2	-	-
6,320	5,680	4,800	4,160	4,160	4,160	1,440	1,440	1,440	-	-
106	106	94	94	94	94	94	94	94	-	-
10	10	10	10	10	10	12	12	12	26	26
10	10	10	10	10	10	12	12	12	26	26
-	-	-	-	-	-	6	5	5	5	5
-	-	-	-	-	-	11	10	10	10	9
-	-	-	-	-	-	3	2	2	2	2
-	-	-	-	-	-	3	2	2	2	2
-	-	-	-	-	-	19	18	18	17	16
-	-	-	-	-	-	1,160	1,080	1,080	1,040	960

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-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	4	4	4	6	2
-	-	-	-	-	-	-	-	-	-	-
2	2	2	4	6	10	14	18	24	32	-
5	6	6	7	7	14	14	14	21	21	28
30	36	42	49	56	70	77	98	133	168	203
-	-	-	-	-	-	-	-	-	-	-
10	12	12	14	14	14	14	14	14	14	14
3	3	3	3	3	3	3	3	3	3	3
3	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
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28	28	28	28	28	28	28	28	28	28	28
2	2	2	2	2	2	2	2	2	-	-
-	-	-	-	-	-	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380
31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	-	-	-
7,696	7,696	7,292	7,292	7,292	7,696	7,696	7,696	7,292	-	-
-	-	404	404	404	-	44	44	414	-	-
50	90	90	90	90	106	244	288	371	-	-
727	597	593	549	554	520	424	399	362	-	-
16	8	28	28	28	20	12	20	20	-	-
-	-	-	-	-	-	-	-	-	-	-
10	10	10	10	10	10	10	10	10	-	-
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
370	416	464	510	556	604	662	722	780	838	898
152	170	190	208	226	246	270	294	318	342	366
756	848	944	1,040	1,132	-	-	-	-	-	-
-	-	-	-	-	1,232	1,348	1,472	1,588	1,708	1,828
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639

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163	163	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	-	-
12	12	12	12	12	12	12	12	12	-	-
89	89	67	67	53	89	89	67	53	-	-
202	202	100	100	107	168	230	128	107	-	-
148	177	259	259	259	215	184	245	259	-	-
54	54	54	54	54	54	54	54	54	54	54
163	163	163	163	163	163	163	163	163	163	163
44	56	68	80	92	104	104	124	163	208	255
22	28	34	40	46	52	52	62	82	104	128
180	232	280	328	376	424	424	506	665	848	1,042
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
182	208	234	260	260	234	234	260	286	-	-
131	131	131	131	131	131	131	131	131	131	131
28	28	28	28	28	28	28	28	28	28	28
40	60	60	84	84	84	84	84	84	84	84
20	30	30	42	42	168	168	168	378	378	672
107	107	107	107	107	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
75	80	84	88	92	96	100	104	2,446	-	-
-	-	-	-	-	-	-	-	163	-	-
-	-	-	-	-	-	-	-	28	-	-
-	-	-	-	-	-	-	-	4	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	1,422	1,908	2,520	3,182	3,182
-	-	-	-	-	-	11,713	11,626	11,940	12,728	12,796
-	-	-	-	-	-	10,010	11,090	11,859	12,939	14,283
-	-	-	-	-	-	1,276	2,756	3,924	4,811	5,970
-	-	-	-	-	-	11,713	12,082	12,396	13,184	14,364
-	-	-	-	-	-	28	28	28	28	28
-	-	-	-	-	-	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	241	220	201	190	172

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-	-	-	-	-	-	190	181	175	171	156
-	-	-	-	-	-	961,575	841,373	723,104	612,493	518,652
-	-	-	-	-	-	362,625	340,027	321,719	310,258	284,531
-	-	-	-	-	-	31	28	24	21	18
-	-	-	-	-	-	8	7	6	4	4
-	-	-	-	-	-	-	-	-	78	828
-	-	-	-	-	-	-	-	-	-	10
-	-	-	-	-	-	-	-	-	-	30
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
-	-	-	-	-	-	-	-	-	-	-
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
513	513	513	513	513	513	513	513	513	513	513
513	513	513	513	513	513	513	513	513	513	513
-	-	-	-	-	-	-	-	-	-	-
513	513	513	513	513	513	513	513	513	513	513
-	-	-	-	-	-	-	-	-	-	-
558	558	558	558	558	558	558	558	558	558	558
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
-	-	-	-	-	-	-	-	-	-	-
135	135	135	135	135	135	135	135	135	135	135
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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6	6	6	6	6	6	6	6	6	6	6
6	6	6	6	6	6	6	6	6	6	6
112	118	124	132	138	216	220	222	226	228	230
6	6	6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-	-	-
800	880	880	960	960	1,040	1,040	1,040	1,040	1,120	1,120
135	135	135	135	135	135	135	135	135	135	135
135	135	135	135	135	135	135	135	135	135	135
-	-	-	-	-	-	-	-	-	-	-
26	26	26	26	26	26	26	26	26	26	26
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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26	26	26	26	26	26	26	26	26	26	26
26	26	26	26	26	26	26	26	26	26	26
4	4	4	4	3	3	3	3	3	3	3
8	8	7	7	6	6	6	6	5	5	5
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
14	13	12	11	10	9	9	9	8	8	8
880	760	720	640	600	560	520	520	480	480	480
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2	4	4	4	4	4	4	4	4	4	6
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
35	35	42	49	49	56	56	63	63	63	70
238	280	315	357	385	420	441	469	483	497	511
-	-	-	-	-	-	-	-	-	-	-
14	14	14	14	14	14	14	14	14	14	14
3	3	3	3	3	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
4	4	4	4	4	4	4	4	4	4	4
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1

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984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380
31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,948	3,948	3,948	-	-	-	-	-	-	-	-
956	956	956	956	956	956	956	956	956	956	956
388	388	388	388	388	388	388	388	388	388	388
-	-	-	-	-	-	-	-	-	-	-
1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
163	163	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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54	54	54	-	-	-	-	-	-	-	-
163	163	163	-	-	-	-	-	-	-	-
302	352	401	447	489	528	561	589	612	631	647
151	176	201	224	245	264	280	294	306	316	323
1,233	1,434	1,635	1,823	1,996	2,153	2,288	2,402	2,497	2,573	2,638
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28	28	28

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
131	131	131	-	-	-	-	-	-	-	-
28	28	28	-	-	-	-	-	-	-	-
84	84	84	168	168	168	168	252	252	252	252
1,050	1,050	1,512	2,058	2,058	2,688	2,688	3,402	3,402	3,402	4,200
107	107	107	107	107	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
3,182	3,173	3,173	3,173	3,173	3,173	3,173	3,182	3,182	3,182	3,182
12,213	11,055	7,747	7,191	6,307	6,152	5,733	5,587	5,441	5,168	5,031
13,271	12,715	11,712	11,156	7,146	6,718	5,979	5,560	5,286	4,876	4,402
6,590	7,137	11,147	11,703	12,715	13,143	13,426	14,429	14,848	14,994	15,860
13,325	12,751	11,721	11,703	12,715	13,143	13,426	14,429	14,848	14,994	15,860
28	28	28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	28	28	28	28	28
0	0	0	0	0	0	0	0	0	0	0
147	126	108	93	80	71	63	56	51	47	44
139	124	111	100	92	85	81	77	75	73	72
443,567	382,257	322,872	271,560	228,777	194,114	166,671	145,325	128,937	116,488	107,129
248,719	217,670	190,291	167,591	149,375	135,132	124,168	115,752	109,223	104,054	99,868
15	13	11	10	9	7	6	6	5	5	4
3	3	2	2	2	1	1	1	1	1	1
828	828	828	828	828	828	828	828	828	828	828
12	14	16	18	20	20	22	22	24	24	26
34	40	46	50	56	60	64	66	70	72	74
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0	0	0	0	0	0	0	0	0	0	0
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3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
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513	513	513	513	513	513	513	513	513	513	513
513	513	513	513	513	513	513	513	513	513	513
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558	558	558	558	558	558	558	558	558	558	558
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
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135	135	135	135	135	135	135	135	135	135	135
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112	118	124	132	138	216	220	222	226	228	230
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800	880	880	960	960	1,040	1,040	1,040	1,040	1,120	1,120
135	135	135	135	135	135	135	135	135	135	135
135	135	135	135	135	135	135	135	135	135	135
-	-	-	-	-	-	-	-	-	-	-
26	26	26	26	26	26	26	26	26	26	26
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8	8	7	7	6	6	6	6	5	5	5
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
14	13	12	11	10	9	9	9	8	8	8
880	760	720	640	600	560	520	520	480	480	480

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2	4	4	4	4	4	4	4	4	4	6
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35	35	42	49	49	56	56	63	63	63	70
238	280	315	357	385	420	441	469	483	497	511
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14	14	14	14	14	14	14	14	14	14	14
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4	4	4	4	4	4	4	4	4	4	4
28	28	28	28	28	28	28	28	28	28	28
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1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
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31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
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388	388	388	388	388	388	388	388	388	388	388
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577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639

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163	163	163	163	163	163	163	163	163	163	163
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
54	54	54	-	-	-	-	-	-	-	-
163	163	163	-	-	-	-	-	-	-	-
302	352	401	447	489	528	561	589	612	631	647
151	176	201	224	245	264	280	294	306	316	323
1,233	1,434	1,635	1,823	1,996	2,153	2,288	2,402	2,497	2,573	2,638
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28	28	28
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
131	131	131	-	-	-	-	-	-	-	-
28	28	28	-	-	-	-	-	-	-	-
84	84	84	168	168	168	168	252	252	252	252
1,050	1,050	1,512	2,058	2,058	2,688	2,688	3,402	3,402	3,402	4,200
107	107	107	107	107	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
3,182	3,173	3,173	3,173	3,173	3,173	3,173	3,182	3,182	3,182	3,182
12,213	11,055	7,747	7,191	6,307	6,152	5,733	5,587	5,441	5,168	5,031
13,271	12,715	11,712	11,156	7,146	6,718	5,979	5,560	5,286	4,876	4,402
6,590	7,137	11,147	11,703	12,715	13,143	13,426	14,429	14,848	14,994	15,860
13,325	12,751	11,721	11,703	12,715	13,143	13,426	14,429	14,848	14,994	15,860
28	28	28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	-
147	126	108	93	80	71	63	56	51	47	44

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139	124	111	100	92	85	81	77	75	73	72
443,567	382,257	322,872	271,560	228,777	194,114	166,671	145,325	128,937	116,488	107,129
248,719	217,670	190,291	167,591	149,375	135,132	124,168	115,752	109,223	104,054	99,868
15	13	11	10	9	7	6	6	5	5	4
3	3	2	2	2	1	1	1	1	1	1
828	828	828	828	828	828	828	828	828	828	828
12	14	16	18	20	20	22	22	24	24	26
34	40	46	50	56	60	64	66	70	72	74
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
-	-	-	-	-	-	-	-	-	-	-
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
-	-	-	-	-	-	-	-	-	-	-
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513	513	513	513	513	513	513	513	513	513	513
513	513	513	513	513	513	513	513	513	513	513
-	-	-	-	-	-	-	-	-	-	-
513	513	513	513	513	513	513	513	513	513	513
-	-	-	-	-	-	-	-	-	-	-
558	558	558	558	558	558	558	558	558	558	558
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
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6	6	6	6	6	6	6	6	6	6	6
6	6	6	6	6	6	6	6	6	6	6
230	232	232	234	234	236	236	236	238	238	238
6	6	6	6	6	6	6	6	6	6	6
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1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
135	135	135	135	135	135	135	135	135	135	135
135	135	135	135	135	135	135	135	135	135	135
-	-	-	-	-	-	-	-	-	-	-
26	26	26	26	26	26	26	26	26	26	26
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480	480	440	440	440	440	440	440	440	440	400
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6	6	6	6	6	6	6	6	6	6	6
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-	-	-	-	-	-	-	-	-	-	-
70	70	70	70	70	70	70	70	77	77	77
518	532	539	539	546	553	560	560	567	574	574
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14	14	14	14	14	14	14	14	14	14	14
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28	28	28	28	28	28	28	28	28	28	28
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1	1	1	1	1	1	1	1	1	1	1

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984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
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1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380
31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
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-	-	-	-	-	-	-	-	-	-	-
956	956	956	956	956	956	956	956	956	956	956
388	388	388	388	388	388	388	388	388	388	388
-	-	-	-	-	-	-	-	-	-	-
1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
163	163	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
659	670	679	686	694	700	706	712	718	723	729
330	335	339	343	347	350	353	356	359	362	364
2,687	2,730	2,767	2,799	2,828	2,854	2,879	2,905	2,929	2,950	2,971
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28	28	28

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
252	252	252	252	252	252	252	252	336	336	336
4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	5,082	5,082	5,082
107	107	107	107	107	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
3,182	3,182	3,446	3,446	3,574	3,574	3,574	3,583	3,583	3,583	3,583
5,022	4,557	4,429	4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420
4,001	3,992	3,864	3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855
16,006	16,143	16,416	16,425	16,562	16,562	16,571	17,164	17,164	17,428	17,437
16,006	16,143	16,416	16,425	16,562	16,562	16,571	17,164	17,164	17,428	17,437
28	28	28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	28	28	28	28	28
0	0	0	0	0	0	0	0	0	0	0
42	39	38	36	35	35	34	33	33	32	32
70	69	68	67	66	65	64	64	63	62	62
100,185	95,113	91,488	88,972	87,294	86,242	85,651	85,394	85,375	85,523	85,787
96,414	93,527	91,095	89,031	87,267	85,743	84,407	83,218	82,142	81,150	80,222
4	4	4	4	4	4	4	4	4	4	4
1	1	1	1	1	1	1	1	1	1	1
828	828	828	828	828	828	828	828	828	828	828
26	26	26	26	26	28	28	28	28	28	28
74	76	76	78	78	80	80	80	82	82	82
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0	0	0	0	0	0	0	0	0	0	0

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3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
-	-	-	-	-	-	-	-	-	-	-
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3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
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513	513	513	513	513	513	513	513	513	513	513
513	513	513	513	513	513	513	513	513	513	513
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-	-	-	-	-	-	-	-	-	-	-
558	558	558	558	558	558	558	558	558	558	558
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
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135	135	135	135	135	135	135	135	135	135	135
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6	6	6	6	6	6	6	6	6	6	6
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230	232	232	234	234	236	236	236	238	238	238
6	6	6	6	6	6	6	6	6	6	6
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1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
135	135	135	135	135	135	135	135	135	135	135
135	135	135	135	135	135	135	135	135	135	135
-	-	-	-	-	-	-	-	-	-	-
26	26	26	26	26	26	26	26	26	26	26
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26	26	26	26	26	26	26	26	26	26	26
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5	5	5	5	5	5	5	5	5	5	5
2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
8	8	7	7	7	7	7	7	7	7	7
480	480	440	440	440	440	440	440	440	440	400

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6	6	6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
70	70	70	70	70	70	70	70	77	77	77
518	532	539	539	546	553	560	560	567	574	574
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4	4	4	4	4	4	4	4	4	4	4
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380
31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
956	956	956	956	956	956	956	956	956	956	956
388	388	388	388	388	388	388	388	388	388	388
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1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944
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-	-	-	-	-	-	-	-	-	-	-
577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639

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163	163	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
659	670	679	686	694	700	706	712	718	723	729
330	335	339	343	347	350	353	356	359	362	364
2,687	2,730	2,767	2,799	2,828	2,854	2,879	2,905	2,929	2,950	2,971
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28	28	28
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
252	252	252	252	252	252	252	252	336	336	336
4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	5,082	5,082	5,082
107	107	107	107	107	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-	-	-
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1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
3,182	3,182	3,446	3,446	3,574	3,574	3,574	3,583	3,583	3,583	3,583
5,022	4,557	4,429	4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420
4,001	3,992	3,864	3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855
16,006	16,143	16,416	16,425	16,562	16,562	16,571	17,164	17,164	17,428	17,437
16,006	16,143	16,416	16,425	16,562	16,562	16,571	17,164	17,164	17,428	17,437
28	28	28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	-
42	39	38	36	35	35	34	33	33	32	32

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70	69	68	67	66	65	64	64	63	62	62
100,185	95,113	91,488	88,972	87,294	86,242	85,651	85,394	85,375	85,523	85,787
96,414	93,527	91,095	89,031	87,267	85,743	84,407	83,218	82,142	81,150	80,222
4	4	4	4	4	4	4	4	4	4	4
1	1	1	1	1	1	1	1	1	1	1
828	828	828	828	828	828	828	828	828	828	828
26	26	26	26	26	28	28	28	28	28	28
74	76	76	78	78	80	80	80	82	82	82
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
-	-	-	-	-	-	-	-	-	-	-
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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558	558	558	558	558	558	558	558	558	558	558
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3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
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135	135	135	135	135	135	135	135	135	135	135
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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6	6	6	6	6	6	6	6	6	6	6
6	6	6	6	6	6	6	6	6	6	6
238	240	240	240	242	242	242	242	242	244	244
6	6	6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-	-	-
1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
135	135	135	135	135	135	135	135	135	135	135
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-	-	-	-	-	-	-	-	-	-	-
26	26	26	26	26	26	26	26	26	26	26
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400	400	400	400	400	400	400	400	400	400	400
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6	6	6	6	6	6	6	6	6	6	6
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77	77	77	77	77	77	77	77	77	77	77
581	581	588	588	595	595	602	602	609	609	616
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4	4	4	4	4	4	4	4	4	4	4
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1

CONFIDENTIAL © Analysys Mason

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984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380
31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
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956	956	956	956	956	956	956	956	956	956	956
388	388	388	388	388	388	388	388	388	388	388
-	-	-	-	-	-	-	-	-	-	-
1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944	1,944
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577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
163	163	163	163	163	163	163	163	163	163	163
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734	739	744	749	753	758	762	766	770	775	779
367	370	372	374	377	379	381	383	385	387	389
2,993	3,013	3,035	3,054	3,072	3,091	3,107	3,125	3,141	3,160	3,175
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-	-	-	-	-	-	-	-	-	-	-
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28	28	28

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-	-	-	-	-	-	-	-	-	-	-
336	336	336	336	336	336	336	336	336	336	336
5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082
107	107	107	107	107	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-	-	-
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4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420
3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855
17,565	17,574	17,574	17,574	17,583	17,711	17,720	17,720	17,720	17,729	17,993
17,565	17,574	17,574	17,574	17,583	17,711	17,720	17,720	17,720	17,729	17,993
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31	31	31	30	30	30	30	29	29	29	28
61	60	60	59	59	58	57	57	56	56	55
86,129	86,521	86,945	87,391	87,847	88,308	88,777	89,250	89,725	90,201	90,677
79,343	78,498	77,681	76,884	76,103	75,335	74,578	73,830	73,090	72,359	71,635
4	4	4	4	4	4	4	4	4	4	4
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82	84	84	84	86	86	86	86	86	88	88
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3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
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-	-	-	-	-	-	-	-	-	-	-
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
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513	513	513	513	513	513	513	513	513	513	513
513	513	513	513	513	513	513	513	513	513	513
-	-	-	-	-	-	-	-	-	-	-
513	513	513	513	513	513	513	513	513	513	513
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558	558	558	558	558	558	558	558	558	558	558
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454	3,454
1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116	1,116
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238	240	240	240	242	242	242	242	242	244	244
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1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
135	135	135	135	135	135	135	135	135	135	135
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-	-	-	-	-	-	-	-	-	-	-
26	26	26	26	26	26	26	26	26	26	26
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7	7	7	7	7	7	7	7	7	7	7
400	400	400	400	400	400	400	400	400	400	400

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6	6	6	6	6	6	6	6	6	6	6
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77	77	77	77	77	77	77	77	77	77	77
581	581	588	588	595	595	602	602	609	609	616
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1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
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1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380
31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
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956	956	956	956	956	956	956	956	956	956	956
388	388	388	388	388	388	388	388	388	388	388
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577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639

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163	163	163	163	163	163	163	163	163	163	163
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734	739	744	749	753	758	762	766	770	775	779
367	370	372	374	377	379	381	383	385	387	389
2,993	3,013	3,035	3,054	3,072	3,091	3,107	3,125	3,141	3,160	3,175
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605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28	28	28
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336	336	336	336	336	336	336	336	336	336	336
5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082	5,082
107	107	107	107	107	107	107	107	107	107	107
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583	3,583
4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420	4,420
3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855	3,855
17,565	17,574	17,574	17,574	17,583	17,711	17,720	17,720	17,720	17,729	17,993
17,565	17,574	17,574	17,574	17,583	17,711	17,720	17,720	17,720	17,729	17,993
28	28	28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	-
31	31	31	30	30	30	30	29	29	29	28

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61	60	60	59	59	58	57	57	56	56	55
86,129	86,521	86,945	87,391	87,847	88,308	88,777	89,250	89,725	90,201	90,677
79,343	78,498	77,681	76,884	76,103	75,335	74,578	73,830	73,090	72,359	71,635
4	4	4	4	4	4	4	4	4	4	4
1	1	1	1	1	1	1	1	1	1	1
828	828	828	828	828	828	828	828	828	828	828
28	28	28	28	30	30	30	30	30	30	30
82	84	84	84	86	86	86	86	86	88	88
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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Assets_Full_network_annual

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Asset inputs

Note: retirement works Note: planr

Asset name	Asset type (for traffic routeing)	Start cost recovery	Remove from network and end cost recovery	Year of final capex	Retirement delay (Network. Years) (0,1,2,100)	Asset lifetime (Network. Years)	Planning period (months)
AN-Common: Site rental for core - PSTN		1992	2060	2060	0	50	12
AN-Common: Site rental for core - Other		1992	2060	2060	1	50	12
AN-Common: Air conditioning unit - PSTN		1992	2060	2060	0	10	9
AN-Common: UPS and Generator - PSTN		1992	2060	2060	0	10	9
AN-TDM: RSX processor/rack	TDM Access switching	1992	2016	2060	1	100	9
AN-TDM: RSX line card - PSTN	TDM Access switching	1992	2016	2060	1	5	3
AN-TDM: RSX line card - ISDN 2	TDM Access switching	1992	2016	2060	1	5	3
AN-TDM: RSX line card - ISDN 30	TDM Access switching	1992	2016	2060	1	5	3
AN-TDM: MDF splitter cards	TDM Access switching	1992	2016	2060	1	5	3
AN-TDM: Replacement of RSX processor/rack	TDM Access switching	1992	2016	2060	1	100	9
AN-IP: DSLAM processor/rack	IP Access routing	1992	2016	2012	1	5	9
AN-IP: DSLAM line cards - xDSL	IP Access routing	1992	2016	2012	1	5	3
AN-IP: DSLAM core-facing ports - 1GE electrical port	IP Access routing	1992	2016	2012	1	5	3
AN-IP: DSLAM core-facing ports - 1GE optical port	IP Access routing	1992	2016	2012	1	5	3
AN-Common: Air conditioning unit - Other		1992	2060	2060	1	10	9
AN-Common: UPS and Generator - Other		1992	2060	2060	1	10	9
AN-IP: mini-MSAN processor/rack	IP Access routing	2013	2060	2060	1	5	9
AN-IP: MSAN processor/rack	IP Access routing	2013	2060	2060	1	5	9
AN-IP: MSAN line card - PSTN	IP Access routing	2013	2060	2060	1	5	3
AN-IP: MSAN line card - xDSL	IP Access routing	2013	2060	2060	1	5	3
AN-IP: MSAN line card - splitter	IP Access routing	2013	2060	2060	1	5	3
AN-IP: MSAN core-facing ports - 1GE electrical port	IP Access routing	2013	2060	2060	1	5	3
AN-IP: MSAN core-facing ports - 1GE optical port	IP Access routing	2013	2060	2060	1	5	3
AN-IP: layer 2 switch - chassis	IP Access routing	1992	2060	2060	1	5	9
AN-IP: layer 2 switch - 48 x 1GE electrical ports card	IP Access routing	1992	2060	2060	1	5	3
AN-IP: layer 2 switch - 1GE optical port adaptor	IP Access routing	1992	2060	2060	1	5	3
AN-IP: layer 2 switch - 12 x 10GE optical ports card	IP Access routing	1992	2060	2060	1	5	3
spare		2013	2060	2060	1	5	3
AN-IP: layer 3 edge router - chassis	IP Access routing	1992	2060	2060	1	5	9
AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	IP Access routing	1992	2060	2060	1	5	3
AN-IP: layer 3 edge router - 1GE optical port adaptor	IP Access routing	1992	2060	2060	1	5	3
AN-IP: layer 3 edge router - 2 x 10GE optical ports card	IP Access routing	1992	2060	2060	1	5	3
DN-Common: Site rental for core - PSTN		1992	2060	2060	0	50	12
DN-Common: Site rental for core - Other		1992	2060	2060	1	50	12
DN-Common: Air conditioning unit - PSTN		1992	2060	2060	0	10	9
DN-Common: UPS and Generator - PSTN		1992	2060	2060	0	10	9

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DN-TDM: LS chassis/processor	TDM Distribution switching	1992	2016	2060	1	100	9
DN-TDM: LS switchblock	TDM Distribution switching	1992	2016	2060	1	100	9
DN-TDM: LS software	TDM Distribution switching	1992	2016	2060	1	5	3
DN-IP: distribution SBC - chassis	NGN Distribution SBC	2013	2060	2060	1	5	9
DN-IP: distribution SBC - 1GE port card	NGN Distribution SBC	2013	2060	2060	1	5	3
DN-IP: layer 3 distribution router - chassis	IP Distribution routing	1992	2060	2060	1	5	9
DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	IP Distribution routing	1992	2060	2060	1	5	3
DN-IP: layer 3 distribution router - 1GE optical port adaptor	IP Distribution routing	1992	2060	2060	1	5	3
DN-IP: layer 3 distribution router - 2 x 10GE optical port card	IP Distribution routing	1992	2060	2060	1	5	3
DN-Common: Air conditioning unit - Other		1992	2060	2060	1	10	9
DN-Common: UPS and Generator - Other		1992	2060	2060	1	10	9
CN-Common: Site rental for core - PSTN		1992	2060	2060	0	50	12
CN-Common: Site rental for core - Other		1992	2060	2060	1	50	12
CN-Common: Air conditioning unit - PSTN		1992	2060	2060	0	10	9
CN-Common: UPS and Generator - PSTN		1992	2060	2060	0	10	9
CN-TDM: Call Server processor (softswitch)	TDM call servers	2003	2016	2060	1	100	9
CN-TDM: Call Server software	TDM call servers	2003	2016	2060	1	5	3
CN-TDM: Media Gateway switchblock	TDM Core switching	2003	2016	2060	1	100	9
CN-TDM: international gateway (IGW) processor	TDM International switching	2003	2016	2060	1	10	9
CN-TDM: international gateway (IGW) switchblock	TDM International switching	2003	2016	2060	1	10	9
CN-TDM: international gateway (IGW) software	TDM International switching	2003	2016	2060	1	5	3
CN-TDM: interconnect ports - E1 ports	TDM Voice interconnection	2003	2016	2060	1	5	3
CN-TDM: Media Gateway STM4 ATM ports	TDM Core switching	2003	2016	2060	1	8	9
CN-Common: Air conditioning unit - Other		1992	2060	2060	1	10	9
CN-Common: UPS and Generator - Other		1992	2060	2060	1	10	9
CN-IP: interco SBC - chassis	NGN Interconnect SBC	2013	2060	2060	1	5	9
CN-IP: interco SBC - 1GE port card	NGN Interconnect SBC	2013	2060	2060	1	5	3
CN-IP: Call Server processor (softswitch)	NGN call servers	2013	2060	2060	1	5	9
CN-IP: Call Server software	NGN call servers	2013	2060	2060	1	5	3
CN-TDM: interconnect trunk gateway (TGW)	NGN ss7 Voice interconnection	2013	2060	2060	1	5	9
CN - Interconnect trunk gateway E1 ports	NGN ss7 Voice interconnection	2013	2060	2060	1	5	3
CN-IP: layer 3 peering router - chassis	NGN SIP Voice interconnection	2013	2060	2060	1	5	9
CN-IP: layer 3 peering router - 4 x 1GE port card	NGN SIP Voice interconnection	2013	2060	2060	1	5	3
CN-IP: layer 3 peering router - 10 x 100Mbps port card	NGN SIP Voice interconnection	2013	2060	2060	1	5	3
CN-IP: layer 3 peering router - 10 x 10Mbps port card	NGN SIP Voice interconnection	2013	2060	2060	1	5	3
CN-IP: layer 2 services switch - chassis	IP Core routing	1992	2060	2060	1	5	9
CN-IP: layer 2 services switch - 48 x 1GE ports card	IP Core routing	1992	2060	2060	1	5	3
CN-IP: layer 2 services switch - 12 x 10GE optical ports card	IP Core routing	1992	2060	2060	1	5	3
CN-IP: IP/MPLS router - chassis	IP Core routing	1992	2060	2060	1	5	9
CN-IP: IP/MPLS router - 4 x 10GE port cards	IP Core routing	1992	2060	2060	1	5	3
CN: BRAS	IP Core routing	1992	2060	2060	1	8	9
CN: DNS		1992	2060	2060	1	6	6
CN: RADIUS		1992	2060	2060	1	6	6
CN: VAS, IN platforms		1992	2060	2060	1	6	6
CN: Billing system		1992	2060	2060	1	5	9
Network management system: common		1992	2060	2060	1	5	9

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Clock and synchronisation equipment		1992	2060	2060	1	5	9
Network management system: PSTN		1992	2060	2060	1	5	9
Network management system: NGN voice		1992	2060	2060	1	5	9
CPE: terminal adaptor (Pure VoIP operator) - traffic related only	NGN voice access	1992	2060	2060	1	5	3
Wireless links: antenna towers and ancillary		1992	2060	2060	1	10	12
Wireless links: transmission equipment		1992	2060	2060	1	10	12
Wireless links: repeaters		1992	2060	2060	1	10	12
Access transmission - submarine fibre cables (km)		1992	2060	2060	1	15	12
Access transmission - terrestrial fibre cables (km)		1992	2060	2060	1	20	12
Access transmission - trench (km)		1992	2060	2060	1	40	12
Access transmission - ODF (12 fibre)		1992	2060	2060	1	10	9
Access transmission - PDH 2Mbps terminal	TDM Access transmission	1992	2020	2060	1	8	9
Access transmission - PDH 8Mbps terminal	TDM Access transmission	1992	2020	2060	1	8	9
Access transmission - SDH STM-0 ADM	TDM Access transmission	1992	2020	2060	1	8	9
Access transmission - SDH STM-1 ADM	TDM Access transmission	1992	2020	2060	1	8	9
Access transmission - SDH STM-4 ADM	TDM Access transmission	1992	2020	2060	1	8	9
Access transmission - SDH STM-16 ADM	TDM Access transmission	1992	2020	2060	1	8	9
Access transmission - SDH STM-64 ADM	TDM Access transmission	1992	2020	2060	1	8	9
Access transmission - SDH regenerator	TDM Access transmission	1992	2020	2060	1	8	9
Access transmission - STM4 cross-connect	Digital cross-connects	1992	2020	2060	1	8	9
Access transmission - CWDM ADM	IP Access transmission	1992	2060	2060	1	8	9
Access transmission - CWDM Terminal	IP Access transmission	1992	2060	2060	1	8	9
Access transmission - CWDM 1GE transponder	IP Access transmission	1992	2060	2060	1	5	9
Access transmission - CWDM 10GE transponder	IP Access transmission	1992	2060	2060	1	5	9
Access transmission - leased dark fibre DSLAM/MSAN-ER	IP Access transmission	1992	2060	2060	1	15	0
Access transmission - leased dark fibre ER-DR	IP Access transmission	1992	2060	2060	1	15	0
Access transmission - Ethernet leased lines DSLAM/MSAN-ER	IP Access transmission	1992	2060	2060	1	5	0
Access transmission - Ethernet leased lines ER-DR	IP Access transmission	1992	2060	2060	1	5	0
Distribution transmission - submarine fibre cables (km)		1992	2060	2060	1	15	12
Distribution transmission - terrestrial fibre cables (km)		1992	2060	2060	1	20	12
Distribution transmission - trench (km)		1992	2060	2060	1	40	12
Distribution transmission - ODF (48-fibre)		1992	2060	2060	1	10	9
Distribution transmission - SDH STM-0 ADM	TDM Distribution transmission	1992	2020	2060	1	8	9
Distribution transmission - SDH STM-1 ADM	TDM Distribution transmission	1992	2020	2060	1	8	9
Distribution transmission - SDH STM-4 ADM	TDM Distribution transmission	1992	2020	2060	1	8	9
Distribution transmission - SDH STM-16 ADM	TDM Distribution transmission	1992	2020	2060	1	8	9
Distribution transmission - SDH STM-64 ADM	TDM Distribution transmission	1992	2020	2060	1	8	9
Distribution transmission - SDH regenerator	TDM Distribution transmission	1992	2020	2060	1	8	9
Distribution transmission - STM16 cross-connect	Digital cross-connects	1992	2020	2060	1	8	9
Distribution transmission - DWDM ADM	IP Distribution transmission	1992	2060	2060	1	8	9
Distribution transmission - DWDM Terminal	IP Distribution transmission	1992	2060	2060	1	8	9
Distribution transmission - DWDM 10GE transponder	IP Distribution transmission	1992	2060	2060	1	5	9
Distribution transmission - DWDM 40GE transponder	IP Distribution transmission	1992	2060	2060	1	5	9
Distribution transmission - leased dark fibre DR-CR	IP Distribution transmission	1992	2060	2060	1	15	0
Distribution transmission - Ethernet signal amplifier	IP Distribution transmission	1992	2060	2060	1	8	9
Core transmission - submarine fibre cables (km)		1992	2060	2060	1	15	12

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Core transmission - terrestrial fibre cables (km)		1992	2060	2060	1	20	12
Core transmission - trench (km)		1992	2060	2060	1	40	12
Core transmission - ODF (96-fibre)		1992	2060	2060	1	10	9
Core transmission - SDH STM-0 ADM	TDM Core transmission	1992	2020	2060	1	8	9
Core transmission - SDH STM-1 ADM	TDM Core transmission	1992	2020	2060	1	8	9
Core transmission - SDH STM-4 ADM	TDM Core transmission	1992	2020	2060	1	8	9
Core transmission - SDH STM-16 ADM	TDM Core transmission	1992	2020	2060	1	8	9
Core transmission - SDH STM-64 ADM	TDM Core transmission	1992	2020	2060	1	8	9
Core transmission - SDH regenerator	TDM Core transmission	1992	2020	2060	1	8	9
Core transmission - STM64 cross-connect	Digital cross-connects	1992	2020	2060	1	8	9
Core transmission - DWDM ADM	IP Core transmission	1992	2060	2060	1	8	9
Core transmission - DWDM 40GE transponder	IP Core transmission	1992	2060	2060	1	5	9
Core transmission - DWDM signal amplifier	IP Core transmission	1992	2060	2060	1	8	9
Core transmission - leased dark fibre CR-CR	IP Core transmission	1992	2060	2060	1	15	0
Core transmission - Ethernet signal amplifier	IP Core transmission	1992	2060	2060	1	8	9
Access transmission - Ethernet signal amplifier	IP Access transmission	1992	2060	2060	1	8	9
Decommissioning of RSX	TDM Access switching	1992	2060	2060	0	100	0
Decommissioning of LS	TDM Distribution switching	1992	2060	2060	0	100	0
Decommissioning of MGW	TDM Core switching	1992	2060	2060	0	100	0
Decommissioning of CS	TDM call servers	1992	2060	2060	0	100	0
Business Overheads (Capex)		1991	2060	2060	1	1	0
Business Overheads (Opex)		1991	2060	2060	1	1	0
NGN DSLAM - processor/rack	IP Access routing	2013	2060	2060	1	5	9
NGN DSLAM - POTS line card	IP Access routing	2013	2060	2060	1	5	3
NGN DSLAM - xDSL line card	IP Access routing	2013	2060	2060	1	5	3
NGN DSLAM - fibre line card	IP Access routing	2013	2060	2060	1	5	3
NGN DSLAM - splitter	IP Access routing	2013	2060	2060	1	5	3
CN-IP: PE router - chassis	NGN voice access	2013	2060	2060	1	5	9
CN-IP: PE router - 4x1GE port cards	NGN voice access	2013	2060	2060	1	5	3
spare		2013					
CN-IP: Distribution SBC - software licences	NGN Distribution SBC	2013	2060	2060	1	5	3
CN-IP: Interconnect SBC - software licences	NGN Interconnect SBC	2013	2060	2060	1	5	3
IMS core: CS - upgrades (subscriber-driven)	NGN call servers	2013	2060	2060	1	5	3
IMS core: CS - upgrades (voice-driven)	NGN call servers	2013	2060	2060	1	5	3
IMS core: MTAS (Residential voice services)	NGN call servers	2013	2060	2060	1	5	9
IMS core: MTAS (Business voice and ISDN)	NGN call servers	2013	2060	2060	1	5	9
NGN DSLAM - mini-processor/rack	IP Access routing	2013	2060	2060	1	5	9
CN-IP: layer 2 services switch - 12 x 40GE optical ports card	IP Core routing	1992	2060	2060	1	5	3
DN-IP: layer 3 distribution router - 2 x 40GE optical port card	IP Distribution routing	1992	2060	2060	1	5	3
spare							
spare							
spare							
spare							
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spare							

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Asset_list	Asset_type	Asset_recc	Asset_rem	Asset_Yea	retirement_	asset_lifeti	asset_plan
spare							
spare							
spare							
spare							
spare							
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Note: asset costs listed below are assumed to already include the I&C and

2009 Capex direct cost per unit	Capex I&C mark-up	Capex spares mark-up	Opex as a proportion of capex		2009 Capex per unit (NOK)	2009 Opex per unit (NOK)	Cost category	Selected cost trend
0	-%	-%			-	15,000	Accommodatior	Sites
0	-%	-%			-	15,000	Accommodatior	Sites
80,000	-%	-%	2%		80,000	1,600	Accommodatior	Air_conditioning
210,000	-%	-%	4%		210,000	8,400	Accommodatior	Power
450,000	-%	-%	9.0%		450,000	40,500	Voice platform	TDM_chassis
6,000	-%	-%	6.0%		6,000	360	Voice platform	Line_cards
6,000	-%	-%	6.0%		6,000	360	Voice platform	Line_cards
40,000	-%	-%	6.0%		40,000	2,400	Voice platform	Line_cards
100	-%	-%	10%		100	10	Voice platform	Line_cards
450,000	-%	-%	-%	Should not	450,000	-	Voice platform	TDM_chassis
145,000	-%	-%	30%		145,000	43,500	Broadband platf	IP_chassis
6,000	-%	-%	30%		6,000	1,800	Broadband platf	Line_cards
2,000	-%	-%	30%		2,000	600	Broadband platf	Port_cards
20,000	-%	-%	30%		20,000	6,000	Broadband platf	Port_cards
80000	-%	-%	2%		80,000	1,600	Accommodatior	Air_conditioning
210000	-%	-%	4%		210,000	8,400	Accommodatior	Power
80,000	-%	-%	30%		80,000	24,000	Converged platf	IP_chassis
225,000	-%	-%	30%		225,000	67,500	Converged platf	IP_chassis
5,000	-%	-%	30%		5,000	1,500	Converged platf	Line_cards
40,000	-%	-%	30%		40,000	12,000	Converged platf	Line_cards
100	-%	-%	30%		100	30	Converged platf	Line_cards
2,000	-%	-%	30%		2,000	600	Converged platf	Port_cards
20,000	-%	-%	30%		20,000	6,000	Converged platf	Port_cards
75,000	-%	-%	20%		75,000	15,000	Data network	IP_chassis
25,000	-%	-%	20%		25,000	5,000	Data network	Port_cards
25,000	-%	-%	20%		25,000	5,000	Data network	Port_cards
75,000	-%	-%	20%		75,000	15,000	Data network	Port_cards
-	-%	-%	-%		-	-	Other	Flat_real
50,000	-%	-%	20%		50,000	10,000	Data network	IP_chassis
50,000	-%	-%	20%		50,000	10,000	Data network	Port_cards
25,000	-%	-%	20%		25,000	5,000	Data network	Port_cards
250,000	-%	-%	20%		250,000	50,000	Data network	Port_cards
0	-%	-%			-	300,000	Accommodatior	Sites
0	-%	-%			-	300,000	Accommodatior	Sites
1,600,000	-%	-%	2%		1,600,000	32,000	Accommodatior	Air_conditioning
4,200,000	-%	-%	4%		4,200,000	168,000	Accommodatior	Power

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5,500,000	-%	-%	9.0%	5,500,000	495,000	Voice platform	TDM_chassis
2,200,000	-%	-%	9.0%	2,200,000	198,000	Voice platform	TDM_chassis
500,000	-%	-%	20%	500,000	100,000	Voice platform	Software
1,000,000	-%	-%	20%	1,000,000	200,000	Converged platf	IP_chassis
300,000	-%	-%	20%	300,000	60,000	Converged platf	Port_cards
50,000	-%	-%	20%	50,000	10,000	Data network	IP_chassis
30,000	-%	-%	20%	30,000	6,000	Data network	Port_cards
25,000	-%	-%	20%	25,000	5,000	Data network	Port_cards
250,000	-%	-%	20%	250,000	50,000	Data network	Port_cards
1600000	-%	-%	2%	1,600,000	32,000	Accommodatior	Air_conditioning
4200000	-%	-%	4%	4,200,000	168,000	Accommodatior	Power
0	-%	-%		-	1,050,000	Accommodatior	Sites
0	-%	-%		-	1,050,000	Accommodatior	Sites
5,600,000	-%	-%	2%	5,600,000	112,000	Accommodatior	Air_conditioning
14,700,000	-%	-%	4%	14,700,000	588,000	Accommodatior	Power
6,700,000	-%	-%	20%	6,700,000	1,340,000	Voice platform	Software
10,000,000	-%	-%	20%	10,000,000	2,000,000	Voice platform	Software
8,000,000	-%	-%	9.0%	8,000,000	720,000	Voice platform	TDM_chassis
3,000,000	-%	-%	9.0%	3,000,000	270,000	Voice platform	TDM_chassis
2,250,000	-%	-%	9.0%	2,250,000	202,500	Voice platform	TDM_chassis
500,000	-%	-%	20%	500,000	100,000	Voice platform	Software
11,000	-%	-%	20%	11,000	2,200	Voice platform	Line_cards
42,000	-%	-%	8.0%	42,000	3,360	Voice platform	Line_cards
5600000	-%	-%	2%	5,600,000	112,000	Accommodatior	Air_conditioning
14700000	-%	-%	4%	14,700,000	588,000	Accommodatior	Power
1,000,000	-%	-%	20%	1,000,000	200,000	Converged platf	IP_chassis
300,000	-%	-%	20%	300,000	60,000	Converged platf	Port_cards
2,700,000	-%	-%	20%	2,700,000	540,000	Converged platf	IP_chassis
-	-%	-%	20%	-	-	Converged platf	IP_chassis
400,000	-%	-%	30%	400,000	120,000	Converged platf	TDM_chassis
11,000	-%	-%	20%	11,000	2,200	Converged platf	Line_cards
50,000	-%	-%	20%	50,000	10,000	Data network	IP_chassis
30,000	-%	-%	20%	30,000	6,000	Data network	Port_cards
12,000	-%	-%	20%	12,000	2,400	Data network	Port_cards
4,800	-%	-%	20%	4,800	960	Data network	Port_cards
75,000	-%	-%	20%	75,000	15,000	Data network	IP_chassis
25,000	-%	-%	20%	25,000	5,000	Data network	Port_cards
75,000	-%	-%	20%	75,000	15,000	Data network	Port_cards
1,500,000	-%	-%	20%	1,500,000	300,000	Data network	IP_chassis
1,800,000	-%	-%	20%	1,800,000	360,000	Data network	Port_cards
1,100,000	-%	-%	20%	1,100,000	220,000	Data network	Service_platforms
250,000	-%	-%	20%	250,000	50,000	Broadband platf	Service_platforms
250,000	-%	-%	20%	250,000	50,000	Broadband platf	Service_platforms
55,000,000	-%	-%	10%	55,000,000	5,500,000	Voice platform	Service_platforms
20,000,000	-%	-%	10%	20,000,000	2,000,000	Other core platf	Network_management_and_billing_platforms
150,000,000	-%	-%	10%	150,000,000	15,000,000	Other core platf	Network_management_and_billing_platforms

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3,500,000	-%	-%	50%		3,500,000	1,750,000	Transmission a	Network_management_and_billing_platforms
150,000,000	-%	-%	10%		150,000,000	15,000,000	Other core platf	Network_management_and_billing_platforms
375,000	-%	-%	10%		375,000	37,500	Other core platf	Network_management_and_billing_platforms
-	-%	-%	-%		-	-	Converged platf	IP_chassis
650,000	-%	-%	5.0%		650,000	32,500	Transmission tr	Trench_civil_works
300,000	-%	-%	3%		300,000	9,000	Transmission a	Microwave
550,000	-%	-%	5%		550,000	27,500	Transmission a	Microwave
85,000	-%	-%	2.0%		85,000	1,700	Transmission tr	Fibre_cables
12,000	-%	-%	2.0%		12,000	240	Transmission tr	Fibre_cables
200,000	-%	-%	-%	Assumes c	200,000	-	Transmission tr	Trench_civil_works
5,000	-%	-%	4%		5,000	200	Transmission a	Active_transmission_equipment
11,000	-%	-%	4%		11,000	440	Transmission a	Active_transmission_equipment
15,000	-%	-%	4%		15,000	600	Transmission a	Active_transmission_equipment
40,000	-%	-%	4%		40,000	1,600	Transmission a	Active_transmission_equipment
80,000	-%	-%	4%		80,000	3,200	Transmission a	Active_transmission_equipment
95,000	-%	-%	4%		95,000	3,800	Transmission a	Active_transmission_equipment
180,000	-%	-%	4%		180,000	7,200	Transmission a	Active_transmission_equipment
600,000	-%	-%	4%		600,000	24,000	Transmission a	Active_transmission_equipment
12,000	-%	-%	4%		12,000	480	Transmission a	Active_transmission_equipment
85,000	-%	-%	3%		85,000	2,550	Transmission a	Active_transmission_equipment
610,000	-%	-%	15%		610,000	91,500	Transmission a	Active_transmission_equipment
610,000	-%	-%	15%		610,000	91,500	Transmission a	Active_transmission_equipment
35,000	-%	-%	15%		35,000	5,250	Transmission a	Active_transmission_equipment
77,000	-%	-%	15%		77,000	11,550	Transmission a	Active_transmission_equipment
-	-%	-%	-%		-	-	Transmission tr	Fibre_cables
-	-%	-%	-%		-	-	Transmission tr	Fibre_cables
-	-%	-%	-%		-	-	Transmission tr	Fibre_cables
-	-%	-%	-%		-	-	Transmission tr	Fibre_cables
85,000	-%	-%	2%		85,000	1,700	Transmission tr	Fibre_cables
12,000	-%	-%	2%		12,000	240	Transmission tr	Fibre_cables
200,000	-%	-%	-%		200,000	-	Transmission tr	Trench_civil_works
12,000	-%	-%	4%		12,000	480	Transmission a	Active_transmission_equipment
40,000	-%	-%	4%		40,000	1,600	Transmission a	Active_transmission_equipment
80,000	-%	-%	4%		80,000	3,200	Transmission a	Active_transmission_equipment
95,000	-%	-%	4%		95,000	3,800	Transmission a	Active_transmission_equipment
180,000	-%	-%	4%		180,000	7,200	Transmission a	Active_transmission_equipment
600,000	-%	-%	4%		600,000	24,000	Transmission a	Active_transmission_equipment
12,000	-%	-%	4%		12,000	480	Transmission a	Active_transmission_equipment
200,000	-%	-%	3%		200,000	6,000	Transmission a	Active_transmission_equipment
875,000	-%	-%	15%		875,000	131,250	Transmission a	Active_transmission_equipment
875,000	-%	-%	15%		875,000	131,250	Transmission a	Active_transmission_equipment
110,000	-%	-%	15%		110,000	16,500	Transmission a	Active_transmission_equipment
175,000	-%	-%	15%		175,000	26,250	Transmission a	Active_transmission_equipment
-	-%	-%	-%		660,000	139,209,600	Transmission tr	Fibre_cables
200,000	-%	-%	15%		200,000	30,000	Transmission a	Active_transmission_equipment
85,000	-%	-%	2%		85,000	1,700	Transmission tr	Fibre_cables

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12,000	-%	-%	2%	12,000	240	Transmission tr	Fibre_cables
200,000	-%	-%	-%	200,000	-	Transmission tr	Trench_civil_works
20,000	-%	-%	4%	20,000	800	Transmission a	Active_transmission_equipment
40,000	-%	-%	4%	40,000	1,600	Transmission a	Active_transmission_equipment
80,000	-%	-%	4%	80,000	3,200	Transmission a	Active_transmission_equipment
95,000	-%	-%	4%	95,000	3,800	Transmission a	Active_transmission_equipment
180,000	-%	-%	4%	180,000	7,200	Transmission a	Active_transmission_equipment
600,000	-%	-%	4%	600,000	24,000	Transmission a	Active_transmission_equipment
12,000	-%	-%	4%	12,000	480	Transmission a	Active_transmission_equipment
650,000	-%	-%	3%	650,000	19,500	Transmission a	Active_transmission_equipment
875,000	-%	-%	15%	875,000	131,250	Transmission a	Active_transmission_equipment
175,000	-%	-%	15%	175,000	26,250	Transmission a	Active_transmission_equipment
520,000	-%	-%	15%	520,000	78,000	Transmission a	Active_transmission_equipment
-	-%	-%	-%	-	-	Transmission tr	Fibre_cables
200,000	-%	-%	15%	200,000	30,000	Transmission a	Active_transmission_equipment
200,000	-%	-%	15%	200,000	30,000	Transmission a	Active_transmission_equipment
-	-%	-%	-%	-	-	Voice platform	TDM_chassis
-	-%	-%	-%	-	-	Voice platform	TDM_chassis
-	-%	-%	-%	-	-	Voice platform	TDM_chassis
-	-%	-%	-%	-	-	Voice platform	TDM_chassis
90,000,000	-%	-%	-%	90,000,000	-	Overheads	Flat_real
-	-%	-%	-%	-	225,000,000	Overheads	Flat_real
70,000	-%	-%	20%	70,000	14,000	Converged platf	IP_chassis
7,000	-%	-%	20%	7,000	1,400	Converged platf	Line_cards
7,000	-%	-%	20%	7,000	1,400	Converged platf	Line_cards
8,500	-%	-%	20%	8,500	1,700	Converged platf	Line_cards
100	-%	-%	20%	100	20	Converged platf	Line_cards
300,000	-%	-%	20%	300,000	60,000	Converged platf	IP_chassis
40,000	-%	-%	20%	40,000	8,000	Converged platf	Port_cards
	-%	-%	-%	-	-		Flat_real
12,000	-%	-%	-%	12,000	-	Converged platf	Software
12,000	-%	-%	-%	12,000	-	Converged platf	Software
50	-%	-%	-%	50	-	Converged platf	Software
8	-%	-%	-%	8	-	Converged platf	Software
240,000	-%	-%	20%	240,000	48,000	Converged platf	IP_chassis
1,400,000	-%	-%	20%	1,400,000	280,000	Converged platf	IP_chassis
40,000	-%	-%	20%	40,000	8,000	Converged platf	IP_chassis
120,000	-%	-%	20%	120,000	24,000	Data network	Port_cards
400,000	-%	-%	20%	400,000	80,000	Data network	Port_cards
	-%	-%	-%	-	-		Flat_real
	-%	-%	-%	-	-		Flat_real
	-%	-%	-%	-	-		Flat_real
	-%	-%	-%	-	-		Flat_real
	-%	-%	-%	-	-		Flat_real
	-%	-%	-%	-	-		Flat_real
	-%	-%	-%	-	-		Flat_real

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	-%	-%	-%	-	-		Flat_real
	-%	-%	-%	-	-		Flat_real
	-%	-%	-%	-	-		Flat_real

Network asset calculations

Calculates total number of items deployed and incremental deployment in each year (including re

1991

Required units in full network

Year average requirement

Retirement algorithm below looks back up to 2 y

AN-Common: Site rental for core - PSTN	0	0	-
AN-Common: Site rental for core - Other	0	0	-
AN-Common: Air conditioning unit - PSTN	0	0	-
AN-Common: UPS and Generator - PSTN	0	0	-
AN-TDM: RSX processor/rack	0	0	-
AN-TDM: RSX line card - PSTN	0	0	-
AN-TDM: RSX line card - ISDN 2	0	0	-
AN-TDM: RSX line card - ISDN 30	0	0	-
AN-TDM: MDF splitter cards	0	0	-
AN-TDM: Replacement of RSX processor/rack	0	0	-
AN-IP: DSLAM processor/rack	0	0	-
AN-IP: DSLAM line cards - xDSL	0	0	-
AN-IP: DSLAM core-facing ports - 1GE electrical port	0	0	-
AN-IP: DSLAM core-facing ports - 1GE optical port	0	0	-
AN-Common: Air conditioning unit - Other	0	0	-
AN-Common: UPS and Generator - Other	0	0	-
AN-IP: mini-MSAN processor/rack	0	0	-
AN-IP: MSAN processor/rack	0	0	-
AN-IP: MSAN line card - PSTN	0	0	-
AN-IP: MSAN line card - xDSL	0	0	-
AN-IP: MSAN line card - splitter	0	0	-
AN-IP: MSAN core-facing ports - 1GE electrical port	0	0	-
AN-IP: MSAN core-facing ports - 1GE optical port	0	0	-
AN-IP: layer 2 switch - chassis	0	0	-
AN-IP: layer 2 switch - 48 x 1GE electrical ports card	0	0	-
AN-IP: layer 2 switch - 1GE optical port adaptor	0	0	-
AN-IP: layer 2 switch - 12 x 10GE optical ports card	0	0	-
spare	0	0	-
AN-IP: layer 3 edge router - chassis	0	0	-
AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	0	0	-
AN-IP: layer 3 edge router - 1GE optical port adaptor	0	0	-
AN-IP: layer 3 edge router - 2 x 10GE optical ports card	0	0	-
DN-Common: Site rental for core - PSTN	0	0	-
DN-Common: Site rental for core - Other	0	0	-
DN-Common: Air conditioning unit - PSTN	0	0	-
DN-Common: UPS and Generator - PSTN	0	0	-
DN-TDM: LS chassis/processor	0	0	-

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DN-TDM: LS switchblock	0	0	-
DN-TDM: LS software	0	0	-
DN-IP: distribution SBC - chassis	0	0	-
DN-IP: distribution SBC - 1GE port card	0	0	-
DN-IP: layer 3 distribution router - chassis	0	0	-
DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	0	0	-
DN-IP: layer 3 distribution router - 1GE optical port adaptor	0	0	-
DN-IP: layer 3 distribution router - 2 x 10GE optical port card	0	0	-
DN-Common: Air conditioning unit - Other	0	0	-
DN-Common: UPS and Generator - Other	0	0	-
CN-Common: Site rental for core - PSTN	0	0	-
CN-Common: Site rental for core - Other	0	0	-
CN-Common: Air conditioning unit - PSTN	0	0	-
CN-Common: UPS and Generator - PSTN	0	0	-
CN-TDM: Call Server processor (softswitch)	0	0	-
CN-TDM: Call Server software	0	0	-
CN-TDM: Media Gateway switchblock	0	0	-
CN-TDM: international gateway (IGW) processor	0	0	-
CN-TDM: international gateway (IGW) switchblock	0	0	-
CN-TDM: international gateway (IGW) software	0	0	-
CN-TDM: interconnect ports - E1 ports	0	0	-
CN-TDM: Media Gateway STM4 ATM ports	0	0	-
CN-Common: Air conditioning unit - Other	0	0	-
CN-Common: UPS and Generator - Other	0	0	-
CN-IP: interco SBC - chassis	0	0	-
CN-IP: interco SBC - 1GE port card	0	0	-
CN-IP: Call Server processor (softswitch)	0	0	-
CN-IP: Call Server software	0	0	-
CN-TDM: interconnect trunk gateway (TGW)	0	0	-
CN - Interconnect trunk gateway E1 ports	0	0	-
CN-IP: layer 3 peering router - chassis	0	0	-
CN-IP: layer 3 peering router - 4 x 1GE port card	0	0	-
CN-IP: layer 3 peering router - 10 x 100Mbps port card	0	0	-
CN-IP: layer 3 peering router - 10 x 10Mbps port card	0	0	-
CN-IP: layer 2 services switch - chassis	0	0	-
CN-IP: layer 2 services switch - 48 x 1GE ports card	0	0	-
CN-IP: layer 2 services switch - 12 x 10GE optical ports card	0	0	-
CN-IP: IP/MPLS router - chassis	0	0	-
CN-IP: IP/MPLS router - 4 x 10GE port cards	0	0	-
CN: BRAS	0	0	-
CN: DNS	0	0	-
CN: RADIUS	0	0	-
CN: VAS, IN platforms	0	0	-
CN: Billing system	0	0	-
Network management system: common	0	0	-
Clock and synchronisation equipment	0	0	-

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Network management system: PSTN	0	0	-
Network management system: NGN voice	0	0	-
CPE: terminal adaptor (Pure VoIP operator) - traffic related only	0	0	-
Wireless links: antenna towers and ancillary	0	0	-
Wireless links: transmission equipment	0	0	-
Wireless links: repeaters	0	0	-
Access transmission - submarine fibre cables (km)	0	0	-
Access transmission - terrestrial fibre cables (km)	0	0	-
Access transmission - trench (km)	0	0	-
Access transmission - ODF (12 fibre)	0	0	-
Access transmission - PDH 2Mbps terminal	0	0	-
Access transmission - PDH 8Mbps terminal	0	0	-
Access transmission - SDH STM-0 ADM	0	0	-
Access transmission - SDH STM-1 ADM	0	0	-
Access transmission - SDH STM-4 ADM	0	0	-
Access transmission - SDH STM-16 ADM	0	0	-
Access transmission - SDH STM-64 ADM	0	0	-
Access transmission - SDH regenerator	0	0	-
Access transmission - STM4 cross-connect	0	0	-
Access transmission - CWDM ADM	0	0	-
Access transmission - CWDM Terminal	0	0	-
Access transmission - CWDM 1GE transponder	0	0	-
Access transmission - CWDM 10GE transponder	0	0	-
Access transmission - leased dark fibre DSLAM/MSAN-ER	0	0	-
Access transmission - leased dark fibre ER-DR	0	0	-
Access transmission - Ethernet leased lines DSLAM/MSAN-ER	0	0	-
Access transmission - Ethernet leased lines ER-DR	0	0	-
Distribution transmission - submarine fibre cables (km)	0	0	-
Distribution transmission - terrestrial fibre cables (km)	0	0	-
Distribution transmission - trench (km)	0	0	-
Distribution transmission - ODF (48-fibre)	0	0	-
Distribution transmission - SDH STM-0 ADM	0	0	-
Distribution transmission - SDH STM-1 ADM	0	0	-
Distribution transmission - SDH STM-4 ADM	0	0	-
Distribution transmission - SDH STM-16 ADM	0	0	-
Distribution transmission - SDH STM-64 ADM	0	0	-
Distribution transmission - SDH regenerator	0	0	-
Distribution transmission - STM16 cross-connect	0	0	-
Distribution transmission - DWDM ADM	0	0	-
Distribution transmission - DWDM Terminal	0	0	-
Distribution transmission - DWDM 10GE transponder	0	0	-
Distribution transmission - DWDM 40GE transponder	0	0	-
Distribution transmission - leased dark fibre DR-CR	0	0	-
Distribution transmission - Ethernet signal amplifier	0	0	-
Core transmission - submarine fibre cables (km)	0	0	-
Core transmission - terrestrial fibre cables (km)	0	0	-

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Core transmission - trench (km)	0	0	-
Core transmission - ODF (96-fibre)	0	0	-
Core transmission - SDH STM-0 ADM	0	0	-
Core transmission - SDH STM-1 ADM	0	0	-
Core transmission - SDH STM-4 ADM	0	0	-
Core transmission - SDH STM-16 ADM	0	0	-
Core transmission - SDH STM-64 ADM	0	0	-
Core transmission - SDH regenerator	0	0	-
Core transmission - STM64 cross-connect	0	0	-
Core transmission - DWDM ADM	0	0	-
Core transmission - DWDM 40GE transponder	0	0	-
Core transmission - DWDM signal amplifier	0	0	-
Core transmission - leased dark fibre CR-CR	0	0	-
Core transmission - Ethernet signal amplifier	0	0	-
Access transmission - Ethernet signal amplifier	0	0	-
Decommissioning of RSX	0	0	-
Decommissioning of LS	0	0	-
Decommissioning of MGW	0	0	-
Decommissioning of CS	0	0	-
Business Overheads (Capex)	0	0	1
Business Overheads (Opex)	0	0	1
NGN DSLAM - processor/rack			-
NGN DSLAM - POTS line card			-
NGN DSLAM - xDSL line card			-
NGN DSLAM - fibre line card			-
NGN DSLAM - splitter			-
CN-IP: PE router - chassis			-
CN-IP: PE router - 4x1GE port cards			-
spare			-
CN-IP: Distribution SBC - software licences			-
CN-IP: Interconnect SBC - software licences			-
IMS core: CS - upgrades (subscriber-driven)			-
IMS core: CS - upgrades (voice-driven)			-
IMS core: MTAS (Residential voice services)			-
IMS core: MTAS (Business voice and ISDN)			-
NGN DSLAM - mini-processor/rack			-
CN-IP: layer 2 services switch - 12 x 40GE optical ports card			-
DN-IP: layer 3 distribution router - 2 x 40GE optical port card			-
spare			-
spare			-
spare			-
spare			-
spare			-
spare			-
spare			-
spare			-

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spare				-
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spare				-

Deployed assets with retirement algorithm

Year when maximum assets required		Retirement delay (Network.Years)	Max number of assets		
1999	AN-Common: Site rental for core - PSTN	0	2,419	0	-
2016	AN-Common: Site rental for core - Other	1	3,785	0	-
1999	AN-Common: Air conditioning unit - PSTN	0	2,419	0	-
1999	AN-Common: UPS and Generator - PSTN	0	2,419	0	-
2000	AN-TDM: RSX processor/rack	1	4,668	0	-
1996	AN-TDM: RSX line card - PSTN	1	58,325	0	-
2002	AN-TDM: RSX line card - ISDN 2	1	40,439	0	-
2004	AN-TDM: RSX line card - ISDN 30	1	1,258	0	-
2008	AN-TDM: MDF splitter cards	1	750,554	0	-
2015	AN-TDM: Replacement of RSX processor/rack	1	107	0	-
2010	AN-IP: DSLAM processor/rack	1	3,036	0	-
2008	AN-IP: DSLAM line cards - xDSL	1	19,215	0	-
2005	AN-IP: DSLAM core-facing ports - 1GE electrical port	1	410	0	-
2010	AN-IP: DSLAM core-facing ports - 1GE optical port	1	2,626	0	-

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2016	AN-Common: Air conditioning unit - Other	1	3,785	0	-
2016	AN-Common: UPS and Generator - Other	1	3,785	0	-
1991	AN-IP: mini-MSAN processor/rack	1	-	0	-
1991	AN-IP: MSAN processor/rack	1	-	0	-
1991	AN-IP: MSAN line card - PSTN	1	-	0	-
1991	AN-IP: MSAN line card - xDSL	1	-	0	-
1991	AN-IP: MSAN line card - splitter	1	-	0	-
1991	AN-IP: MSAN core-facing ports - 1GE electrical port	1	-	0	-
1991	AN-IP: MSAN core-facing ports - 1GE optical port	1	-	0	-
2013	AN-IP: layer 2 switch - chassis	1	1,315	0	-
2013	AN-IP: layer 2 switch - 48 x 1GE electrical ports card	1	1,315	0	-
2013	AN-IP: layer 2 switch - 1GE optical port adaptor	1	643	0	-
2016	AN-IP: layer 2 switch - 12 x 10GE optical ports card	1	513	0	-
1991	spare	1	-	0	-
2018	AN-IP: layer 3 edge router - chassis	1	558	0	-
2015	AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	1	1,410	0	-
2013	AN-IP: layer 3 edge router - 1GE optical port adaptor	1	3,725	0	-
2018	AN-IP: layer 3 edge router - 2 x 10GE optical ports card	1	1,116	0	-
2000	DN-Common: Site rental for core - PSTN	0	88	0	-
2016	DN-Common: Site rental for core - Other	1	135	0	-
2000	DN-Common: Air conditioning unit - PSTN	0	88	0	-
2000	DN-Common: UPS and Generator - PSTN	0	88	0	-
2000	DN-TDM: LS chassis/processor	1	203	0	-
2000	DN-TDM: LS switchblock	1	203	0	-
2000	DN-TDM: LS software	1	203	0	-
2015	DN-IP: distribution SBC - chassis	1	6	0	-
2015	DN-IP: distribution SBC - 1GE port card	1	6	0	-
2049	DN-IP: layer 3 distribution router - chassis	1	244	0	-
2011	DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	1	370	0	-
2011	DN-IP: layer 3 distribution router - 1GE optical port adaptor	1	704	0	-
2040	DN-IP: layer 3 distribution router - 2 x 10GE optical port card	1	1,200	0	-
2016	DN-Common: Air conditioning unit - Other	1	135	0	-
2016	DN-Common: UPS and Generator - Other	1	135	0	-
2003	CN-Common: Site rental for core - PSTN	0	17	0	-
2016	CN-Common: Site rental for core - Other	1	26	0	-
2003	CN-Common: Air conditioning unit - PSTN	0	16	0	-
2003	CN-Common: UPS and Generator - PSTN	0	16	0	-
2003	CN-TDM: Call Server processor (softswitch)	1	4	0	-
2003	CN-TDM: Call Server software	1	4	0	-
2003	CN-TDM: Media Gateway switchblock	1	28	0	-
2003	CN-TDM: international gateway (IGW) processor	1	2	0	-
2003	CN-TDM: international gateway (IGW) switchblock	1	2	0	-
2003	CN-TDM: international gateway (IGW) software	1	2	0	-
2003	CN-TDM: interconnect ports - E1 ports	1	8,240	0	-
2003	CN-TDM: Media Gateway STM4 ATM ports	1	142	0	-
2016	CN-Common: Air conditioning unit - Other	1	26	0	-

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2016	CN-Common: UPS and Generator - Other	1	26	0	-
2013	CN-IP: interco SBC - chassis	1	6	0	-
2013	CN-IP: interco SBC - 1GE port card	1	11	0	-
2013	CN-IP: Call Server processor (softswitch)	1	3	0	-
2013	CN-IP: Call Server software	1	3	0	-
2013	CN-TDM: interconnect trunk gateway (TGW)	1	19	0	-
2013	CN - Interconnect trunk gateway E1 ports	1	1,160	0	-
1991	CN-IP: layer 3 peering router - chassis	1	-	0	-
1991	CN-IP: layer 3 peering router - 4 x 1GE port card	1	-	0	-
1991	CN-IP: layer 3 peering router - 10 x 100Mbps port card	1	-	0	-
1991	CN-IP: layer 3 peering router - 10 x 10Mbps port card	1	-	0	-
2016	CN-IP: layer 2 services switch - chassis	1	6	0	-
1991	CN-IP: layer 2 services switch - 48 x 1GE ports card	1	-	0	-
2016	CN-IP: layer 2 services switch - 12 x 10GE optical ports card	1	32	0	-
2037	CN-IP: IP/MPLS router - chassis	1	77	0	-
2050	CN-IP: IP/MPLS router - 4 x 10GE port cards	1	616	0	-
1991	CN: BRAS	1	-	0	-
2010	CN: DNS	1	14	0	-
2006	CN: RADIUS	1	3	0	-
1995	CN: VAS, IN platforms	1	4	0	-
1992	CN: Billing system	1	2	0	-
2013	Network management system: common	1	6	0	-
1992	Clock and synchronisation equipment	1	28	0	-
2003	Network management system: PSTN	1	2	0	-
2013	Network management system: NGN voice	1	1	0	-
1991	CPE: terminal adaptor (Pure VoIP operator) - traffic related only	1	-	0	-
1992	Wireless links: antenna towers and ancillary	1	984	0	-
1992	Wireless links: transmission equipment	1	1,092	0	-
1992	Wireless links: repeaters	1	4	0	-
2001	Access transmission - submarine fibre cables (km)	1	1,380	0	-
2001	Access transmission - terrestrial fibre cables (km)	1	31,458	0	-
2001	Access transmission - trench (km)	1	24,348	0	-
2001	Access transmission - ODF (12 fibre)	1	3,948	0	-
1991	Access transmission - PDH 2Mbps terminal	1	-	0	-
2007	Access transmission - PDH 8Mbps terminal	1	7,696	0	-
2015	Access transmission - SDH STM-0 ADM	1	414	0	-
2015	Access transmission - SDH STM-1 ADM	1	371	0	-
2003	Access transmission - SDH STM-4 ADM	1	765	0	-
2001	Access transmission - SDH STM-16 ADM	1	71	0	-
1991	Access transmission - SDH STM-64 ADM	1	-	0	-
2001	Access transmission - SDH regenerator	1	10	0	-
1992	Access transmission - STM4 cross-connect	1	3,948	0	-
2018	Access transmission - CWDM ADM	1	956	0	-
2018	Access transmission - CWDM Terminal	1	388	0	-
2011	Access transmission - CWDM 1GE transponder	1	1,132	0	-
2018	Access transmission - CWDM 10GE transponder	1	1,944	0	-

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1991	Access transmission - leased dark fibre DSLAM/MSAN-ER	1	-	0	-
1991	Access transmission - leased dark fibre ER-DR	1	-	0	-
1991	Access transmission - Ethernet leased lines DSLAM/MSAN-ER	1	-	0	-
1991	Access transmission - Ethernet leased lines ER-DR	1	-	0	-
2001	Distribution transmission - submarine fibre cables (km)	1	577	0	-
2001	Distribution transmission - terrestrial fibre cables (km)	1	10,372	0	-
2001	Distribution transmission - trench (km)	1	4,639	0	-
2001	Distribution transmission - ODF (48-fibre)	1	163	0	-
1991	Distribution transmission - SDH STM-0 ADM	1	-	0	-
2001	Distribution transmission - SDH STM-1 ADM	1	12	0	-
2003	Distribution transmission - SDH STM-4 ADM	1	89	0	-
2013	Distribution transmission - SDH STM-16 ADM	1	230	0	-
2001	Distribution transmission - SDH STM-64 ADM	1	259	0	-
2001	Distribution transmission - SDH regenerator	1	54	0	-
1992	Distribution transmission - STM16 cross-connect	1	163	0	-
2050	Distribution transmission - DWDM ADM	1	779	0	-
2050	Distribution transmission - DWDM Terminal	1	389	0	-
2050	Distribution transmission - DWDM 10GE transponder	1	3,175	0	-
1991	Distribution transmission - DWDM 40GE transponder	1	-	0	-
1991	Distribution transmission - leased dark fibre DR-CR	1	-	0	-
1991	Distribution transmission - Ethernet signal amplifier	1	-	0	-
2001	Core transmission - submarine fibre cables (km)	1	605	0	-
2001	Core transmission - terrestrial fibre cables (km)	1	11,786	0	-
2001	Core transmission - trench (km)	1	778	0	-
2001	Core transmission - ODF (96-fibre)	1	28	0	-
1991	Core transmission - SDH STM-0 ADM	1	-	0	-
1991	Core transmission - SDH STM-1 ADM	1	-	0	-
1991	Core transmission - SDH STM-4 ADM	1	-	0	-
1991	Core transmission - SDH STM-16 ADM	1	-	0	-
2015	Core transmission - SDH STM-64 ADM	1	286	0	-
2001	Core transmission - SDH regenerator	1	131	0	-
1992	Core transmission - STM64 cross-connect	1	28	0	-
2037	Core transmission - DWDM ADM	1	336	0	-
2037	Core transmission - DWDM 40GE transponder	1	5,082	0	-
2001	Core transmission - DWDM signal amplifier	1	107	0	-
1991	Core transmission - leased dark fibre CR-CR	1	-	0	-
1991	Core transmission - Ethernet signal amplifier	1	-	0	-
1991	Access transmission - Ethernet signal amplifier	1	-	0	-
2015	Decommissioning of RSX	0	2,446	0	-
2015	Decommissioning of LS	0	163	0	-
2015	Decommissioning of MGW	0	28	0	-
2015	Decommissioning of CS	0	4	0	-
1991	Business Overheads (Capex)	1	1	0	1
1991	Business Overheads (Opex)	1	1	0	1
2036	NGN DSLAM - processor/rack	1	3,583	0	-
2017	NGN DSLAM - POTS line card	1	12,796	0	-

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2017	NGN DSLAM - xDSL line card	1	14,283	0	-
2050	NGN DSLAM - fibre line card	1	17,993	0	-
2050	NGN DSLAM - splitter	1	17,993	0	-
2013	CN-IP: PE router - chassis	1	28	0	-
2013	CN-IP: PE router - 4x1GE port cards	1	28	0	-
1991	spare	0	-	0	-
2013	CN-IP: Distribution SBC - software licences	1	241	0	-
2013	CN-IP: Interconnect SBC - software licences	1	190	0	-
2013	IMS core: CS - upgrades (subscriber-driven)	1	961,575	0	-
2013	IMS core: CS - upgrades (voice-driven)	1	362,625	0	-
2013	IMS core: MTAS (Residential voice services)	1	31	0	-
2013	IMS core: MTAS (Business voice and ISDN)	1	8	0	-
2017	NGN DSLAM - mini-processor/rack	1	828	0	-
2044	CN-IP: layer 2 services switch - 12 x 40GE optical ports card	1	30	0	-
2049	DN-IP: layer 3 distribution router - 2 x 40GE optical port card	1	88	0	-
1991	spare	0	-	0	-
1991	spare	0	-	0	-
1991	spare	0	-	0	-
1991	spare	0	-	0	-
1991	spare	0	-	0	-
1991	spare	0	-	0	-
1991	spare	0	-	0	-
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1991	spare	0	-	0	-
1991	spare	0	-	0	-
1991	spare	0	-	0	-
1991	spare	0	-	0	-
1991	spare	0	-	0	-
1991	spare	0	-	0	-
1991	spare	0	-	0	-

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1991	spare	0	-	0	-
1991	spare	0	-	0	-

Annual activation (including replacement)

Annual activation = difference between number of required units and number of units previously deployed that are still active
NB This formulation does *not* remove assets before the end of their lifetime even if they are no longer required

	Asset lifetime	Remove from network and	1
AN-Common: Site rental for core - PSTN	50	2060	-
AN-Common: Site rental for core - Other	50	2060	-
AN-Common: Air conditioning unit - PSTN	10	2060	-
AN-Common: UPS and Generator - PSTN	10	2060	-
AN-TDM: RSX processor/rack	100	2016	-
AN-TDM: RSX line card - PSTN	5	2016	-
AN-TDM: RSX line card - ISDN 2	5	2016	-
AN-TDM: RSX line card - ISDN 30	5	2016	-
AN-TDM: MDF splitter cards	5	2016	-
AN-TDM: Replacement of RSX processor/rack	100	2016	-
AN-IP: DSLAM processor/rack	5	2016	-
AN-IP: DSLAM line cards - xDSL	5	2016	-
AN-IP: DSLAM core-facing ports - 1GE electrical port	5	2016	-
AN-IP: DSLAM core-facing ports - 1GE optical port	5	2016	-
AN-Common: Air conditioning unit - Other	10	2060	-
AN-Common: UPS and Generator - Other	10	2060	-
AN-IP: mini-MSAN processor/rack	5	2060	-
AN-IP: MSAN processor/rack	5	2060	-
AN-IP: MSAN line card - PSTN	5	2060	-
AN-IP: MSAN line card - xDSL	5	2060	-
AN-IP: MSAN line card - splitter	5	2060	-
AN-IP: MSAN core-facing ports - 1GE electrical port	5	2060	-
AN-IP: MSAN core-facing ports - 1GE optical port	5	2060	-
AN-IP: layer 2 switch - chassis	5	2060	-
AN-IP: layer 2 switch - 48 x 1GE electrical ports card	5	2060	-
AN-IP: layer 2 switch - 1GE optical port adaptor	5	2060	-
AN-IP: layer 2 switch - 12 x 10GE optical ports card	5	2060	-
spare	5	2060	-
AN-IP: layer 3 edge router - chassis	5	2060	-
AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	5	2060	-
AN-IP: layer 3 edge router - 1GE optical port adaptor	5	2060	-
AN-IP: layer 3 edge router - 2 x 10GE optical ports card	5	2060	-
DN-Common: Site rental for core - PSTN	50	2060	-
DN-Common: Site rental for core - Other	50	2060	-
DN-Common: Air conditioning unit - PSTN	10	2060	-
DN-Common: UPS and Generator - PSTN	10	2060	-
DN-TDM: LS chassis/processor	100	2016	-

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DN-TDM: LS switchblock	100	2016	-
DN-TDM: LS software	5	2016	-
DN-IP: distribution SBC - chassis	5	2060	-
DN-IP: distribution SBC - 1GE port card	5	2060	-
DN-IP: layer 3 distribution router - chassis	5	2060	-
DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	5	2060	-
DN-IP: layer 3 distribution router - 1GE optical port adaptor	5	2060	-
DN-IP: layer 3 distribution router - 2 x 10GE optical port card	5	2060	-
DN-Common: Air conditioning unit - Other	10	2060	-
DN-Common: UPS and Generator - Other	10	2060	-
CN-Common: Site rental for core - PSTN	50	2060	-
CN-Common: Site rental for core - Other	50	2060	-
CN-Common: Air conditioning unit - PSTN	10	2060	-
CN-Common: UPS and Generator - PSTN	10	2060	-
CN-TDM: Call Server processor (softswitch)	100	2016	-
CN-TDM: Call Server software	5	2016	-
CN-TDM: Media Gateway switchblock	100	2016	-
CN-TDM: international gateway (IGW) processor	10	2016	-
CN-TDM: international gateway (IGW) switchblock	10	2016	-
CN-TDM: international gateway (IGW) software	5	2016	-
CN-TDM: interconnect ports - E1 ports	5	2016	-
CN-TDM: Media Gateway STM4 ATM ports	8	2016	-
CN-Common: Air conditioning unit - Other	10	2060	-
CN-Common: UPS and Generator - Other	10	2060	-
CN-IP: interco SBC - chassis	5	2060	-
CN-IP: interco SBC - 1GE port card	5	2060	-
CN-IP: Call Server processor (softswitch)	5	2060	-
CN-IP: Call Server software	5	2060	-
CN-TDM: interconnect trunk gateway (TGW)	5	2060	-
CN - Interconnect trunk gateway E1 ports	5	2060	-
CN-IP: layer 3 peering router - chassis	5	2060	-
CN-IP: layer 3 peering router - 4 x 1GE port card	5	2060	-
CN-IP: layer 3 peering router - 10 x 100Mbps port card	5	2060	-
CN-IP: layer 3 peering router - 10 x 10Mbps port card	5	2060	-
CN-IP: layer 2 services switch - chassis	5	2060	-
CN-IP: layer 2 services switch - 48 x 1GE ports card	5	2060	-
CN-IP: layer 2 services switch - 12 x 10GE optical ports card	5	2060	-
CN-IP: IP/MPLS router - chassis	5	2060	-
CN-IP: IP/MPLS router - 4 x 10GE port cards	5	2060	-
CN: BRAS	8	2060	-
CN: DNS	6	2060	-
CN: RADIUS	6	2060	-
CN: VAS, IN platforms	6	2060	-
CN: Billing system	5	2060	-
Network management system: common	5	2060	-
Clock and synchronisation equipment	5	2060	-

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Network management system: PSTN	5	2060	-
Network management system: NGN voice	5	2060	-
CPE: terminal adaptor (Pure VoIP operator) - traffic related only	5	2060	-
Wireless links: antenna towers and ancillary	10	2060	-
Wireless links: transmission equipment	10	2060	-
Wireless links: repeaters	10	2060	-
Access transmission - submarine fibre cables (km)	15	2060	-
Access transmission - terrestrial fibre cables (km)	20	2060	-
Access transmission - trench (km)	40	2060	-
Access transmission - ODF (12 fibre)	10	2060	-
Access transmission - PDH 2Mbps terminal	8	2020	-
Access transmission - PDH 8Mbps terminal	8	2020	-
Access transmission - SDH STM-0 ADM	8	2020	-
Access transmission - SDH STM-1 ADM	8	2020	-
Access transmission - SDH STM-4 ADM	8	2020	-
Access transmission - SDH STM-16 ADM	8	2020	-
Access transmission - SDH STM-64 ADM	8	2020	-
Access transmission - SDH regenerator	8	2020	-
Access transmission - STM4 cross-connect	8	2020	-
Access transmission - CWDM ADM	8	2060	-
Access transmission - CWDM Terminal	8	2060	-
Access transmission - CWDM 1GE transponder	5	2060	-
Access transmission - CWDM 10GE transponder	5	2060	-
Access transmission - leased dark fibre DSLAM/MSAN-ER	15	2060	-
Access transmission - leased dark fibre ER-DR	15	2060	-
Access transmission - Ethernet leased lines DSLAM/MSAN-ER	5	2060	-
Access transmission - Ethernet leased lines ER-DR	5	2060	-
Distribution transmission - submarine fibre cables (km)	15	2060	-
Distribution transmission - terrestrial fibre cables (km)	20	2060	-
Distribution transmission - trench (km)	40	2060	-
Distribution transmission - ODF (48-fibre)	10	2060	-
Distribution transmission - SDH STM-0 ADM	8	2020	-
Distribution transmission - SDH STM-1 ADM	8	2020	-
Distribution transmission - SDH STM-4 ADM	8	2020	-
Distribution transmission - SDH STM-16 ADM	8	2020	-
Distribution transmission - SDH STM-64 ADM	8	2020	-
Distribution transmission - SDH regenerator	8	2020	-
Distribution transmission - STM16 cross-connect	8	2020	-
Distribution transmission - DWDM ADM	8	2060	-
Distribution transmission - DWDM Terminal	8	2060	-
Distribution transmission - DWDM 10GE transponder	5	2060	-
Distribution transmission - DWDM 40GE transponder	5	2060	-
Distribution transmission - leased dark fibre DR-CR	15	2060	-
Distribution transmission - Ethernet signal amplifier	8	2060	-
Core transmission - submarine fibre cables (km)	15	2060	-
Core transmission - terrestrial fibre cables (km)	20	2060	-

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Core transmission - trench (km)	40	2060	-
Core transmission - ODF (96-fibre)	10	2060	-
Core transmission - SDH STM-0 ADM	8	2020	-
Core transmission - SDH STM-1 ADM	8	2020	-
Core transmission - SDH STM-4 ADM	8	2020	-
Core transmission - SDH STM-16 ADM	8	2020	-
Core transmission - SDH STM-64 ADM	8	2020	-
Core transmission - SDH regenerator	8	2020	-
Core transmission - STM64 cross-connect	8	2020	-
Core transmission - DWDM ADM	8	2060	-
Core transmission - DWDM 40GE transponder	5	2060	-
Core transmission - DWDM signal amplifier	8	2060	-
Core transmission - leased dark fibre CR-CR	15	2060	-
Core transmission - Ethernet signal amplifier	8	2060	-
Access transmission - Ethernet signal amplifier	8	2060	-
Decommissioning of RSX	100	2060	-
Decommissioning of LS	100	2060	-
Decommissioning of MGW	100	2060	-
Decommissioning of CS	100	2060	-
Business Overheads (Capex)	1	2060	1
Business Overheads (Opex)	1	2060	1
NGN DSLAM - processor/rack	5	2060	-
NGN DSLAM - POTS line card	5	2060	-
NGN DSLAM - xDSL line card	5	2060	-
NGN DSLAM - fibre line card	5	2060	-
NGN DSLAM - splitter	5	2060	-
CN-IP: PE router - chassis	5	2060	-
CN-IP: PE router - 4x1GE port cards	5	2060	-
spare	0	0	-
CN-IP: Distribution SBC - software licences	5	2060	-
CN-IP: Interconnect SBC - software licences	5	2060	-
IMS core: CS - upgrades (subscriber-driven)	5	2060	-
IMS core: CS - upgrades (voice-driven)	5	2060	-
IMS core: MTAS (Residential voice services)	5	2060	-
IMS core: MTAS (Business voice and ISDN)	5	2060	-
NGN DSLAM - mini-processor/rack	5	2060	-
CN-IP: layer 2 services switch - 12 x 40GE optical ports card	5	2060	-
DN-IP: layer 3 distribution router - 2 x 40GE optical port card	5	2060	-
spare	0	0	-
spare	0	0	-
spare	0	0	-
spare	0	0	-
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spare	0	0	-
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spare	0	0	-
spare	0	0	-
spare	0	0	-

Direct equipment Purchases (including replacement)

Equipment is purchased n periods before activation, includes all replacement cycles
Fractional units can be purchased to reflect phasing of purchase over annual periods

	Planning period (months)	
AN-Common: Site rental for core - PSTN	12	2,391
AN-Common: Site rental for core - Other	12	1,394
AN-Common: Air conditioning unit - PSTN	9	1,793
AN-Common: UPS and Generator - PSTN	9	1,793
AN-TDM: RSX processor/rack	9	3,385
AN-TDM: RSX line card - PSTN	3	12,975
AN-TDM: RSX line card - ISDN 2	3	-
AN-TDM: RSX line card - ISDN 30	3	-
AN-TDM: MDF splitter cards	3	-
AN-TDM: Replacement of RSX processor/rack	9	-
AN-IP: DSLAM processor/rack	9	-
AN-IP: DSLAM line cards - xDSL	3	-
AN-IP: DSLAM core-facing ports - 1GE electrical port	3	-

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AN-IP: DSLAM core-facing ports - 1GE optical port	3	-
AN-Common: Air conditioning unit - Other	9	1,046
AN-Common: UPS and Generator - Other	9	1,046
AN-IP: mini-MSAN processor/rack	9	-
AN-IP: MSAN processor/rack	9	-
AN-IP: MSAN line card - PSTN	3	-
AN-IP: MSAN line card - xDSL	3	-
AN-IP: MSAN line card - splitter	3	-
AN-IP: MSAN core-facing ports - 1GE electrical port	3	-
AN-IP: MSAN core-facing ports - 1GE optical port	3	-
AN-IP: layer 2 switch - chassis	9	-
AN-IP: layer 2 switch - 48 x 1GE electrical ports card	3	-
AN-IP: layer 2 switch - 1GE optical port adaptor	3	-
AN-IP: layer 2 switch - 12 x 10GE optical ports card	3	-
spare	3	-
AN-IP: layer 3 edge router - chassis	9	-
AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	3	-
AN-IP: layer 3 edge router - 1GE optical port adaptor	3	-
AN-IP: layer 3 edge router - 2 x 10GE optical ports card	3	-
DN-Common: Site rental for core - PSTN	12	81
DN-Common: Site rental for core - Other	12	54
DN-Common: Air conditioning unit - PSTN	9	61
DN-Common: UPS and Generator - PSTN	9	61
DN-TDM: LS chassis/processor	9	122
DN-TDM: LS switchblock	9	122
DN-TDM: LS software	3	41
DN-IP: distribution SBC - chassis	9	-
DN-IP: distribution SBC - 1GE port card	3	-
DN-IP: layer 3 distribution router - chassis	9	-
DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	3	-
DN-IP: layer 3 distribution router - 1GE optical port adaptor	3	-
DN-IP: layer 3 distribution router - 2 x 10GE optical port card	3	-
DN-Common: Air conditioning unit - Other	9	41
DN-Common: UPS and Generator - Other	9	41
CN-Common: Site rental for core - PSTN	12	-
CN-Common: Site rental for core - Other	12	-
CN-Common: Air conditioning unit - PSTN	9	-
CN-Common: UPS and Generator - PSTN	9	-
CN-TDM: Call Server processor (softswitch)	9	-
CN-TDM: Call Server software	3	-
CN-TDM: Media Gateway switchblock	9	-
CN-TDM: international gateway (IGW) processor	9	-
CN-TDM: international gateway (IGW) switchblock	9	-
CN-TDM: international gateway (IGW) software	3	-
CN-TDM: interconnect ports - E1 ports	3	-
CN-TDM: Media Gateway STM4 ATM ports	9	-

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CN-Common: Air conditioning unit - Other	9	-
CN-Common: UPS and Generator - Other	9	-
CN-IP: interco SBC - chassis	9	-
CN-IP: interco SBC - 1GE port card	3	-
CN-IP: Call Server processor (softswitch)	9	-
CN-IP: Call Server software	3	-
CN-TDM: interconnect trunk gateway (TGW)	9	-
CN - Interconnect trunk gateway E1 ports	3	-
CN-IP: layer 3 peering router - chassis	9	-
CN-IP: layer 3 peering router - 4 x 1GE port card	3	-
CN-IP: layer 3 peering router - 10 x 100Mbps port card	3	-
CN-IP: layer 3 peering router - 10 x 10Mbps port card	3	-
CN-IP: layer 2 services switch - chassis	9	-
CN-IP: layer 2 services switch - 48 x 1GE ports card	3	-
CN-IP: layer 2 services switch - 12 x 10GE optical ports card	3	-
CN-IP: IP/MPLS router - chassis	9	-
CN-IP: IP/MPLS router - 4 x 10GE port cards	3	-
CN: BRAS	9	-
CN: DNS	6	-
CN: RADIUS	6	-
CN: VAS, IN platforms	6	2
CN: Billing system	9	2
Network management system: common	9	1
Clock and synchronisation equipment	9	21
Network management system: PSTN	9	1
Network management system: NGN voice	9	-
CPE: terminal adaptor (Pure VoIP operator) - traffic related only	3	-
Wireless links: antenna towers and ancillary	12	984
Wireless links: transmission equipment	12	1,092
Wireless links: repeaters	12	4
Access transmission - submarine fibre cables (km)	12	-
Access transmission - terrestrial fibre cables (km)	12	-
Access transmission - trench (km)	12	-
Access transmission - ODF (12 fibre)	9	-
Access transmission - PDH 2Mbps terminal	9	-
Access transmission - PDH 8Mbps terminal	9	-
Access transmission - SDH STM-0 ADM	9	-
Access transmission - SDH STM-1 ADM	9	-
Access transmission - SDH STM-4 ADM	9	-
Access transmission - SDH STM-16 ADM	9	-
Access transmission - SDH STM-64 ADM	9	-
Access transmission - SDH regenerator	9	-
Access transmission - STM4 cross-connect	9	2,961
Access transmission - CWDM ADM	9	-
Access transmission - CWDM Terminal	9	-
Access transmission - CWDM 1GE transponder	9	-

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Access transmission - CWDM 10GE transponder	9	-
Access transmission - leased dark fibre DSLAM/MSAN-ER	0	-
Access transmission - leased dark fibre ER-DR	0	-
Access transmission - Ethernet leased lines DSLAM/MSAN-ER	0	-
Access transmission - Ethernet leased lines ER-DR	0	-
Distribution transmission - submarine fibre cables (km)	12	-
Distribution transmission - terrestrial fibre cables (km)	12	-
Distribution transmission - trench (km)	12	-
Distribution transmission - ODF (48-fibre)	9	-
Distribution transmission - SDH STM-0 ADM	9	-
Distribution transmission - SDH STM-1 ADM	9	-
Distribution transmission - SDH STM-4 ADM	9	-
Distribution transmission - SDH STM-16 ADM	9	-
Distribution transmission - SDH STM-64 ADM	9	-
Distribution transmission - SDH regenerator	9	-
Distribution transmission - STM16 cross-connect	9	122
Distribution transmission - DWDM ADM	9	-
Distribution transmission - DWDM Terminal	9	-
Distribution transmission - DWDM 10GE transponder	9	-
Distribution transmission - DWDM 40GE transponder	9	-
Distribution transmission - leased dark fibre DR-CR	0	-
Distribution transmission - Ethernet signal amplifier	9	-
Core transmission - submarine fibre cables (km)	12	-
Core transmission - terrestrial fibre cables (km)	12	-
Core transmission - trench (km)	12	-
Core transmission - ODF (96-fibre)	9	-
Core transmission - SDH STM-0 ADM	9	-
Core transmission - SDH STM-1 ADM	9	-
Core transmission - SDH STM-4 ADM	9	-
Core transmission - SDH STM-16 ADM	9	-
Core transmission - SDH STM-64 ADM	9	-
Core transmission - SDH regenerator	9	-
Core transmission - STM64 cross-connect	9	21
Core transmission - DWDM ADM	9	-
Core transmission - DWDM 40GE transponder	9	-
Core transmission - DWDM signal amplifier	9	-
Core transmission - leased dark fibre CR-CR	0	-
Core transmission - Ethernet signal amplifier	9	-
Access transmission - Ethernet signal amplifier	9	-
Decommissioning of RSX	0	-
Decommissioning of LS	0	-
Decommissioning of MGW	0	-
Decommissioning of CS	0	-
Business Overheads (Capex)	0	1
Business Overheads (Opex)	0	1
NGN DSLAM - processor/rack	9	-

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NGN DSLAM - POTS line card	3	-
NGN DSLAM - xDSL line card	3	-
NGN DSLAM - fibre line card	3	-
NGN DSLAM - splitter	3	-
CN-IP: PE router - chassis	9	-
CN-IP: PE router - 4x1GE port cards	3	-
spare	0	-
CN-IP: Distribution SBC - software licences	3	-
CN-IP: Interconnect SBC - software licences	3	-
IMS core: CS - upgrades (subscriber-driven)	3	-
IMS core: CS - upgrades (voice-driven)	3	-
IMS core: MTAS (Residential voice services)	9	-
IMS core: MTAS (Business voice and ISDN)	9	-
NGN DSLAM - mini-processor/rack	9	-
CN-IP: layer 2 services switch - 12 x 40GE optical ports card	3	-
DN-IP: layer 3 distribution router - 2 x 40GE optical port card	3	-
spare	0	-
spare	0	-
spare	0

spare	0	-
spare	0	-
spare	0	-

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placement)

1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002

163	163	163	163	165	166	166	184	203	199	180
163	163	163	163	165	166	166	184	203	199	180
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	6	11	17
-	-	-	-	-	-	-	-	14	52	76
-	-	-	-	-	-	-	-	28	80	120
-	-	-	-	-	-	-	-	8	15	21
54	54	54	54	54	53	53	50	47	48	52
54	54	54	54	54	53	53	50	47	48	52
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	1,380	1,380
-	-	-	-	-	-	-	-	-	31,458	31,458
-	-	-	-	-	-	-	-	-	24,348	24,348
-	-	-	-	-	-	-	-	-	3,948	3,948
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	7,292	7,292
-	-	-	-	-	-	-	-	-	404	404
-	-	-	-	-	-	-	-	-	56	34
-	-	-	-	-	-	-	-	-	730	744
-	-	-	-	-	-	-	-	-	71	59
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	10	10
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	14	54	82
-	-	-	-	-	-	-	-	6	22	34
-	-	-	-	-	-	-	-	32	112	168
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	577	577
-	-	-	-	-	-	-	-	-	10,372	10,372
-	-	-	-	-	-	-	-	-	4,639	4,639
-	-	-	-	-	-	-	-	-	163	163
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	12	12
-	-	-	-	-	-	-	-	-	62	84
-	-	-	-	-	-	-	-	-	107	114
-	-	-	-	-	-	-	-	-	259	250
-	-	-	-	-	-	-	-	-	54	54
163	163	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	605	605
-	-	-	-	-	-	-	-	-	11,786	11,786

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-	-	-	-	-	-	-	-	-	778	778
-	-	-	-	-	-	-	-	-	28	28
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	234	208
-	-	-	-	-	-	-	-	-	131	131
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	4	4
-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	107	107
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

1,394	1,394	1,394	1,394	1,394	1,394	1,394	1,394	1,416	1,466	1,513
1,394	1,394	1,394	1,394	1,394	1,394	1,394	1,394	1,416	1,466	1,513
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	14	40	60
-	-	-	-	-	-	-	-	84	160	240
-	-	-	-	-	-	-	-	303	630	946
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81	81	81	81	81	82	82	85	88	87	83
54	54	54	54	54	54	54	54	54	54	54
81	81	81	81	81	82	82	85	88	87	83
81	81	81	81	81	82	82	85	88	87	83
163	163	163	163	165	166	166	184	203	203	199
163	163	163	163	165	166	166	184	203	203	199
163	163	163	163	165	166	166	184	203	203	199
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-	-	-	-	-	-	-	-	6	11	17
-	-	-	-	-	-	-	-	14	52	76
-	-	-	-	-	-	-	-	28	80	120
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54	54	54	54	54	54	54	54	54	54	54
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-	-	-	-	-	-	-	-	1	2	2
-	-	-	-	-	-	-	-	4	8	10
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	2	4	4
-	-	-	-	-	-	-	-	1	1	1
3	3	3	4	4	4	4	4	4	4	4
2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	4	5	5
28	28	28	28	28	28	28	28	28	28	28
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
-	-	-	-	-	-	-	-	-	1,380	1,380
-	-	-	-	-	-	-	-	-	31,458	31,458
-	-	-	-	-	-	-	-	-	24,348	24,348
-	-	-	-	-	-	-	-	-	3,948	3,948
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	7,292	7,292
-	-	-	-	-	-	-	-	-	404	404
-	-	-	-	-	-	-	-	-	56	56
-	-	-	-	-	-	-	-	-	730	744
-	-	-	-	-	-	-	-	-	71	71
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	10	10
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	14	54	82
-	-	-	-	-	-	-	-	6	22	34
-	-	-	-	-	-	-	-	32	112	168
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	577	577
-	-	-	-	-	-	-	-	-	10,372	10,372
-	-	-	-	-	-	-	-	-	4,639	4,639
-	-	-	-	-	-	-	-	-	163	163
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	12	12
-	-	-	-	-	-	-	-	-	62	84
-	-	-	-	-	-	-	-	-	107	114
-	-	-	-	-	-	-	-	-	259	259
-	-	-	-	-	-	-	-	-	54	54
163	163	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	605	605
-	-	-	-	-	-	-	-	-	11,786	11,786
-	-	-	-	-	-	-	-	-	778	778
-	-	-	-	-	-	-	-	-	28	28
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	234	234
-	-	-	-	-	-	-	-	-	131	131
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	4	4
-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	107	107
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-

2	3	4	5	6	7	8	9	10	11	12
2,391	-	2	-	-	-	-	26	-	-	-
1,394	-	-	-	-	-	-	-	67	91	83
2,391	-	2	-	-	-	-	26	-	-	2,244
2,391	-	2	-	-	-	-	26	-	-	2,244
4,513	-	9	-	-	-	-	137	9	-	-
51,898	1,440	3,811	1,021	155	51,898	866	-	-	-	41,442
-	-	3,948	146	556	2,616	7,147	13,256	11,222	5,004	3,810
-	-	401	-	9	137	9	802	18	146	146
-	-	-	-	-	-	-	-	337	11,438	40,743
-	5	5	5	5	5	5	5	5	5	5
-	-	-	-	-	-	-	-	275	275	275
-	-	-	-	-	-	-	-	275	562	1,115
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	275	275	275
1,394	-	-	-	-	-	-	-	21	50	1,442
1,394	-	-	-	-	-	-	-	21	50	1,442
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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81	-	-	-	0	0	-	3	3	-	-
54	-	-	-	-	-	-	-	-	-	-
81	-	-	-	0	0	-	3	3	-	77
81	-	-	-	0	0	-	3	3	-	77
163	-	-	-	2	1	-	18	19	-	-

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163	-	-	-	2	1	-	18	19	-	-
163	-	-	-	2	164	-	18	19	2	160
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	14	38	24
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54	-	-	-	-	-	-	-	-	-	54
54	-	-	-	-	-	-	-	-	-	54
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

1	-	-	-	-	1	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
984	-	-	-	-	-	-	-	-	-	984
1,092	-	-	-	-	-	-	-	-	-	1,092
4	-	-	-	-	-	-	-	-	-	4
-	-	-	-	-	-	-	-	-	1,380	-
-	-	-	-	-	-	-	-	-	31,458	-
-	-	-	-	-	-	-	-	-	24,348	-
-	-	-	-	-	-	-	-	-	3,948	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	7,292	-
-	-	-	-	-	-	-	-	-	404	-
-	-	-	-	-	-	-	-	-	56	-
-	-	-	-	-	-	-	-	-	730	14
-	-	-	-	-	-	-	-	-	71	-
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3,948	-	-	-	-	-	-	-	3,948	-	-
-	-	-	-	-	-	-	-	14	40	28
-	-	-	-	-	-	-	-	6	16	12
-	-	-	-	-	-	-	-	32	80	56
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	577	-
-	-	-	-	-	-	-	-	-	10,372	-
-	-	-	-	-	-	-	-	-	4,639	-
-	-	-	-	-	-	-	-	-	163	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	12	-
-	-	-	-	-	-	-	-	-	62	22
-	-	-	-	-	-	-	-	-	107	7
-	-	-	-	-	-	-	-	-	259	-
-	-	-	-	-	-	-	-	-	54	-
163	-	-	-	-	-	-	-	163	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	605	-
-	-	-	-	-	-	-	-	-	11,786	-

CONFIDENTIAL © Analysys Mason

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-	-	-	-	-	-	-	-	-	28	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	131	-
28	-	-	-	-	-	-	-	28	-	-
-	-	-	-	-	-	-	-	-	4	-
-	-	-	-	-	-	-	-	-	2	-
-	-	-	-	-	-	-	-	-	107	-
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-	-	-	-	-	-	-	-	-	-	-
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1	1	1	1	1	1	1	1	1	1	1
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-

-	-	-	-	-	-	-	69	275	275	206
349	-	-	-	-	-	-	16	43	1,094	403
349	-	-	-	-	-	-	16	43	1,094	403
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122	-	-	1	43	123	5	18	15	42	120
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-	-	-	-	-	-	-	5	5	6	6
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-	-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	2,060
-	-	-	-	-	-	-	-	-	-	107

CONFIDENTIAL © Analysys Mason

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-	-	-	-	-	-	-	-	2,961	987	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	5,469	1,823	-
-	-	-	-	-	-	-	-	303	101	-
-	-	-	-	-	-	-	-	42	14	-
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-	-	-	-	-	-	-	-	53	18	-
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987	-	-	-	-	-	-	2,961	987	-	-
-	-	-	-	-	-	-	11	34	31	84
-	-	-	-	-	-	-	5	14	13	35
-	-	-	-	-	-	-	24	68	62	170

CONFIDENTIAL © Analysys Mason

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-	-	-	-	-	-	-	-	122	41	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	9	3	-
-	-	-	-	-	-	-	-	47	32	9
-	-	-	-	-	-	-	-	80	32	68
-	-	-	-	-	-	-	-	194	65	-
-	-	-	-	-	-	-	-	41	14	-
41	-	-	-	-	-	-	122	41	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	605	-	-
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7	-	-	-	-	-	-	21	7	-	-
-	-	-	-	-	-	-	-	3	1	6
-	-	-	-	-	-	-	-	2	1	3
-	-	-	-	-	-	-	-	80	27	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
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CONFIDENTIAL © Analysys Mason

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2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
2,050	1,978	1,908	1,817	1,757	1,646	1,565	1,517	1,513	1,510	1,299
1,735	1,807	1,877	1,968	2,028	2,139	2,220	2,268	2,272	2,275	2,486
2,214	2,170	2,125	2,056	2,014	1,920	1,852	1,817	1,812	1,810	1,647
2,214	2,170	2,125	2,056	2,014	1,920	1,852	1,817	1,812	1,810	1,647
4,668	4,668	4,659	4,522	4,513	4,249	4,112	4,112	4,103	4,103	4,094
38,835	37,659	35,927	30,940	28,789	27,066	26,200	24,742	23,429	19,345	17,895
40,430	38,835	35,763	28,634	25,316	23,420	18,187	16,455	15,124	14,003	12,827
1,130	1,258	1,130	1,112	975	975	966	957	829	820	556
146,060	294,769	491,964	634,519	730,594	750,554	713,494	675,304	647,827	617,902	582,783
55	60	65	70	75	80	84	88	92	96	100
1,101	1,376	1,660	1,935	2,211	2,486	2,761	3,036	3,036	3,036	3,036
4,200	8,165	12,413	15,913	17,512	19,215	17,682	18,089	17,670	16,940	16,521
401	401	410	410	410	410	410	410	410	410	410
700	975	1,250	1,525	1,801	2,076	2,351	2,626	2,626	2,626	2,626
1,571	1,615	1,660	1,729	1,771	1,865	1,933	1,968	1,973	1,975	2,138
1,571	1,615	1,660	1,729	1,771	1,865	1,933	1,968	1,973	1,975	2,138
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
513	513	513	513	513	513	513	513	513	513	1,315
513	513	513	513	513	513	513	513	513	513	1,315
112	112	112	112	112	112	112	112	123	123	643
-	-	-	-	-	-	-	-	9	9	27
-	-	-	-	-	-	-	-	-	-	-
117	147	176	206	235	264	294	323	352	382	411
351	441	528	618	705	792	882	969	1,056	1,146	1,233
1,046	1,381	1,714	2,049	2,383	2,716	3,051	3,384	3,453	2,749	3,725
-	-	-	-	-	-	-	-	352	764	822
81	79	79	78	78	77	77	77	76	76	76
54	56	56	57	57	58	58	58	59	59	59
81	80	80	79	79	79	78	78	78	78	78
81	80	80	79	79	79	78	78	78	78	78
169	163	163	163	163	163	163	163	163	163	163

CONFIDENTIAL © Analysys Mason

169	163	163	163	163	163	163	163	163	163	163
169	163	163	163	163	163	163	163	163	163	163
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-	-	-	-	-	-	-	-	-	-	2
23	29	35	42	48	54	60	66	72	78	78
125	155	185	220	250	280	310	340	370	-	2
234	294	352	412	470	528	588	646	704	-	-
27	33	39	46	52	60	68	80	92	508	598
54	55	55	56	56	56	57	57	57	57	57
54	55	55	56	56	56	57	57	57	57	57
17	17	16	16	16	16	16	16	16	16	9
9	9	10	10	10	10	10	10	10	10	17
16	16	16	16	16	16	16	16	16	16	14
16	16	16	16	16	16	16	16	16	16	14
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28	28	28	28	28	28	28	28	28	28	28
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8,240	8,240	7,600	6,960	6,320	5,680	4,800	4,160	4,160	4,160	1,440
142	106	106	106	106	106	94	94	94	94	94
10	10	10	10	10	10	10	10	10	10	12
10	10	10	10	10	10	10	10	10	10	12
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-	-	-	-	-	-	-	-	-	-	1,160
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15	18	24	30	30	36	42	49	56	70	77
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4	3	3	3	3	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
5	5	5	5	5	5	5	5	5	5	6
28	28	28	28	28	28	28	28	28	28	28

CONFIDENTIAL © Analysys Mason

2	2	2	2	2	2	2	2	2	2	2
-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380
31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	-	-	-
7,292	7,292	7,292	7,292	7,696	7,696	7,292	7,292	7,292	7,696	7,696
404	404	404	404	-	-	404	404	404	-	44
34	34	40	50	50	90	90	90	90	106	244
765	764	738	702	727	597	593	549	554	520	424
42	42	54	45	16	8	28	28	28	20	12
-	-	-	-	-	-	-	-	-	-	-
10	10	10	10	10	10	10	10	10	10	10
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
184	232	278	324	370	416	464	510	556	604	662
76	96	114	132	152	170	190	208	226	246	270
376	472	568	660	756	848	944	1,040	1,132	-	-
-	-	-	-	-	-	-	-	-	1,232	1,348
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
163	163	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	-	-
12	12	12	12	12	12	12	12	12	12	12
89	89	62	53	89	89	67	67	53	89	89
202	143	107	107	202	202	100	100	107	168	230
198	232	259	259	148	177	259	259	259	215	184
54	54	54	54	54	54	54	54	54	54	54
163	163	163	163	163	163	163	163	163	163	163
-	6	18	32	44	56	68	80	92	104	104
-	4	10	16	22	28	34	40	46	52	52
-	28	76	132	180	232	280	328	376	424	424
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786

CONFIDENTIAL © Analysys Mason

778	778	778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
182	208	234	234	182	208	234	260	260	234	234
131	131	131	131	131	131	131	131	131	131	131
28	28	28	28	28	28	28	28	28	28	28
12	12	24	40	40	60	60	84	84	84	84
6	6	12	20	20	30	30	42	42	168	168
107	107	107	107	107	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
55	60	65	70	75	80	84	88	92	96	100
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	1,422
-	-	-	-	-	-	-	-	-	-	11,713
-	-	-	-	-	-	-	-	-	-	10,010
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-	-	-	-	-	-	-	-	-	-	11,713
-	-	-	-	-	-	-	-	-	-	28
-	-	-	-	-	-	-	-	-	-	28
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	241
-	-	-	-	-	-	-	-	-	-	190
-	-	-	-	-	-	-	-	-	-	961,575
-	-	-	-	-	-	-	-	-	-	362,625
-	-	-	-	-	-	-	-	-	-	31
-	-	-	-	-	-	-	-	-	-	8
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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CONFIDENTIAL © Analysys Mason

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1,571	1,615	1,660	1,729	1,771	1,865	1,933	1,968	1,973	1,975	2,138
1,571	1,615	1,660	1,729	1,771	1,865	1,933	1,968	1,973	1,975	2,138
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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513	513	513	513	513	513	513	513	513	513	1,315
513	513	513	513	513	513	513	513	513	513	1,315
112	112	112	112	112	112	112	112	123	123	643
-	-	-	-	-	-	-	-	9	9	27
-	-	-	-	-	-	-	-	-	-	-
117	147	176	206	235	264	294	323	352	382	411
351	441	528	618	705	792	882	969	1,056	1,146	1,233
1,046	1,381	1,714	2,049	2,383	2,716	3,051	3,384	3,453	3,453	3,725
-	-	-	-	-	-	-	-	352	764	822
81	79	79	78	78	77	77	77	76	76	76
54	56	56	57	57	58	58	58	59	59	59
81	80	80	79	79	79	78	78	78	78	78
81	80	80	79	79	79	78	78	78	78	78
180	169	163	163	163	163	163	163	163	163	163
180	169	163	163	163	163	163	163	163	163	163
180	169	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	-	2
23	29	35	42	48	54	60	66	72	78	78
125	155	185	220	250	280	310	340	370	370	6
234	294	352	412	470	528	588	646	704	704	-
27	33	39	46	52	60	68	80	92	508	598
54	55	55	56	56	56	57	57	57	57	57
54	55	55	56	56	56	57	57	57	57	57
17	17	16	16	16	16	16	16	16	16	9
9	9	10	10	10	10	10	10	10	10	17
16	16	16	16	16	16	16	16	16	16	14
16	16	16	16	16	16	16	16	16	16	14
4	4	4	4	4	4	4	4	4	4	4
4	4	4	4	4	4	4	4	4	4	4
28	28	28	28	28	28	28	28	28	28	28
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2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
8,240	8,240	8,240	7,600	6,960	6,320	5,680	4,800	4,160	4,160	4,160
142	142	106	106	106	106	106	94	94	94	94
10	10	10	10	10	10	10	10	10	10	12

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10	10	10	10	10	10	10	10	10	10	12
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-	-	-	-	-	-	-	-	-	-	11
-	-	-	-	-	-	-	-	-	-	3
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-	-	-	-	-	-	-	-	-	-	1,160
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-	-	-	-	-	-	-	-	-	-	-
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3	3	4	5	5	6	6	7	7	14	14
15	18	24	30	30	36	42	49	56	70	77
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6	6	8	10	10	12	12	14	14	14	14
1	2	2	3	3	3	3	3	3	3	3
4	4	3	3	3	3	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2
5	5	5	5	5	5	5	5	5	5	6
28	28	28	28	28	28	28	28	28	28	28
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-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-
984	984	984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4	4	4
1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380
31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	-	-	-
7,292	7,292	7,292	7,292	7,696	7,696	7,696	7,696	7,696	7,696	7,696
404	404	404	404	404	404	404	404	404	404	404
56	56	56	56	56	90	90	90	90	106	244
765	765	764	738	727	727	597	593	554	554	520
59	54	54	54	45	28	28	28	28	28	20
-	-	-	-	-	-	-	-	-	-	-
10	10	10	10	10	10	10	10	10	10	10
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
184	232	278	324	370	416	464	510	556	604	662
76	96	114	132	152	170	190	208	226	246	270
376	472	568	660	756	848	944	1,040	1,132	1,132	-
-	-	-	-	-	-	-	-	-	1,232	1,348

CONFIDENTIAL © Analysys Mason

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-	-	-	-	-	-	-	-	-	-	-
577	577	577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
163	163	163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-	-	-
12	12	12	12	12	12	12	12	12	12	12
89	89	89	89	89	89	89	89	89	89	89
202	202	202	202	202	202	202	202	202	202	230
259	259	259	259	259	259	259	259	259	259	259
54	54	54	54	54	54	54	54	54	54	54
163	163	163	163	163	163	163	163	163	163	163
-	6	18	32	44	56	68	80	92	104	104
-	4	10	16	22	28	34	40	46	52	52
-	28	76	132	180	232	280	328	376	424	424
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
605	605	605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
234	234	234	234	234	234	234	260	260	260	260
131	131	131	131	131	131	131	131	131	131	131
28	28	28	28	28	28	28	28	28	28	28
12	12	24	40	40	60	60	84	84	84	84
6	6	12	20	20	30	30	42	42	168	168
107	107	107	107	107	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
55	60	65	70	75	80	84	88	92	96	100
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	1,422
-	-	-	-	-	-	-	-	-	-	11,713

CONFIDENTIAL © Analysys Mason

-	-	-	-	-	-	-	-	-	-	10,010
-	-	-	-	-	-	-	-	-	-	1,276
-	-	-	-	-	-	-	-	-	-	11,713
-	-	-	-	-	-	-	-	-	-	28
-	-	-	-	-	-	-	-	-	-	28
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	241
-	-	-	-	-	-	-	-	-	-	190
-	-	-	-	-	-	-	-	-	-	961,575
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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13	14	15	16	17	18	19	20	21	22	23
-	-	-	-	-	-	-	-	-	-	-
99	72	71	91	60	111	81	48	4	2	211
-	-	-	-	-	-	-	-	-	1,810	-
-	-	-	-	-	-	-	-	-	1,810	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	30,940	-	-	-	-	23,429	-
7,147	13,247	9,627	1,932	-	510	11,351	4,394	200	-	-
18	930	18	18	128	-	811	9	9	-	-
93,542	148,708	197,533	153,993	136,818	113,503	148,708	160,473	115,803	109,341	83,578
5	5	5	5	5	5	4	4	4	4	4
275	275	559	550	550	550	550	835	550	550	550
2,248	3,965	4,523	4,062	2,715	3,951	3,965	3,397	4,062	2,296	3,221
401	-	9	-	-	401	-	9	-	-	401
-	149	550	550	550	275	425	826	550	550	275
57	44	46	69	41	95	68	56	55	1,444	220
57	44	46	69	41	95	68	56	55	1,444	220
-	-	-	-	-	-	-	-	-	-	-
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513	-	-	-	-	513	-	-	-	-	1,315
513	-	-	-	-	513	-	-	-	-	1,315
112	-	-	-	-	112	-	-	11	-	632
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57	30	43	56	49	86	60	72	85	79	115
111	90	171	166	167	198	180	258	253	257	285
100	335	636	662	648	433	670	970	731	648	705
-	-	-	-	-	-	-	-	352	412	58
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0	2	0	0	0	0	0	0	0	0	0
-	-	-	-	-	-	-	1	-	76	-
-	-	-	-	-	-	-	1	-	76	-
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CONFIDENTIAL © Analysys Mason

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-	-	1	2	160	-	-	1	2	160	-
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-	-	-	-	-	-	-	-	-	-	2
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49	30	44	73	54	79	60	74	103	54	-
114	60	86	112	98	172	120	144	170	98	-
6	6	14	14	12	14	14	26	26	428	104
-	1	0	0	0	0	0	0	0	54	0
-	1	0	0	0	0	0	0	0	54	0
17	-	-	-	-	-	-	-	-	-	-
9	-	0	0	-	0	-	0	-	1	6
16	-	-	-	-	-	-	-	-	-	14
16	-	-	-	-	-	-	-	-	-	14
4	-	-	-	-	-	-	-	-	-	-
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8,240	-	-	-	-	6,320	-	-	-	-	4,160
142	-	-	-	-	-	-	-	94	-	-
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5	3	10	10	2	11	9	17	17	16	18
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-	3	-	-	-	-	-	2	-	-	-
-	-	-	-	2	-	-	-	-	2	-
-	-	3	1	1	-	-	3	1	1	1
-	-	-	-	28	-	-	-	-	28	-

CONFIDENTIAL © Analysys Mason

1	-	-	-	1	1	-	-	-	1	1
-	-	-	-	-	-	-	-	-	-	1
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-	-	-	-	-	-	-	-	-	984	-
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-	-	-	-	404	-	7,292	-	-	-	-
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-	-	-	-	-	34	56	-	-	16	138
21	-	-	-	-	-	562	10	-	-	-
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-	-	-	-	-	3,948	-	-	-	-	-
102	48	46	46	46	60	88	74	148	96	104
42	20	18	18	20	24	36	30	60	40	42
208	96	128	172	152	300	192	224	264	152	-
-	-	-	-	-	-	-	-	-	1,232	116
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	163	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	12	-	-	-	-
5	-	-	-	-	-	62	22	5	-	-
88	-	-	-	-	-	107	7	88	-	28
-	-	-	-	-	-	259	-	-	-	-
-	-	-	-	-	-	54	-	-	-	-
-	-	-	-	-	163	-	-	-	-	-
-	6	12	14	12	12	12	12	12	18	12
-	4	6	6	6	6	6	6	6	10	6
-	28	48	56	48	52	76	96	104	96	52
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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CONFIDENTIAL © Analysys Mason

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-	-	-	-	-	-	-	-	28	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	234	26	-	-	-
-	-	-	-	-	-	131	-	-	-	-
-	-	-	-	-	28	-	-	-	-	-
8	-	12	16	-	20	4	24	8	-	12
4	-	6	10	-	14	-	18	10	126	14
-	-	-	-	-	-	107	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5	5	5	5	5	5	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	1,422
-	-	-	-	-	-	-	-	-	-	11,713
-	-	-	-	-	-	-	-	-	-	10,010
-	-	-	-	-	-	-	-	-	-	1,276
-	-	-	-	-	-	-	-	-	-	11,713
-	-	-	-	-	-	-	-	-	-	28
-	-	-	-	-	-	-	-	-	-	28
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	241
-	-	-	-	-	-	-	-	-	-	190
-	-	-	-	-	-	-	-	-	-	961,575
-	-	-	-	-	-	-	-	-	-	362,625
-	-	-	-	-	-	-	-	-	-	31
-	-	-	-	-	-	-	-	-	-	8
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

CONFIDENTIAL © Analysys Mason

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

37	250	550	550	482	313	525	757	550	482	313
48	45	63	48	81	74	59	55	1,097	526	249
48	45	63	48	81	74	59	55	1,097	526	249
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
128	-	-	-	385	128	-	-	-	986	329
385	-	-	-	128	385	-	-	-	329	986
84	-	-	-	28	84	-	3	8	158	474
-	-	-	-	-	-	-	2	7	5	44
-	-	-	-	-	-	-	-	-	-	-
37	40	53	51	77	67	69	82	81	106	96
106	110	170	166	175	194	200	257	254	264	281
159	411	643	659	595	493	745	910	711	663	697
-	-	-	-	-	-	-	88	367	324	59
-	-	-	-	-	-	-	-	-	-	-
2	0	0	0	0	0	0	0	0	0	0
-	-	-	-	-	-	1	0	57	19	-
-	-	-	-	-	-	1	0	57	19	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	0	1	42	120	-	0	1	42	120	-
-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	1	2
6	11	12	12	12	12	17	18	18	14	12
44	34	51	68	60	74	64	81	91	41	-
101	67	93	109	117	159	126	151	152	74	-
6	8	14	14	13	14	17	26	127	347	86
1	0	0	0	0	0	0	0	41	14	1
1	0	0	0	0	0	0	0	41	14	1
-	-	-	-	-	-	-	-	-	-	-
-	0	0	-	0	-	0	-	1	6	-
4	-	-	-	-	-	-	-	-	11	4
4	-	-	-	-	-	-	-	-	11	4
1	-	-	-	-	-	-	-	-	-	-
3	-	-	-	1	3	-	-	-	1	3
7	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	2	1
1	-	-	-	-	-	-	-	-	2	1
2	-	-	-	1	2	-	-	-	1	2
6,180	-	-	-	1,580	4,740	-	-	-	1,040	3,120
36	-	-	-	-	-	-	71	24	-	-

CONFIDENTIAL © Analysys Mason

2	0	0	0	0	0	0	0	0	9	3
2	0	0	0	0	0	0	0	0	9	3
-	-	-	-	-	-	-	-	-	5	2
-	-	-	-	-	-	-	-	-	3	8
-	-	-	-	-	-	-	-	-	2	1
-	-	-	-	-	-	-	-	-	1	2
-	-	-	-	-	-	-	-	-	14	5
-	-	-	-	-	-	-	-	-	290	870
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	1	1	0	-	-	1	1	0	2	1
-	-	-	-	-	-	-	-	-	-	-
-	0	1	1	-	-	1	3	3	4	4
0	2	2	1	2	1	2	2	6	3	1
5	5	10	8	4	11	11	17	17	17	21
-	-	-	-	-	-	-	-	-	-	-
1	1	3	3	2	2	2	2	3	3	2
1	1	1	1	-	-	1	1	1	1	-
2	2	-	-	-	-	1	1	-	-	-
-	-	-	2	1	-	-	-	2	1	-
-	2	2	1	0	-	2	2	1	1	0
-	-	-	21	7	-	-	-	21	7	-
0	-	-	1	1	0	-	-	1	1	0
-	-	-	-	-	-	-	-	-	1	0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	984	-	-
-	-	-	-	-	-	-	-	1,092	-	-
-	-	-	-	-	-	-	-	4	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	2,961	987	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	303	101	5,469	1,823	-	-	-	-
-	-	-	-	-	303	101	-	-	-	-
-	-	-	-	26	51	14	-	12	108	68
5	-	-	-	-	422	148	3	-	-	-
-	-	-	-	-	21	7	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	8	3	-	-	-	-
-	-	-	-	2,961	987	-	-	-	-	-
62	47	46	46	57	81	78	130	109	102	106
26	19	18	20	23	33	32	53	45	42	42
124	120	161	157	263	219	216	254	180	38	-

CONFIDENTIAL © Analysys Mason

-	-	-	-	-	-	-	-	924	395	122
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	122	41	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	9	3	-	-	-	-
1	-	-	-	-	47	32	9	1	-	-
22	-	-	-	-	80	32	68	22	21	7
-	-	-	-	-	194	65	-	-	-	-
-	-	-	-	-	41	14	-	-	-	-
-	-	-	-	122	41	-	-	-	-	-
5	11	14	13	12	12	12	12	17	14	29
3	6	6	6	6	6	6	6	9	7	14
21	43	54	50	51	70	91	102	98	63	132
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	21	7	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	176	78	7	-	-	-
-	-	-	-	-	98	33	-	-	-	-
-	-	-	-	21	7	-	-	-	-	-
2	9	15	4	15	8	19	12	2	9	15
1	5	9	3	11	4	14	12	97	42	4
-	-	-	-	-	80	27	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5	5	5	5	5	5	4	4	4	4	4
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-	1,067	720

CONFIDENTIAL © Analysys Mason

-	-	-	-	-	-	-	-	-	2,928	8,785
-	-	-	-	-	-	-	-	-	2,503	7,778
-	-	-	-	-	-	-	-	-	319	1,327
-	-	-	-	-	-	-	-	-	2,928	8,877
-	-	-	-	-	-	-	-	-	21	7
-	-	-	-	-	-	-	-	-	7	21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	60	181
-	-	-	-	-	-	-	-	-	48	143
-	-	-	-	-	-	-	-	-	240,394	721,181
-	-	-	-	-	-	-	-	-	90,656	271,969
-	-	-	-	-	-	-	-	-	23	8
-	-	-	-	-	-	-	-	-	6	2
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

CONFIDENTIAL © Analysys Mason

2014	2015	2016	2017	2018	2019	2020	2021	2050
1,122	929	-	-	-	-	-	-	-
2,663	2,856	3,785	3,785	3,785	3,785	3,785	3,785	3,785
1,433	1,206	-	-	-	-	-	-	-
1,433	1,206	-	-	-	-	-	-	-
3,091	2,342	-	-	-	-	-	-	-
6,182	4,683	-	-	-	-	-	-	-
6,182	2,342	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
156,198	96,987	43,460	-	-	-	-	-	-
104	107	-	-	-	-	-	-	-
2,170	1,421	671	-	-	-	-	-	-
6,511	2,841	1,342	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
2,170	1,421	671	-	-	-	-	-	-
2,352	2,579	3,785	3,785	3,785	3,785	3,785	3,785	3,785
2,352	2,579	3,785	3,785	3,785	3,785	3,785	3,785	3,785
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
513	513	513	513	513	513	513	513	513
513	513	513	513	513	513	513	513	513
202	202	-	-	-	-	-	-	-
148	148	513	513	513	513	513	513	513
-	-	-	-	-	-	-	-	-
441	470	499	529	558	558	558	558	558
1,323	1,410	998	1,058	1,116	1,116	1,116	1,116	1,116
3,578	3,578	3,376	3,454	3,454	3,454	3,454	3,454	3,454
882	940	998	1,058	1,116	1,116	1,116	1,116	1,116
76	76	-	-	-	-	-	-	-
59	59	135	135	135	135	135	135	135
78	78	-	-	-	-	-	-	-
78	78	-	-	-	-	-	-	-
163	163	-	-	-	-	-	-	-

CONFIDENTIAL © Analysys Mason

163	163	-	-	-	-	-	-	-
163	163	-	-	-	-	-	-	-
4	6	6	6	6	6	6	6	6
4	6	6	6	6	6	6	6	6
78	78	78	108	112	118	124	132	244
4	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-
614	710	812	800	800	880	880	960	1,200
57	57	135	135	135	135	135	135	135
57	57	135	135	135	135	135	135	135
9	9	-	-	-	-	-	-	-
17	17	26	26	26	26	26	26	26
14	14	-	-	-	-	-	-	-
14	14	-	-	-	-	-	-	-
4	4	-	-	-	-	-	-	-
4	4	-	-	-	-	-	-	-
28	28	-	-	-	-	-	-	-
2	2	-	-	-	-	-	-	-
2	2	-	-	-	-	-	-	-
2	2	-	-	-	-	-	-	-
1,440	1,440	-	-	-	-	-	-	-
94	94	-	-	-	-	-	-	-
12	12	26	26	26	26	26	26	26
12	12	26	26	26	26	26	26	26
5	5	5	5	4	4	4	4	3
10	10	10	9	8	8	7	7	5
2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2
18	18	17	16	14	13	12	11	7
1,080	1,080	1,040	960	880	760	720	640	400
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
4	4	6	2	2	4	4	4	6
-	-	-	-	-	-	-	-	-
18	24	32	-	-	-	-	-	-
14	21	21	28	35	35	42	49	77
98	133	168	203	238	280	315	357	616
-	-	-	-	-	-	-	-	-
14	14	14	14	14	14	14	14	14
3	3	3	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2
6	6	5	4	4	4	4	4	4
28	28	28	28	28	28	28	28	28

CONFIDENTIAL © Analysys Mason

2	2	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-
984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4
1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380
31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	-
7,696	7,292	-	-	-	-	-	-	-
44	414	-	-	-	-	-	-	-
288	371	-	-	-	-	-	-	-
399	362	-	-	-	-	-	-	-
20	20	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
10	10	-	-	-	-	-	-	-
3,948	3,948	3,948	3,948	3,948	3,948	3,948	-	-
722	780	838	898	956	956	956	956	956
294	318	342	366	388	388	388	388	388
-	-	-	-	-	-	-	-	-
1,472	1,588	1,708	1,828	1,944	1,944	1,944	1,944	1,944
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-
12	12	-	-	-	-	-	-	-
67	53	-	-	-	-	-	-	-
128	107	-	-	-	-	-	-	-
245	259	-	-	-	-	-	-	-
54	54	54	54	54	54	54	-	-
163	163	163	163	163	163	163	-	-
124	163	208	255	302	352	401	447	779
62	82	104	128	151	176	201	224	389
506	665	848	1,042	1,233	1,434	1,635	1,823	3,175
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786

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778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
260	286	-	-	-	-	-	-	-
131	131	131	131	131	131	131	-	-
28	28	28	28	28	28	28	-	-
84	84	84	84	84	84	84	168	336
168	378	378	672	1,050	1,050	1,512	2,058	5,082
107	107	107	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
104	2,446	-	-	-	-	-	-	-
-	163	-	-	-	-	-	-	-
-	28	-	-	-	-	-	-	-
-	4	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1,908	2,520	3,182	3,182	3,182	3,173	3,173	3,173	3,583
11,626	11,940	12,728	12,796	12,213	11,055	7,747	7,191	4,420
11,090	11,859	12,939	14,283	13,271	12,715	11,712	11,156	3,855
2,756	3,924	4,811	5,970	6,590	7,137	11,147	11,703	17,993
12,082	12,396	13,184	14,364	13,325	12,751	11,721	11,703	17,993
28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-
220	201	190	172	147	126	108	93	28
181	175	171	156	139	124	111	100	55
841,373	723,104	612,493	518,652	443,567	382,257	322,872	271,560	90,677
340,027	321,719	310,258	284,531	248,719	217,670	190,291	167,591	71,635
28	24	21	18	15	13	11	10	4
7	6	4	4	3	3	2	2	1
-	-	78	828	828	828	828	828	828
-	-	-	10	12	14	16	18	30
-	-	-	30	34	40	46	50	88
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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Network_equipment_deployment

3,785.00	3,785.00	3,785.00	3,785.00	3,785.00				
1,122	929	-	-	-	-	-	-	-
2,663	2,856	3,785	3,785	3,785	3,785	3,785	3,785	3,785
1,433	1,206	-	-	-	-	-	-	-
1,433	1,206	-	-	-	-	-	-	-
4,094	3,091	2,342	-	-	-	-	-	-
17,895	6,182	4,683	-	-	-	-	-	-
12,827	6,182	2,342	-	-	-	-	-	-
556	-	-	-	-	-	-	-	-
582,783	156,198	96,987	43,460	-	-	-	-	-
104	107	107	-	-	-	-	-	-
3,036	2,170	1,421	671	-	-	-	-	-
16,521	6,511	2,841	1,342	-	-	-	-	-
410	-	-	-	-	-	-	-	-
2,626	2,170	1,421	671	-	-	-	-	-

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2,352	2,579	3,785	3,785	3,785	3,785	3,785	3,785	3,785
2,352	2,579	3,785	3,785	3,785	3,785	3,785	3,785	3,785
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1,315	513	513	513	513	513	513	513	513
1,315	513	513	513	513	513	513	513	513
643	202	202	-	-	-	-	-	-
148	148	513	513	513	513	513	513	513
-	-	-	-	-	-	-	-	-
441	470	499	529	558	558	558	558	558
1,323	1,410	1,410	1,116	1,116	1,116	1,116	1,116	1,116
3,725	3,578	3,578	3,454	3,454	3,454	3,454	3,454	3,454
882	940	998	1,058	1,116	1,116	1,116	1,116	1,116
76	76	-	-	-	-	-	-	-
59	59	135	135	135	135	135	135	135
78	78	-	-	-	-	-	-	-
78	78	-	-	-	-	-	-	-
163	163	163	-	-	-	-	-	-
163	163	163	-	-	-	-	-	-
163	163	163	-	-	-	-	-	-
4	6	6	6	6	6	6	6	6
4	6	6	6	6	6	6	6	6
78	78	78	108	112	118	124	132	244
6	6	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-
614	710	812	812	812	880	880	960	1,200
57	57	135	135	135	135	135	135	135
57	57	135	135	135	135	135	135	135
9	9	-	-	-	-	-	-	-
17	17	26	26	26	26	26	26	26
14	14	-	-	-	-	-	-	-
14	14	-	-	-	-	-	-	-
4	4	4	-	-	-	-	-	-
4	4	4	-	-	-	-	-	-
28	28	28	-	-	-	-	-	-
2	2	2	-	-	-	-	-	-
2	2	2	-	-	-	-	-	-
2	2	2	-	-	-	-	-	-
1,440	1,440	1,440	-	-	-	-	-	-
94	94	94	-	-	-	-	-	-
12	12	26	26	26	26	26	26	26

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12	12	26	26	26	26	26	26	26
6	5	5	5	5	4	4	4	3
11	10	10	10	9	8	8	7	5
3	2	2	2	2	2	2	2	2
3	2	2	2	2	2	2	2	2
19	18	18	17	16	14	13	12	7
1,160	1,080	1,080	1,040	960	880	760	720	400
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
4	4	6	6	6	6	6	6	6
-	-	-	-	-	-	-	-	-
18	24	32	32	-	-	-	-	-
14	21	21	28	35	35	42	49	77
98	133	168	203	238	280	315	357	616
-	-	-	-	-	-	-	-	-
14	14	14	14	14	14	14	14	14
3	3	3	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2
6	6	6	5	4	4	4	4	4
28	28	28	28	28	28	28	28	28
2	2	2	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-
984	984	984	984	984	984	984	984	984
1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092
4	4	4	4	4	4	4	4	4
1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380	1,380
31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458	31,458
24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348	24,348
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948
-	-	-	-	-	-	-	-	-
7,696	7,696	7,292	-	-	-	-	-	-
404	414	414	-	-	-	-	-	-
288	371	371	-	-	-	-	-	-
424	399	362	-	-	-	-	-	-
20	20	20	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
10	10	10	-	-	-	-	-	-
3,948	3,948	3,948	3,948	3,948	3,948	3,948	3,948	-
722	780	838	898	956	956	956	956	956
294	318	342	366	388	388	388	388	388
-	-	-	-	-	-	-	-	-
1,472	1,588	1,708	1,828	1,944	1,944	1,944	1,944	1,944

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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
577	577	577	577	577	577	577	577	577
10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372	10,372
4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639	4,639
163	163	163	163	163	163	163	163	163
-	-	-	-	-	-	-	-	-
12	12	12	-	-	-	-	-	-
89	67	53	-	-	-	-	-	-
230	128	107	-	-	-	-	-	-
259	259	259	-	-	-	-	-	-
54	54	54	54	54	54	54	54	-
163	163	163	163	163	163	163	163	-
124	163	208	255	302	352	401	447	779
62	82	104	128	151	176	201	224	389
506	665	848	1,042	1,233	1,434	1,635	1,823	3,175
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
605	605	605	605	605	605	605	605	605
11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786	11,786
778	778	778	778	778	778	778	778	778
28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
260	286	286	-	-	-	-	-	-
131	131	131	131	131	131	131	131	-
28	28	28	28	28	28	28	28	-
84	84	84	84	84	84	84	168	336
168	378	378	672	1,050	1,050	1,512	2,058	5,082
107	107	107	107	107	107	107	107	107
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
104	2,446	-	-	-	-	-	-	-
-	163	-	-	-	-	-	-	-
-	28	-	-	-	-	-	-	-
-	4	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1,908	2,520	3,182	3,182	3,182	3,182	3,182	3,182	3,583
11,713	11,940	12,728	12,796	12,796	12,213	11,055	7,747	4,420

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11,090	11,859	12,939	14,283	14,283	13,271	12,715	11,712	3,855
2,756	3,924	4,811	5,970	6,590	7,137	11,147	11,703	17,993
12,082	12,396	13,184	14,364	14,364	14,364	14,364	14,364	17,993
28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	28	28	28
-	-	-	-	-	-	-	-	-
241	220	201	190	172	147	126	108	29
190	181	175	171	156	139	124	111	56
961,575	841,373	723,104	612,493	518,652	443,567	382,257	322,872	90,677
362,625	340,027	321,719	310,258	284,531	248,719	217,670	190,291	72,359
31	28	24	21	18	15	13	11	4
8	7	6	4	4	3	3	2	1
-	-	78	828	828	828	828	828	828
-	-	-	10	12	14	16	18	30
-	-	-	30	34	40	46	50	88
-	-	-	-	-	-	-	-	-
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Network_equipment_deployment

24	*25*	*26*	*27*	*28*	*29*	*30*	*31*	*60*
-	-	-	-	-	-	-	-	-
177	194	929	-	-	-	-	-	67
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
8,233	-	-	-	-	-	-	-	-
538	-	-	-	-	-	-	-	-
113,589	-	-	-	-	-	-	-	-
4	3	-	-	-	-	-	-	-
550	-	-	-	-	-	-	-	-
3,546	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
425	370	-	-	-	-	-	-	-
258	273	1,275	41	95	68	56	55	56
258	273	1,275	41	95	68	56	55	56
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	513	-	-	-	-
-	-	-	-	513	-	-	-	-
-	-	-	-	-	-	-	-	-
121	-	374	-	18	121	-	374	-
-	-	-	-	-	-	-	-	-
90	101	114	109	144	90	101	114	101
270	345	253	-	248	270	345	253	345
670	822	731	525	705	670	822	731	822
60	58	410	472	116	60	58	410	58
-	-	-	-	-	-	-	-	-
0	0	76	-	-	-	-	-	-
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2	2	-	-	2	2	2	-	2
2	2	-	-	2	2	2	-	2
12	18	18	48	16	18	24	26	28
-	-	-	6	-	-	-	-	-
-	-	-	-	-	-	-	-	-
30	122	128	428	104	98	122	208	202
1	0	78	0	0	0	0	0	0
1	0	78	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-
-	0	9	-	-	-	-	-	-
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-	0	14	-	0	-	0	-	0
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-	-	-	-	960	-	-	-	-
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-	1	3	-	2	-	1	3	1
-	-	-	-	-	-	-	-	-
4	9	11	4	-	-	-	-	-
-	10	2	14	9	-	17	9	24
30	52	52	51	53	72	87	94	150
-	-	-	-	-	-	-	-	-
2	2	2	2	4	2	2	2	2
-	-	1	-	2	-	-	-	-
-	-	2	-	-	-	-	-	-
-	-	-	2	-	-	-	-	-
-	3	1	-	-	-	3	1	3
-	-	-	28	-	-	-	-	-

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-	-	-	-	-	-	-	-	-
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-	-	1,380	-	-	-	-	-	-
-	-	-	-	-	-	-	31,458	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	3,948	-
-	-	-	-	-	-	-	-	-
-	404	-	-	-	-	-	-	-
-	10	-	-	-	-	-	-	-
44	83	34	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	3,948	-	-	-	-	-	-
106	104	118	148	132	148	96	104	132
42	44	48	60	52	60	40	42	52
-	-	-	-	-	-	-	-	-
124	116	120	1,352	232	124	116	120	116
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	577	-	-	-	-	-	-
-	-	-	-	-	-	-	10,372	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	163	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	54	-	-	-	-	-
-	-	163	-	-	-	-	-	-
34	51	57	59	59	61	67	58	98
16	26	28	30	29	31	35	29	49
158	255	287	290	243	360	456	475	694
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	605	-	-	-	-	-	-
-	-	-	-	-	-	-	11,786	-

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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	28	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	26	-	-	-	-	-	-	-
-	-	-	131	-	-	-	-	-
-	-	28	-	-	-	-	-	-
16	-	20	4	24	8	-	96	24
-	228	10	420	392	-	690	556	1,404
-	-	-	107	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
4	2,342	-	-	-	-	-	-	-
-	163	-	-	-	-	-	-	-
-	28	-	-	-	-	-	-	-
-	4	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
486	613	662	-	1,422	486	613	662	613
-	227	788	68	11,713	-	-	-	-
1,080	769	1,080	1,344	10,010	68	213	77	-
1,480	1,169	887	1,160	1,896	2,027	5,179	1,443	6,848
369	314	788	1,180	11,713	369	314	788	1,045
-	-	-	-	28	-	-	-	-
-	-	-	-	28	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	172	-	-	-	-
-	-	-	-	156	-	-	-	-
-	-	-	-	518,652	-	-	-	-
-	-	-	-	284,531	-	-	-	-
-	-	-	-	18	-	-	-	-
-	-	-	-	4	-	-	-	-
-	-	78	750	-	-	-	78	-
-	-	-	10	2	2	2	2	2
-	-	-	30	4	6	6	4	10
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	

411	277	-	-	-	-	-	-	-	-
269	1,024	350	81	74	59	55	1,097	14	-
269	1,024	350	81	74	59	55	1,097	14	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	385	128	-	-	-	-	-
-	-	-	128	385	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
91	94	281	5	44	91	94	281	-	-
-	-	-	-	-	-	-	-	-	-
98	111	110	135	104	98	111	110	25	-
289	322	190	62	254	289	322	190	259	-
708	799	680	570	697	708	799	680	617	-
60	146	426	383	102	60	146	426	44	-
-	-	-	-	-	-	-	-	-	-
0	76	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
0	1	2	-	-	-	-	-	-	-
2	1	-	2	2	2	1	-	1	-
2	2	-	1	2	2	2	-	2	-
17	18	41	24	18	23	26	47	7	-
-	-	2	5	-	-	-	2	-	-
-	-	-	-	-	-	-	-	-	-
53	124	203	347	103	104	144	263	152	-
1	58	20	0	0	0	0	41	0	-
1	58	20	0	0	0	0	41	0	-
-	-	-	-	-	-	-	-	-	-
0	9	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

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0	11	4	0	0	0	0	0	0	-
0	11	4	0	0	0	0	0	0	-
-	-	-	4	1	-	-	-	-	-
-	-	-	2	7	-	-	-	-	-
-	-	-	2	1	-	-	-	-	-
-	-	-	1	2	-	-	-	-	-
-	-	-	12	4	-	-	-	-	-
-	-	-	240	720	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
1	3	1	2	1	1	3	1	0	-
-	-	-	-	-	-	-	-	-	-
5	10	9	3	-	-	-	-	-	-
8	4	11	10	2	13	11	13	6	-
36	52	52	52	58	76	89	90	113	-
-	-	-	-	-	-	-	-	-	-
2	2	2	3	3	2	2	2	1	-
-	1	1	1	1	-	-	1	-	-
-	1	1	-	-	-	-	1	-	-
-	-	2	1	-	-	-	2	-	-
2	2	0	-	-	2	2	0	1	-
-	-	21	7	-	-	-	21	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	1	0	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	984	-	-
-	-	-	-	-	-	-	1,092	-	-
-	-	-	-	-	-	-	4	-	-
-	1,380	-	-	-	-	-	-	-	-
-	-	-	-	-	-	31,458	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	2,961	987	-	-
-	-	-	-	-	-	-	-	-	-
303	101	-	-	-	-	-	-	-	-
8	3	-	-	-	-	-	-	-	-
73	46	9	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	2,961	987	-	-	-	-	-	-	-
105	115	141	136	144	109	102	106	33	-
44	47	57	54	58	45	42	42	13	-
-	-	-	-	-	-	-	-	-	-

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118	119	1,044	512	151	118	119	1,044	29	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	577	-	-	-	-	-	-	-	-
-	-	-	-	-	-	10,372	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	122	41	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	41	14	-	-	-	-	-	-
-	122	41	-	-	-	-	-	-	-
47	55	59	59	61	66	60	72	24	-
23	28	29	29	30	34	30	35	12	-
231	279	289	254	331	432	470	466	173	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	605	-	-	-	-	-	-	-	-
-	-	-	-	-	-	11,786	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	21	7	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
20	7	-	-	-	-	-	-	-	-
-	-	98	33	-	-	-	-	-	-
-	21	7	-	-	-	-	-	-	-
4	15	8	19	12	2	72	36	6	-
171	65	318	399	98	518	590	454	351	-
-	-	80	27	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
4	2,342	-	-	-	-	-	-	-	-
-	163	-	-	-	-	-	-	-	-
-	28	-	-	-	-	-	-	-	-
-	4	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	-
1	1	1	1	1	1	1	1	1	-
581	650	166	1,067	720	581	650	166	153	-

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57	367	608	2,979	8,785	-	-	-	-	-
1,002	847	1,146	3,511	7,525	104	179	255	-	-
1,402	1,098	955	1,344	1,929	2,815	4,245	1,625	5,136	-
355	433	886	3,813	8,877	355	433	886	784	-
-	-	-	21	7	-	-	-	-	-
-	-	-	7	21	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	43	129	-	-	-	-	-
-	-	-	39	117	-	-	-	-	-
-	-	-	129,663	388,989	-	-	-	-	-
-	-	-	71,133	213,398	-	-	-	-	-
-	-	-	14	5	-	-	-	-	-
-	-	-	3	1	-	-	-	-	-
-	59	582	187	-	-	59	582	-	-
-	-	3	8	2	2	2	5	2	-
-	-	8	24	5	6	6	12	8	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Equipmer purchase_check

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_post_migration

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Service demand matrix

Service Demand

This section is used to convert retail service demand to network service demand e.g. by splitting traffic between successive technology generations through migration profiles

		1991	1992	1993
TDM Local on-net calls	minutes	-	734,157,990	756,608,612
TDM Regional on-net calls	minutes	-	9,238,154,713	9,520,658,367
TDM National on-net calls	minutes	-	1,994,462,541	2,055,453,396
TDM Regional outgoing calls	minutes	-	1,241,033,957	1,278,984,894
TDM National outgoing calls	minutes	-	248,206,791	255,796,979
TDM Outgoing calls - international leg	minutes	-	412,345,040	424,954,591
TDM Regional incoming calls	minutes	-	412,345,040	424,954,591
TDM National incoming calls	minutes	-	-	-
TDM Incoming calls - international leg	minutes	-	114,171,219	117,662,586
TDM Local transit calls (wholesale)	minutes	-	-	-
TDM Tandem transit calls (wholesale)	minutes	-	-	-
TDM Dial-up Internet traffic	minutes	-	-	-
NGN Local on-net calls	minutes	-	-	-
NGN Regional on-net calls	minutes	-	-	-
NGN National on-net calls	minutes	-	-	-
NGN Regional outgoing calls	minutes	-	-	-
NGN National outgoing calls	minutes	-	-	-
NGN Outgoing ss7 leg	minutes	-	-	-
NGN Outgoing SIP leg	minutes	-	-	-
NGN Regional incoming calls	minutes	-	-	-
NGN National incoming calls	minutes	-	-	-
NGN Incoming ss7 leg	minutes	-	-	-
NGN Incoming SIP leg	minutes	-	-	-
NGN Local transit calls	minutes	-	-	-
NGN Tandem transit calls	minutes	-	-	-
spare	Unitary	-	1	1
Low capacity digital leased lines (<=8 Mbps)	Converted to equivalent minutes	-	20,829,312,338	23,176,964,600
High capacity digital leased lines (>8 Mbps)	Converted to equivalent minutes	-	161,698,811,390	166,635,446,520
Fibre (dark or wavelength)	Unitary	-	-	-
Data services (sublocal VPN, contended)	Converted to equivalent minutes	-	-	-
Data services (local VPN, contended)	Converted to equivalent minutes	-	-	-
Data services (regional VPN, contended)	Converted to equivalent minutes	-	-	-
Data services (national VPN, contended)	Converted to equivalent minutes	-	-	-
Bitstream (direct, contended)	Converted to equivalent minutes	-	-	-
xDSL (direct, contended)	Converted to equivalent minutes	-	-	-
xDSL (indirect, contended)	Converted to equivalent minutes	-	-	-
VoD (direct, contended)	Converted to equivalent minutes	-	-	-

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VoD (indirect, contended)	Converted to equivalent minutes	-	-	-
Fibre traffic (direct, contended)	Converted to equivalent minutes	-	-	-
Subscribers	Unitary	-	1	1
Fibre traffic (indirect, contended)	Converted to equivalent minutes	-	-	-
linear TV broadcast (distribution to DSLAM/MSANs)	Converted to equivalent minutes	-	-	-
linear TV broadcast (distribution to ER)	Converted to equivalent minutes	-	-	-
linear TV broadcast (distribution to DR)	Converted to equivalent minutes	-	-	-
linear TV broadcast (provisioning to CR)	Converted to equivalent minutes	-	-	-
Cable traffic (direct, contended)	Converted to equivalent minutes	-	-	-
Cable traffic (indirect, contended)	Converted to equivalent minutes	-	-	-
TDM ss7 interconnection ports	Unitary	-	-	-
NGN ss7 interconnection ports	Unitary	-	-	-
sip interconnection ports	Unitary	-	-	-

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1994	1995	1996	1997	1998	1999	2000	2001	2002
773,501,748	778,455,279	778,509,149	771,236,851	756,759,981	766,560,799	746,784,934	653,137,941	541,945,632
9,733,230,327	9,795,562,265	9,796,240,128	9,704,730,377	9,522,563,089	9,645,890,050	9,397,043,756	8,218,652,419	6,819,482,536
2,101,346,415	2,114,803,509	2,114,949,856	2,095,193,446	2,055,864,614	2,082,490,170	2,028,765,738	1,774,358,072	1,472,285,634
1,365,372,772	1,571,092,500	1,795,971,827	1,973,528,211	2,148,374,430	3,601,073,145	6,099,602,597	7,410,629,694	7,263,117,543
273,074,554	314,218,500	359,194,365	394,705,642	429,674,886	559,722,470	767,903,115	984,566,591	1,089,059,454
436,569,358	446,608,496	454,904,824	457,801,569	457,000,000	541,084,756	500,607,334	526,179,260	450,114,956
511,528,521	777,503,978	1,077,654,513	1,327,417,818	1,586,348,303	2,623,324,773	3,501,333,032	4,201,318,780	4,392,425,552
-	-	-	-	-	67,264,738	184,280,686	340,647,469	488,047,284
136,298,357	184,181,752	227,467,486	256,602,176	281,205,317	452,583,724	507,046,335	617,234,495	576,940,496
23,846,485	115,689,823	244,401,311	380,613,289	564,197,922	248,018,353	453,791,836	684,593,733	803,251,457
-	-	-	-	-	-	-	-	-
100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,297,000	8,723,000,000	8,176,000,000
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1
25,787,968,854	28,680,771,351	31,903,552,849	35,504,827,977	39,544,771,878	42,594,815,014	45,739,667,334	49,045,530,208	56,729,024,145
171,714,474,883	176,872,181,868	182,216,077,155	187,807,958,858	193,728,979,781	183,367,216,263	171,804,307,916	184,774,068,551	155,285,005,233
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	70,487	4,849,524	56,869,759
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	24	8,405
1	1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	102,756	1,573,854	10,209,141
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

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2003	2004	2005	2006	2007	2008	2009	2010
458,629,702	358,593,774	292,678,683	238,361,471	197,746,166	165,019,273	125,359,967	106,154,921
5,771,090,414	4,512,304,984	3,682,873,427	2,999,381,845	2,488,305,918	2,076,492,525	1,577,446,246	1,335,782,757
1,245,944,023	974,179,751	795,110,422	647,548,663	537,210,417	448,302,360	340,561,243	288,387,536
7,445,144,000	7,063,438,042	6,164,981,353	5,317,394,163	4,385,676,502	3,501,474,938	2,609,688,545	2,215,173,128
1,240,259,311	1,312,687,608	1,147,996,271	993,478,833	822,135,300	660,294,988	492,768,753	419,811,038
408,333,382	348,920,065	365,548,217	390,560,011	383,261,783	379,632,514	140,801,738	139,418,147
4,609,425,278	4,433,788,299	3,856,572,968	3,177,136,174	2,861,356,996	2,503,088,824	1,887,304,529	1,821,947,509
658,489,325	782,433,229	680,571,700	560,671,090	504,945,352	441,721,557	333,053,740	321,520,149
579,799,875	539,092,600	541,481,313	519,353,969	524,928,328	517,143,733	190,163,321	202,766,532
915,403,993	1,000,000,000	1,000,000,000	1,000,000,000	1,000,000,000	1,000,000,000	906,619,103	812,108,809
-	-	-	-	-	-	-	-
7,322,862,992	5,486,000,000	3,366,000,000	1,608,906,000	804,985,197	323,081,000	138,530,000	98,765,000
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1
52,354,956,081	51,716,266,249	48,101,368,195	37,230,858,232	34,318,784,197	36,025,760,031	36,447,722,658	33,434,845,734
136,716,729,781	160,434,165,254	203,953,676,232	210,472,046,091	159,319,542,267	170,353,284,183	213,202,131,593	219,993,110,337
-	-	-	-	-	-	-	-
44,864,338	145,181,670	239,029,620	263,081,312	230,849,903	247,030,235	251,921,738	243,267,456
165,100,763	543,260,443	897,976,141	968,617,559	854,144,642	917,540,875	942,674,889	912,252,960
1,539,744,068	6,425,459,726	9,380,297,528	9,607,251,193	9,764,950,907	9,704,759,251	11,149,568,512	10,069,535,049
3,499,418,337	14,227,803,679	31,551,909,865	43,355,800,253	43,399,781,808	54,346,651,806	61,720,825,694	67,350,332,785
-	-	-	-	-	-	-	-
186,644,751	879,624,995	2,425,507,743	5,203,173,559	11,779,470,832	18,753,993,123	31,302,457,220	42,347,519,077
93,322,376	439,812,498	2,425,507,743	7,804,760,338	17,669,206,248	37,507,986,246	62,604,914,439	105,868,797,693
-	-	-	-	-	-	-	-

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11,345	1,225,479	3,141,860	8,804,189	14,783,510	8,925,548	200,860,740	759,439,263
1	1	1	1	1	1	1	1
5,672	612,740	3,141,860	13,206,284	22,175,266	17,851,097	401,721,480	1,898,598,158
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
28,275,674	86,511,181	225,252,797	589,581,372	1,724,799,032	4,259,610,803	11,247,242,179	21,048,382,879
14,137,837	43,255,591	225,252,797	884,372,059	2,587,198,547	8,519,221,606	22,494,484,358	52,620,957,197
8,240	8,240	7,600	6,960	6,320	5,680	4,800	4,160
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

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2011	2012	2013	2014	2015	2016	2017	2018
83,695,077	68,054,685	14,631,821	8,697,132	4,463,339	1,954,838	-	-
1,053,163,050	856,354,788	184,117,084	109,438,917	56,163,680	24,598,375	-	-
227,371,625	184,881,895	39,749,781	23,627,210	12,125,404	5,310,643	-	-
1,837,743,033	1,517,707,120	349,270,683	211,093,988	113,943,496	50,454,956	-	-
349,529,229	289,843,260	42,953,331	27,759,216	16,061,702	7,578,927	-	-
134,838,507	114,114,517	26,443,322	16,272,056	8,767,694	3,898,548	-	-
1,706,862,063	1,567,395,710	441,445,537	308,825,292	202,165,712	99,773,077	-	-
301,210,952	276,599,243	-	-	-	-	-	-
210,498,991	187,438,697	45,294,455	30,171,496	18,392,895	8,553,765	-	-
686,093,391	509,907,496	96,255,080	65,853,866	40,374,653	20,483,053	-	-
-	-	-	-	-	-	-	-
59,000,000	49,166,667	39,333,333	29,500,000	19,666,667	-	-	-
-	-	39,645,351	33,892,095	27,683,230	24,649,879	20,800,620	16,938,373
-	-	498,870,673	426,475,524	348,347,313	310,177,648	261,741,131	213,141,199
-	-	107,703,205	92,073,524	75,206,109	66,965,506	56,508,350	46,015,914
-	-	946,359,223	822,617,963	706,718,482	636,220,873	543,228,418	463,268,031
-	-	116,383,319	108,175,654	99,620,444	95,567,846	86,630,395	74,879,636
-	-	1,323,548,520	1,187,421,358	1,056,757,024	990,073,466	848,518,752	755,016,864
-	-	-	-	-	-	-	-
-	-	1,196,109,709	1,203,469,770	1,253,904,344	1,258,106,616	1,220,554,787	1,067,292,852
-	-	-	-	-	-	-	-
-	-	1,456,915,687	1,460,097,511	1,504,322,442	1,516,391,363	1,439,214,727	1,284,162,049
-	-	-	-	-	-	-	-
-	-	260,805,978	256,627,741	250,418,098	258,284,747	218,659,939	216,869,197
-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1
33,279,403,975	31,701,502,328	16,902,228,312	13,801,619,299	11,091,672,395	-	-	-
232,200,314,007	210,454,144,636	148,915,121,713	168,253,954,539	191,427,045,218	-	-	-
-	-	-	-	-	-	-	-
201,295,643	157,787,840	85,497,192	64,208,810	51,114,804	41,236,294	41,268,711	35,678,567
756,218,767	595,649,097	353,744,633	289,742,255	249,184,668	215,975,092	231,620,641	213,179,435
9,164,780,779	7,857,270,923	4,580,664,751	3,691,203,967	3,131,694,486	2,682,347,320	2,845,846,095	2,595,233,446
60,733,771,131	51,664,247,163	30,119,439,458	24,270,930,191	20,591,963,743	17,637,352,241	18,712,412,677	17,064,548,689
-	-	-	-	-	-	-	1,470
64,234,161,904	91,978,431,097	85,601,145,751	108,153,276,138	132,298,696,511	155,463,155,214	172,120,229,933	178,283,491,603
160,585,404,759	229,946,077,743	214,002,864,378	270,383,190,346	330,746,741,277	388,657,888,034	430,300,574,831	445,708,729,008
-	-	-	-	-	-	-	-

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2,161,424,447	5,857,267,494	10,700,993,130	21,827,200,565	34,803,212,659	55,090,509,893	88,326,870,922	134,146,736,365
1	1	1	1	1	1	1	1
5,403,561,119	14,643,168,734	26,752,482,825	54,568,001,414	87,008,031,648	137,726,274,732	220,817,177,306	335,366,840,913
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
39,347,516,420	65,950,097,137	69,344,676,899	97,800,254,816	133,545,996,036	174,232,421,930	212,633,889,022	249,936,815,836
98,368,791,049	164,875,242,841	173,361,692,248	244,500,637,039	333,864,990,091	435,581,054,826	531,584,722,555	624,842,039,590
4,160	4,160	1,440	1,440	1,440	-	-	-
-	-	1,160	1,080	1,080	1,040	960	880
-	-	-	-	-	-	-	-

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2019	2020	2021	2022	2023	2024	2025	2026
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
14,101,869	11,578,527	9,609,840	8,091,644	6,921,736	6,010,842	5,288,788	4,705,666
177,448,519	145,696,461	120,923,814	101,819,854	87,098,514	75,636,433	66,550,584	59,212,968
38,310,078	31,454,997	26,106,731	21,982,300	18,804,050	16,329,455	14,367,874	12,783,727
404,763,775	352,981,703	310,733,873	277,091,418	250,659,333	229,889,127	213,342,568	199,860,844
65,387,305	57,192,305	50,549,263	45,306,090	41,235,958	38,087,106	35,623,746	33,652,537
681,215,707	618,752,344	570,678,353	535,846,088	512,184,897	497,065,928	487,730,370	481,706,258
-	-	-	-	-	-	-	-
923,751,394	795,925,523	684,382,151	590,263,695	512,981,017	450,776,409	401,350,974	362,370,066
-	-	-	-	-	-	-	-
1,134,816,021	1,004,503,859	893,777,368	803,712,274	733,270,623	679,866,104	640,115,029	610,562,943
-	-	-	-	-	-	-	-
211,064,627	208,578,336	209,395,217	213,448,579	220,289,606	229,089,695	238,764,055	248,192,876
-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
35,178,998	34,603,167	34,152,192	33,843,420	33,675,367	33,628,909	33,681,198	33,809,778
210,194,513	206,753,920	204,059,347	202,214,432	201,210,317	200,932,734	201,245,159	202,013,422
2,558,895,190	2,517,009,616	2,484,206,050	2,461,746,162	2,449,522,136	2,446,142,849	2,449,946,301	2,459,299,078
16,825,612,208	16,550,200,214	16,334,505,534	16,186,824,076	16,106,446,925	16,084,226,951	16,109,235,954	16,170,733,665
1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470
175,961,925,431	168,076,131,182	153,009,288,538	133,186,676,173	111,133,155,961	89,064,315,134	68,640,106,693	50,897,301,783
439,904,813,578	420,190,327,955	382,523,221,345	332,966,690,432	277,832,889,903	222,660,787,834	171,600,266,732	127,243,254,457
-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-
193,026,786,137	262,771,182,576	341,823,399,962	426,139,689,846	510,911,343,228	591,534,616,584	664,412,032,361	727,362,385,981
1	1	1	1	1	1	1	1
482,566,965,342	656,927,956,439	854,558,499,906	1,065,349,224,615	1,277,278,358,069	1,478,836,541,459	1,661,030,080,903	1,818,405,964,951
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
286,596,956,464	317,566,380,945	340,908,682,786	356,670,331,784	365,797,425,641	369,818,113,638	370,429,972,537	369,157,187,444
716,492,391,159	793,915,952,363	852,271,706,965	891,675,829,459	914,493,564,103	924,545,284,095	926,074,931,342	922,892,968,610
-	-	-	-	-	-	-	-
760	720	640	600	560	520	520	480
-	-	-	-	-	-	-	-

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2027	2028	2029	2030	2031	2032	2033	2034
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
4,228,911	3,838,099	3,519,653	3,262,999	3,058,598	2,897,380	2,770,894	2,671,621
53,213,801	48,296,079	44,288,961	41,059,402	38,487,354	36,458,695	34,867,078	33,617,895
11,488,543	10,426,836	9,561,723	8,864,480	8,309,190	7,871,215	7,527,594	7,257,903
188,623,863	179,114,778	171,030,033	164,181,479	158,423,462	153,615,051	149,610,615	146,265,378
32,032,931	30,673,368	29,518,718	28,535,569	27,700,440	26,992,922	26,393,153	25,881,827
477,115,299	472,782,860	468,154,393	463,105,921	457,738,730	452,224,129	446,718,395	441,331,599
-	-	-	-	-	-	-	-
331,750,450	307,761,598	289,010,088	274,374,999	262,947,865	253,989,544	246,902,245	241,209,201
-	-	-	-	-	-	-	-
588,208,954	570,756,313	556,615,731	544,763,872	534,562,694	525,605,699	517,616,872	510,393,596
-	-	-	-	-	-	-	-
256,458,505	262,994,714	267,605,642	270,388,874	271,614,829	271,616,156	270,714,627	269,184,395
-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
33,993,120	34,212,365	34,453,316	34,706,634	34,964,502	35,221,921	35,476,584	35,727,089
203,108,889	204,418,880	205,858,561	207,372,138	208,912,896	210,450,977	211,972,588	213,469,357
2,472,635,234	2,488,582,980	2,506,109,570	2,524,535,766	2,543,292,865	2,562,017,362	2,580,541,364	2,598,762,934
16,258,423,455	16,363,285,348	16,478,528,680	16,599,687,229	16,723,021,575	16,846,141,561	16,967,943,218	17,087,756,276
1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470
36,310,516,622	24,912,776,925	16,430,106,673	10,410,178,151	6,334,173,565	3,700,335,706	2,075,253,880	1,117,388,136
90,776,291,555	62,281,942,313	41,075,266,681	26,025,445,378	15,835,433,913	9,250,839,264	5,188,134,699	2,793,470,340
-	-	-	-	-	-	-	-

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779,658,780,153	821,788,800,092	855,047,538,590	881,049,213,256	901,438,886,454	917,696,266,826	931,012,130,100	942,303,614,666
1	1	1	1	1	1	1	1
1,949,146,950,382	2,054,472,000,229	2,137,618,846,475	2,202,623,033,141	2,253,597,216,136	2,294,240,667,064	2,327,530,325,251	2,355,759,036,665
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
367,178,200,746	365,298,156,258	363,993,766,625	363,463,365,934	363,732,563,602	364,731,551,272	366,334,989,082	368,410,194,492
917,945,501,865	913,245,390,645	909,984,416,564	908,658,414,835	909,331,409,006	911,828,878,181	915,837,472,705	921,025,486,230
-	-	-	-	-	-	-	-
480	480	480	480	440	440	440	440
-	-	-	-	-	-	-	-

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2035	2036	2037	2038	2039	2040	2041	2042
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
2,593,191	2,530,432	2,479,281	2,436,625	2,400,120	2,368,023	2,339,054	2,312,285
32,630,988	31,841,270	31,197,621	30,660,870	30,201,516	29,797,629	29,433,098	29,096,253
7,044,836	6,874,340	6,735,380	6,619,499	6,520,327	6,433,130	6,354,431	6,281,708
143,444,678	141,031,028	138,927,055	137,055,101	135,354,929	133,780,779	132,298,507	130,883,084
25,441,090	25,055,361	24,711,692	24,399,732	24,111,427	23,840,647	23,582,807	23,334,541
436,122,063	431,109,731	426,290,282	421,646,265	417,154,185	412,790,006	408,531,783	404,360,575
-	-	-	-	-	-	-	-
236,540,772	232,616,322	229,226,972	226,219,770	223,484,393	220,941,894	218,536,368	216,228,945
-	-	-	-	-	-	-	-
503,777,068	497,639,664	491,878,507	486,411,201	481,172,222	476,110,473	471,186,837	466,371,895
-	-	-	-	-	-	-	-
267,236,296	265,023,342	262,651,535	260,191,431	257,687,829	255,168,579	252,650,469	250,142,950
-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
35,973,687	36,216,562	36,455,636	36,690,839	36,922,557	37,150,794	37,375,240	37,595,441
214,942,782	216,393,955	217,822,424	219,227,765	220,612,278	221,975,997	223,317,061	224,632,758
2,616,700,322	2,634,366,817	2,651,756,909	2,668,865,449	2,685,720,419	2,702,322,255	2,718,648,289	2,734,665,498
17,205,700,749	17,321,864,000	17,436,209,811	17,548,704,320	17,659,531,525	17,768,694,281	17,876,043,543	17,981,362,177
1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470
577,673,386	286,780,566	136,719,839	62,594,013	27,518,420	11,615,408	4,706,112	1,829,671
1,444,183,466	716,951,414	341,799,598	156,485,034	68,796,051	29,038,520	11,765,280	4,574,176
-	-	-	-	-	-	-	-

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952,214,273,748	961,169,055,666	969,440,372,928	977,209,025,420	984,581,057,064	991,615,579,445	998,344,623,054	1,004,808,426,594
1	1	1	1	1	1	1	1
2,380,535,684,369	2,402,922,639,165	2,423,600,932,321	2,443,022,563,550	2,461,452,642,660	2,479,038,948,612	2,495,861,557,635	2,512,021,066,486
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
370,824,467,573	373,457,528,589	376,210,770,177	379,013,188,255	381,811,196,599	384,566,082,203	387,251,402,396	389,859,532,081
927,061,168,934	933,643,821,472	940,526,925,442	947,532,970,637	954,527,991,498	961,415,205,508	968,128,505,989	974,648,830,203
-	-	-	-	-	-	-	-
440	440	440	440	400	400	400	400
-	-	-	-	-	-	-	-

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2043	2044	2045	2046	2047	2048	2049	2050
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
2,287,055	2,262,902	2,239,513	2,216,679	2,194,266	2,172,189	2,150,395	2,128,854
28,778,772	28,474,851	28,180,541	27,893,217	27,611,184	27,333,376	27,059,139	26,788,079
6,213,165	6,147,551	6,084,011	6,021,979	5,961,090	5,901,113	5,841,907	5,783,386
129,516,534	128,186,235	126,883,536	125,602,667	124,339,876	123,092,777	121,859,879	120,640,262
23,093,428	22,857,766	22,626,383	22,398,500	22,173,604	21,951,370	21,731,591	21,514,138
400,262,477	396,226,524	392,244,093	388,309,475	384,419,414	380,571,445	376,763,771	372,995,342
-	-	-	-	-	-	-	-
213,992,224	211,807,892	209,664,187	207,553,327	205,470,030	203,411,148	201,374,829	199,359,836
-	-	-	-	-	-	-	-
461,644,738	456,990,415	452,398,360	447,861,636	443,375,964	438,938,446	434,547,129	430,200,778
-	-	-	-	-	-	-	-
247,652,514	245,182,523	242,734,173	240,308,309	237,905,934	235,527,298	233,172,300	230,840,942
-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
37,811,773	38,025,797	38,236,718	38,444,939	38,653,254	38,861,723	39,069,949	39,277,747
225,925,342	227,204,140	228,464,393	229,708,513	230,953,191	232,198,798	233,442,943	234,684,538
2,750,401,341	2,765,969,349	2,781,311,586	2,796,457,433	2,811,610,066	2,826,774,006	2,841,920,158	2,857,035,259
18,084,830,732	18,187,195,717	18,288,076,181	18,387,665,311	18,487,299,064	18,587,007,165	18,686,598,299	18,785,985,266
1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470
682,362	244,000	83,608	27,436	8,616	2,586	741	203
1,705,905	610,001	209,020	68,591	21,539	6,466	1,853	506
-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-
1,011,069,877,318	1,017,127,915,573	1,023,009,229,010	1,028,798,777,015	1,034,510,964,339	1,040,147,021,047	1,045,712,599,274	1,051,228,384,982
1	1	1	1	1	1	1	1
2,527,674,693,294	2,542,819,788,932	2,557,523,072,524	2,571,996,942,536	2,586,277,410,848	2,600,367,552,618	2,614,281,498,184	2,628,070,962,456
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
392,402,003,622	394,870,316,195	397,270,957,659	399,636,330,211	401,971,135,795	404,275,296,970	406,550,852,410	408,806,137,556
981,005,009,055	987,175,790,488	993,177,394,148	999,090,825,527	1,004,927,839,487	1,010,688,242,426	1,016,377,131,025	1,022,015,343,889
-	-	-	-	-	-	-	-
400	400	400	400	400	400	400	400
-	-	-	-	-	-	-	-

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Service routeing factors

		Asset name / Network element	Usage Measure	Voice TDM Local on-net calls	Voice TDM Regional on-net calls	Voice TDM National on-net calls	Voice TDM Regional outgoing calls
		Nodes routing path		RSX-LS-RS	RSX-LS-MGW-LS	RSX-LS-MGW-M	RSX-LS-MGW-otl
1	-	AN-Common: Site rental for core - PSTN	Common Access Accom	2	2	2	1
2	-	AN-Common: Site rental for core - Other	Common Access Accom	-	-	-	-
3	-	AN-Common: Air conditioning unit - PSTN	Common Access Power	2	2	2	1
4	-	AN-Common: UPS and Generator - PSTN	Common Access Power	2	2	2	1
5	-	AN-TDM: RSX processor/rack	TDM Access switching	2	2	2	1
6	-	AN-TDM: RSX line card - PSTN	Subscriber increment	-	-	-	-
7	-	AN-TDM: RSX line card - ISDN 2	Subscriber increment	-	-	-	-
8	-	AN-TDM: RSX line card - ISDN 30	Subscriber increment	-	-	-	-
9	-	AN-TDM: MDF splitter cards	xDSL service increment	-	-	-	-
10	-	AN-TDM: Replacement of RSX processor/rack	TDM Access switching	2	2	2	1
11	-	AN-IP: DSLAM processor/rack	xDSL service increment	-	-	-	-
12	-	AN-IP: DSLAM line cards - xDSL	xDSL service increment	-	-	-	-
13	-	AN-IP: DSLAM core-facing ports - 1GE electrical port	xDSL service increment	-	-	-	-
14	-	AN-IP: DSLAM core-facing ports - 1GE optical port	xDSL service increment	-	-	-	-
15	-	AN-Common: Air conditioning unit - Other	Common Access Power	-	-	-	-
16	-	AN-Common: UPS and Generator - Other	Common Access Power	-	-	-	-
17	-	AN-IP: mini-MSAN processor/rack	IP Access routing	-	-	-	-
18	-	AN-IP: MSAN processor/rack	IP Access routing	-	-	-	-
19	-	AN-IP: MSAN line card - PSTN	Subscriber increment	-	-	-	-
20	-	AN-IP: MSAN line card - xDSL	xDSL service increment	-	-	-	-
21	-	AN-IP: MSAN line card - splitter	xDSL service increment	-	-	-	-
22	-	AN-IP: MSAN core-facing ports - 1GE electrical port	IP Access routing	-	-	-	-
23	-	AN-IP: MSAN core-facing ports - 1GE optical port	IP Access routing	-	-	-	-
24	-	AN-IP: layer 2 switch - chassis	IP Access routing	-	-	-	-
25	-	AN-IP: layer 2 switch - 48 x 1GE electrical ports card	IP Access routing	-	-	-	-
26	-	AN-IP: layer 2 switch - 1GE optical port adaptor	IP Access routing	-	-	-	-
27	-	AN-IP: layer 2 switch - 12 x 10GE optical ports card	IP Access routing	-	-	-	-
28	-	spare	-	-	-	-	-
29	-	AN-IP: layer 3 edge router - chassis	IP Access routing	-	-	-	-
30	-	AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	IP Access routing	-	-	-	-
31	-	AN-IP: layer 3 edge router - 1GE optical port adaptor	IP Access routing	-	-	-	-
32	-	AN-IP: layer 3 edge router - 2 x 10GE optical ports card	IP Access routing	-	-	-	-
33	-	DN-Common: Site rental for core - PSTN	Common Distribution Acc	1	2	2	1
34	-	DN-Common: Site rental for core - Other	Common Distribution Acc	-	-	-	-
35	-	DN-Common: Air conditioning unit - PSTN	Common Distribution Pov	1	2	2	1

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36	-	DN-Common: UPS and Generator - PSTN	Common Distribution Pov	1	2	2	1
37	-	DN-TDM: LS chassis/processor	TDM Distribution switchir	1	2	2	1
38	-	DN-TDM: LS switchblock	TDM Distribution switchir	1	2	2	1
39	-	DN-TDM: LS software	TDM Distribution switchir	1	2	2	1
40	-	DN-IP: distribution SBC - chassis	NGN Distribution SBC	-	-	-	-
41	-	DN-IP: distribution SBC - 1GE port card	NGN Distribution SBC	-	-	-	-
42	-	DN-IP: layer 3 distribution router - chassis	IP Distribution routing	-	-	-	-
43	-	DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	IP Distribution routing	-	-	-	-
44	-	DN-IP: layer 3 distribution router - 1GE optical port adaptor	IP Distribution routing	-	-	-	-
45	-	DN-IP: layer 3 distribution router - 2 x 10GE optical port card	IP Distribution routing	-	-	-	-
46	-	DN-Common: Air conditioning unit - Other	Common Distribution Pov	-	-	-	-
47	-	DN-Common: UPS and Generator - Other	Common Distribution Pov	-	-	-	-
48	-	CN-Common: Site rental for core - PSTN	Common Core Accom - F	-	1	2	1
49	-	CN-Common: Site rental for core - Other	Common Core Accom - C	-	-	-	-
50	-	CN-Common: Air conditioning unit - PSTN	Common Core Power - P	-	1	2	1
51	-	CN-Common: UPS and Generator - PSTN	Common Core Power - P	-	1	2	1
52	-	CN-TDM: Call Server processor (softswitch)	TDM call servers	1	1	1	1
53	-	CN-TDM: Call Server software	TDM call servers	1	1	1	1
54	-	CN-TDM: Media Gateway switchblock	TDM Core switching	-	1	2	1
55	-	CN-TDM: international gateway (IGW) processor	TDM International switchi	-	-	-	-
56	-	CN-TDM: international gateway (IGW) switchblock	TDM International switchi	-	-	-	-
57	-	CN-TDM: international gateway (IGW) software	TDM International switchi	-	-	-	-
58	-	CN-TDM: interconnect ports - E1 ports	Specific	-	-	-	-
59	-	CN-TDM: Media Gateway STM4 ATM ports	TDM Core switching	-	1	2	1
60	-	CN-Common: Air conditioning unit - Other	Common Core Power - C	-	-	-	-
61	-	CN-Common: UPS and Generator - Other	Common Core Power - C	-	-	-	-
62	-	CN-IP: interco SBC - chassis	NGN Interconnect SBC	-	-	-	-
63	-	CN-IP: interco SBC - 1GE port card	NGN Interconnect SBC	-	-	-	-
64	-	CN-IP: Call Server processor (softswitch)	NGN call servers	-	-	-	-
65	-	CN-IP: Call Server software	NGN call servers	-	-	-	-
66	-	CN-TDM: interconnect trunk gateway (TGW)	NGN ss7 Voice interconr	-	-	-	-
67	-	CN - Interconnect trunk gateway E1 ports	Specific	-	-	-	-
68	-	CN-IP: layer 3 peering router - chassis	NGN SIP Voice interconr	-	-	-	-
69	-	CN-IP: layer 3 peering router - 4 x 1GE port card	Specific	-	-	-	-
70	-	CN-IP: layer 3 peering router - 10 x 100Mbps port card	Specific	-	-	-	-
71	-	CN-IP: layer 3 peering router - 10 x 10Mbps port card	Specific	-	-	-	-
72	-	CN-IP: layer 2 services switch - chassis	Specific	-	-	-	-
73	-	CN-IP: layer 2 services switch - 48 x 1GE ports card	Specific	-	-	-	-
74	-	CN-IP: layer 2 services switch - 12 x 10GE optical ports card	Specific	-	-	-	-
75	-	CN-IP: IP/MPLS router - chassis	IP Core routing	-	-	-	-
76	-	CN-IP: IP/MPLS router - 4 x 10GE port cards	IP Core routing	-	-	-	-
77	-	CN: BRAS	Specific	-	-	-	-
78	-	CN: DNS	Specific	-	-	-	-
79	-	CN: RADIUS	Specific	-	-	-	-
80	-	CN: VAS, IN platforms	Subscriber increment	-	-	-	-
81	-	CN: Billing system	Wholesale voice events	-	-	-	1

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82	-	Network management system: common	Specific	1	1	1	1
83	-	Clock and synchronisation equipment	Traffic units	1	1	1	1
84	-	Network management system: PSTN	Specific	1	1	1	1
85	-	Network management system: NGN voice	Specific	-	-	-	-
86	-	CPE: terminal adaptor (Pure VoIP operator) - traffic related only	NGN voice access	-	-	-	-
87	-	Wireless links: antenna towers and ancillary	Access transmission	2	2	2	1
88	-	Wireless links: transmission equipment	Access transmission	2	2	2	1
89	-	Wireless links: repeaters	Access transmission	2	2	2	1
90	-	Access transmission - submarine fibre cables (km)	Access transmission	2	2	2	1
91	-	Access transmission - terrestrial fibre cables (km)	Access transmission	2	2	2	1
92	-	Access transmission - trench (km)	Access transmission	2	2	2	1
93	-	Access transmission - ODF (12 fibre)	Access transmission	2	2	2	1
94	-	Access transmission - PDH 2Mbps terminal	TDM Access transmissio	2	2	2	1
95	-	Access transmission - PDH 8Mbps terminal	TDM Access transmissio	2	2	2	1
96	-	Access transmission - SDH STM-0 ADM	TDM Access transmissio	2	2	2	1
97	-	Access transmission - SDH STM-1 ADM	TDM Access transmissio	2	2	2	1
98	-	Access transmission - SDH STM-4 ADM	TDM Access transmissio	2	2	2	1
99	-	Access transmission - SDH STM-16 ADM	TDM Access transmissio	2	2	2	1
100	-	Access transmission - SDH STM-64 ADM	TDM Access transmissio	2	2	2	1
101	-	Access transmission - SDH regenerator	TDM Access transmissio	2	2	2	1
102	-	Access transmission - STM4 cross-connect	Digital cross-connects	-	-	-	-
103	-	Access transmission - CWDM ADM	IP Access transmission	-	-	-	-
104	-	Access transmission - CWDM Terminal	IP Access transmission	-	-	-	-
105	-	Access transmission - CWDM 1GE transponder	IP Access transmission	-	-	-	-
106	-	Access transmission - CWDM 10GE transponder	IP Access transmission	-	-	-	-
107	-	Access transmission - leased dark fibre DSLAM/MSAN-ER	IP Access transmission	-	-	-	-
108	-	Access transmission - leased dark fibre ER-DR	IP Access transmission	-	-	-	-
109	-	Access transmission - Ethernet leased lines DSLAM/MSAN-ER	IP Access transmission	-	-	-	-
110	-	Access transmission - Ethernet leased lines ER-DR	IP Access transmission	-	-	-	-
111	-	Distribution transmission - submarine fibre cables (km)	Distribution transmission	-	2	2	1
112	-	Distribution transmission - terrestrial fibre cables (km)	Distribution transmission	-	2	2	1
113	-	Distribution transmission - trench (km)	Distribution transmission	-	2	2	1
114	-	Distribution transmission - ODF (48-fibre)	Distribution transmission	-	2	2	1
115	-	Distribution transmission - SDH STM-0 ADM	TDM Distribution transmi	-	2	2	1
116	-	Distribution transmission - SDH STM-1 ADM	TDM Distribution transmi	-	2	2	1
117	-	Distribution transmission - SDH STM-4 ADM	TDM Distribution transmi	-	2	2	1
118	-	Distribution transmission - SDH STM-16 ADM	TDM Distribution transmi	-	2	2	1
119	-	Distribution transmission - SDH STM-64 ADM	TDM Distribution transmi	-	2	2	1
120	-	Distribution transmission - SDH regenerator	TDM Distribution transmi	-	2	2	1
121	-	Distribution transmission - STM16 cross-connect	Digital cross-connects	-	-	-	-
122	-	Distribution transmission - DWDM ADM	IP Distribution transmissi	-	-	-	-
123	-	Distribution transmission - DWDM Terminal	IP Distribution transmissi	-	-	-	-
124	-	Distribution transmission - DWDM 10GE transponder	IP Distribution transmissi	-	-	-	-
125	-	Distribution transmission - DWDM 40GE transponder	IP Distribution transmissi	-	-	-	-
126	-	Distribution transmission - leased dark fibre DR-CR	IP Distribution transmissi	-	-	-	-
127	-	Distribution transmission - Ethernet signal amplifier	IP Distribution transmissi	-	-	-	-

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128	-	Core transmission - submarine fibre cables (km)	Core transmission	-	-	1	-
129	-	Core transmission - terrestrial fibre cables (km)	Core transmission	-	-	1	-
130	-	Core transmission - trench (km)	Core transmission	-	-	1	-
131	-	Core transmission - ODF (96-fibre)	Core transmission	-	-	1	-
132	-	Core transmission - SDH STM-0 ADM	Core transmission	-	-	-	-
133	-	Core transmission - SDH STM-1 ADM	Core transmission	-	-	-	-
134	-	Core transmission - SDH STM-4 ADM	Core transmission	-	-	-	-
135	-	Core transmission - SDH STM-16 ADM	Core transmission	-	-	-	-
136	-	Core transmission - SDH STM-64 ADM	Core transmission	-	-	-	-
137	-	Core transmission - SDH regenerator	Core transmission	-	-	-	-
138	-	Core transmission - STM64 cross-connect	Digital cross-connects	-	-	-	-
139	-	Core transmission - DWDM ADM	Core transmission	-	-	1	-
140	-	Core transmission - DWDM 40GE transponder	Core transmission	-	-	1	-
141	-	Core transmission - DWDM signal amplifier	Core transmission	-	-	1	-
142	-	Core transmission - leased dark fibre CR-CR	Core transmission	-	-	1	-
143	-	Core transmission - Ethernet signal amplifier	Core transmission	-	-	1	-
144	-	Access transmission - Ethernet signal amplifier	IP Access transmission	-	-	-	-
145	-	Decommissioning of RSX	TDM Access switching	2	2	2	1
146	-	Decommissioning of LS	TDM Distribution switchir	1	2	2	1
147	-	Decommissioning of MGW	TDM Core switching	-	1	2	1
148	-	Decommissioning of CS	TDM call servers	1	1	1	1
149	-	Business Overheads (Capex)	Traffic units	1	1	1	1
150	-	Business Overheads (Opex)	Traffic units	1	1	1	1
151	-	NGN DSLAM - processor/rack	IP Access routing	-	-	-	-
152	-	NGN DSLAM - POTS line card	Subscriber increment	-	-	-	-
153	-	NGN DSLAM - xDSL line card	Broadband service increr	-	-	-	-
154	-	NGN DSLAM - fibre line card	Broadband service increr	-	-	-	-
155	-	NGN DSLAM - splitter	Broadband service increr	-	-	-	-
156	-	CN-IP: PE router - chassis	NGN voice access	-	-	-	-
157	-	CN-IP: PE router - 4x1GE port cards	NGN voice access	-	-	-	-
158	-	spare	-	-	-	-	-
159	-	CN-IP: Distribution SBC - software licences	NGN Distribution SBC	-	-	-	-
160	-	CN-IP: Interconnect SBC - software licences	NGN Interconnect SBC	-	-	-	-
161	-	IMS core: CS - upgrades (subscriber-driven)	NGN call servers	-	-	-	-
162	-	IMS core: CS - upgrades (voice-driven)	NGN call servers	-	-	-	-
163	-	IMS core: MTAS (Residential voice services)	NGN call servers	-	-	-	-
164	-	IMS core: MTAS (Business voice and ISDN)	NGN call servers	-	-	-	-
165	-	NGN DSLAM - mini-processor/rack	IP Access routing	-	-	-	-
166	-	CN-IP: layer 2 services switch - 12 x 40GE optical ports card	Specific	-	-	-	-
167	-	DN-IP: layer 3 distribution router - 2 x 40GE optical port card	IP Distribution routing	-	-	-	-
168	-	spare	-	-	-	-	-
169	-	spare	-	-	-	-	-
170	-	spare	-	-	-	-	-
171	-	spare	-	-	-	-	-
172	-	spare	-	-	-	-	-
173	-	spare	-	-	-	-	-

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174	-	spare	-	-	-	-	-
175	-	spare	-	-	-	-	-
176	-	spare	-	-	-	-	-
177	-	spare	-	-	-	-	-
178	-	spare	-	-	-	-	-
179	-	spare	-	-	-	-	-
180	-	spare	-	-	-	-	-
181	-	spare	-	-	-	-	-
182	-	spare	-	-	-	-	-
183	-	spare	-	-	-	-	-
184	-	spare	-	-	-	-	-
185	-	spare	-	-	-	-	-
186	-	spare	-	-	-	-	-
187	-	spare	-	-	-	-	-
188	-	spare	-	-	-	-	-
189	-	spare	-	-	-	-	-
190	-	spare	-	-	-	-	-
191	-	spare	-	-	-	-	-
192	-	spare	-	-	-	-	-
193	-	spare	-	-	-	-	-
194	-	spare	-	-	-	-	-
195	-	spare	-	-	-	-	-
196	-	spare	-	-	-	-	-
197	-	spare	-	-	-	-	-
198	-	spare	-	-	-	-	-
199	-	spare	-	-	-	-	-
200	-	spare	-	-	-	-	-
	-		*usage_measure*	*RF_S1*	*RF_S2*	*RF_S3*	*RF_S4*

check_all_RFs

Routing factors for pure LRIC/ LRAIC^ calculation

		Asset name / Network element Nodes routing path	Usage Measure	TDM	TDM Regional	TDM National	TDM Regional
				RSX-LS-RS	RSX-LS-MGW-LS	RSX-LS-MGW-M	RSX-LS-MGW-otl
1	-	AN-Common: Site rental for core - PSTN	Common Access Accom	1	1	1	1
2	-	AN-Common: Site rental for core - Other	Common Access Accom	-	-	-	-
3	-	AN-Common: Air conditioning unit - PSTN	Common Access Power	1	1	1	1
4	-	AN-Common: UPS and Generator - PSTN	Common Access Power	1	1	1	1
5	-	AN-TDM: RSX processor/rack	TDM Access switching	1	1	1	1
6	-	AN-TDM: RSX line card - PSTN	Subscriber increment	-	-	-	-
7	-	AN-TDM: RSX line card - ISDN 2	Subscriber increment	-	-	-	-
8	-	AN-TDM: RSX line card - ISDN 30	Subscriber increment	-	-	-	-
9	-	AN-TDM: MDF splitter cards	xDSL service increment	-	-	-	-
10	-	AN-TDM: Replacement of RSX processor/rack	TDM Access switching	1	1	1	1
11	-	AN-IP: DSLAM processor/rack	xDSL service increment	-	-	-	-
12	-	AN-IP: DSLAM line cards - xDSL	xDSL service increment	-	-	-	-
13	-	AN-IP: DSLAM core-facing ports - 1GE electrical port	xDSL service increment	-	-	-	-
14	-	AN-IP: DSLAM core-facing ports - 1GE optical port	xDSL service increment	-	-	-	-

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15	-	AN-Common: Air conditioning unit - Other	Common Access Power -	-	-	-	-
16	-	AN-Common: UPS and Generator - Other	Common Access Power -	-	-	-	-
17	-	AN-IP: mini-MSAN processor/rack	IP Access routing	-	-	-	-
18	-	AN-IP: MSAN processor/rack	IP Access routing	-	-	-	-
19	-	AN-IP: MSAN line card - PSTN	Subscriber increment	-	-	-	-
20	-	AN-IP: MSAN line card - xDSL	xDSL service increment	-	-	-	-
21	-	AN-IP: MSAN line card - splitter	xDSL service increment	-	-	-	-
22	-	AN-IP: MSAN core-facing ports - 1GE electrical port	IP Access routing	-	-	-	-
23	-	AN-IP: MSAN core-facing ports - 1GE optical port	IP Access routing	-	-	-	-
24	-	AN-IP: layer 2 switch - chassis	IP Access routing	-	-	-	-
25	-	AN-IP: layer 2 switch - 48 x 1GE electrical ports card	IP Access routing	-	-	-	-
26	-	AN-IP: layer 2 switch - 1GE optical port adaptor	IP Access routing	-	-	-	-
27	-	AN-IP: layer 2 switch - 12 x 10GE optical ports card	IP Access routing	-	-	-	-
28	-	spare	-	-	-	-	-
29	-	AN-IP: layer 3 edge router - chassis	IP Access routing	-	-	-	-
30	-	AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	IP Access routing	-	-	-	-
31	-	AN-IP: layer 3 edge router - 1GE optical port adaptor	IP Access routing	-	-	-	-
32	-	AN-IP: layer 3 edge router - 2 x 10GE optical ports card	IP Access routing	-	-	-	-
33	-	DN-Common: Site rental for core - PSTN	Common Distribution Acc	-	1	1	1
34	-	DN-Common: Site rental for core - Other	Common Distribution Acc	-	-	-	-
35	-	DN-Common: Air conditioning unit - PSTN	Common Distribution Pov	-	1	1	1
36	-	DN-Common: UPS and Generator - PSTN	Common Distribution Pov	-	1	1	1
37	-	DN-TDM: LS chassis/processor	TDM Distribution switchir	-	1	1	1
38	-	DN-TDM: LS switchblock	TDM Distribution switchir	-	1	1	1
39	-	DN-TDM: LS software	TDM Distribution switchir	-	1	1	1
40	-	DN-IP: distribution SBC - chassis	NGN Distribution SBC	-	-	-	-
41	-	DN-IP: distribution SBC - 1GE port card	NGN Distribution SBC	-	-	-	-
42	-	DN-IP: layer 3 distribution router - chassis	IP Distribution routing	-	-	-	-
43	-	DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	IP Distribution routing	-	-	-	-
44	-	DN-IP: layer 3 distribution router - 1GE optical port adaptor	IP Distribution routing	-	-	-	-
45	-	DN-IP: layer 3 distribution router - 2 x 10GE optical port card	IP Distribution routing	-	-	-	-
46	-	DN-Common: Air conditioning unit - Other	Common Distribution Pov	-	-	-	-
47	-	DN-Common: UPS and Generator - Other	Common Distribution Pov	-	-	-	-
48	-	CN-Common: Site rental for core - PSTN	Common Core Accom - F	-	1	2	1
49	-	CN-Common: Site rental for core - Other	Common Core Accom - C	-	-	-	-
50	-	CN-Common: Air conditioning unit - PSTN	Common Core Power - P	-	1	2	1
51	-	CN-Common: UPS and Generator - PSTN	Common Core Power - P	-	1	2	1
52	-	CN-TDM: Call Server processor (softswitch)	TDM call servers	1	1	1	1
53	-	CN-TDM: Call Server software	TDM call servers	1	1	1	1
54	-	CN-TDM: Media Gateway switchblock	TDM Core switching	-	1	2	1
55	-	CN-TDM: international gateway (IGW) processor	TDM International switchi	-	-	-	-
56	-	CN-TDM: international gateway (IGW) switchblock	TDM International switchi	-	-	-	-
57	-	CN-TDM: international gateway (IGW) software	TDM International switchi	-	-	-	-
58	-	CN-TDM: interconnect ports - E1 ports	Specific	-	-	-	-
59	-	CN-TDM: Media Gateway STM4 ATM ports	TDM Core switching	-	1	2	1
60	-	CN-Common: Air conditioning unit - Other	Common Core Power - C	-	-	-	-

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61	-	CN-Common: UPS and Generator - Other	Common Core Power - C	-	-	-	-
62	-	CN-IP: interco SBC - chassis	NGN Interconnect SBC	-	-	-	-
63	-	CN-IP: interco SBC - 1GE port card	NGN Interconnect SBC	-	-	-	-
64	-	CN-IP: Call Server processor (softswitch)	NGN call servers	-	-	-	-
65	-	CN-IP: Call Server software	NGN call servers	-	-	-	-
66	-	CN-TDM: interconnect trunk gateway (TGW)	NGN ss7 Voice interconr	-	-	-	-
67	-	CN - Interconnect trunk gateway E1 ports	Specific	-	-	-	-
68	-	CN-IP: layer 3 peering router - chassis	NGN SIP Voice interconr	-	-	-	-
69	-	CN-IP: layer 3 peering router - 4 x 1GE port card	Specific	-	-	-	-
70	-	CN-IP: layer 3 peering router - 10 x 100Mbps port card	Specific	-	-	-	-
71	-	CN-IP: layer 3 peering router - 10 x 10Mbps port card	Specific	-	-	-	-
72	-	CN-IP: layer 2 services switch - chassis	Specific	-	-	-	-
73	-	CN-IP: layer 2 services switch - 48 x 1GE ports card	Specific	-	-	-	-
74	-	CN-IP: layer 2 services switch - 12 x 10GE optical ports card	Specific	-	-	-	-
75	-	CN-IP: IP/MPLS router - chassis	IP Core routing	-	-	-	-
76	-	CN-IP: IP/MPLS router - 4 x 10GE port cards	IP Core routing	-	-	-	-
77	-	CN: BRAS	Specific	-	-	-	-
78	-	CN: DNS	Specific	-	-	-	-
79	-	CN: RADIUS	Specific	-	-	-	-
80	-	CN: VAS, IN platforms	Subscriber increment	-	-	-	-
81	-	CN: Billing system	Wholesale voice events	-	-	-	1
82	-	Network management system: common	Specific	1	1	1	1
83	-	Clock and synchronisation equipment	Traffic units	1	1	1	1
84	-	Network management system: PSTN	Specific	1	1	1	1
85	-	Network management system: NGN voice	Specific	-	-	-	-
86	-	CPE: terminal adaptor (Pure VoIP operator) - traffic related only	NGN voice access	-	-	-	-
87	-	Wireless links: antenna towers and ancillary	Access transmission	1	1	1	1
88	-	Wireless links: transmission equipment	Access transmission	1	1	1	1
89	-	Wireless links: repeaters	Access transmission	1	1	1	1
90	-	Access transmission - submarine fibre cables (km)	Access transmission	1	1	1	1
91	-	Access transmission - terrestrial fibre cables (km)	Access transmission	1	1	1	1
92	-	Access transmission - trench (km)	Access transmission	1	1	1	1
93	-	Access transmission - ODF (12 fibre)	Access transmission	1	1	1	1
94	-	Access transmission - PDH 2Mbps terminal	TDM Access transmissio	1	1	1	1
95	-	Access transmission - PDH 8Mbps terminal	TDM Access transmissio	1	1	1	1
96	-	Access transmission - SDH STM-0 ADM	TDM Access transmissio	1	1	1	1
97	-	Access transmission - SDH STM-1 ADM	TDM Access transmissio	1	1	1	1
98	-	Access transmission - SDH STM-4 ADM	TDM Access transmissio	1	1	1	1
99	-	Access transmission - SDH STM-16 ADM	TDM Access transmissio	1	1	1	1
100	-	Access transmission - SDH STM-64 ADM	TDM Access transmissio	1	1	1	1
101	-	Access transmission - SDH regenerator	TDM Access transmissio	1	1	1	1
102	-	Access transmission - STM4 cross-connect	Digital cross-connects	-	-	-	-
103	-	Access transmission - CWDM ADM	IP Access transmission	-	-	-	-
104	-	Access transmission - CWDM Terminal	IP Access transmission	-	-	-	-
105	-	Access transmission - CWDM 1GE transponder	IP Access transmission	-	-	-	-
106	-	Access transmission - CWDM 10GE transponder	IP Access transmission	-	-	-	-

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107	-	Access transmission - leased dark fibre DSLAM/MSAN-ER	IP Access transmission	-	-	-	-
108	-	Access transmission - leased dark fibre ER-DR	IP Access transmission	-	-	-	-
109	-	Access transmission - Ethernet leased lines DSLAM/MSAN-ER	IP Access transmission	-	-	-	-
110	-	Access transmission - Ethernet leased lines ER-DR	IP Access transmission	-	-	-	-
111	-	Distribution transmission - submarine fibre cables (km)	Distribution transmission	-	1	1	1
112	-	Distribution transmission - terrestrial fibre cables (km)	Distribution transmission	-	1	1	1
113	-	Distribution transmission - trench (km)	Distribution transmission	-	1	1	1
114	-	Distribution transmission - ODF (48-fibre)	Distribution transmission	-	1	1	1
115	-	Distribution transmission - SDH STM-0 ADM	TDM Distribution transmi	-	1	1	1
116	-	Distribution transmission - SDH STM-1 ADM	TDM Distribution transmi	-	1	1	1
117	-	Distribution transmission - SDH STM-4 ADM	TDM Distribution transmi	-	1	1	1
118	-	Distribution transmission - SDH STM-16 ADM	TDM Distribution transmi	-	1	1	1
119	-	Distribution transmission - SDH STM-64 ADM	TDM Distribution transmi	-	1	1	1
120	-	Distribution transmission - SDH regenerator	TDM Distribution transmi	-	1	1	1
121	-	Distribution transmission - STM16 cross-connect	Digital cross-connects	-	-	-	-
122	-	Distribution transmission - DWDM ADM	IP Distribution transmissi	-	-	-	-
123	-	Distribution transmission - DWDM Terminal	IP Distribution transmissi	-	-	-	-
124	-	Distribution transmission - DWDM 10GE transponder	IP Distribution transmissi	-	-	-	-
125	-	Distribution transmission - DWDM 40GE transponder	IP Distribution transmissi	-	-	-	-
126	-	Distribution transmission - leased dark fibre DR-CR	IP Distribution transmissi	-	-	-	-
127	-	Distribution transmission - Ethernet signal amplifier	IP Distribution transmissi	-	-	-	-
128	-	Core transmission - submarine fibre cables (km)	Core transmission	-	-	1	-
129	-	Core transmission - terrestrial fibre cables (km)	Core transmission	-	-	1	-
130	-	Core transmission - trench (km)	Core transmission	-	-	1	-
131	-	Core transmission - ODF (96-fibre)	Core transmission	-	-	1	-
132	-	Core transmission - SDH STM-0 ADM	Core transmission	-	-	-	-
133	-	Core transmission - SDH STM-1 ADM	Core transmission	-	-	-	-
134	-	Core transmission - SDH STM-4 ADM	Core transmission	-	-	-	-
135	-	Core transmission - SDH STM-16 ADM	Core transmission	-	-	-	-
136	-	Core transmission - SDH STM-64 ADM	Core transmission	-	-	-	-
137	-	Core transmission - SDH regenerator	Core transmission	-	-	-	-
138	-	Core transmission - STM64 cross-connect	Digital cross-connects	-	-	-	-
139	-	Core transmission - DWDM ADM	Core transmission	-	-	1	-
140	-	Core transmission - DWDM 40GE transponder	Core transmission	-	-	1	-
141	-	Core transmission - DWDM signal amplifier	Core transmission	-	-	1	-
142	-	Core transmission - leased dark fibre CR-CR	Core transmission	-	-	1	-
143	-	Core transmission - Ethernet signal amplifier	Core transmission	-	-	1	-
144	-	Access transmission - Ethernet signal amplifier	IP Access transmission	-	-	-	-
145	-	Decommissioning of RSX	TDM Access switching	1	1	1	1
146	-	Decommissioning of LS	TDM Distribution switchir	-	1	1	1
147	-	Decommissioning of MGW	TDM Core switching	-	1	2	1
148	-	Decommissioning of CS	TDM call servers	1	1	1	1
149	-	Business Overheads (Capex)	Traffic units	1	1	1	1
150	-	Business Overheads (Opex)	Traffic units	1	1	1	1
151	-	NGN DSLAM - processor/rack	IP Access routing	-	-	-	-
152	-	NGN DSLAM - POTS line card	Subscriber increment	-	-	-	-

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153	-	NGN DSLAM - xDSL line card	Broadband service increr	-	-	-	-
154	-	NGN DSLAM - fibre line card	Broadband service increr	-	-	-	-
155	-	NGN DSLAM - splitter	Broadband service increr	-	-	-	-
156	-	CN-IP: PE router - chassis	NGN voice access	-	-	-	-
157	-	CN-IP: PE router - 4x1GE port cards	NGN voice access	-	-	-	-
158	-	spare	-	-	-	-	-
159	-	CN-IP: Distribution SBC - software licences	NGN Distribution SBC	-	-	-	-
160	-	CN-IP: Interconnect SBC - software licences	NGN Interconnect SBC	-	-	-	-
161	-	IMS core: CS - upgrades (subscriber-driven)	NGN call servers	-	-	-	-
162	-	IMS core: CS - upgrades (voice-driven)	NGN call servers	-	-	-	-
163	-	IMS core: MTAS (Residential voice services)	NGN call servers	-	-	-	-
164	-	IMS core: MTAS (Business voice and ISDN)	NGN call servers	-	-	-	-
165	-	NGN DSLAM - mini-processor/rack	IP Access routing	-	-	-	-
166	-	CN-IP: layer 2 services switch - 12 x 40GE optical ports card	Specific	-	-	-	-
167	-	DN-IP: layer 3 distribution router - 2 x 40GE optical port card	IP Distribution routing	-	-	-	-
168	-	spare	-	-	-	-	-
169	-	spare	-	-	-	-	-
170	-	spare	-	-	-	-	-
171	-	spare	-	-	-	-	-
172	-	spare	-	-	-	-	-
173	-	spare	-	-	-	-	-
174	-	spare	-	-	-	-	-
175	-	spare	-	-	-	-	-
176	-	spare	-	-	-	-	-
177	-	spare	-	-	-	-	-
178	-	spare	-	-	-	-	-
179	-	spare	-	-	-	-	-
180	-	spare	-	-	-	-	-
181	-	spare	-	-	-	-	-
182	-	spare	-	-	-	-	-
183	-	spare	-	-	-	-	-
184	-	spare	-	-	-	-	-
185	-	spare	-	-	-	-	-
186	-	spare	-	-	-	-	-
187	-	spare	-	-	-	-	-
188	-	spare	-	-	-	-	-
189	-	spare	-	-	-	-	-
190	-	spare	-	-	-	-	-
191	-	spare	-	-	-	-	-
192	-	spare	-	-	-	-	-
193	-	spare	-	-	-	-	-
194	-	spare	-	-	-	-	-
195	-	spare	-	-	-	-	-
196	-	spare	-	-	-	-	-
197	-	spare	-	-	-	-	-
198	-	spare	-	-	-	-	-

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199	-	spare	-	-	-	-	-
200	-	spare	-	-	-	-	-

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Voice	Voice	Voice	Voice	Voice	Voice	Voice	xDSL/dial-ι	Voice	Voice	Voice	Voice	Voice
TDM National outgoing calls	**TDM Outgoing calls - international leg**	**TDM Regional incoming calls**	**TDM National incoming calls**	**TDM Incoming calls - international leg**	**TDM Local transit calls (wholesale)**	**TDM Tandem transit calls (wholesale)**	**TDM Dial-up Internet traffic**	**NGN Local on-net calls**	**NGN Regional on-net calls**	**NGN National on-net calls**	**NGN Regional outgoing calls**	**NGN National outgoing calls**
RSX-LS-MGW-M	...-IGW-internatio	other operators-	other operators-M	international oper	other operators-M	other operators-M	varying over	MSAN-L2S-I	MSAN-L2S-I	MSAN-L2S-I	MSAN-L2S-I	MSAN-L2S-I
1	-	1	1	-	-	-	1	-	-	-	-	-
-	-	-	-	-	-	-	-	2	2	2	1	1
1	-	1	1	-	-	-	1	-	-	-	-	-
1	-	1	1	-	-	-	1	-	-	-	-	-
1	-	1	1	-	-	-	1	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	2	2	2	1	1
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-	-	-	-	-	-	-	-	2	2	2	1	1
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-	-	-	-	-	-	-	-	2	2	2	1	1
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-	-	-	-	-	-	-	2	1	2	2	1	1
1	-	1	1	-	-	-	1	-	-	-	-	-

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1	-	1	1	-	-	-	1	-	-	-	-	-
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2	-	1	2	-	1	2	-	-	-	-	-	-
-	1	-	-	1	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	1	-	1	2	1	2
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	1	1	1	1	1
-	-	-	-	-	-	-	-	1	1	1	1	1
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	-	-	-	-	-
-	-	-	-	-	-	-	1	-	-	-	-	-
-	-	-	-	-	-	-	1	-	-	-	-	-
-	-	-	-	-	-	-	1	-	1	2	1	2
-	-	-	-	-	-	-	1	-	1	2	1	2
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1	-	1	1	-	1	1	-	-	-	-	1	1

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1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
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-	-	-	-	-	-	-	-	1	1	1	1	1
-	-	-	-	-	-	-	-	2	2	2	1	1
1	-	1	1	-	-	-	1	2	2	2	1	1
1	-	1	1	-	-	-	1	2	2	2	1	1
1	-	1	1	-	-	-	1	2	2	2	1	1
1	-	1	1	-	-	-	1	2	2	2	1	1
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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

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TDM National	TDM	TDM	TDM National	TDM	TDM Local	TDM Tandem	TDM Dial-	NGN	NGN	NGN	NGN	NGN
RSX-LS-MGW-M	...-IGW-internatio	other operators-	other operators-M	international oper	other operators-M	other operators-M	varying over	MSAN-L2S-I	MSAN-L2S-I	MSAN-L2S-I	MSAN-L2S-I	MSAN-L2S-I
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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

Voice	Voice	Voice	Voice	Voice	Voice	Voice	Voice	spare	Leased line	Leased line	Leased line	IP/E VPN c	IP/E VPN c	IP/E VPN c
NGN Outgoing ss7 leg	**NGN Outgoing SIP leg**	**NGN Regional incoming calls**	**NGN National incoming calls**	**NGN Incoming ss7 leg**	**NGN Incoming SIP leg**	**NGN Local transit calls**	**NGN Tandem transit calls**	**spare**	**Low capacity digital leased lines (<=8 Mbps)**	**High capacity digital leased lines (>8 Mbps)**	**Fibre (dark or wavelength)**	**Data services (sublocal VPN, contended)**	**Data services (local VPN, contended)**	**Data services (regional VPN, contended)**
...-SBC-<c>-	...-SBC-PR-(	CR-DR-ER-I	CR-CR-DR-I	other operat	other operat	other operat	other operat	spare	spare	spare	spare	L2S-ER-L2S	L2S-ER-DR-	L2S-ER-DR-
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CONFIDENTIAL © Analysys Mason

IP/E VPN c	Internet data	Internet data	Internet data	TV - VoD +	TV - VoD +	Internet dat	subscribers	Internet dat
Data services (national VPN, contended)	Bitstream (direct, contended)	xDSL (direct, contended)	xDSL (indirect, contended)	VoD (direct, contended)	VoD (indirect, contended)	Fibre traffic (direct, contended)	Subscribers	Fibre traffic (indirect, contended)
L2S-ER-DR-	DSLAM/MSAN-L2S-ER	DSLAM/MSAN-L2S-ER-DR	DSLAM/MSAN-L2S-ER-DR-CR-CR-DR	DSLAM/MS/	DSLAM/MS/	DSLAM/MS/	spare	DSLAM/MS/
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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

TV - VoD + Linear	TV - VoD + Linear	TV - VoD + Linear	TV - VoD + Linear	Internet da	Internet da	voice ports	voice ports	voice ports	voice
linear TV broadcast (distribution to DSLAM/MSANs)	**linear TV broadcast (distribution to ER)**	**linear TV broadcast (distribution to DR)**	**linear TV broadcast (provisioning to CR)**	**Cable traffic (direct, contended)**	**Cable traffic (indirect, contended)**	**TDM ss7 interconnection ports**	**NGN ss7 interconnection ports**	**sip interconnection ports**	**Pure LRIC applicable assets**
DSLAM/MSAN-L2S-ER	ER-DR	DR-CR	CR-service platforms	ER-DR-ER	ER-DR-CR-(	ports	ports	ports	
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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

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CONFIDENTIAL © Analysys Mason

RF_S42	RF_S43	RF_S44	RF_S45	RF_S46	RF_S47	RF_S48	RF_S49	RF_S50	routing_fac	Pure_LRIC_applicable_assets
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linear TV broadcast DSLAM/MSAN-L2S-ER	linear TV ER-DR	linear TV DR-CR	linear TV CR-service platforms	Cable ER-DR-ER	Cable ER-DR-CR-(	TDM ss7 ports	NGN ss7 ports	sip ports
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1	1	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-
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1	1	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-
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-	1	-	-	1	1	-	-	-
-	1	-	-	1	1	-	-	-
-	1	-	-	1	1	-	-	-

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Network element output

Service Demand

	1991
TDM Local on-net calls	-
TDM Regional on-net calls	-
TDM National on-net calls	-
TDM Regional outgoing calls	-
TDM National outgoing calls	-
TDM Outgoing calls - international leg	-
TDM Regional incoming calls	-
TDM National incoming calls	-
TDM Incoming calls - international leg	-
TDM Local transit calls (wholesale)	-
TDM Tandem transit calls (wholesale)	-
TDM Dial-up Internet traffic	-
NGN Local on-net calls	-
NGN Regional on-net calls	-
NGN National on-net calls	-
NGN Regional outgoing calls	-
NGN National outgoing calls	-
NGN Outgoing ss7 leg	-
NGN Outgoing SIP leg	-
NGN Regional incoming calls	-
NGN National incoming calls	-
NGN Incoming ss7 leg	-
NGN Incoming SIP leg	-
NGN Local transit calls	-
NGN Tandem transit calls	-
spare	-
Low capacity digital leased lines (<=8 Mbps)	-
High capacity digital leased lines (>8 Mbps)	-
Fibre (dark or wavelength)	-
Data services (sublocal VPN, contended)	-
Data services (local VPN, contended)	-
Data services (regional VPN, contended)	-
Data services (national VPN, contended)	-
Bitstream (direct, contended)	-
xDSL (direct, contended)	-
xDSL (indirect, contended)	-
VoD (direct, contended)	-
VoD (indirect, contended)	-

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Fibre traffic (direct, contended)	-
Subscribers	-
Fibre traffic (indirect, contended)	-
linear TV broadcast (distribution to DSLAM/MSANs)	-
linear TV broadcast (distribution to ER)	-
linear TV broadcast (distribution to DR)	-
linear TV broadcast (provisioning to CR)	-
Cable traffic (direct, contended)	-
Cable traffic (indirect, contended)	-
TDM ss7 interconnection ports	-
NGN ss7 interconnection ports	-
sip interconnection ports	-

Service routeing factors

	1
	TDM Local on-net calls
AN-Common: Site rental for core - PSTN	2.00
spare	-

Recovery profile

	Start recovery	Remove and end cost recovery	1991
AN-Common: Site rental for core - PSTN	1992	2060	-%
AN-Common: Site rental for core - Other	1992	2060	-%
AN-Common: Air conditioning unit - PSTN	1992	2060	-%
AN-Common: UPS and Generator - PSTN	1992	2060	-%
AN-TDM: RSX processor/rack	1992	2016	-%
AN-TDM: RSX line card - PSTN	1992	2016	-%
AN-TDM: RSX line card - ISDN 2	1992	2016	-%
AN-TDM: RSX line card - ISDN 30	1992	2016	-%
AN-TDM: MDF splitter cards	1992	2016	-%
AN-TDM: Replacement of RSX processor/rack	1992	2016	-%
AN-IP: DSLAM processor/rack	1992	2016	-%
AN-IP: DSLAM line cards - xDSL	1992	2016	-%
AN-IP: DSLAM core-facing ports - 1GE electrical port	1992	2016	-%
AN-IP: DSLAM core-facing ports - 1GE optical port	1992	2016	-%
AN-Common: Air conditioning unit - Other	1992	2060	-%
AN-Common: UPS and Generator - Other	1992	2060	-%
AN-IP: mini-MSAN processor/rack	2013	2060	-%
AN-IP: MSAN processor/rack	2013	2060	-%
AN-IP: MSAN line card - PSTN	2013	2060	-%
AN-IP: MSAN line card - xDSL	2013	2060	-%
AN-IP: MSAN line card - splitter	2013	2060	-%

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AN-IP: MSAN core-facing ports - 1GE electrical port	2013	2060	-%
AN-IP: MSAN core-facing ports - 1GE optical port	2013	2060	-%
AN-IP: layer 2 switch - chassis	1992	2060	-%
AN-IP: layer 2 switch - 48 x 1GE electrical ports card	1992	2060	-%
AN-IP: layer 2 switch - 1GE optical port adaptor	1992	2060	-%
AN-IP: layer 2 switch - 12 x 10GE optical ports card	1992	2060	-%
spare	2013	2060	-%
AN-IP: layer 3 edge router - chassis	1992	2060	-%
AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	1992	2060	-%
AN-IP: layer 3 edge router - 1GE optical port adaptor	1992	2060	-%
AN-IP: layer 3 edge router - 2 x 10GE optical ports card	1992	2060	-%
DN-Common: Site rental for core - PSTN	1992	2060	-%
DN-Common: Site rental for core - Other	1992	2060	-%
DN-Common: Air conditioning unit - PSTN	1992	2060	-%
DN-Common: UPS and Generator - PSTN	1992	2060	-%
DN-TDM: LS chassis/processor	1992	2016	-%
DN-TDM: LS switchblock	1992	2016	-%
DN-TDM: LS software	1992	2016	-%
DN-IP: distribution SBC - chassis	2013	2060	-%
DN-IP: distribution SBC - 1GE port card	2013	2060	-%
DN-IP: layer 3 distribution router - chassis	1992	2060	-%
DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	1992	2060	-%
DN-IP: layer 3 distribution router - 1GE optical port adaptor	1992	2060	-%
DN-IP: layer 3 distribution router - 2 x 10GE optical port card	1992	2060	-%
DN-Common: Air conditioning unit - Other	1992	2060	-%
DN-Common: UPS and Generator - Other	1992	2060	-%
CN-Common: Site rental for core - PSTN	1992	2060	-%
CN-Common: Site rental for core - Other	1992	2060	-%
CN-Common: Air conditioning unit - PSTN	1992	2060	-%
CN-Common: UPS and Generator - PSTN	1992	2060	-%
CN-TDM: Call Server processor (softswitch)	2003	2016	-%
CN-TDM: Call Server software	2003	2016	-%
CN-TDM: Media Gateway switchblock	2003	2016	-%
CN-TDM: international gateway (IGW) processor	2003	2016	-%
CN-TDM: international gateway (IGW) switchblock	2003	2016	-%
CN-TDM: international gateway (IGW) software	2003	2016	-%
CN-TDM: interconnect ports - E1 ports	2003	2016	-%
CN-TDM: Media Gateway STM4 ATM ports	2003	2016	-%
CN-Common: Air conditioning unit - Other	1992	2060	-%
CN-Common: UPS and Generator - Other	1992	2060	-%
CN-IP: interco SBC - chassis	2013	2060	-%
CN-IP: interco SBC - 1GE port card	2013	2060	-%
CN-IP: Call Server processor (softswitch)	2013	2060	-%
CN-IP: Call Server software	2013	2060	-%
CN-TDM: interconnect trunk gateway (TGW)	2013	2060	-%
CN - Interconnect trunk gateway E1 ports	2013	2060	-%

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CN-IP: layer 3 peering router - chassis	2013	2060	-%
CN-IP: layer 3 peering router - 4 x 1GE port card	2013	2060	-%
CN-IP: layer 3 peering router - 10 x 100Mbps port card	2013	2060	-%
CN-IP: layer 3 peering router - 10 x 10Mbps port card	2013	2060	-%
CN-IP: layer 2 services switch - chassis	1992	2060	-%
CN-IP: layer 2 services switch - 48 x 1GE ports card	1992	2060	-%
CN-IP: layer 2 services switch - 12 x 10GE optical ports card	1992	2060	-%
CN-IP: IP/MPLS router - chassis	1992	2060	-%
CN-IP: IP/MPLS router - 4 x 10GE port cards	1992	2060	-%
CN: BRAS	1992	2060	-%
CN: DNS	1992	2060	-%
CN: RADIUS	1992	2060	-%
CN: VAS, IN platforms	1992	2060	-%
CN: Billing system	1992	2060	-%
Network management system: common	1992	2060	-%
Clock and synchronisation equipment	1992	2060	-%
Network management system: PSTN	1992	2060	-%
Network management system: NGN voice	1992	2060	-%
CPE: terminal adaptor (Pure VoIP operator) - traffic related only	1992	2060	-%
Wireless links: antenna towers and ancillary	1992	2060	-%
Wireless links: transmission equipment	1992	2060	-%
Wireless links: repeaters	1992	2060	-%
Access transmission - submarine fibre cables (km)	1992	2060	-%
Access transmission - terrestrial fibre cables (km)	1992	2060	-%
Access transmission - trench (km)	1992	2060	-%
Access transmission - ODF (12 fibre)	1992	2060	-%
Access transmission - PDH 2Mbps terminal	1992	2020	-%
Access transmission - PDH 8Mbps terminal	1992	2020	-%
Access transmission - SDH STM-0 ADM	1992	2020	-%
Access transmission - SDH STM-1 ADM	1992	2020	-%
Access transmission - SDH STM-4 ADM	1992	2020	-%
Access transmission - SDH STM-16 ADM	1992	2020	-%
Access transmission - SDH STM-64 ADM	1992	2020	-%
Access transmission - SDH regenerator	1992	2020	-%
Access transmission - STM4 cross-connect	1992	2020	-%
Access transmission - CWDM ADM	1992	2060	-%
Access transmission - CWDM Terminal	1992	2060	-%
Access transmission - CWDM 1GE transponder	1992	2060	-%
Access transmission - CWDM 10GE transponder	1992	2060	-%
Access transmission - leased dark fibre DSLAM/MSAN-ER	1992	2060	-%
Access transmission - leased dark fibre ER-DR	1992	2060	-%
Access transmission - Ethernet leased lines DSLAM/MSAN-ER	1992	2060	-%
Access transmission - Ethernet leased lines ER-DR	1992	2060	-%
Distribution transmission - submarine fibre cables (km)	1992	2060	-%
Distribution transmission - terrestrial fibre cables (km)	1992	2060	-%
Distribution transmission - trench (km)	1992	2060	-%

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Distribution transmission - ODF (48-fibre)	1992	2060	-%
Distribution transmission - SDH STM-0 ADM	1992	2020	-%
Distribution transmission - SDH STM-1 ADM	1992	2020	-%
Distribution transmission - SDH STM-4 ADM	1992	2020	-%
Distribution transmission - SDH STM-16 ADM	1992	2020	-%
Distribution transmission - SDH STM-64 ADM	1992	2020	-%
Distribution transmission - SDH regenerator	1992	2020	-%
Distribution transmission - STM16 cross-connect	1992	2020	-%
Distribution transmission - DWDM ADM	1992	2060	-%
Distribution transmission - DWDM Terminal	1992	2060	-%
Distribution transmission - DWDM 10GE transponder	1992	2060	-%
Distribution transmission - DWDM 40GE transponder	1992	2060	-%
Distribution transmission - leased dark fibre DR-CR	1992	2060	-%
Distribution transmission - Ethernet signal amplifier	1992	2060	-%
Core transmission - submarine fibre cables (km)	1992	2060	-%
Core transmission - terrestrial fibre cables (km)	1992	2060	-%
Core transmission - trench (km)	1992	2060	-%
Core transmission - ODF (96-fibre)	1992	2060	-%
Core transmission - SDH STM-0 ADM	1992	2020	-%
Core transmission - SDH STM-1 ADM	1992	2020	-%
Core transmission - SDH STM-4 ADM	1992	2020	-%
Core transmission - SDH STM-16 ADM	1992	2020	-%
Core transmission - SDH STM-64 ADM	1992	2020	-%
Core transmission - SDH regenerator	1992	2020	-%
Core transmission - STM64 cross-connect	1992	2020	-%
Core transmission - DWDM ADM	1992	2060	-%
Core transmission - DWDM 40GE transponder	1992	2060	-%
Core transmission - DWDM signal amplifier	1992	2060	-%
Core transmission - leased dark fibre CR-CR	1992	2060	-%
Core transmission - Ethernet signal amplifier	1992	2060	-%
Access transmission - Ethernet signal amplifier	1992	2060	-%
Decommissioning of RSX	1992	2060	-%
Decommissioning of LS	1992	2060	-%
Decommissioning of MGW	1992	2060	-%
Decommissioning of CS	1992	2060	-%
Business Overheads (Capex)	1991	2060	100%
Business Overheads (Opex)	1991	2060	100%
NGN DSLAM - processor/rack	2013	2060	-%
NGN DSLAM - POTS line card	2013	2060	-%
NGN DSLAM - xDSL line card	2013	2060	-%
NGN DSLAM - fibre line card	2013	2060	-%
NGN DSLAM - splitter	2013	2060	-%
CN-IP: PE router - chassis	2013	2060	-%
CN-IP: PE router - 4x1GE port cards	2013	2060	-%
spare	2013	0	-%
CN-IP: Distribution SBC - software licences	2013	2060	-%

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CN-IP: Interconnect SBC - software licences	2013	2060	-%
IMS core: CS - upgrades (subscriber-driven)	2013	2060	-%
IMS core: CS - upgrades (voice-driven)	2013	2060	-%
IMS core: MTAS (Residential voice services)	2013	2060	-%
IMS core: MTAS (Business voice and ISDN)	2013	2060	-%
NGN DSLAM - mini-processor/rack	2013	2060	-%
CN-IP: layer 2 services switch - 12 x 40GE optical ports card	1992	2060	-%
DN-IP: layer 3 distribution router - 2 x 40GE optical port card	1992	2060	-%
spare	0	0	-%
spare	0	0	-%
spare	0	0	-%
spare	0	0	-%
spare	0	0	-%
spare	0	0	-%
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Recovery profile in binary form

	1991
AN-Common: Site rental for core - PSTN	-
spare	-

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Network element output

= Service routing factors * Total Service demand * recovery profile

	Network element	1991
-	AN-Common: Site rental for core - PSTN	-
-	AN-Common: Site rental for core - Other	-
-	AN-Common: Air conditioning unit - PSTN	-
-	AN-Common: UPS and Generator - PSTN	-
-	AN-TDM: RSX processor/rack	-
-	AN-TDM: RSX line card - PSTN	-
-	AN-TDM: RSX line card - ISDN 2	-
-	AN-TDM: RSX line card - ISDN 30	-
-	AN-TDM: MDF splitter cards	-
-	AN-TDM: Replacement of RSX processor/rack	-
-	AN-IP: DSLAM processor/rack	-
-	AN-IP: DSLAM line cards - xDSL	-
-	AN-IP: DSLAM core-facing ports - 1GE electrical port	-
-	AN-IP: DSLAM core-facing ports - 1GE optical port	-
-	AN-Common: Air conditioning unit - Other	-
-	AN-Common: UPS and Generator - Other	-
-	AN-IP: mini-MSAN processor/rack	-
-	AN-IP: MSAN processor/rack	-
-	AN-IP: MSAN line card - PSTN	-
-	AN-IP: MSAN line card - xDSL	-
-	AN-IP: MSAN line card - splitter	-
-	AN-IP: MSAN core-facing ports - 1GE electrical port	-
-	AN-IP: MSAN core-facing ports - 1GE optical port	-
-	AN-IP: layer 2 switch - chassis	-
-	AN-IP: layer 2 switch - 48 x 1GE electrical ports card	-
-	AN-IP: layer 2 switch - 1GE optical port adaptor	-
-	AN-IP: layer 2 switch - 12 x 10GE optical ports card	-
-	spare	-
-	AN-IP: layer 3 edge router - chassis	-
-	AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	-
-	AN-IP: layer 3 edge router - 1GE optical port adaptor	-
-	AN-IP: layer 3 edge router - 2 x 10GE optical ports card	-
-	DN-Common: Site rental for core - PSTN	-
-	DN-Common: Site rental for core - Other	-
-	DN-Common: Air conditioning unit - PSTN	-
-	DN-Common: UPS and Generator - PSTN	-
-	DN-TDM: LS chassis/processor	-
-	DN-TDM: LS switchblock	-
-	DN-TDM: LS software	-
-	DN-IP: distribution SBC - chassis	-
-	DN-IP: distribution SBC - 1GE port card	-
-	DN-IP: layer 3 distribution router - chassis	-

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-	DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	-
-	DN-IP: layer 3 distribution router - 1GE optical port adaptor	-
-	DN-IP: layer 3 distribution router - 2 x 10GE optical port card	-
-	DN-Common: Air conditioning unit - Other	-
-	DN-Common: UPS and Generator - Other	-
-	CN-Common: Site rental for core - PSTN	-
-	CN-Common: Site rental for core - Other	-
-	CN-Common: Air conditioning unit - PSTN	-
-	CN-Common: UPS and Generator - PSTN	-
-	CN-TDM: Call Server processor (softswitch)	-
-	CN-TDM: Call Server software	-
-	CN-TDM: Media Gateway switchblock	-
-	CN-TDM: international gateway (IGW) processor	-
-	CN-TDM: international gateway (IGW) switchblock	-
-	CN-TDM: international gateway (IGW) software	-
-	CN-TDM: interconnect ports - E1 ports	-
-	CN-TDM: Media Gateway STM4 ATM ports	-
-	CN-Common: Air conditioning unit - Other	-
-	CN-Common: UPS and Generator - Other	-
-	CN-IP: interco SBC - chassis	-
-	CN-IP: interco SBC - 1GE port card	-
-	CN-IP: Call Server processor (softswitch)	-
-	CN-IP: Call Server software	-
-	CN-TDM: interconnect trunk gateway (TGW)	-
-	CN - Interconnect trunk gateway E1 ports	-
-	CN-IP: layer 3 peering router - chassis	-
-	CN-IP: layer 3 peering router - 4 x 1GE port card	-
-	CN-IP: layer 3 peering router - 10 x 100Mbps port card	-
-	CN-IP: layer 3 peering router - 10 x 10Mbps port card	-
-	CN-IP: layer 2 services switch - chassis	-
-	CN-IP: layer 2 services switch - 48 x 1GE ports card	-
-	CN-IP: layer 2 services switch - 12 x 10GE optical ports card	-
-	CN-IP: IP/MPLS router - chassis	-
-	CN-IP: IP/MPLS router - 4 x 10GE port cards	-
-	CN: BRAS	-
-	CN: DNS	-
-	CN: RADIUS	-
-	CN: VAS, IN platforms	-
-	CN: Billing system	-
-	Network management system: common	-
-	Clock and synchronisation equipment	-
-	Network management system: PSTN	-
-	Network management system: NGN voice	-
-	CPE: terminal adaptor (Pure VoIP operator) - traffic related only	-
-	Wireless links: antenna towers and ancillary	-
-	Wireless links: transmission equipment	-

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-	Wireless links: repeaters	-
-	Access transmission - submarine fibre cables (km)	-
-	Access transmission - terrestrial fibre cables (km)	-
-	Access transmission - trench (km)	-
-	Access transmission - ODF (12 fibre)	-
-	Access transmission - PDH 2Mbps terminal	-
-	Access transmission - PDH 8Mbps terminal	-
-	Access transmission - SDH STM-0 ADM	-
-	Access transmission - SDH STM-1 ADM	-
-	Access transmission - SDH STM-4 ADM	-
-	Access transmission - SDH STM-16 ADM	-
-	Access transmission - SDH STM-64 ADM	-
-	Access transmission - SDH regenerator	-
-	Access transmission - STM4 cross-connect	-
-	Access transmission - CWDM ADM	-
-	Access transmission - CWDM Terminal	-
-	Access transmission - CWDM 1GE transponder	-
-	Access transmission - CWDM 10GE transponder	-
-	Access transmission - leased dark fibre DSLAM/MSAN-ER	-
-	Access transmission - leased dark fibre ER-DR	-
-	Access transmission - Ethernet leased lines DSLAM/MSAN-ER	-
-	Access transmission - Ethernet leased lines ER-DR	-
-	Distribution transmission - submarine fibre cables (km)	-
-	Distribution transmission - terrestrial fibre cables (km)	-
-	Distribution transmission - trench (km)	-
-	Distribution transmission - ODF (48-fibre)	-
-	Distribution transmission - SDH STM-0 ADM	-
-	Distribution transmission - SDH STM-1 ADM	-
-	Distribution transmission - SDH STM-4 ADM	-
-	Distribution transmission - SDH STM-16 ADM	-
-	Distribution transmission - SDH STM-64 ADM	-
-	Distribution transmission - SDH regenerator	-
-	Distribution transmission - STM16 cross-connect	-
-	Distribution transmission - DWDM ADM	-
-	Distribution transmission - DWDM Terminal	-
-	Distribution transmission - DWDM 10GE transponder	-
-	Distribution transmission - DWDM 40GE transponder	-
-	Distribution transmission - leased dark fibre DR-CR	-
-	Distribution transmission - Ethernet signal amplifier	-
-	Core transmission - submarine fibre cables (km)	-
-	Core transmission - terrestrial fibre cables (km)	-
-	Core transmission - trench (km)	-
-	Core transmission - ODF (96-fibre)	-
-	Core transmission - SDH STM-0 ADM	-
-	Core transmission - SDH STM-1 ADM	-
-	Core transmission - SDH STM-4 ADM	-

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-	Core transmission - SDH STM-16 ADM	-
-	Core transmission - SDH STM-64 ADM	-
-	Core transmission - SDH regenerator	-
-	Core transmission - STM64 cross-connect	-
-	Core transmission - DWDM ADM	-
-	Core transmission - DWDM 40GE transponder	-
-	Core transmission - DWDM signal amplifier	-
-	Core transmission - leased dark fibre CR-CR	-
-	Core transmission - Ethernet signal amplifier	-
-	Access transmission - Ethernet signal amplifier	-
-	Decommissioning of RSX	-
-	Decommissioning of LS	-
-	Decommissioning of MGW	-
-	Decommissioning of CS	-
-	Business Overheads (Capex)	-
-	Business Overheads (Opex)	-
-	NGN DSLAM - processor/rack	-
-	NGN DSLAM - POTS line card	-
-	NGN DSLAM - xDSL line card	-
-	NGN DSLAM - fibre line card	-
-	NGN DSLAM - splitter	-
-	CN-IP: PE router - chassis	-
-	CN-IP: PE router - 4x1GE port cards	-
-	spare	-
-	CN-IP: Distribution SBC - software licences	-
-	CN-IP: Interconnect SBC - software licences	-
-	IMS core: CS - upgrades (subscriber-driven)	-
-	IMS core: CS - upgrades (voice-driven)	-
-	IMS core: MTAS (Residential voice services)	-
-	IMS core: MTAS (Business voice and ISDN)	-
-	NGN DSLAM - mini-processor/rack	-
-	CN-IP: layer 2 services switch - 12 x 40GE optical ports card	-
-	DN-IP: layer 3 distribution router - 2 x 40GE optical port card	-
-	spare	-
-	spare	-
-	spare	-
-	spare	-
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-	AN-IP: DSLAM core-facing ports - 1GE electrical port	-
-	AN-IP: DSLAM core-facing ports - 1GE optical port	-
-	AN-Common: Air conditioning unit - Other	-
-	AN-Common: UPS and Generator - Other	-
-	AN-IP: mini-MSAN processor/rack	-
-	AN-IP: MSAN processor/rack	-
-	AN-IP: MSAN line card - PSTN	-
-	AN-IP: MSAN line card - xDSL	-
-	AN-IP: MSAN line card - splitter	-
-	AN-IP: MSAN core-facing ports - 1GE electrical port	-
-	AN-IP: MSAN core-facing ports - 1GE optical port	-
-	AN-IP: layer 2 switch - chassis	-
-	AN-IP: layer 2 switch - 48 x 1GE electrical ports card	-
-	AN-IP: layer 2 switch - 1GE optical port adaptor	-
-	AN-IP: layer 2 switch - 12 x 10GE optical ports card	-
-	spare	-
-	AN-IP: layer 3 edge router - chassis	-
-	AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	-
-	AN-IP: layer 3 edge router - 1GE optical port adaptor	-
-	AN-IP: layer 3 edge router - 2 x 10GE optical ports card	-
-	DN-Common: Site rental for core - PSTN	-
-	DN-Common: Site rental for core - Other	-
-	DN-Common: Air conditioning unit - PSTN	-
-	DN-Common: UPS and Generator - PSTN	-
-	DN-TDM: LS chassis/processor	-
-	DN-TDM: LS switchblock	-
-	DN-TDM: LS software	-
-	DN-IP: distribution SBC - chassis	-
-	DN-IP: distribution SBC - 1GE port card	-
-	DN-IP: layer 3 distribution router - chassis	-
-	DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	-
-	DN-IP: layer 3 distribution router - 1GE optical port adaptor	-
-	DN-IP: layer 3 distribution router - 2 x 10GE optical port card	-
-	DN-Common: Air conditioning unit - Other	-
-	DN-Common: UPS and Generator - Other	-
-	CN-Common: Site rental for core - PSTN	-
-	CN-Common: Site rental for core - Other	-
-	CN-Common: Air conditioning unit - PSTN	-
-	CN-Common: UPS and Generator - PSTN	-
-	CN-TDM: Call Server processor (softswitch)	-
-	CN-TDM: Call Server software	-
-	CN-TDM: Media Gateway switchblock	-
-	CN-TDM: international gateway (IGW) processor	-
-	CN-TDM: international gateway (IGW) switchblock	-
-	CN-TDM: international gateway (IGW) software	-
-	CN-TDM: interconnect ports - E1 ports	-

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-	CN-TDM: Media Gateway STM4 ATM ports	-
-	CN-Common: Air conditioning unit - Other	-
-	CN-Common: UPS and Generator - Other	-
-	CN-IP: interco SBC - chassis	-
-	CN-IP: interco SBC - 1GE port card	-
-	CN-IP: Call Server processor (softswitch)	-
-	CN-IP: Call Server software	-
-	CN-TDM: interconnect trunk gateway (TGW)	-
-	CN - Interconnect trunk gateway E1 ports	-
-	CN-IP: layer 3 peering router - chassis	-
-	CN-IP: layer 3 peering router - 4 x 1GE port card	-
-	CN-IP: layer 3 peering router - 10 x 100Mbps port card	-
-	CN-IP: layer 3 peering router - 10 x 10Mbps port card	-
-	CN-IP: layer 2 services switch - chassis	-
-	CN-IP: layer 2 services switch - 48 x 1GE ports card	-
-	CN-IP: layer 2 services switch - 12 x 10GE optical ports card	-
-	CN-IP: IP/MPLS router - chassis	-
-	CN-IP: IP/MPLS router - 4 x 10GE port cards	-
-	CN: BRAS	-
-	CN: DNS	-
-	CN: RADIUS	-
-	CN: VAS, IN platforms	-
-	CN: Billing system	-
-	Network management system: common	-
-	Clock and synchronisation equipment	-
-	Network management system: PSTN	-
-	Network management system: NGN voice	-
-	CPE: terminal adaptor (Pure VoIP operator) - traffic related only	-
-	Wireless links: antenna towers and ancillary	-
-	Wireless links: transmission equipment	-
-	Wireless links: repeaters	-
-	Access transmission - submarine fibre cables (km)	-
-	Access transmission - terrestrial fibre cables (km)	-
-	Access transmission - trench (km)	-
-	Access transmission - ODF (12 fibre)	-
-	Access transmission - PDH 2Mbps terminal	-
-	Access transmission - PDH 8Mbps terminal	-
-	Access transmission - SDH STM-0 ADM	-
-	Access transmission - SDH STM-1 ADM	-
-	Access transmission - SDH STM-4 ADM	-
-	Access transmission - SDH STM-16 ADM	-
-	Access transmission - SDH STM-64 ADM	-
-	Access transmission - SDH regenerator	-
-	Access transmission - STM4 cross-connect	-
-	Access transmission - CWDM ADM	-
-	Access transmission - CWDM Terminal	-

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-	Access transmission - CWDM 1GE transponder	-
-	Access transmission - CWDM 10GE transponder	-
-	Access transmission - leased dark fibre DSLAM/MSAN-ER	-
-	Access transmission - leased dark fibre ER-DR	-
-	Access transmission - Ethernet leased lines DSLAM/MSAN-ER	-
-	Access transmission - Ethernet leased lines ER-DR	-
-	Distribution transmission - submarine fibre cables (km)	-
-	Distribution transmission - terrestrial fibre cables (km)	-
-	Distribution transmission - trench (km)	-
-	Distribution transmission - ODF (48-fibre)	-
-	Distribution transmission - SDH STM-0 ADM	-
-	Distribution transmission - SDH STM-1 ADM	-
-	Distribution transmission - SDH STM-4 ADM	-
-	Distribution transmission - SDH STM-16 ADM	-
-	Distribution transmission - SDH STM-64 ADM	-
-	Distribution transmission - SDH regenerator	-
-	Distribution transmission - STM16 cross-connect	-
-	Distribution transmission - DWDM ADM	-
-	Distribution transmission - DWDM Terminal	-
-	Distribution transmission - DWDM 10GE transponder	-
-	Distribution transmission - DWDM 40GE transponder	-
-	Distribution transmission - leased dark fibre DR-CR	-
-	Distribution transmission - Ethernet signal amplifier	-
-	Core transmission - submarine fibre cables (km)	-
-	Core transmission - terrestrial fibre cables (km)	-
-	Core transmission - trench (km)	-
-	Core transmission - ODF (96-fibre)	-
-	Core transmission - SDH STM-0 ADM	-
-	Core transmission - SDH STM-1 ADM	-
-	Core transmission - SDH STM-4 ADM	-
-	Core transmission - SDH STM-16 ADM	-
-	Core transmission - SDH STM-64 ADM	-
-	Core transmission - SDH regenerator	-
-	Core transmission - STM64 cross-connect	-
-	Core transmission - DWDM ADM	-
-	Core transmission - DWDM 40GE transponder	-
-	Core transmission - DWDM signal amplifier	-
-	Core transmission - leased dark fibre CR-CR	-
-	Core transmission - Ethernet signal amplifier	-
-	Access transmission - Ethernet signal amplifier	-
-	Decommissioning of RSX	-
-	Decommissioning of LS	-
-	Decommissioning of MGW	-
-	Decommissioning of CS	-
-	Business Overheads (Capex)	-
-	Business Overheads (Opex)	-

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-	NGN DSLAM - processor/rack	-
-	NGN DSLAM - POTS line card	-
-	NGN DSLAM - xDSL line card	-
-	NGN DSLAM - fibre line card	-
-	NGN DSLAM - splitter	-
-	CN-IP: PE router - chassis	-
-	CN-IP: PE router - 4x1GE port cards	-
-	spare	-
-	CN-IP: Distribution SBC - software licences	-
-	CN-IP: Interconnect SBC - software licences	-
-	IMS core: CS - upgrades (subscriber-driven)	-
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-	IMS core: MTAS (Business voice and ISDN)	-
-	NGN DSLAM - mini-processor/rack	-
-	CN-IP: layer 2 services switch - 12 x 40GE optical ports card	-
-	DN-IP: layer 3 distribution router - 2 x 40GE optical port card	-
-	spare	-
-	spare	-
-	spare

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1992	1993	1994	1995	1996	1997	1998	1999
734,157,990	756,608,612	773,501,748	778,455,279	778,509,149	771,236,851	756,759,981	766,560,799
9,238,154,713	9,520,658,367	9,733,230,327	9,795,562,265	9,796,240,128	9,704,730,377	9,522,563,089	9,645,890,050
1,994,462,541	2,055,453,396	2,101,346,415	2,114,803,509	2,114,949,856	2,095,193,446	2,055,864,614	2,082,490,170
1,241,033,957	1,278,984,894	1,365,372,772	1,571,092,500	1,795,971,827	1,973,528,211	2,148,374,430	3,601,073,145
248,206,791	255,796,979	273,074,554	314,218,500	359,194,365	394,705,642	429,674,886	559,722,470
412,345,040	424,954,591	436,569,358	446,608,496	454,904,824	457,801,569	457,000,000	541,084,756
412,345,040	424,954,591	511,528,521	777,503,978	1,077,654,513	1,327,417,818	1,586,348,303	2,623,324,773
-	-	-	-	-	-	-	67,264,738
114,171,219	117,662,586	136,298,357	184,181,752	227,467,486	256,602,176	281,205,317	452,583,724
-	-	23,846,485	115,689,823	244,401,311	380,613,289	564,197,922	248,018,353
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-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
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1	1	1	1	1	1	1	1
20,829,312,338	23,176,964,600	25,787,968,854	28,680,771,351	31,903,552,849	35,504,827,977	39,544,771,878	42,594,815,014
161,698,811,390	166,635,446,520	171,714,474,883	176,872,181,868	182,216,077,155	187,807,958,858	193,728,979,781	183,367,216,263
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1	1	1	1	1	1	1	1

TDM Regional on-net calls	TDM National on-net calls	TDM Regional outgoing calls	TDM National outgoing calls	TDM Outgoing calls - international leg	TDM Regional incoming calls	TDM National incoming calls	TDM Incoming calls - international leg
2.00	2.00	1.00	1.00	-	1.00	1.00	-
-	-	-	-	-	-	-	-

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1992	1993	1994	1995	1996	1997	1998	1999
25,835,136,276	26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
25,835,136,276	26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163
25,835,136,276	26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163
25,835,136,276	26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163
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1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
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25,835,136,276	26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163
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182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
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25,100,978,285	25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364
182,528,123,727	189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004	225,471,934,835	237,497,277,659	235,633,681,277
25,100,978,285	25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364
25,100,978,285	25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364
25,100,978,285	25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364
25,100,978,285	25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364
25,100,978,285	25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364
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-	-	200,000,000	560,000,000	1,180,000,000	2,159,148,000	4,223,526,000	9,671,650,000

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-	-	200,000,000	560,000,000	1,180,000,000	2,159,148,000	4,223,526,000	9,671,650,000
-	-	200,000,000	560,000,000	1,180,000,000	2,159,148,000	4,223,526,000	9,671,650,000
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182,528,123,727	189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004	225,471,934,835	237,497,277,659	235,633,681,277
182,528,123,727	189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004	225,471,934,835	237,497,277,659	235,633,681,277
15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077
182,528,123,727	189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004	224,392,360,835	235,385,514,659	230,797,856,277
15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077
15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077
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182,528,123,727	189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004	224,392,360,835	235,385,514,659	230,797,856,277
182,528,123,727	189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004	224,392,360,835	235,385,514,659	230,797,856,277
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-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
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-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
1	1	1	1	1	1	1	1
1,901,585,788	1,959,736,464	2,173,822,333	2,778,504,801	3,477,222,017	4,076,264,960	4,728,595,541	7,099,403,479
196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256
196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256
14,394,877,291	14,835,074,016	15,454,768,537	16,378,116,102	17,439,293,460	18,441,403,379	19,913,751,541	25,423,837,978
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208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440

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208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
208,363,260,003	216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
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206,894,944,022	214,924,371,109	223,421,573,069	232,316,499,746	241,764,830,677	251,687,860,152	262,706,767,684	261,106,001,842
206,894,944,022	214,924,371,109	223,421,573,069	232,316,499,746	241,764,830,677	251,687,860,152	262,706,767,684	261,106,001,842
206,894,944,022	214,924,371,109	223,421,573,069	232,316,499,746	241,764,830,677	251,687,860,152	262,706,767,684	261,106,001,842
206,894,944,022	214,924,371,109	223,421,573,069	232,316,499,746	241,764,830,677	251,687,860,152	262,706,767,684	261,106,001,842
206,894,944,022	214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842
206,894,944,022	214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842
206,894,944,022	214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842
206,894,944,022	214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842
206,894,944,022	214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842
206,894,944,022	214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277

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182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
2,242,669,332	2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221	3,569,473,088	4,597,302,500	7,545,302,378
2,242,669,332	2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221	3,569,473,088	4,597,302,500	7,545,302,378
2,242,669,332	2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221	3,569,473,088	4,597,302,500	7,545,302,378
184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
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25,835,136,276	26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163
25,100,978,285	25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364
15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077
14,394,877,291	14,835,074,016	15,454,768,537	16,378,116,102	17,439,293,460	18,441,403,379	19,913,751,541	25,423,837,978
196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256
196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256
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-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
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TDM Regional on-net calls	TDM National on-net calls	TDM Regional outgoing calls	TDM National outgoing calls	TDM Outgoing calls - international leg	TDM Regional incoming calls	TDM National incoming calls	TDM Incoming calls - international leg
1.00	1.00	1.00	1.00	-	1.00	1.00	-
-	-	-	-	-	-	-	-

1992	1993	1994	1995	1996	1997	1998	1999
13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839	17,346,386,345	18,611,348,303	24,182,151,145
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839	17,346,386,345	18,611,348,303	24,182,151,145
13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839	17,346,386,345	18,611,348,303	24,182,151,145
13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839	17,346,386,345	18,611,348,303	24,182,151,145
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
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13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839	17,346,386,345	18,611,348,303	24,182,151,145
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182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
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13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689	16,575,149,494	17,854,588,323	23,415,590,346
182,528,123,727	189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004	225,471,934,835	237,497,277,659	235,633,681,277
13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689	16,575,149,494	17,854,588,323	23,415,590,346
13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689	16,575,149,494	17,854,588,323	23,415,590,346
13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689	16,575,149,494	17,854,588,323	23,415,590,346
13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689	16,575,149,494	17,854,588,323	23,415,590,346
13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689	16,575,149,494	17,854,588,323	23,415,590,346
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-	-	200,000,000	560,000,000	1,180,000,000	2,159,148,000	4,223,526,000	9,671,650,000
-	-	200,000,000	560,000,000	1,180,000,000	2,159,148,000	4,223,526,000	9,671,650,000
-	-	200,000,000	560,000,000	1,180,000,000	2,159,148,000	4,223,526,000	9,671,650,000
-	-	-	-	-	-	-	-
182,528,123,727	189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004	225,471,934,835	237,497,277,659	235,633,681,277
182,528,123,727	189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004	225,471,934,835	237,497,277,659	235,633,681,277
15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077
182,528,123,727	189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004	224,392,360,835	235,385,514,659	230,797,856,277
15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077
15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077
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182,528,123,727	189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004	224,392,360,835	235,385,514,659	230,797,856,277
182,528,123,727	189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004	224,392,360,835	235,385,514,659	230,797,856,277
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-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
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-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
1	1	1	1	1	1	1	1
1,901,585,788	1,959,736,464	2,173,822,333	2,778,504,801	3,477,222,017	4,076,264,960	4,728,595,541	7,099,403,479
196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256
196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256
14,394,877,291	14,835,074,016	15,454,768,537	16,378,116,102	17,439,293,460	18,441,403,379	19,913,751,541	25,423,837,978
-	-	-	-	-	-	-	-
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196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843	240,659,173,180	251,885,099,962	250,144,182,421
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
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195,662,326,769	203,348,259,346	211,586,996,327	220,406,133,972	229,853,640,693	239,887,936,329	251,128,339,981	249,377,621,623
195,662,326,769	203,348,259,346	211,586,996,327	220,406,133,972	229,853,640,693	239,887,936,329	251,128,339,981	249,377,621,623
195,662,326,769	203,348,259,346	211,586,996,327	220,406,133,972	229,853,640,693	239,887,936,329	251,128,339,981	249,377,621,623
195,662,326,769	203,348,259,346	211,586,996,327	220,406,133,972	229,853,640,693	239,887,936,329	251,128,339,981	249,377,621,623
195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693	238,808,362,329	249,016,576,981	244,541,796,623
195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693	238,808,362,329	249,016,576,981	244,541,796,623
195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693	238,808,362,329	249,016,576,981	244,541,796,623
195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693	238,808,362,329	249,016,576,981	244,541,796,623
195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693	238,808,362,329	249,016,576,981	244,541,796,623
195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693	238,808,362,329	249,016,576,981	244,541,796,623
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
-	-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000
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184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277
2,242,669,332	2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221	3,569,473,088	4,597,302,500	7,545,302,378
2,242,669,332	2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221	3,569,473,088	4,597,302,500	7,545,302,378
2,242,669,332	2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221	3,569,473,088	4,597,302,500	7,545,302,378
184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655
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13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839	17,346,386,345	18,611,348,303	24,182,151,145
13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689	16,575,149,494	17,854,588,323	23,415,590,346
15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077
14,394,877,291	14,835,074,016	15,454,768,537	16,378,116,102	17,439,293,460	18,441,403,379	19,913,751,541	25,423,837,978
196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256
196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256

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2000	2001	2002	2003	2004	2005	2006	2007
746,784,934	653,137,941	541,945,632	458,629,702	358,593,774	292,678,683	238,361,471	197,746,166
9,397,043,756	8,218,652,419	6,819,482,536	5,771,090,414	4,512,304,984	3,682,873,427	2,999,381,845	2,488,305,918
2,028,765,738	1,774,358,072	1,472,285,634	1,245,944,023	974,179,751	795,110,422	647,548,663	537,210,417
6,099,602,597	7,410,629,694	7,263,117,543	7,445,144,000	7,063,438,042	6,164,981,353	5,317,394,163	4,385,676,502
767,903,115	984,566,591	1,089,059,454	1,240,259,311	1,312,687,608	1,147,996,271	993,478,833	822,135,300
500,607,334	526,179,260	450,114,956	408,333,382	348,920,065	365,548,217	390,560,011	383,261,783
3,501,333,032	4,201,318,780	4,392,425,552	4,609,425,278	4,433,788,299	3,856,572,968	3,177,136,174	2,861,356,996
184,280,686	340,647,469	488,047,284	658,489,325	782,433,229	680,571,700	560,671,090	504,945,352
507,046,335	617,234,495	576,940,496	579,799,875	539,092,600	541,481,313	519,353,969	524,928,328
453,791,836	684,593,733	803,251,457	915,403,993	1,000,000,000	1,000,000,000	1,000,000,000	1,000,000,000
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7,401,297,000	8,723,000,000	8,176,000,000	7,322,862,992	5,486,000,000	3,366,000,000	1,608,906,000	804,985,197
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45,739,667,334	49,045,530,208	56,729,024,145	52,354,956,081	51,716,266,249	48,101,368,195	37,230,858,232	34,318,784,197
171,804,307,916	184,774,068,551	155,285,005,233	136,716,729,781	160,434,165,254	203,953,676,232	210,472,046,091	159,319,542,267
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-	-	-	44,864,338	145,181,670	239,029,620	263,081,312	230,849,903
-	-	-	165,100,763	543,260,443	897,976,141	968,617,559	854,144,642
-	-	-	1,539,744,068	6,425,459,726	9,380,297,528	9,607,251,193	9,764,950,907
-	-	-	3,499,418,337	14,227,803,679	31,551,909,865	43,355,800,253	43,399,781,808
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70,487	4,849,524	56,869,759	186,644,751	879,624,995	2,425,507,743	5,203,173,559	11,779,470,832
-	-	-	93,322,376	439,812,498	2,425,507,743	7,804,760,338	17,669,206,248
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-	24	8,405	11,345	1,225,479	3,141,860	8,804,189	14,783,510
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-	-	-	5,672	612,740	3,141,860	13,206,284	22,175,266
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102,756	1,573,854	10,209,141	28,275,674	86,511,181	225,252,797	589,581,372	1,724,799,032
-	-	-	14,137,837	43,255,591	225,252,797	884,372,059	2,587,198,547
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TDM Local transit calls (wholesale)	TDM Tandem transit calls (wholesale)	TDM Dial-up Internet traffic	NGN Local on-net calls	NGN Regional on-net calls	NGN National on-net calls	NGN Regional outgoing calls	NGN National outgoing calls
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2000	2001	2002	2003	2004	2005	2006	2007
42,299,605,287	42,952,459,396	39,076,077,434	36,227,509,183	30,768,504,195	24,757,447,356	19,428,170,219	15,825,624,348
217,544,148,493	233,826,022,162	212,081,116,684	199,847,474,191	256,139,703,353	341,262,245,914	370,333,221,445	335,704,564,518
42,299,605,287	42,952,459,396	39,076,077,434	36,227,509,183	30,768,504,195	24,757,447,356	19,428,170,219	15,825,624,348
42,299,605,287	42,952,459,396	39,076,077,434	36,227,509,183	30,768,504,195	24,757,447,356	19,428,170,219	15,825,624,348
42,299,605,287	42,952,459,396	39,076,077,434	36,227,509,183	30,768,504,195	24,757,447,356	19,428,170,219	15,825,624,348
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173,243	6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436
42,299,605,287	42,952,459,396	39,076,077,434	36,227,509,183	30,768,504,195	24,757,447,356	19,428,170,219	15,825,624,348
173,243	6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436
173,243	6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436
173,243	6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436
173,243	6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436
217,544,148,493	233,826,022,162	212,081,116,684	199,847,474,191	256,139,703,353	341,262,245,914	370,333,221,445	335,704,564,518
217,544,148,493	233,826,022,162	212,081,116,684	199,847,474,191	256,139,703,353	341,262,245,914	370,333,221,445	335,704,564,518
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173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
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173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
41,552,820,352	42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182
232,346,742,493	251,272,022,162	228,433,116,684	214,390,700,960	266,906,942,067	349,511,142,553	381,021,673,254	356,508,120,428
41,552,820,352	42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182
41,552,820,352	42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182
41,552,820,352	42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182
41,552,820,352	42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182
41,552,820,352	42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182
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14,802,767,243	17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565	97,456,098,126	133,318,768,931	162,869,793,963

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14,802,767,243	17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565	97,456,098,126	133,318,768,931	162,869,793,963
14,802,767,243	17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565	97,456,098,126	133,318,768,931	162,869,793,963
173,243	6,423,403	67,087,305	10,673,289,113	43,784,510,565	90,724,098,126	130,100,956,931	161,259,823,570
232,346,742,493	251,272,022,162	228,433,116,684	214,390,700,960	266,906,942,067	349,511,142,553	381,021,673,254	356,508,120,428
232,346,742,493	251,272,022,162	228,433,116,684	214,390,700,960	266,906,942,067	349,511,142,553	381,021,673,254	356,508,120,428
25,413,670,298	26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
224,945,445,493	242,549,022,162	220,257,116,684	205,362,993,137	254,452,221,898	335,866,868,885	368,836,898,503	345,084,039,682
25,413,670,298	26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
25,413,670,298	26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
-	-	-	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958
-	-	-	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958
-	-	-	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
-	-	-	988,133,257	888,012,665	907,029,530	909,913,980	908,190,111
-	-	-	988,133,257	888,012,665	907,029,530	909,913,980	908,190,111
-	-	-	988,133,257	888,012,665	907,029,530	909,913,980	908,190,111
-	-	-	8,240	8,240	7,600	6,960	6,320
-	-	-	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
224,945,445,493	242,549,022,162	220,257,116,684	205,362,993,137	254,452,221,898	335,866,868,885	368,836,898,503	345,084,039,682
224,945,445,493	242,549,022,162	220,257,116,684	205,362,993,137	254,452,221,898	335,866,868,885	368,836,898,503	345,084,039,682
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7,401,470,243	8,729,423,403	8,243,087,305	7,645,260,647	6,937,042,484	8,673,804,800	16,112,803,801	34,602,618,633
7,401,470,243	8,729,423,403	8,243,087,305	7,645,260,647	6,937,042,484	8,673,804,800	16,112,803,801	34,602,618,633
7,401,470,243	8,729,423,403	8,243,087,305	7,645,260,647	6,937,042,484	8,673,804,800	16,112,803,801	34,602,618,633
7,401,470,243	8,729,423,403	8,243,087,305	16,291,307,274	42,301,790,395	83,811,824,458	121,133,994,180	151,445,713,218
7,401,470,243	8,729,423,403	8,243,087,305	16,291,307,274	42,301,790,395	83,811,824,458	121,133,994,180	151,445,713,218
173,243	6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436
7,401,470,243	8,729,423,403	8,243,087,305	7,645,260,647	6,937,042,484	8,673,804,800	16,112,803,801	34,602,618,633
7,401,470,243	8,729,423,403	8,243,087,305	7,645,260,647	6,937,042,484	8,673,804,800	16,112,803,801	34,602,618,633
1	1	1	1	1	1	1	1
11,006,911,265	13,621,756,267	14,035,901,288	14,868,721,908	14,592,347,178	12,850,122,291	11,048,680,259	9,574,114,150
249,132,604,857	267,960,340,615	244,153,787,226	225,298,593,318	261,754,617,857	321,325,876,735	333,854,344,660	296,196,239,120
249,132,604,857	267,960,340,615	244,153,787,226	225,298,593,318	261,754,617,857	321,325,876,735	333,854,344,660	296,196,239,120
31,588,456,363	34,134,318,453	32,072,670,542	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958
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259,843,753,780	276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769
259,843,753,780	276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769

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259,843,753,780	276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769
259,843,753,780	276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769
259,843,753,780	276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769
259,843,753,780	276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769
259,843,753,780	276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769
259,843,580,537	276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812
259,843,580,537	276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812
259,843,580,537	276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812
259,843,580,537	276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812
259,843,580,537	276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812
259,843,580,537	276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812
259,843,580,537	276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
258,350,183,911	275,472,205,677	250,073,302,853	234,890,123,993	285,442,998,272	366,053,256,403	395,786,690,972	369,474,137,409
258,350,183,911	275,472,205,677	250,073,302,853	234,890,123,993	285,442,998,272	366,053,256,403	395,786,690,972	369,474,137,409
258,350,183,911	275,472,205,677	250,073,302,853	234,890,123,993	285,442,998,272	366,053,256,403	395,786,690,972	369,474,137,409
258,350,183,911	275,472,205,677	250,073,302,853	234,890,123,993	285,442,998,272	366,053,256,403	395,786,690,972	369,474,137,409
250,948,713,668	266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284
250,948,713,668	266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284
250,948,713,668	266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284
250,948,713,668	266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284
250,948,713,668	266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284
250,948,713,668	266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124
7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124
7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124
7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124
173,243	6,423,403	67,087,305	10,508,188,351	43,241,250,121	89,826,121,986	129,132,339,372	160,405,678,928
173,243	6,423,403	67,087,305	10,508,188,351	43,241,250,121	89,826,121,986	129,132,339,372	160,405,678,928
227,926,221,789	245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600
227,926,221,789	245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600
227,926,221,789	245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600
227,926,221,789	245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465

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217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
10,382,246,539	11,822,572,131	11,225,392,371	14,074,439,874	23,266,785,096	40,195,490,658	55,868,743,519	66,347,638,136
10,382,246,539	11,822,572,131	11,225,392,371	14,074,439,874	23,266,785,096	40,195,490,658	55,868,743,519	66,347,638,136
10,382,246,539	11,822,572,131	11,225,392,371	14,074,439,874	23,266,785,096	40,195,490,658	55,868,743,519	66,347,638,136
227,926,221,789	245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600
227,926,221,789	245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
42,299,605,287	42,952,459,396	39,076,077,434	36,227,509,183	30,768,504,195	24,757,447,356	19,428,170,219	15,825,624,348
41,552,820,352	42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182
25,413,670,298	26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
31,588,456,363	34,134,318,453	32,072,670,542	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958
249,132,604,857	267,960,340,615	244,153,787,226	225,298,593,318	261,754,617,857	321,325,876,735	333,854,344,660	296,196,239,120
249,132,604,857	267,960,340,615	244,153,787,226	225,298,593,318	261,754,617,857	321,325,876,735	333,854,344,660	296,196,239,120
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7,401,470,243	8,729,423,403	8,243,087,305	7,645,260,647	6,937,042,484	8,673,804,800	16,112,803,801	34,602,618,633
173,243	6,423,403	67,087,305	10,673,289,113	43,784,510,565	90,724,098,126	130,100,956,931	161,259,823,570
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

TDM Local transit calls (wholesale)	TDM Tandem transit calls (wholesale)	TDM Dial-up Internet traffic	NGN Local on-net calls	NGN Regional on-net calls	NGN National on-net calls	NGN Regional outgoing calls	NGN National outgoing calls
-	-	1.00	-	-	-	-	-
-	-	-	-	-	-	-	-

2000	2001	2002	2003	2004	2005	2006	2007
30,127,010,858	32,306,310,965	30,242,363,633	28,751,845,045	24,923,425,687	19,986,784,824	15,542,878,239	12,602,361,847
217,544,045,737	233,824,448,283	212,070,899,137	199,805,043,663	256,008,098,362	340,805,456,600	368,837,257,541	331,355,608,163
30,127,010,858	32,306,310,965	30,242,363,633	28,751,845,045	24,923,425,687	19,986,784,824	15,542,878,239	12,602,361,847
30,127,010,858	32,306,310,965	30,242,363,633	28,751,845,045	24,923,425,687	19,986,784,824	15,542,878,239	12,602,361,847
30,127,010,858	32,306,310,965	30,242,363,633	28,751,845,045	24,923,425,687	19,986,784,824	15,542,878,239	12,602,361,847
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
70,487	4,849,524	56,869,759	279,967,127	1,319,437,493	4,851,015,485	13,007,933,896	29,448,677,081
30,127,010,858	32,306,310,965	30,242,363,633	28,751,845,045	24,923,425,687	19,986,784,824	15,542,878,239	12,602,361,847
70,487	4,849,524	56,869,759	279,967,127	1,319,437,493	4,851,015,485	13,007,933,896	29,448,677,081
70,487	4,849,524	56,869,759	279,967,127	1,319,437,493	4,851,015,485	13,007,933,896	29,448,677,081

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70,487	4,849,524	56,869,759	279,967,127	1,319,437,493	4,851,015,485	13,007,933,896	29,448,677,081
70,487	4,849,524	56,869,759	279,967,127	1,319,437,493	4,851,015,485	13,007,933,896	29,448,677,081
217,544,045,737	233,824,448,283	212,070,899,137	199,805,043,663	256,008,098,362	340,805,456,600	368,837,257,541	331,355,608,163
217,544,045,737	233,824,448,283	212,070,899,137	199,805,043,663	256,008,098,362	340,805,456,600	368,837,257,541	331,355,608,163
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
-	-	-	-	-	-	-	-
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053
29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913	19,694,106,141	15,304,516,768	12,404,615,682
232,346,639,737	251,270,448,283	228,422,899,137	214,334,126,922	266,731,468,746	348,825,958,582	378,628,131,008	349,549,790,259
29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913	19,694,106,141	15,304,516,768	12,404,615,682
29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913	19,694,106,141	15,304,516,768	12,404,615,682
29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913	19,694,106,141	15,304,516,768	12,404,615,682
29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913	19,694,106,141	15,304,516,768	12,404,615,682
29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913	19,694,106,141	15,304,516,768	12,404,615,682
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
14,802,767,243	17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565	97,456,098,126	133,318,768,931	162,869,793,963
14,802,767,243	17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565	97,456,098,126	133,318,768,931	162,869,793,963
14,802,767,243	17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565	97,456,098,126	133,318,768,931	162,869,793,963
173,243	6,423,403	67,087,305	10,673,289,113	43,784,510,565	90,724,098,126	130,100,956,931	161,259,823,570
232,346,639,737	251,270,448,283	228,422,899,137	214,334,126,922	266,731,468,746	348,825,958,582	378,628,131,008	349,549,790,259
232,346,639,737	251,270,448,283	228,422,899,137	214,334,126,922	266,731,468,746	348,825,958,582	378,628,131,008	349,549,790,259
25,413,670,298	26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
224,945,342,737	242,547,448,283	220,246,899,137	205,306,419,100	254,276,748,577	335,181,684,914	366,443,356,257	338,125,709,514
25,413,670,298	26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
25,413,670,298	26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
-	-	-	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958
-	-	-	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958
-	-	-	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
-	-	-	988,133,257	888,012,665	907,029,530	909,913,980	908,190,111
-	-	-	988,133,257	888,012,665	907,029,530	909,913,980	908,190,111
-	-	-	988,133,257	888,012,665	907,029,530	909,913,980	908,190,111
-	-	-	8,240	8,240	7,600	6,960	6,320

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-	-	-	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
224,945,342,737	242,547,448,283	220,246,899,137	205,306,419,100	254,276,748,577	335,181,684,914	366,443,356,257	338,125,709,514
224,945,342,737	242,547,448,283	220,246,899,137	205,306,419,100	254,276,748,577	335,181,684,914	366,443,356,257	338,125,709,514
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
7,401,367,487	8,727,849,524	8,232,869,759	7,602,830,119	6,805,437,493	8,217,015,485	14,616,839,896	30,253,662,277
7,401,367,487	8,727,849,524	8,232,869,759	7,602,830,119	6,805,437,493	8,217,015,485	14,616,839,896	30,253,662,277
7,401,367,487	8,727,849,524	8,232,869,759	7,602,830,119	6,805,437,493	8,217,015,485	14,616,839,896	30,253,662,277
7,401,470,243	8,729,423,403	8,243,087,305	16,291,307,274	42,301,790,395	83,811,824,458	121,133,994,180	151,445,713,218
7,401,470,243	8,729,423,403	8,243,087,305	16,291,307,274	42,301,790,395	83,811,824,458	121,133,994,180	151,445,713,218
70,487	4,849,524	56,869,759	279,967,127	1,319,437,493	4,851,015,485	13,007,933,896	29,448,677,081
7,401,367,487	8,727,849,524	8,232,869,759	7,602,830,119	6,805,437,493	8,217,015,485	14,616,839,896	30,253,662,277
7,401,367,487	8,727,849,524	8,232,869,759	7,602,830,119	6,805,437,493	8,217,015,485	14,616,839,896	30,253,662,277
1	1	1	1	1	1	1	1
11,006,911,265	13,621,756,267	14,035,901,288	14,868,721,908	14,592,347,178	12,850,122,291	11,048,680,259	9,574,114,150
249,132,502,101	267,958,766,737	244,143,569,680	225,256,162,791	261,623,012,867	320,869,087,421	332,358,380,756	291,847,282,765
249,132,502,101	267,958,766,737	244,143,569,680	225,256,162,791	261,623,012,867	320,869,087,421	332,358,380,756	291,847,282,765
31,588,456,363	34,134,318,453	32,072,670,542	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719	361,031,271,044	384,643,217,092	344,188,819,913
247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719	361,031,271,044	384,643,217,092	344,188,819,913
247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719	361,031,271,044	384,643,217,092	344,188,819,913
247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719	361,031,271,044	384,643,217,092	344,188,819,913
247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719	361,031,271,044	384,643,217,092	344,188,819,913
247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719	361,031,271,044	384,643,217,092	344,188,819,913
247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719	361,031,271,044	384,643,217,092	344,188,819,913
247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189	272,041,829,251	263,245,782,562	206,240,688,312
247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189	272,041,829,251	263,245,782,562	206,240,688,312
247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189	272,041,829,251	263,245,782,562	206,240,688,312
247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189	272,041,829,251	263,245,782,562	206,240,688,312
247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189	272,041,829,251	263,245,782,562	206,240,688,312
247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189	272,041,829,251	263,245,782,562	206,240,688,312
247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189	272,041,829,251	263,245,782,562	206,240,688,312
247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189	272,041,829,251	263,245,782,562	206,240,688,312
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957

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173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
246,924,271,661	265,477,621,308	241,771,317,138	227,816,515,519	279,781,040,216	360,890,088,582	389,746,218,217	359,490,290,906
246,924,271,661	265,477,621,308	241,771,317,138	227,816,515,519	279,781,040,216	360,890,088,582	389,746,218,217	359,490,290,906
246,924,271,661	265,477,621,308	241,771,317,138	227,816,515,519	279,781,040,216	360,890,088,582	389,746,218,217	359,490,290,906
246,924,271,661	265,477,621,308	241,771,317,138	227,816,515,519	279,781,040,216	360,890,088,582	389,746,218,217	359,490,290,906
239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416	268,383,150,568	261,398,515,091	205,237,956,950
239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416	268,383,150,568	261,398,515,091	205,237,956,950
239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416	268,383,150,568	261,398,515,091	205,237,956,950
239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416	268,383,150,568	261,398,515,091	205,237,956,950
239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416	268,383,150,568	261,398,515,091	205,237,956,950
239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416	268,383,150,568	261,398,515,091	205,237,956,950
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124
7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124
7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124
7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124
173,243	6,423,403	67,087,305	10,508,188,351	43,241,250,121	89,826,121,986	129,132,339,372	160,405,678,928
173,243	6,423,403	67,087,305	10,508,188,351	43,241,250,121	89,826,121,986	129,132,339,372	160,405,678,928
227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268	292,022,140,428	302,674,069,500	257,376,590,787
227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268	292,022,140,428	302,674,069,500	257,376,590,787
227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268	292,022,140,428	302,674,069,500	257,376,590,787
227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268	292,022,140,428	302,674,069,500	257,376,590,787
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465
10,382,246,539	11,822,572,131	11,225,392,371	14,060,296,365	23,222,916,765	39,967,096,001	54,971,165,177	63,738,264,323
10,382,246,539	11,822,572,131	11,225,392,371	14,060,296,365	23,222,916,765	39,967,096,001	54,971,165,177	63,738,264,323
10,382,246,539	11,822,572,131	11,225,392,371	14,060,296,365	23,222,916,765	39,967,096,001	54,971,165,177	63,738,264,323
227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268	292,022,140,428	302,674,069,500	257,376,590,787
227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268	292,022,140,428	302,674,069,500	257,376,590,787
173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957
30,127,010,858	32,306,310,965	30,242,363,633	28,751,845,045	24,923,425,687	19,986,784,824	15,542,878,239	12,602,361,847
29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913	19,694,106,141	15,304,516,768	12,404,615,682
25,413,670,298	26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554
31,588,456,363	34,134,318,453	32,072,670,542	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958
249,132,502,101	267,958,766,737	244,143,569,680	225,256,162,791	261,623,012,867	320,869,087,421	332,358,380,756	291,847,282,765
249,132,502,101	267,958,766,737	244,143,569,680	225,256,162,791	261,623,012,867	320,869,087,421	332,358,380,756	291,847,282,765

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7,401,367,487	8,727,849,524	8,232,869,759	7,602,830,119	6,805,437,493	8,217,015,485	14,616,839,896	30,253,662,277
173,243	6,423,403	67,087,305	10,673,289,113	43,784,510,565	90,724,098,126	130,100,956,931	161,259,823,570
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2008	2009	2010	2011	2012	2013	2014	2015
165,019,273	125,359,967	106,154,921	83,695,077	68,054,685	14,631,821	8,697,132	4,463,339
2,076,492,525	1,577,446,246	1,335,782,757	1,053,163,050	856,354,788	184,117,084	109,438,917	56,163,680
448,302,360	340,561,243	288,387,536	227,371,625	184,881,895	39,749,781	23,627,210	12,125,404
3,501,474,938	2,609,688,545	2,215,173,128	1,837,743,033	1,517,707,120	349,270,683	211,093,988	113,943,496
660,294,988	492,768,753	419,811,038	349,529,229	289,843,260	42,953,331	27,759,216	16,061,702
379,632,514	140,801,738	139,418,147	134,838,507	114,114,517	26,443,322	16,272,056	8,767,694
2,503,088,824	1,887,304,529	1,821,947,509	1,706,862,063	1,567,395,710	441,445,537	308,825,292	202,165,712
441,721,557	333,053,740	321,520,149	301,210,952	276,599,243	-	-	-
517,143,733	190,163,321	202,766,532	210,498,991	187,438,697	45,294,455	30,171,496	18,392,895
1,000,000,000	906,619,103	812,108,809	686,093,391	509,907,496	96,255,080	65,853,866	40,374,653
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323,081,000	138,530,000	98,765,000	59,000,000	49,166,667	39,333,333	29,500,000	19,666,667
-	-	-	-	-	39,645,351	33,892,095	27,683,230
-	-	-	-	-	498,870,673	426,475,524	348,347,313
-	-	-	-	-	107,703,205	92,073,524	75,206,109
-	-	-	-	-	946,359,223	822,617,963	706,718,482
-	-	-	-	-	116,383,319	108,175,654	99,620,444
-	-	-	-	-	1,323,548,520	1,187,421,358	1,056,757,024
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-	-	-	-	-	1,196,109,709	1,203,469,770	1,253,904,344
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-	-	-	-	-	1,456,915,687	1,460,097,511	1,504,322,442
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-	-	-	-	-	260,805,978	256,627,741	250,418,098
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36,025,760,031	36,447,722,658	33,434,845,734	33,279,403,975	31,701,502,328	16,902,228,312	13,801,619,299	11,091,672,395
170,353,284,183	213,202,131,593	219,993,110,337	232,200,314,007	210,454,144,636	148,915,121,713	168,253,954,539	191,427,045,218
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247,030,235	251,921,738	243,267,456	201,295,643	157,787,840	85,497,192	64,208,810	51,114,804
917,540,875	942,674,889	912,252,960	756,218,767	595,649,097	353,744,633	289,742,255	249,184,668
9,704,759,251	11,149,568,512	10,069,535,049	9,164,780,779	7,857,270,923	4,580,664,751	3,691,203,967	3,131,694,486
54,346,651,806	61,720,825,694	67,350,332,785	60,733,771,131	51,664,247,163	30,119,439,458	24,270,930,191	20,591,963,743
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18,753,993,123	31,302,457,220	42,347,519,077	64,234,161,904	91,978,431,097	85,601,145,751	108,153,276,138	132,298,696,511
37,507,986,246	62,604,914,439	105,868,797,693	160,585,404,759	229,946,077,743	214,002,864,378	270,383,190,346	330,746,741,277
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8,925,548	200,860,740	759,439,263	2,161,424,447	5,857,267,494	10,700,993,130	21,827,200,565	34,803,212,659
1	1	1	1	1	1	1	1
17,851,097	401,721,480	1,898,598,158	5,403,561,119	14,643,168,734	26,752,482,825	54,568,001,414	87,008,031,648
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4,259,610,803	11,247,242,179	21,048,382,879	39,347,516,420	65,950,097,137	69,344,676,899	97,800,254,816	133,545,996,036
8,519,221,606	22,494,484,358	52,620,957,197	98,368,791,049	164,875,242,841	173,361,692,248	244,500,637,039	333,864,990,091
5,680	4,800	4,160	4,160	4,160	1,440	1,440	1,440
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NGN Outgoing ss7 leg	**NGN Outgoing SIP leg**	**NGN Regional incoming calls**	**NGN National incoming calls**	**NGN Incoming ss7 leg**	**NGN Incoming SIP leg**	**NGN Local transit calls**	**NGN Tandem transit calls**
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2008	2009	2010	2011	2012	2013	2014	2015
1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-

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2008	2009	2010	2011	2012	2013	2014	2015
12,809,289,622	9,548,080,478	8,337,867,252	6,982,804,780	5,919,294,736	1,350,000,258	860,705,016	497,342,422
405,631,566,734	525,779,594,593	634,879,159,380	777,091,414,676	935,798,054,217	819,325,690,841	1,039,095,241,463	1,305,745,903,006
12,809,289,622	9,548,080,478	8,337,867,252	6,982,804,780	5,919,294,736	1,350,000,258	860,705,016	497,342,422
12,809,289,622	9,548,080,478	8,337,867,252	6,982,804,780	5,919,294,736	1,350,000,258	860,705,016	497,342,422
12,809,289,622	9,548,080,478	8,337,867,252	6,982,804,780	5,919,294,736	1,350,000,258	860,705,016	497,342,422
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
69,067,588,422	128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222
12,809,289,622	9,548,080,478	8,337,867,252	6,982,804,780	5,919,294,736	1,350,000,258	860,705,016	497,342,422
69,067,588,422	128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222
69,067,588,422	128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222
69,067,588,422	128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222
69,067,588,422	128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222
405,631,566,734	525,779,594,593	634,879,159,380	777,091,414,676	935,798,054,217	819,325,690,841	1,039,095,241,463	1,305,745,903,006
405,631,566,734	525,779,594,593	634,879,159,380	777,091,414,676	935,798,054,217	819,325,690,841	1,039,095,241,463	1,305,745,903,006
-	-	-	-	-	653,508,340,817	857,039,667,626	1,103,227,185,393
-	-	-	-	-	653,508,340,817	857,039,667,626	1,103,227,185,393
-	-	-	-	-	1	1	1
-	-	-	-	-	579,763,855,232	797,232,560,317	1,052,267,668,222
-	-	-	-	-	579,763,855,232	797,232,560,317	1,052,267,668,222
-	-	-	-	-	653,508,340,817	857,039,667,626	1,103,227,185,393
-	-	-	-	-	653,508,340,817	857,039,667,626	1,103,227,185,393
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393
-	-	-	-	-	-	-	-
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393
12,644,270,349	9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083
451,158,216,572	610,363,178,243	794,309,522,013	1,040,609,657,194	1,344,607,439,931	1,233,303,315,761	1,608,474,854,842	2,057,327,434,752
12,644,270,349	9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083
12,644,270,349	9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083
12,644,270,349	9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083
12,644,270,349	9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083
12,644,270,349	9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083
-	-	-	-	-	3,551,290,709	3,239,145,673	2,962,716,574
-	-	-	-	-	3,551,290,709	3,239,145,673	2,962,716,574
244,779,172,358	360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967	1,067,485,965,737	1,426,419,281,004	1,854,808,717,139

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244,779,172,358	360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967	1,067,485,965,737	1,426,419,281,004	1,854,808,717,139
244,779,172,358	360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967	1,067,485,965,737	1,426,419,281,004	1,854,808,717,139
244,133,010,358	360,436,263,992	540,684,035,942	775,011,939,212	1,102,353,459,634	1,067,407,299,070	1,426,360,281,004	1,854,769,383,806
451,158,216,572	610,363,178,243	794,309,522,013	1,040,609,657,194	1,344,607,439,931	1,233,303,315,761	1,608,474,854,842	2,057,327,434,752
451,158,216,572	610,363,178,243	794,309,522,013	1,040,609,657,194	1,344,607,439,931	1,233,303,315,761	1,608,474,854,842	2,057,327,434,752
12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
440,212,835,446	598,132,404,841	783,228,969,005	1,030,629,657,648	1,336,105,353,244	1,227,646,634,359	1,603,855,588,914	2,053,400,060,734
12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242
12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242
12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
896,776,247	330,965,059	342,184,679	345,337,498	301,553,214	71,737,777	46,443,553	27,160,589
896,776,247	330,965,059	342,184,679	345,337,498	301,553,214	71,737,777	46,443,553	27,160,589
896,776,247	330,965,059	342,184,679	345,337,498	301,553,214	71,737,777	46,443,553	27,160,589
5,680	4,800	4,160	4,160	4,160	1,440	1,440	1,440
12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
440,212,835,446	598,132,404,841	783,228,969,005	1,030,629,657,648	1,336,105,353,244	1,227,646,634,359	1,603,855,588,914	2,053,400,060,734
440,212,835,446	598,132,404,841	783,228,969,005	1,030,629,657,648	1,336,105,353,244	1,227,646,634,359	1,603,855,588,914	2,053,400,060,734
-	-	-	-	-	2,780,464,207	2,647,518,869	2,561,079,466
-	-	-	-	-	2,780,464,207	2,647,518,869	2,561,079,466
-	-	-	-	-	3,165,877,458	2,943,332,271	2,761,898,020
-	-	-	-	-	3,165,877,458	2,943,332,271	2,761,898,020
-	-	-	-	-	2,780,464,207	2,647,518,869	2,561,079,466
-	-	-	-	-	1,160	1,080	1,080
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
69,390,669,422	128,390,210,414	224,642,459,268	370,159,859,698	573,299,451,712	579,803,188,565	797,262,060,317	1,052,287,334,889
69,390,669,422	128,390,210,414	224,642,459,268	370,159,859,698	573,299,451,712	579,803,188,565	797,262,060,317	1,052,287,334,889
69,390,669,422	128,390,210,414	224,642,459,268	370,159,859,698	573,299,451,712	579,803,188,565	797,262,060,317	1,052,287,334,889
233,833,791,232	348,482,550,591	529,801,012,934	765,149,939,666	1,093,949,706,280	1,061,829,284,335	1,421,800,015,077	1,850,881,343,121
233,833,791,232	348,482,550,591	529,801,012,934	765,149,939,666	1,093,949,706,280	1,061,829,284,335	1,421,800,015,077	1,850,881,343,121
69,067,588,422	128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222
69,390,669,422	128,390,210,414	224,642,459,268	370,159,859,698	573,299,451,712	579,803,188,565	797,262,060,317	1,052,287,334,889
69,390,669,422	128,390,210,414	224,642,459,268	370,159,859,698	573,299,451,712	579,803,188,565	797,262,060,317	1,052,287,334,889
1	1	1	1	1	1	1	1
8,106,580,307	6,229,434,669	5,590,560,632	4,881,438,668	4,161,452,829	3,449,582,859	3,004,423,491	2,683,206,931
352,678,866,515	460,708,822,683	564,308,874,114	713,086,649,918	881,302,351,113	785,165,923,177	1,011,378,790,825	1,282,064,366,798
352,678,866,515	460,708,822,683	564,308,874,114	713,086,649,918	881,302,351,113	785,165,923,177	1,011,378,790,825	1,282,064,366,798
12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242
-	-	-	-	-	3,165,877,458	2,943,332,271	2,761,898,020
-	-	-	-	-	3,551,290,709	3,239,145,673	2,962,716,574
418,687,886,592	535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231
418,687,886,592	535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231

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418,687,886,592	535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231
418,687,886,592	535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231
418,687,886,592	535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231
418,687,886,592	535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231
418,687,886,592	535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231
219,188,333,836	259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035
219,188,333,836	259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035
219,188,333,836	259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035
219,188,333,836	259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035
219,188,333,836	259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035
219,188,333,836	259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035
219,188,333,836	259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035
219,188,333,836	259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196
462,073,764,772	618,440,803,898	801,325,296,463	1,046,550,853,054	1,349,696,642,867	1,233,891,189,747	1,608,678,903,502	2,057,249,231,166
462,073,764,772	618,440,803,898	801,325,296,463	1,046,550,853,054	1,349,696,642,867	1,233,891,189,747	1,608,678,903,502	2,057,249,231,166
462,073,764,772	618,440,803,898	801,325,296,463	1,046,550,853,054	1,349,696,642,867	1,233,891,189,747	1,608,678,903,502	2,057,249,231,166
462,073,764,772	618,440,803,898	801,325,296,463	1,046,550,853,054	1,349,696,642,867	1,233,891,189,747	1,608,678,903,502	2,057,249,231,166
218,535,214,289	258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691
218,535,214,289	258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691
218,535,214,289	258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691
218,535,214,289	258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691
218,535,214,289	258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691
218,535,214,289	258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,792,436,440	1,425,809,518,914	1,854,261,764,476
243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,792,436,440	1,425,809,518,914	1,854,261,764,476
243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,792,436,440	1,425,809,518,914	1,854,261,764,476
243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,792,436,440	1,425,809,518,914	1,854,261,764,476
243,215,469,483	359,493,589,103	539,771,782,983	774,255,720,445	1,101,757,810,537	1,066,753,103,107	1,425,780,018,914	1,854,242,097,809
243,215,469,483	359,493,589,103	539,771,782,983	774,255,720,445	1,101,757,810,537	1,066,753,103,107	1,425,780,018,914	1,854,242,097,809
308,644,154,872	398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697
308,644,154,872	398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697
308,644,154,872	398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697
308,644,154,872	398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613

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206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
102,265,110,658	148,526,859,706	228,867,169,556	326,028,639,865	461,929,227,547	444,582,601,879	594,003,894,593	772,434,407,084
102,265,110,658	148,526,859,706	228,867,169,556	326,028,639,865	461,929,227,547	444,582,601,879	594,003,894,593	772,434,407,084
102,265,110,658	148,526,859,706	228,867,169,556	326,028,639,865	461,929,227,547	444,582,601,879	594,003,894,593	772,434,407,084
308,644,154,872	398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697
308,644,154,872	398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196
12,809,289,622	9,548,080,478	8,337,867,252	6,982,804,780	5,919,294,736	1,350,000,258	860,705,016	497,342,422
12,644,270,349	9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083
12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242
352,678,866,515	460,708,822,683	564,308,874,114	713,086,649,918	881,302,351,113	785,165,923,177	1,011,378,790,825	1,282,064,366,798
352,678,866,515	460,708,822,683	564,308,874,114	713,086,649,918	881,302,351,113	785,165,923,177	1,011,378,790,825	1,282,064,366,798
-	-	-	-	-	653,547,674,150	857,069,167,626	1,103,246,852,059
-	-	-	-	-	1	1	1
-	-	-	-	-	299,604,010,129	378,536,466,484	463,045,437,788
-	-	-	-	-	10,700,993,130	21,827,200,565	34,803,212,659
-	-	-	-	-	310,305,003,259	400,363,667,049	497,848,650,447
-	-	-	-	-	3,551,290,709	3,239,145,673	2,962,716,574
-	-	-	-	-	3,551,290,709	3,239,145,673	2,962,716,574
-	-	-	-	-	-	-	-
-	-	-	-	-	3,551,290,709	3,239,145,673	2,962,716,574
-	-	-	-	-	2,780,464,207	2,647,518,869	2,561,079,466
-	-	-	-	-	3,165,877,458	2,943,332,271	2,761,898,020
-	-	-	-	-	3,165,877,458	2,943,332,271	2,761,898,020
-	-	-	-	-	3,165,877,458	2,943,332,271	2,761,898,020
-	-	-	-	-	3,165,877,458	2,943,332,271	2,761,898,020
-	-	-	-	-	653,547,674,150	857,069,167,626	1,103,246,852,059
69,390,669,422	128,390,210,414	224,642,459,268	370,159,859,698	573,299,451,712	579,803,188,565	797,262,060,317	1,052,287,334,889
244,133,010,358	360,436,263,992	540,684,035,942	775,011,939,212	1,102,353,459,634	1,067,407,299,070	1,426,360,281,004	1,854,769,383,806
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NGN Outgoing ss7 leg	NGN Outgoing SIP leg	NGN Regional incoming calls	NGN National incoming calls	NGN Incoming ss7 leg	NGN Incoming SIP leg	NGN Local transit calls	NGN Tandem transit calls
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

2008	2009	2010	2011	2012	2013	2014	2015
10,119,475,465	7,504,713,022	6,607,542,038	5,618,575,029	4,810,003,368	1,111,501,571	718,941,756	424,589,999
392,825,957,680	491,435,285,837	558,551,781,882	631,810,121,641	684,472,278,012	538,519,626,510	619,846,706,487	716,072,435,919
10,119,475,465	7,504,713,022	6,607,542,038	5,618,575,029	4,810,003,368	1,111,501,571	718,941,756	424,589,999
10,119,475,465	7,504,713,022	6,607,542,038	5,618,575,029	4,810,003,368	1,111,501,571	718,941,756	424,589,999
10,119,475,465	7,504,713,022	6,607,542,038	5,618,575,029	4,810,003,368	1,111,501,571	718,941,756	424,589,999
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840	299,604,010,129	378,536,466,484	463,045,437,788
10,119,475,465	7,504,713,022	6,607,542,038	5,618,575,029	4,810,003,368	1,111,501,571	718,941,756	424,589,999
56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840	299,604,010,129	378,536,466,484	463,045,437,788
56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840	299,604,010,129	378,536,466,484	463,045,437,788

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56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840	299,604,010,129	378,536,466,484	463,045,437,788
56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840	299,604,010,129	378,536,466,484	463,045,437,788
392,825,957,680	491,435,285,837	558,551,781,882	631,810,121,641	684,472,278,012	538,519,626,510	619,846,706,487	716,072,435,919
392,825,957,680	491,435,285,837	558,551,781,882	631,810,121,641	684,472,278,012	538,519,626,510	619,846,706,487	716,072,435,919
-	-	-	-	-	652,862,121,588	856,487,226,483	1,102,775,948,740
-	-	-	-	-	652,862,121,588	856,487,226,483	1,102,775,948,740
-	-	-	-	-	1	1	1
-	-	-	-	-	299,604,010,129	378,536,466,484	463,045,437,788
-	-	-	-	-	299,604,010,129	378,536,466,484	463,045,437,788
-	-	-	-	-	652,862,121,588	856,487,226,483	1,102,775,948,740
-	-	-	-	-	652,862,121,588	856,487,226,483	1,102,775,948,740
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	652,862,121,588	856,487,226,483	1,102,775,948,740
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	652,862,121,588	856,487,226,483	1,102,775,948,740
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	652,862,121,588	856,487,226,483	1,102,775,948,740
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	652,862,121,588	856,487,226,483	1,102,775,948,740
-	-	-	-	-	-	-	-
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	652,862,121,588	856,487,226,483	1,102,775,948,740
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	652,862,121,588	856,487,226,483	1,102,775,948,740
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	652,862,121,588	856,487,226,483	1,102,775,948,740
199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	652,862,121,588	856,487,226,483	1,102,775,948,740
9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683	1,096,869,750	710,244,624	420,126,660
429,815,534,816	553,122,663,649	663,462,589,160	791,556,011,991	913,763,252,151	752,383,076,356	890,157,681,414	1,046,780,945,927
9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683	1,096,869,750	710,244,624	420,126,660
9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683	1,096,869,750	710,244,624	420,126,660
9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683	1,096,869,750	710,244,624	420,126,660
9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683	1,096,869,750	710,244,624	420,126,660
9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683	1,096,869,750	710,244,624	420,126,660
-	-	-	-	-	2,905,071,479	2,686,704,530	2,511,479,922
-	-	-	-	-	2,905,071,479	2,686,704,530	2,511,479,922
244,779,172,358	360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967	1,066,839,746,507	1,425,866,839,862	1,854,357,480,487
244,779,172,358	360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967	1,066,839,746,507	1,425,866,839,862	1,854,357,480,487
244,779,172,358	360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967	1,066,839,746,507	1,425,866,839,862	1,854,357,480,487
244,133,010,358	360,436,263,992	540,684,035,942	775,011,939,212	1,102,353,459,634	1,066,761,079,841	1,425,807,839,862	1,854,318,147,153
429,815,534,816	553,122,663,649	663,462,589,160	791,556,011,991	913,763,252,151	752,383,076,356	890,157,681,414	1,046,780,945,927
429,815,534,816	553,122,663,649	663,462,589,160	791,556,011,991	913,763,252,151	752,383,076,356	890,157,681,414	1,046,780,945,927
12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
418,870,153,690	540,891,890,248	652,382,036,152	781,576,012,445	905,261,165,464	747,372,614,184	886,090,856,629	1,043,304,808,561
12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242
12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242
12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
896,776,247	330,965,059	342,184,679	345,337,498	301,553,214	71,737,777	46,443,553	27,160,589
896,776,247	330,965,059	342,184,679	345,337,498	301,553,214	71,737,777	46,443,553	27,160,589
896,776,247	330,965,059	342,184,679	345,337,498	301,553,214	71,737,777	46,443,553	27,160,589
5,680	4,800	4,160	4,160	4,160	1,440	1,440	1,440

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12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
418,870,153,690	540,891,890,248	652,382,036,152	781,576,012,445	905,261,165,464	747,372,614,184	886,090,856,629	1,043,304,808,561
418,870,153,690	540,891,890,248	652,382,036,152	781,576,012,445	905,261,165,464	747,372,614,184	886,090,856,629	1,043,304,808,561
-	-	-	-	-	2,780,464,207	2,647,518,869	2,561,079,466
-	-	-	-	-	2,780,464,207	2,647,518,869	2,561,079,466
-	-	-	-	-	2,519,658,228	2,390,891,128	2,310,661,368
-	-	-	-	-	2,519,658,228	2,390,891,128	2,310,661,368
-	-	-	-	-	2,780,464,207	2,647,518,869	2,561,079,466
-	-	-	-	-	1,160	1,080	1,080
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
56,585,060,368	94,045,901,659	148,315,081,770	224,878,566,663	321,973,675,507	299,643,343,463	378,565,966,484	463,065,104,455
56,585,060,368	94,045,901,659	148,315,081,770	224,878,566,663	321,973,675,507	299,643,343,463	378,565,966,484	463,065,104,455
56,585,060,368	94,045,901,659	148,315,081,770	224,878,566,663	321,973,675,507	299,643,343,463	378,565,966,484	463,065,104,455
233,833,791,232	348,482,550,591	529,801,012,934	765,149,939,666	1,093,949,706,280	1,061,829,284,335	1,421,800,015,077	1,850,881,343,121
233,833,791,232	348,482,550,591	529,801,012,934	765,149,939,666	1,093,949,706,280	1,061,829,284,335	1,421,800,015,077	1,850,881,343,121
56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840	299,604,010,129	378,536,466,484	463,045,437,788
56,585,060,368	94,045,901,659	148,315,081,770	224,878,566,663	321,973,675,507	299,643,343,463	378,565,966,484	463,065,104,455
56,585,060,368	94,045,901,659	148,315,081,770	224,878,566,663	321,973,675,507	299,643,343,463	378,565,966,484	463,065,104,455
1	1	1	1	1	1	1	1
8,106,580,307	6,229,434,669	5,590,560,632	4,881,438,668	4,161,452,829	3,449,582,859	3,004,423,491	2,683,206,931
339,873,257,462	426,364,513,927	487,981,496,616	567,805,356,883	629,976,574,908	505,006,078,075	592,682,696,991	692,842,136,364
339,873,257,462	426,364,513,927	487,981,496,616	567,805,356,883	629,976,574,908	505,006,078,075	592,682,696,991	692,842,136,364
12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242
-	-	-	-	-	3,165,877,458	2,943,332,271	2,761,898,020
-	-	-	-	-	2,905,071,479	2,686,704,530	2,511,479,922
403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221	539,716,625,273	620,629,857,053	716,548,140,722
403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221	539,716,625,273	620,629,857,053	716,548,140,722
403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221	539,716,625,273	620,629,857,053	716,548,140,722
403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221	539,716,625,273	620,629,857,053	716,548,140,722
403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221	539,716,625,273	620,629,857,053	716,548,140,722
403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221	539,716,625,273	620,629,857,053	716,548,140,722
403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221	539,716,625,273	620,629,857,053	716,548,140,722
216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332	166,928,851,596	182,774,515,594	202,943,307,612
216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332	166,928,851,596	182,774,515,594	202,943,307,612
216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332	166,928,851,596	182,774,515,594	202,943,307,612
216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332	166,928,851,596	182,774,515,594	202,943,307,612
216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332	166,928,851,596	182,774,515,594	202,943,307,612
216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332	166,928,851,596	182,774,515,594	202,943,307,612
216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332	166,928,851,596	182,774,515,594	202,943,307,612
216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332	166,928,851,596	182,774,515,594	202,943,307,612
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	652,947,618,780	856,551,435,293	1,102,827,063,544
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	652,947,618,780	856,551,435,293	1,102,827,063,544

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199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	652,947,618,780	856,551,435,293	1,102,827,063,544
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	652,947,618,780	856,551,435,293	1,102,827,063,544
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	652,947,618,780	856,551,435,293	1,102,827,063,544
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	652,947,618,780	856,551,435,293	1,102,827,063,544
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	652,947,618,780	856,551,435,293	1,102,827,063,544
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	652,947,618,780	856,551,435,293	1,102,827,063,544
438,206,288,132	559,282,281,816	668,854,193,317	796,216,673,176	917,811,218,403	752,786,728,828	890,262,556,041	1,046,662,136,488
438,206,288,132	559,282,281,816	668,854,193,317	796,216,673,176	917,811,218,403	752,786,728,828	890,262,556,041	1,046,662,136,488
438,206,288,132	559,282,281,816	668,854,193,317	796,216,673,176	917,811,218,403	752,786,728,828	890,262,556,041	1,046,662,136,488
438,206,288,132	559,282,281,816	668,854,193,317	796,216,673,176	917,811,218,403	752,786,728,828	890,262,556,041	1,046,662,136,488
216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981	166,874,886,441	182,736,318,461	202,919,177,607
216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981	166,874,886,441	182,736,318,461	202,919,177,607
216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981	166,874,886,441	182,736,318,461	202,919,177,607
216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981	166,874,886,441	182,736,318,461	202,919,177,607
216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981	166,874,886,441	182,736,318,461	202,919,177,607
216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981	166,874,886,441	182,736,318,461	202,919,177,607
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,185,862,562	1,425,290,969,866	1,853,838,211,054
243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,185,862,562	1,425,290,969,866	1,853,838,211,054
243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,185,862,562	1,425,290,969,866	1,853,838,211,054
243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,185,862,562	1,425,290,969,866	1,853,838,211,054
243,215,469,483	359,493,589,103	539,771,782,983	774,255,720,445	1,101,757,810,537	1,066,146,529,229	1,425,261,469,866	1,853,818,544,387
243,215,469,483	359,493,589,103	539,771,782,983	774,255,720,445	1,101,757,810,537	1,066,146,529,229	1,425,261,469,866	1,853,818,544,387
300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935	410,285,776,830	476,990,829,978	554,080,102,958
300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935	410,285,776,830	476,990,829,978	554,080,102,958
300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935	410,285,776,830	476,990,829,978	554,080,102,958
300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935	410,285,776,830	476,990,829,978	554,080,102,958
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613
93,728,037,956	125,630,653,868	174,347,614,200	222,256,287,697	282,410,815,971	244,468,426,806	294,935,256,141	351,561,385,345
93,728,037,956	125,630,653,868	174,347,614,200	222,256,287,697	282,410,815,971	244,468,426,806	294,935,256,141	351,561,385,345
93,728,037,956	125,630,653,868	174,347,614,200	222,256,287,697	282,410,815,971	244,468,426,806	294,935,256,141	351,561,385,345
300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935	410,285,776,830	476,990,829,978	554,080,102,958
300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935	410,285,776,830	476,990,829,978	554,080,102,958
199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	652,947,618,780	856,551,435,293	1,102,827,063,544
10,119,475,465	7,504,713,022	6,607,542,038	5,618,575,029	4,810,003,368	1,111,501,571	718,941,756	424,589,999
9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683	1,096,869,750	710,244,624	420,126,660
12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753
12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242
339,873,257,462	426,364,513,927	487,981,496,616	567,805,356,883	629,976,574,908	505,006,078,075	592,682,696,991	692,842,136,364
339,873,257,462	426,364,513,927	487,981,496,616	567,805,356,883	629,976,574,908	505,006,078,075	592,682,696,991	692,842,136,364

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-	-	-	-	-	410,155,752,440	514,186,334,629	635,364,962,613
-	-	-	-	-	1	1	1
-	-	-	-	-	299,604,010,129	378,536,466,484	463,045,437,788
-	-	-	-	-	10,700,993,130	21,827,200,565	34,803,212,659
-	-	-	-	-	310,305,003,259	400,363,667,049	497,848,650,447
-	-	-	-	-	2,905,071,479	2,686,704,530	2,511,479,922
-	-	-	-	-	2,905,071,479	2,686,704,530	2,511,479,922
-	-	-	-	-	-	-	-
-	-	-	-	-	2,905,071,479	2,686,704,530	2,511,479,922
-	-	-	-	-	2,780,464,207	2,647,518,869	2,561,079,466
-	-	-	-	-	2,519,658,228	2,390,891,128	2,310,661,368
-	-	-	-	-	2,519,658,228	2,390,891,128	2,310,661,368
-	-	-	-	-	2,519,658,228	2,390,891,128	2,310,661,368
-	-	-	-	-	2,519,658,228	2,390,891,128	2,310,661,368
-	-	-	-	-	410,155,752,440	514,186,334,629	635,364,962,613
56,585,060,368	94,045,901,659	148,315,081,770	224,878,566,663	321,973,675,507	299,643,343,463	378,565,966,484	463,065,104,455
244,133,010,358	360,436,263,992	540,684,035,942	775,011,939,212	1,102,353,459,634	1,066,761,079,841	1,425,807,839,862	1,854,318,147,153
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2016	2017	2018	2019	2020	2021	2022	2023
1,954,838	-	-	-	-	-	-	-
24,598,375	-	-	-	-	-	-	-
5,310,643	-	-	-	-	-	-	-
50,454,956	-	-	-	-	-	-	-
7,578,927	-	-	-	-	-	-	-
3,898,548	-	-	-	-	-	-	-
99,773,077	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
8,553,765	-	-	-	-	-	-	-
20,483,053	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
24,649,879	20,800,620	16,938,373	14,101,869	11,578,527	9,609,840	8,091,644	6,921,736
310,177,648	261,741,131	213,141,199	177,448,519	145,696,461	120,923,814	101,819,854	87,098,514
66,965,506	56,508,350	46,015,914	38,310,078	31,454,997	26,106,731	21,982,300	18,804,050
636,220,873	543,228,418	463,268,031	404,763,775	352,981,703	310,733,873	277,091,418	250,659,333
95,567,846	86,630,395	74,879,636	65,387,305	57,192,305	50,549,263	45,306,090	41,235,958
990,073,466	848,518,752	755,016,864	681,215,707	618,752,344	570,678,353	535,846,088	512,184,897
-	-	-	-	-	-	-	-
1,258,106,616	1,220,554,787	1,067,292,852	923,751,394	795,925,523	684,382,151	590,263,695	512,981,017
-	-	-	-	-	-	-	-
1,516,391,363	1,439,214,727	1,284,162,049	1,134,816,021	1,004,503,859	893,777,368	803,712,274	733,270,623
-	-	-	-	-	-	-	-
258,284,747	218,659,939	216,869,197	211,064,627	208,578,336	209,395,217	213,448,579	220,289,606
-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
41,236,294	41,268,711	35,678,567	35,178,998	34,603,167	34,152,192	33,843,420	33,675,367
215,975,092	231,620,641	213,179,435	210,194,513	206,753,920	204,059,347	202,214,432	201,210,317
2,682,347,320	2,845,846,095	2,595,233,446	2,558,895,190	2,517,009,616	2,484,206,050	2,461,746,162	2,449,522,136
17,637,352,241	18,712,412,677	17,064,548,689	16,825,612,208	16,550,200,214	16,334,505,534	16,186,824,076	16,106,446,925
-	-	1,470	1,470	1,470	1,470	1,470	1,470
155,463,155,214	172,120,229,933	178,283,491,603	175,961,925,431	168,076,131,182	153,009,288,538	133,186,676,173	111,133,155,961
388,657,888,034	430,300,574,831	445,708,729,008	439,904,813,578	420,190,327,955	382,523,221,345	332,966,690,432	277,832,889,903
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

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55,090,509,893	88,326,870,922	134,146,736,365	193,026,786,137	262,771,182,576	341,823,399,962	426,139,689,846	510,911,343,228
1	1	1	1	1	1	1	1
137,726,274,732	220,817,177,306	335,366,840,913	482,566,965,342	656,927,956,439	854,558,499,906	1,065,349,224,615	1,277,278,358,069
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
174,232,421,930	212,633,889,022	249,936,815,836	286,596,956,464	317,566,380,945	340,908,682,786	356,670,331,784	365,797,425,641
435,581,054,826	531,584,722,555	624,842,039,590	716,492,391,159	793,915,952,363	852,271,706,965	891,675,829,459	914,493,564,103
-	-	-	-	-	-	-	-
1,040	960	880	760	720	640	600	560
-	-	-	-	-	-	-	-
-	1	1	1	1	1	1	1

spare	Low capacity digital leased lines (<=8 Mbps)	High capacity digital leased lines (>8 Mbps)	Fibre (dark or wavelength)	Data services (sublocal VPN, contended)	Data services (local VPN, contended)	Data services (regional VPN, contended)	Data services (national VPN, contended)
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

2016	2017	2018	2019	2020	2021	2022	2023
100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%
-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%
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-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%
-%	-%	-%	-%	-%	-%	-%	-%
100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%

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100%	100%	100%	100%	100%	100%	100%	100%
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2016	2017	2018	2019	2020	2021	2022	2023
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2016	2017	2018	2019	2020	2021	2022	2023
221,534,672	-	-	-	-	-	-	-
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
221,534,672	-	-	-	-	-	-	-
221,534,672	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1	1	1	1	1	1	1	1
1,346,751,304,629	1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376
1,346,751,304,629	1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
-	-	-	-	-	-	-	-
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
219,579,834	-	-	-	-	-	-	-
2,352,599,012,706	2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200
219,579,834	-	-	-	-	-	-	-
219,579,834	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
2,793,481,402	2,528,513,801	2,157,631,492	1,853,623,405	1,583,559,500	1,358,946,055	1,176,448,799	1,030,524,910
2,793,481,402	2,528,513,801	2,157,631,492	1,853,623,405	1,583,559,500	1,358,946,055	1,176,448,799	1,030,524,910
2,352,599,012,706	2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200

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2,352,599,012,706	2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200
2,352,599,012,706	2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200
2,352,599,012,706	2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200
2,352,599,012,706	2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200
2,352,599,012,706	2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200
221,088,601	-	-	-	-	-	-	-
2,349,203,145,866	2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551	5,050,870,796,662	5,531,919,332,876	5,962,684,783,848
221,088,601	-	-	-	-	-	-	-
221,088,601	-	-	-	-	-	-	-
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2,349,203,145,866	2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551	5,050,870,796,662	5,531,919,332,876	5,962,684,783,848
2,349,203,145,866	2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551	5,050,870,796,662	5,531,919,332,876	5,962,684,783,848
2,506,464,829	2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203	1,464,455,721	1,339,558,362	1,245,455,520
2,506,464,829	2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203	1,464,455,721	1,339,558,362	1,245,455,520
2,649,973,116	2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215
2,649,973,116	2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215
2,506,464,829	2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203	1,464,455,721	1,339,558,362	1,245,455,520
1,040	960	880	760	720	640	600	560
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1,346,751,304,629	1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376
1,346,751,304,629	1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376
1,346,751,304,629	1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376
2,349,203,145,866	2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551	5,050,870,796,662	5,531,919,332,876	5,962,684,783,848
2,349,203,145,866	2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551	5,050,870,796,662	5,531,919,332,876	5,962,684,783,848
1,346,751,304,629	1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376
1,346,751,304,629	1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376
1,346,751,304,629	1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376
1	1	1	1	1	1	1	1
2,426,470,096	2,069,073,539	1,822,309,716	1,604,967,101	1,414,677,867	1,255,060,504	1,126,109,783	1,025,165,914
1,370,200,794,877	1,680,022,736,334	1,990,291,700,127	2,316,014,548,057	2,640,359,907,699	2,945,563,424,985	3,226,131,075,449	3,477,375,583,337
1,370,200,794,877	1,680,022,736,334	1,990,291,700,127	2,316,014,548,057	2,640,359,907,699	2,945,563,424,985	3,226,131,075,449	3,477,375,583,337
222,606,183	-	-	-	-	-	-	-
2,649,973,116	2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215
2,793,481,402	2,528,513,801	2,157,631,492	1,853,623,405	1,583,559,500	1,358,946,055	1,176,448,799	1,030,524,910
1,390,920,142,599	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,920,142,599	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776

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1,390,920,142,599	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,920,142,599	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,920,142,599	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,920,142,599	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,920,142,599	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
221,534,672	-	-	-	-	-	-	-
221,534,672	-	-	-	-	-	-	-
221,534,672	-	-	-	-	-	-	-
221,534,672	-	-	-	-	-	-	-
221,534,672	-	-	-	-	-	-	-
221,534,672	-	-	-	-	-	-	-
221,534,672	-	-	-	-	-	-	-
221,534,672	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1,390,698,607,927	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,698,607,927	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,698,607,927	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,698,607,927	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,698,607,927	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,698,607,927	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,698,607,927	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
1,390,698,607,927	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
2,352,317,727,984	2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540
2,352,317,727,984	2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540
2,352,317,727,984	2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540
2,352,317,727,984	2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540
217,624,996	-	-	-	-	-	-	-
217,624,996	-	-	-	-	-	-	-
217,624,996	-	-	-	-	-	-	-
217,624,996	-	-	-	-	-	-	-
217,624,996	-	-	-	-	-	-	-
217,624,996	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
2,352,100,102,987	2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540
2,352,100,102,987	2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540
2,352,100,102,987	2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540
2,352,100,102,987	2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540
2,352,100,102,987	2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540
2,352,100,102,987	2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540
979,777,992,755	1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008
979,777,992,755	1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008
979,777,992,755	1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008
979,777,992,755	1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008
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979,777,992,755	1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008
979,777,992,755	1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008
979,777,992,755	1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008
979,777,992,755	1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008
979,777,992,755	1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008
1,390,698,607,927	1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776
221,534,672	-	-	-	-	-	-	-
219,579,834	-	-	-	-	-	-	-
221,088,601	-	-	-	-	-	-	-
222,606,183	-	-	-	-	-	-	-
1,370,200,794,877	1,680,022,736,334	1,990,291,700,127	2,316,014,548,057	2,640,359,907,699	2,945,563,424,985	3,226,131,075,449	3,477,375,583,337
1,370,200,794,877	1,680,022,736,334	1,990,291,700,127	2,316,014,548,057	2,640,359,907,699	2,945,563,424,985	3,226,131,075,449	3,477,375,583,337
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1	1	1	1	1	1	1	1
544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607	535,532,511,353	466,153,368,075	388,966,047,334
55,090,509,893	88,326,870,922	134,146,736,365	193,026,786,137	262,771,182,576	341,823,399,962	426,139,689,846	510,911,343,228
599,211,553,141	690,747,675,686	758,138,958,447	808,893,526,616	851,037,643,183	877,355,911,316	892,293,057,921	899,877,390,562
2,793,481,402	2,528,513,801	2,157,631,492	1,853,623,405	1,583,559,500	1,358,946,055	1,176,448,799	1,030,524,910
2,793,481,402	2,528,513,801	2,157,631,492	1,853,623,405	1,583,559,500	1,358,946,055	1,176,448,799	1,030,524,910
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2,793,481,402	2,528,513,801	2,157,631,492	1,853,623,405	1,583,559,500	1,358,946,055	1,176,448,799	1,030,524,910
2,506,464,829	2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203	1,464,455,721	1,339,558,362	1,245,455,520
2,649,973,116	2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215
2,649,973,116	2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215
2,649,973,116	2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215
2,649,973,116	2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215
1,390,657,371,633	1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409
1,346,751,304,629	1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376
2,352,599,012,706	2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200
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spare	Low capacity digital leased lines (<=8 Mbps)	High capacity digital leased lines (>8 Mbps)	Fibre (dark or wavelength)	Data services (sublocal VPN, contended)	Data services (local VPN, contended)	Data services (regional VPN, contended)	Data services (national VPN, contended)
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

2016	2017	2018	2019	2020	2021	2022	2023
189,670,816	-	-	-	-	-	-	-
587,625,317,219	648,231,296,001	665,655,359,795	656,715,086,238	628,243,820,788	574,814,511,079	504,933,335,834	427,431,782,067
189,670,816	-	-	-	-	-	-	-
189,670,816	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
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587,625,317,219	648,231,296,001	665,655,359,795	656,715,086,238	628,243,820,788	574,814,511,079	504,933,335,834	427,431,782,067
587,625,317,219	648,231,296,001	665,655,359,795	656,715,086,238	628,243,820,788	574,814,511,079	504,933,335,834	427,431,782,067
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
1	1	1	1	1	1	1	1
544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607	535,532,511,353	466,153,368,075	388,966,047,334
544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607	535,532,511,353	466,153,368,075	388,966,047,334
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
-	-	-	-	-	-	-	-
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111	2,964,376,800,699	3,244,768,411,538	3,495,912,473,109
187,715,979	-	-	-	-	-	-	-
976,259,628,734	1,078,456,840,800	1,111,315,160,155	1,096,571,487,592	1,048,389,789,996	957,299,304,793	837,869,323,880	705,243,152,685
187,715,979	-	-	-	-	-	-	-
187,715,979	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
2,391,688,369	2,189,463,701	1,881,536,005	1,623,762,939	1,394,829,515	1,202,305,671	1,044,555,001	917,700,609
2,391,688,369	2,189,463,701	1,881,536,005	1,623,762,939	1,394,829,515	1,202,305,671	1,044,555,001	917,700,609
2,352,197,219,673	2,884,221,400,466	3,415,816,473,363	3,974,313,943,195	4,530,415,171,121	5,053,691,801,283	5,534,729,453,658	5,965,495,765,899
2,352,197,219,673	2,884,221,400,466	3,415,816,473,363	3,974,313,943,195	4,530,415,171,121	5,053,691,801,283	5,534,729,453,658	5,965,495,765,899
2,352,197,219,673	2,884,221,400,466	3,415,816,473,363	3,974,313,943,195	4,530,415,171,121	5,053,691,801,283	5,534,729,453,658	5,965,495,765,899
2,352,197,219,673	2,884,221,400,466	3,415,816,473,363	3,974,313,943,195	4,530,415,171,121	5,053,691,801,283	5,534,729,453,658	5,965,495,765,899
976,259,628,734	1,078,456,840,800	1,111,315,160,155	1,096,571,487,592	1,048,389,789,996	957,299,304,793	837,869,323,880	705,243,152,685
976,259,628,734	1,078,456,840,800	1,111,315,160,155	1,096,571,487,592	1,048,389,789,996	957,299,304,793	837,869,323,880	705,243,152,685
221,088,601	-	-	-	-	-	-	-
973,265,554,927	1,075,303,852,870	1,108,410,773,626	1,093,695,030,645	1,045,546,095,426	954,478,300,172	835,059,203,098	702,432,170,634
221,088,601	-	-	-	-	-	-	-
221,088,601	-	-	-	-	-	-	-
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973,265,554,927	1,075,303,852,870	1,108,410,773,626	1,093,695,030,645	1,045,546,095,426	954,478,300,172	835,059,203,098	702,432,170,634
973,265,554,927	1,075,303,852,870	1,108,410,773,626	1,093,695,030,645	1,045,546,095,426	954,478,300,172	835,059,203,098	702,432,170,634
2,506,464,829	2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203	1,464,455,721	1,339,558,362	1,245,455,520
2,506,464,829	2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203	1,464,455,721	1,339,558,362	1,245,455,520
2,248,180,083	2,069,073,539	1,822,309,716	1,604,967,101	1,414,677,867	1,255,060,504	1,126,109,783	1,025,165,914
2,248,180,083	2,069,073,539	1,822,309,716	1,604,967,101	1,414,677,867	1,255,060,504	1,126,109,783	1,025,165,914
2,506,464,829	2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203	1,464,455,721	1,339,558,362	1,245,455,520
1,040	960	880	760	720	640	600	560
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544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607	535,532,511,353	466,153,368,075	388,966,047,334
544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607	535,532,511,353	466,153,368,075	388,966,047,334
544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607	535,532,511,353	466,153,368,075	388,966,047,334
2,349,203,145,866	2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551	5,050,870,796,662	5,531,919,332,876	5,962,684,783,848
2,349,203,145,866	2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551	5,050,870,796,662	5,531,919,332,876	5,962,684,783,848
544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607	535,532,511,353	466,153,368,075	388,966,047,334
544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607	535,532,511,353	466,153,368,075	388,966,047,334
544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607	535,532,511,353	466,153,368,075	388,966,047,334
1	1	1	1	1	1	1	1
2,426,470,096	2,069,073,539	1,822,309,716	1,604,967,101	1,414,677,867	1,255,060,504	1,126,109,783	1,025,165,914
567,570,533,496	626,660,076,528	645,999,267,423	637,331,448,956	609,178,435,376	556,001,135,366	486,295,999,745	408,894,892,295
567,570,533,496	626,660,076,528	645,999,267,423	637,331,448,956	609,178,435,376	556,001,135,366	486,295,999,745	408,894,892,295
222,606,183	-	-	-	-	-	-	-
2,649,973,116	2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215
2,391,688,369	2,189,463,701	1,881,536,005	1,623,762,939	1,394,829,515	1,202,305,671	1,044,555,001	917,700,609
587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955	574,848,663,271	504,967,179,254	427,465,457,434
587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955	574,848,663,271	504,967,179,254	427,465,457,434
587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955	574,848,663,271	504,967,179,254	427,465,457,434
587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955	574,848,663,271	504,967,179,254	427,465,457,434
587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955	574,848,663,271	504,967,179,254	427,465,457,434
587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955	574,848,663,271	504,967,179,254	427,465,457,434
587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955	574,848,663,271	504,967,179,254	427,465,457,434
189,670,816	-	-	-	-	-	-	-
189,670,816	-	-	-	-	-	-	-
189,670,816	-	-	-	-	-	-	-
189,670,816	-	-	-	-	-	-	-
189,670,816	-	-	-	-	-	-	-
189,670,816	-	-	-	-	-	-	-
189,670,816	-	-	-	-	-	-	-
189,670,816	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278	2,964,410,952,891	3,244,802,254,958	3,495,946,148,476
1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278	2,964,410,952,891	3,244,802,254,958	3,495,946,148,476

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1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278	2,964,410,952,891	3,244,802,254,958	3,495,946,148,476
1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278	2,964,410,952,891	3,244,802,254,958	3,495,946,148,476
1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278	2,964,410,952,891	3,244,802,254,958	3,495,946,148,476
1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278	2,964,410,952,891	3,244,802,254,958	3,495,946,148,476
1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278	2,964,410,952,891	3,244,802,254,958	3,495,946,148,476
1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278	2,964,410,952,891	3,244,802,254,958	3,495,946,148,476
975,973,084,873	1,078,006,560,220	1,110,885,111,523	1,096,150,228,452	1,047,974,457,740	956,885,850,228	837,453,660,869	704,821,652,762
975,973,084,873	1,078,006,560,220	1,110,885,111,523	1,096,150,228,452	1,047,974,457,740	956,885,850,228	837,453,660,869	704,821,652,762
975,973,084,873	1,078,006,560,220	1,110,885,111,523	1,096,150,228,452	1,047,974,457,740	956,885,850,228	837,453,660,869	704,821,652,762
975,973,084,873	1,078,006,560,220	1,110,885,111,523	1,096,150,228,452	1,047,974,457,740	956,885,850,228	837,453,660,869	704,821,652,762
187,715,979	-	-	-	-	-	-	-
187,715,979	-	-	-	-	-	-	-
187,715,979	-	-	-	-	-	-	-
187,715,979	-	-	-	-	-	-	-
187,715,979	-	-	-	-	-	-	-
187,715,979	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865	5,053,278,346,719	5,534,313,790,648	5,965,074,265,976
2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865	5,053,278,346,719	5,534,313,790,648	5,965,074,265,976
2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865	5,053,278,346,719	5,534,313,790,648	5,965,074,265,976
2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865	5,053,278,346,719	5,534,313,790,648	5,965,074,265,976
2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865	5,053,278,346,719	5,534,313,790,648	5,965,074,265,976
2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865	5,053,278,346,719	5,534,313,790,648	5,965,074,265,976
406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471	398,934,382,873	349,220,802,898	293,999,376,836
406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471	398,934,382,873	349,220,802,898	293,999,376,836
406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471	398,934,382,873	349,220,802,898	293,999,376,836
406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471	398,934,382,873	349,220,802,898	293,999,376,836
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-	-	-	-	-	-	-	-
406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471	398,934,382,873	349,220,802,898	293,999,376,836
406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471	398,934,382,873	349,220,802,898	293,999,376,836
406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471	398,934,382,873	349,220,802,898	293,999,376,836
406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471	398,934,382,873	349,220,802,898	293,999,376,836
406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471	398,934,382,873	349,220,802,898	293,999,376,836
1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278	2,964,410,952,891	3,244,802,254,958	3,495,946,148,476
189,670,816	-	-	-	-	-	-	-
187,715,979	-	-	-	-	-	-	-
221,088,601	-	-	-	-	-	-	-
222,606,183	-	-	-	-	-	-	-
567,570,533,496	626,660,076,528	645,999,267,423	637,331,448,956	609,178,435,376	556,001,135,366	486,295,999,745	408,894,892,295
567,570,533,496	626,660,076,528	645,999,267,423	637,331,448,956	609,178,435,376	556,001,135,366	486,295,999,745	408,894,892,295

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780,442,101,843	957,375,344,228	1,135,168,937,074	1,332,308,837,717	1,547,942,959,803	1,771,196,410,948	1,996,422,250,295	2,215,621,483,364
1	1	1	1	1	1	1	1
544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607	535,532,511,353	466,153,368,075	388,966,047,334
55,090,509,893	88,326,870,922	134,146,736,365	193,026,786,137	262,771,182,576	341,823,399,962	426,139,689,846	510,911,343,228
599,211,553,141	690,747,675,686	758,138,958,447	808,893,526,616	851,037,643,183	877,355,911,316	892,293,057,921	899,877,390,562
2,391,688,369	2,189,463,701	1,881,536,005	1,623,762,939	1,394,829,515	1,202,305,671	1,044,555,001	917,700,609
2,391,688,369	2,189,463,701	1,881,536,005	1,623,762,939	1,394,829,515	1,202,305,671	1,044,555,001	917,700,609
-	-	-	-	-	-	-	-
2,391,688,369	2,189,463,701	1,881,536,005	1,623,762,939	1,394,829,515	1,202,305,671	1,044,555,001	917,700,609
2,506,464,829	2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203	1,464,455,721	1,339,558,362	1,245,455,520
2,248,180,083	2,069,073,539	1,822,309,716	1,604,967,101	1,414,677,867	1,255,060,504	1,126,109,783	1,025,165,914

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2024	2025	2026	2027	2028	2029	2030	2031
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6,010,842	5,288,788	4,705,666	4,228,911	3,838,099	3,519,653	3,262,999	3,058,598
75,636,433	66,550,584	59,212,968	53,213,801	48,296,079	44,288,961	41,059,402	38,487,354
16,329,455	14,367,874	12,783,727	11,488,543	10,426,836	9,561,723	8,864,480	8,309,190
229,889,127	213,342,568	199,860,844	188,623,863	179,114,778	171,030,033	164,181,479	158,423,462
38,087,106	35,623,746	33,652,537	32,032,931	30,673,368	29,518,718	28,535,569	27,700,440
497,065,928	487,730,370	481,706,258	477,115,299	472,782,860	468,154,393	463,105,921	457,738,730
-	-	-	-	-	-	-	-
450,776,409	401,350,974	362,370,066	331,750,450	307,761,598	289,010,088	274,374,999	262,947,865
-	-	-	-	-	-	-	-
679,866,104	640,115,029	610,562,943	588,208,954	570,756,313	556,615,731	544,763,872	534,562,694
-	-	-	-	-	-	-	-
229,089,695	238,764,055	248,192,876	256,458,505	262,994,714	267,605,642	270,388,874	271,614,829
-	-	-	-	-	-	-	-
1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	-
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33,628,909	33,681,198	33,809,778	33,993,120	34,212,365	34,453,316	34,706,634	34,964,502
200,932,734	201,245,159	202,013,422	203,108,889	204,418,880	205,858,561	207,372,138	208,912,896
2,446,142,849	2,449,946,301	2,459,299,078	2,472,635,234	2,488,582,980	2,506,109,570	2,524,535,766	2,543,292,865
16,084,226,951	16,109,235,954	16,170,733,665	16,258,423,455	16,363,285,348	16,478,528,680	16,599,687,229	16,723,021,575
1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470
89,064,315,134	68,640,106,693	50,897,301,783	36,310,516,622	24,912,776,925	16,430,106,673	10,410,178,151	6,334,173,565
222,660,787,834	171,600,266,732	127,243,254,457	90,776,291,555	62,281,942,313	41,075,266,681	26,025,445,378	15,835,433,913
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591,534,616,584	664,412,032,361	727,362,385,981	779,658,780,153	821,788,800,092	855,047,538,590	881,049,213,256	901,438,886,454
1	1	1	1	1	1	1	1
1,478,836,541,459	1,661,030,080,903	1,818,405,964,951	1,949,146,950,382	2,054,472,000,229	2,137,618,846,475	2,202,623,033,141	2,253,597,216,136
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369,818,113,638	370,429,972,537	369,157,187,444	367,178,200,746	365,298,156,258	363,993,766,625	363,463,365,934	363,732,563,602
924,545,284,095	926,074,931,342	922,892,968,610	917,945,501,865	913,245,390,645	909,984,416,564	908,658,414,835	909,331,409,006
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520	520	480	480	480	480	480	440
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1	1	1	1	1	1	1	1

Bitstream (direct, contended)	xDSL (direct, contended)	xDSL (indirect, contended)	VoD (direct, contended)	VoD (indirect, contended)	Fibre traffic (direct, contended)	Subscribers	Fibre traffic (indirect, contended)
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2024	2025	2026	2027	2028	2029	2030	2031
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2024	2025	2026	2027	2028	2029	2030	2031
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3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
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3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
1	1	1	1	1	1	1	1
3,676,459,660,213	3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146
3,676,459,660,213	3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
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3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
-	-	-	-	-	-	-	-
6,340,901,729,421	6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788
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914,706,103	822,731,782	749,288,170	690,269,754	642,671,772	604,299,512	573,465,808	548,782,050
914,706,103	822,731,782	749,288,170	690,269,754	642,671,772	604,299,512	573,465,808	548,782,050
6,340,901,729,421	6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788

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6,340,901,729,421	6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788
6,340,901,729,421	6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788
6,340,901,729,421	6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788
6,340,901,729,421	6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788
6,340,901,729,421	6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788
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6,337,982,003,974	6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188	7,448,874,128,221	7,565,814,870,250	7,665,554,955,687
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6,337,982,003,974	6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188	7,448,874,128,221	7,565,814,870,250	7,665,554,955,687
6,337,982,003,974	6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188	7,448,874,128,221	7,565,814,870,250	7,665,554,955,687
1,176,932,032	1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173	1,024,770,124	1,007,869,794	992,301,424
1,176,932,032	1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173	1,024,770,124	1,007,869,794	992,301,424
1,045,819,067	975,288,590	920,778,685	877,797,004	843,105,473	814,534,818	790,667,801	770,541,737
1,045,819,067	975,288,590	920,778,685	877,797,004	843,105,473	814,534,818	790,667,801	770,541,737
1,176,932,032	1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173	1,024,770,124	1,007,869,794	992,301,424
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3,676,459,660,213	3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146
3,676,459,660,213	3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146
3,676,459,660,213	3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146
6,337,982,003,974	6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188	7,448,874,128,221	7,565,814,870,250	7,665,554,955,687
6,337,982,003,974	6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188	7,448,874,128,221	7,565,814,870,250	7,665,554,955,687
3,676,459,660,213	3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146
3,676,459,660,213	3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146
3,676,459,660,213	3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146
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947,842,337	889,081,344	844,076,324	808,865,749	780,544,459	757,164,481	737,480,920	720,686,595
3,696,270,410,725	3,881,956,789,243	4,035,745,699,325	4,160,862,200,496	4,261,932,672,979	4,344,189,428,023	4,412,386,621,734	4,470,550,417,722
3,696,270,410,725	3,881,956,789,243	4,035,745,699,325	4,160,862,200,496	4,261,932,672,979	4,344,189,428,023	4,412,386,621,734	4,470,550,417,722
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1,045,819,067	975,288,590	920,778,685	877,797,004	843,105,473	814,534,818	790,667,801	770,541,737
914,706,103	822,731,782	749,288,170	690,269,754	642,671,772	604,299,512	573,465,808	548,782,050
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872

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3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
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3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
6,340,465,696,149	6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466
6,340,465,696,149	6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466
6,340,465,696,149	6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466
6,340,465,696,149	6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466
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6,340,465,696,149	6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466
6,340,465,696,149	6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466
6,340,465,696,149	6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466
6,340,465,696,149	6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466
6,340,465,696,149	6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466
6,340,465,696,149	6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466
2,642,181,256,901	2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260
2,642,181,256,901	2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260
2,642,181,256,901	2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260
2,642,181,256,901	2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260
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2,642,181,256,901	2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260
2,642,181,256,901	2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260
2,642,181,256,901	2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260
2,642,181,256,901	2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260
2,642,181,256,901	2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260
3,714,904,229,202	3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872
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3,696,270,410,725	3,881,956,789,243	4,035,745,699,325	4,160,862,200,496	4,261,932,672,979	4,344,189,428,023	4,412,386,621,734	4,470,550,417,722
3,696,270,410,725	3,881,956,789,243	4,035,745,699,325	4,160,862,200,496	4,261,932,672,979	4,344,189,428,023	4,412,386,621,734	4,470,550,417,722
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
1	1	1	1	1	1	1	1
311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709	57,505,374,824	36,435,625,000	22,169,608,948
591,534,616,584	664,412,032,361	727,362,385,981	779,658,780,153	821,788,800,092	855,047,538,590	881,049,213,256	901,438,886,454
903,259,721,022	904,652,407,256	905,502,943,691	906,745,589,800	908,983,520,800	912,552,913,414	917,484,838,256	923,608,495,402
914,706,103	822,731,782	749,288,170	690,269,754	642,671,772	604,299,512	573,465,808	548,782,050
914,706,103	822,731,782	749,288,170	690,269,754	642,671,772	604,299,512	573,465,808	548,782,050
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914,706,103	822,731,782	749,288,170	690,269,754	642,671,772	604,299,512	573,465,808	548,782,050
1,176,932,032	1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173	1,024,770,124	1,007,869,794	992,301,424
1,045,819,067	975,288,590	920,778,685	877,797,004	843,105,473	814,534,818	790,667,801	770,541,737
1,045,819,067	975,288,590	920,778,685	877,797,004	843,105,473	814,534,818	790,667,801	770,541,737
1,045,819,067	975,288,590	920,778,685	877,797,004	843,105,473	814,534,818	790,667,801	770,541,737
1,045,819,067	975,288,590	920,778,685	877,797,004	843,105,473	814,534,818	790,667,801	770,541,737
3,714,870,600,293	3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371
3,676,459,660,213	3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146
6,340,901,729,421	6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788
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Bitstream (direct, contended)	xDSL (direct, contended)	xDSL (indirect, contended)	VoD (direct, contended)	VoD (indirect, contended)	Fibre traffic (direct, contended)	Subscribers	Fibre traffic (indirect, contended)
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

2024	2025	2026	2027	2028	2029	2030	2031
-	-	-	-	-	-	-	-
350,038,067,787	278,531,435,459	216,511,045,626	165,610,476,422	125,921,618,248	96,467,750,936	75,653,800,827	61,653,955,030
-	-	-	-	-	-	-	-
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350,038,067,787	278,531,435,459	216,511,045,626	165,610,476,422	125,921,618,248	96,467,750,936	75,653,800,827	61,653,955,030
350,038,067,787	278,531,435,459	216,511,045,626	165,610,476,422	125,921,618,248	96,467,750,936	75,653,800,827	61,653,955,030
3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
1	1	1	1	1	1	1	1
311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709	57,505,374,824	36,435,625,000	22,169,608,948
311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709	57,505,374,824	36,435,625,000	22,169,608,948
3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
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3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471	4,363,112,319,190	4,431,447,827,993	4,489,754,030,229
-	-	-	-	-	-	-	-
572,687,371,361	450,130,249,630	343,761,962,624	256,401,894,091	188,224,084,462	137,566,790,260	101,704,291,837	77,514,066,306
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816,729,372	736,524,535	672,585,809	621,338,499	580,110,758	546,929,175	520,278,927	498,926,909
816,729,372	736,524,535	672,585,809	621,338,499	580,110,758	546,929,175	520,278,927	498,926,909
6,340,803,752,690	6,659,182,279,018	6,922,879,403,171	7,137,423,779,486	7,310,745,822,559	7,451,814,621,554	7,568,779,766,979	7,668,542,766,646
6,340,803,752,690	6,659,182,279,018	6,922,879,403,171	7,137,423,779,486	7,310,745,822,559	7,451,814,621,554	7,568,779,766,979	7,668,542,766,646
6,340,803,752,690	6,659,182,279,018	6,922,879,403,171	7,137,423,779,486	7,310,745,822,559	7,451,814,621,554	7,568,779,766,979	7,668,542,766,646
6,340,803,752,690	6,659,182,279,018	6,922,879,403,171	7,137,423,779,486	7,310,745,822,559	7,451,814,621,554	7,568,779,766,979	7,668,542,766,646
572,687,371,361	450,130,249,630	343,761,962,624	256,401,894,091	188,224,084,462	137,566,790,260	101,704,291,837	77,514,066,306
572,687,371,361	450,130,249,630	343,761,962,624	256,401,894,091	188,224,084,462	137,566,790,260	101,704,291,837	77,514,066,306
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569,865,622,645	447,290,285,734	340,898,893,512	253,513,212,937	185,309,188,091	134,626,296,927	98,739,395,108	74,526,255,346
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569,865,622,645	447,290,285,734	340,898,893,512	253,513,212,937	185,309,188,091	134,626,296,927	98,739,395,108	74,526,255,346
569,865,622,645	447,290,285,734	340,898,893,512	253,513,212,937	185,309,188,091	134,626,296,927	98,739,395,108	74,526,255,346
1,176,932,032	1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173	1,024,770,124	1,007,869,794	992,301,424
1,176,932,032	1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173	1,024,770,124	1,007,869,794	992,301,424
947,842,337	889,081,344	844,076,324	808,865,749	780,544,459	757,164,481	737,480,920	720,686,595
947,842,337	889,081,344	844,076,324	808,865,749	780,544,459	757,164,481	737,480,920	720,686,595
1,176,932,032	1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173	1,024,770,124	1,007,869,794	992,301,424
520	520	480	480	480	480	480	440
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311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709	57,505,374,824	36,435,625,000	22,169,608,948
311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709	57,505,374,824	36,435,625,000	22,169,608,948
311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709	57,505,374,824	36,435,625,000	22,169,608,948
6,337,982,003,974	6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188	7,448,874,128,221	7,565,814,870,250	7,665,554,955,687
6,337,982,003,974	6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188	7,448,874,128,221	7,565,814,870,250	7,665,554,955,687
311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709	57,505,374,824	36,435,625,000	22,169,608,948
311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709	57,505,374,824	36,435,625,000	22,169,608,948
311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709	57,505,374,824	36,435,625,000	22,169,608,948
1	1	1	1	1	1	1	1
947,842,337	889,081,344	844,076,324	808,865,749	780,544,459	757,164,481	737,480,920	720,686,595
331,535,854,950	260,009,772,100	197,927,192,339	146,932,767,349	107,128,325,755	77,544,859,769	56,592,594,568	42,450,342,524
331,535,854,950	260,009,772,100	197,927,192,339	146,932,767,349	107,128,325,755	77,544,859,769	56,592,594,568	42,450,342,524
-	-	-	-	-	-	-	-
1,045,819,067	975,288,590	920,778,685	877,797,004	843,105,473	814,534,818	790,667,801	770,541,737
816,729,372	736,524,535	672,585,809	621,338,499	580,110,758	546,929,175	520,278,927	498,926,909
350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613	96,502,204,251	75,688,507,461	61,688,919,532
350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613	96,502,204,251	75,688,507,461	61,688,919,532
350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613	96,502,204,251	75,688,507,461	61,688,919,532
350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613	96,502,204,251	75,688,507,461	61,688,919,532
350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613	96,502,204,251	75,688,507,461	61,688,919,532
350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613	96,502,204,251	75,688,507,461	61,688,919,532
350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613	96,502,204,251	75,688,507,461	61,688,919,532
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-	-	-	-	-	-	-	-
3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836	4,363,146,772,506	4,431,482,534,627	4,489,788,994,731
3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836	4,363,146,772,506	4,431,482,534,627	4,489,788,994,731

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3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836	4,363,146,772,506	4,431,482,534,627	4,489,788,994,731
3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836	4,363,146,772,506	4,431,482,534,627	4,489,788,994,731
3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836	4,363,146,772,506	4,431,482,534,627	4,489,788,994,731
3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836	4,363,146,772,506	4,431,482,534,627	4,489,788,994,731
3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836	4,363,146,772,506	4,431,482,534,627	4,489,788,994,731
3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836	4,363,146,772,506	4,431,482,534,627	4,489,788,994,731
572,257,348,932	449,690,240,415	343,311,756,326	255,942,326,697	187,756,670,867	137,093,326,057	101,226,530,826	77,033,538,581
572,257,348,932	449,690,240,415	343,311,756,326	255,942,326,697	187,756,670,867	137,093,326,057	101,226,530,826	77,033,538,581
572,257,348,932	449,690,240,415	343,311,756,326	255,942,326,697	187,756,670,867	137,093,326,057	101,226,530,826	77,033,538,581
572,257,348,932	449,690,240,415	343,311,756,326	255,942,326,697	187,756,670,867	137,093,326,057	101,226,530,826	77,033,538,581
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6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965	7,451,341,157,350	7,568,302,005,968	7,668,062,238,921
6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965	7,451,341,157,350	7,568,302,005,968	7,668,062,238,921
6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965	7,451,341,157,350	7,568,302,005,968	7,668,062,238,921
6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965	7,451,341,157,350	7,568,302,005,968	7,668,062,238,921
6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965	7,451,341,157,350	7,568,302,005,968	7,668,062,238,921
6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965	7,451,341,157,350	7,568,302,005,968	7,668,062,238,921
238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865	57,592,875,801	42,662,532,656	32,594,465,118
238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865	57,592,875,801	42,662,532,656	32,594,465,118
238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865	57,592,875,801	42,662,532,656	32,594,465,118
238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865	57,592,875,801	42,662,532,656	32,594,465,118
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238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865	57,592,875,801	42,662,532,656	32,594,465,118
238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865	57,592,875,801	42,662,532,656	32,594,465,118
238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865	57,592,875,801	42,662,532,656	32,594,465,118
238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865	57,592,875,801	42,662,532,656	32,594,465,118
238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865	57,592,875,801	42,662,532,656	32,594,465,118
3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836	4,363,146,772,506	4,431,482,534,627	4,489,788,994,731
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331,535,854,950	260,009,772,100	197,927,192,339	146,932,767,349	107,128,325,755	77,544,859,769	56,592,594,568	42,450,342,524
331,535,854,950	260,009,772,100	197,927,192,339	146,932,767,349	107,128,325,755	77,544,859,769	56,592,594,568	42,450,342,524

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2,420,409,225,830	2,603,973,548,723	2,762,279,396,558	2,894,416,206,957	3,002,182,418,569	3,089,134,136,001	3,159,326,047,224	3,216,690,057,621
1	1	1	1	1	1	1	1
311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709	57,505,374,824	36,435,625,000	22,169,608,948
591,534,616,584	664,412,032,361	727,362,385,981	779,658,780,153	821,788,800,092	855,047,538,590	881,049,213,256	901,438,886,454
903,259,721,022	904,652,407,256	905,502,943,691	906,745,589,800	908,983,520,800	912,552,913,414	917,484,838,256	923,608,495,402
816,729,372	736,524,535	672,585,809	621,338,499	580,110,758	546,929,175	520,278,927	498,926,909
816,729,372	736,524,535	672,585,809	621,338,499	580,110,758	546,929,175	520,278,927	498,926,909
-	-	-	-	-	-	-	-
816,729,372	736,524,535	672,585,809	621,338,499	580,110,758	546,929,175	520,278,927	498,926,909
1,176,932,032	1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173	1,024,770,124	1,007,869,794	992,301,424
947,842,337	889,081,344	844,076,324	808,865,749	780,544,459	757,164,481	737,480,920	720,686,595
947,842,337	889,081,344	844,076,324	808,865,749	780,544,459	757,164,481	737,480,920	720,686,595
947,842,337	889,081,344	844,076,324	808,865,749	780,544,459	757,164,481	737,480,920	720,686,595
947,842,337	889,081,344	844,076,324	808,865,749	780,544,459	757,164,481	737,480,920	720,686,595
2,420,409,225,830	2,603,973,548,723	2,762,279,396,558	2,894,416,206,957	3,002,182,418,569	3,089,134,136,001	3,159,326,047,224	3,216,690,057,621
311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709	57,505,374,824	36,435,625,000	22,169,608,948
6,340,803,752,690	6,659,182,279,018	6,922,879,403,171	7,137,423,779,486	7,310,745,822,559	7,451,814,621,554	7,568,779,766,979	7,668,542,766,646
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2032	2033	2034	2035	2036	2037	2038	2039
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2,897,380	2,770,894	2,671,621	2,593,191	2,530,432	2,479,281	2,436,625	2,400,120
36,458,695	34,867,078	33,617,895	32,630,988	31,841,270	31,197,621	30,660,870	30,201,516
7,871,215	7,527,594	7,257,903	7,044,836	6,874,340	6,735,380	6,619,499	6,520,327
153,615,051	149,610,615	146,265,378	143,444,678	141,031,028	138,927,055	137,055,101	135,354,929
26,992,922	26,393,153	25,881,827	25,441,090	25,055,361	24,711,692	24,399,732	24,111,427
452,224,129	446,718,395	441,331,599	436,122,063	431,109,731	426,290,282	421,646,265	417,154,185
-	-	-	-	-	-	-	-
253,989,544	246,902,245	241,209,201	236,540,772	232,616,322	229,226,972	226,219,770	223,484,393
-	-	-	-	-	-	-	-
525,605,699	517,616,872	510,393,596	503,777,068	497,639,664	491,878,507	486,411,201	481,172,222
-	-	-	-	-	-	-	-
271,616,156	270,714,627	269,184,395	267,236,296	265,023,342	262,651,535	260,191,431	257,687,829
-	-	-	-	-	-	-	-
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35,221,921	35,476,584	35,727,089	35,973,687	36,216,562	36,455,636	36,690,839	36,922,557
210,450,977	211,972,588	213,469,357	214,942,782	216,393,955	217,822,424	219,227,765	220,612,278
2,562,017,362	2,580,541,364	2,598,762,934	2,616,700,322	2,634,366,817	2,651,756,909	2,668,865,449	2,685,720,419
16,846,141,561	16,967,943,218	17,087,756,276	17,205,700,749	17,321,864,000	17,436,209,811	17,548,704,320	17,659,531,525
1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470
3,700,335,706	2,075,253,880	1,117,388,136	577,673,386	286,780,566	136,719,839	62,594,013	27,518,420
9,250,839,264	5,188,134,699	2,793,470,340	1,444,183,466	716,951,414	341,799,598	156,485,034	68,796,051
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917,696,266,826	931,012,130,100	942,303,614,666	952,214,273,748	961,169,055,666	969,440,372,928	977,209,025,420	984,581,057,064
1	1	1	1	1	1	1	1
2,294,240,667,064	2,327,530,325,251	2,355,759,036,665	2,380,535,684,369	2,402,922,639,165	2,423,600,932,321	2,443,022,563,550	2,461,452,642,660
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364,731,551,272	366,334,989,082	368,410,194,492	370,824,467,573	373,457,528,589	376,210,770,177	379,013,188,255	381,811,196,599
911,828,878,181	915,837,472,705	921,025,486,230	927,061,168,934	933,643,821,472	940,526,925,442	947,532,970,637	954,527,991,498
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linear TV broadcast (distribution to DSLAM/MSANs)	linear TV broadcast (distribution to ER)	linear TV broadcast (distribution to	linear TV broadcast (provisioning to	Cable traffic (direct, contended)	Cable traffic (indirect, contended)	TDM ss7 interconnection ports	NGN ss7 interconnection ports
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2032	2033	2034	2035	2036	2037	2038	2039
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2032	2033	2034	2035	2036	2037	2038	2039
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2032	2033	2034	2035	2036	2037	2038	2039
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4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
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4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
1	1	1	1	1	1	1	1
4,501,448,539,782	4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762
4,501,448,539,782	4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
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4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
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7,756,593,462,514	7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052
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529,052,095	513,237,143	500,451,243	489,964,570	481,194,796	473,690,285	467,108,592	461,194,677
529,052,095	513,237,143	500,451,243	489,964,570	481,194,796	473,690,285	467,108,592	461,194,677
7,756,593,462,514	7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052

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7,756,593,462,514	7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052
7,756,593,462,514	7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052
7,756,593,462,514	7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052
7,756,593,462,514	7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052
7,756,593,462,514	7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052
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7,753,537,014,867	7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762	8,112,713,599,990	8,175,931,094,423	8,236,973,720,317
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7,753,537,014,867	7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762	8,112,713,599,990	8,175,931,094,423	8,236,973,720,317
7,753,537,014,867	7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762	8,112,713,599,990	8,175,931,094,423	8,236,973,720,317
977,829,828	964,335,267	951,725,195	939,899,131	928,749,395	918,168,789	908,057,466	898,326,407
977,829,828	964,335,267	951,725,195	939,899,131	928,749,395	918,168,789	908,057,466	898,326,407
753,440,962	738,786,205	726,088,219	714,931,850	704,972,095	695,929,537	687,583,029	679,760,542
753,440,962	738,786,205	726,088,219	714,931,850	704,972,095	695,929,537	687,583,029	679,760,542
977,829,828	964,335,267	951,725,195	939,899,131	928,749,395	918,168,789	908,057,466	898,326,407
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4,501,448,539,782	4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762
4,501,448,539,782	4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762
4,501,448,539,782	4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762
7,753,537,014,867	7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762	8,112,713,599,990	8,175,931,094,423	8,236,973,720,317
7,753,537,014,867	7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762	8,112,713,599,990	8,175,931,094,423	8,236,973,720,317
4,501,448,539,782	4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762
4,501,448,539,782	4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762
4,501,448,539,782	4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762
1	1	1	1	1	1	1	1
706,213,672	693,620,640	682,540,800	672,662,835	663,726,053	655,517,254	647,866,034	640,638,578
4,521,855,812,565	4,568,513,027,147	4,612,070,995,876	4,653,445,702,338	4,693,110,591,771	4,731,295,696,093	4,768,157,899,783	4,803,751,751,084
4,521,855,812,565	4,568,513,027,147	4,612,070,995,876	4,653,445,702,338	4,693,110,591,771	4,731,295,696,093	4,768,157,899,783	4,803,751,751,084
-	-	-	-	-	-	-	-
753,440,962	738,786,205	726,088,219	714,931,850	704,972,095	695,929,537	687,583,029	679,760,542
529,052,095	513,237,143	500,451,243	489,964,570	481,194,796	473,690,285	467,108,592	461,194,677
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997

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4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
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4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
7,756,108,498,002	7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825
7,756,108,498,002	7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825
7,756,108,498,002	7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825
7,756,108,498,002	7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825
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7,756,108,498,002	7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825
7,756,108,498,002	7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825
7,756,108,498,002	7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825
7,756,108,498,002	7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825
7,756,108,498,002	7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825
7,756,108,498,002	7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825
3,232,201,390,206	3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488
3,232,201,390,206	3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488
3,232,201,390,206	3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488
3,232,201,390,206	3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488
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3,232,201,390,206	3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488
3,232,201,390,206	3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488
3,232,201,390,206	3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488
3,232,201,390,206	3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488
3,232,201,390,206	3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488
4,541,285,255,519	4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997
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4,521,855,812,565	4,568,513,027,147	4,612,070,995,876	4,653,445,702,338	4,693,110,591,771	4,731,295,696,093	4,768,157,899,783	4,803,751,751,084
4,521,855,812,565	4,568,513,027,147	4,612,070,995,876	4,653,445,702,338	4,693,110,591,771	4,731,295,696,093	4,768,157,899,783	4,803,751,751,084
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
1	1	1	1	1	1	1	1
12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450	478,520,907	219,080,517	96,315,942
917,696,266,826	931,012,130,100	942,303,614,666	952,214,273,748	961,169,055,666	969,440,372,928	977,209,025,420	984,581,057,064
930,647,443,265	938,275,520,149	946,214,474,612	954,236,132,070	962,172,789,117	969,918,893,835	977,428,105,938	984,677,373,006
529,052,095	513,237,143	500,451,243	489,964,570	481,194,796	473,690,285	467,108,592	461,194,677
529,052,095	513,237,143	500,451,243	489,964,570	481,194,796	473,690,285	467,108,592	461,194,677
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529,052,095	513,237,143	500,451,243	489,964,570	481,194,796	473,690,285	467,108,592	461,194,677
977,829,828	964,335,267	951,725,195	939,899,131	928,749,395	918,168,789	908,057,466	898,326,407
753,440,962	738,786,205	726,088,219	714,931,850	704,972,095	695,929,537	687,583,029	679,760,542
753,440,962	738,786,205	726,088,219	714,931,850	704,972,095	695,929,537	687,583,029	679,760,542
753,440,962	738,786,205	726,088,219	714,931,850	704,972,095	695,929,537	687,583,029	679,760,542
753,440,962	738,786,205	726,088,219	714,931,850	704,972,095	695,929,537	687,583,029	679,760,542
4,541,250,033,598	4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440
4,501,448,539,782	4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762
7,756,593,462,514	7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052
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linear TV broadcast (distribution to DSLAM/MSANs)	linear TV broadcast (distribution to ER)	linear TV broadcast (distribution to	linear TV broadcast (provisioning to	Cable traffic (direct, contended)	Cable traffic (indirect, contended)	TDM ss7 interconnection ports	NGN ss7 interconnection ports
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-	-	-	-	-	-	-	-

2032	2033	2034	2035	2036	2037	2038	2039
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52,705,442,966	47,287,852,551	44,203,467,993	42,580,215,270	41,825,148,308	41,559,832,833	41,556,758,023	41,687,039,656
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CONFIDENTIAL © Analysys Mason

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52,705,442,966	47,287,852,551	44,203,467,993	42,580,215,270	41,825,148,308	41,559,832,833	41,556,758,023	41,687,039,656
52,705,442,966	47,287,852,551	44,203,467,993	42,580,215,270	41,825,148,308	41,559,832,833	41,556,758,023	41,687,039,656
4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
1	1	1	1	1	1	1	1
12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450	478,520,907	219,080,517	96,315,942
12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450	478,520,907	219,080,517	96,315,942
4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
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4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200	4,751,338,833,701	4,788,334,505,885	4,824,059,927,477
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61,979,326,638	52,496,480,342	47,014,253,191	44,038,123,901	42,551,980,646	41,907,525,155	41,715,077,788	41,753,587,111
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481,824,806	468,071,578	456,903,824	447,695,555	439,948,753	433,278,002	427,391,598	422,072,713
481,824,806	468,071,578	456,903,824	447,695,555	439,948,753	433,278,002	427,391,598	422,072,713
7,756,546,235,225	7,836,579,195,436	7,911,297,108,140	7,982,270,571,828	8,050,311,486,174	8,115,814,383,785	8,179,048,359,837	8,240,107,109,088
7,756,546,235,225	7,836,579,195,436	7,911,297,108,140	7,982,270,571,828	8,050,311,486,174	8,115,814,383,785	8,179,048,359,837	8,240,107,109,088
7,756,546,235,225	7,836,579,195,436	7,911,297,108,140	7,982,270,571,828	8,050,311,486,174	8,115,814,383,785	8,179,048,359,837	8,240,107,109,088
7,756,546,235,225	7,836,579,195,436	7,911,297,108,140	7,982,270,571,828	8,050,311,486,174	8,115,814,383,785	8,179,048,359,837	8,240,107,109,088
61,979,326,638	52,496,480,342	47,014,253,191	44,038,123,901	42,551,980,646	41,907,525,155	41,715,077,788	41,753,587,111
61,979,326,638	52,496,480,342	47,014,253,191	44,038,123,901	42,551,980,646	41,907,525,155	41,715,077,788	41,753,587,111
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58,970,106,281	49,467,172,510	43,965,976,235	40,971,730,427	39,468,126,233	38,806,741,360	38,597,812,374	38,620,198,340
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58,970,106,281	49,467,172,510	43,965,976,235	40,971,730,427	39,468,126,233	38,806,741,360	38,597,812,374	38,620,198,340
58,970,106,281	49,467,172,510	43,965,976,235	40,971,730,427	39,468,126,233	38,806,741,360	38,597,812,374	38,620,198,340
977,829,828	964,335,267	951,725,195	939,899,131	928,749,395	918,168,789	908,057,466	898,326,407
977,829,828	964,335,267	951,725,195	939,899,131	928,749,395	918,168,789	908,057,466	898,326,407
706,213,672	693,620,640	682,540,800	672,662,835	663,726,053	655,517,254	647,866,034	640,638,578
706,213,672	693,620,640	682,540,800	672,662,835	663,726,053	655,517,254	647,866,034	640,638,578
977,829,828	964,335,267	951,725,195	939,899,131	928,749,395	918,168,789	908,057,466	898,326,407
440	440	440	440	440	440	440	400
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12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450	478,520,907	219,080,517	96,315,942
12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450	478,520,907	219,080,517	96,315,942
12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450	478,520,907	219,080,517	96,315,942
7,753,537,014,867	7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762	8,112,713,599,990	8,175,931,094,423	8,236,973,720,317
7,753,537,014,867	7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762	8,112,713,599,990	8,175,931,094,423	8,236,973,720,317
12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450	478,520,907	219,080,517	96,315,942
12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450	478,520,907	219,080,517	96,315,942
12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450	478,520,907	219,080,517	96,315,942
1	1	1	1	1	1	1	1
706,213,672	693,620,640	682,540,800	672,662,835	663,726,053	655,517,254	647,866,034	640,638,578
33,358,449,223	27,798,110,009	24,572,663,822	22,810,107,714	21,917,546,880	21,516,695,225	21,380,151,921	21,378,863,264
33,358,449,223	27,798,110,009	24,572,663,822	22,810,107,714	21,917,546,880	21,516,695,225	21,380,151,921	21,378,863,264
-	-	-	-	-	-	-	-
753,440,962	738,786,205	726,088,219	714,931,850	704,972,095	695,929,537	687,583,029	679,760,542
481,824,806	468,071,578	456,903,824	447,695,555	439,948,753	433,278,002	427,391,598	422,072,713
52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870	41,596,288,469	41,593,448,863	41,723,962,213
52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870	41,596,288,469	41,593,448,863	41,723,962,213
52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870	41,596,288,469	41,593,448,863	41,723,962,213
52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870	41,596,288,469	41,593,448,863	41,723,962,213
52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870	41,596,288,469	41,593,448,863	41,723,962,213
52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870	41,596,288,469	41,593,448,863	41,723,962,213
52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870	41,596,288,469	41,593,448,863	41,723,962,213
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4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762	4,751,375,289,337	4,788,371,196,725	4,824,096,850,033
4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762	4,751,375,289,337	4,788,371,196,725	4,824,096,850,033

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4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762	4,751,375,289,337	4,788,371,196,725	4,824,096,850,033
4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762	4,751,375,289,337	4,788,371,196,725	4,824,096,850,033
4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762	4,751,375,289,337	4,788,371,196,725	4,824,096,850,033
4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762	4,751,375,289,337	4,788,371,196,725	4,824,096,850,033
4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762	4,751,375,289,337	4,788,371,196,725	4,824,096,850,033
4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762	4,751,375,289,337	4,788,371,196,725	4,824,096,850,033
61,497,259,506	52,013,793,127	46,531,599,439	43,555,944,823	42,070,563,349	41,427,051,196	41,235,658,591	41,275,287,004
61,497,259,506	52,013,793,127	46,531,599,439	43,555,944,823	42,070,563,349	41,427,051,196	41,235,658,591	41,275,287,004
61,497,259,506	52,013,793,127	46,531,599,439	43,555,944,823	42,070,563,349	41,427,051,196	41,235,658,591	41,275,287,004
61,497,259,506	52,013,793,127	46,531,599,439	43,555,944,823	42,070,563,349	41,427,051,196	41,235,658,591	41,275,287,004
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7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877	8,115,333,909,826	8,178,568,940,640	8,239,628,808,982
7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877	8,115,333,909,826	8,178,568,940,640	8,239,628,808,982
7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877	8,115,333,909,826	8,178,568,940,640	8,239,628,808,982
7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877	8,115,333,909,826	8,178,568,940,640	8,239,628,808,982
7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877	8,115,333,909,826	8,178,568,940,640	8,239,628,808,982
7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877	8,115,333,909,826	8,178,568,940,640	8,239,628,808,982
26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115	17,809,456,482	17,736,208,585	17,758,959,331
26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115	17,809,456,482	17,736,208,585	17,758,959,331
26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115	17,809,456,482	17,736,208,585	17,758,959,331
26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115	17,809,456,482	17,736,208,585	17,758,959,331
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26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115	17,809,456,482	17,736,208,585	17,758,959,331
26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115	17,809,456,482	17,736,208,585	17,758,959,331
26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115	17,809,456,482	17,736,208,585	17,758,959,331
26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115	17,809,456,482	17,736,208,585	17,758,959,331
26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115	17,809,456,482	17,736,208,585	17,758,959,331
4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762	4,751,375,289,337	4,788,371,196,725	4,824,096,850,033
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33,358,449,223	27,798,110,009	24,572,663,822	22,810,107,714	21,917,546,880	21,516,695,225	21,380,151,921	21,378,863,264
33,358,449,223	27,798,110,009	24,572,663,822	22,810,107,714	21,917,546,880	21,516,695,225	21,380,151,921	21,378,863,264

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3,264,642,376,856	3,305,830,307,903	3,342,266,119,324	3,375,330,173,387	3,405,916,843,140	3,434,601,138,083	3,461,788,346,994	3,487,720,739,380
1	1	1	1	1	1	1	1
12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450	478,520,907	219,080,517	96,315,942
917,696,266,826	931,012,130,100	942,303,614,666	952,214,273,748	961,169,055,666	969,440,372,928	977,209,025,420	984,581,057,064
930,647,443,265	938,275,520,149	946,214,474,612	954,236,132,070	962,172,789,117	969,918,893,835	977,428,105,938	984,677,373,006
481,824,806	468,071,578	456,903,824	447,695,555	439,948,753	433,278,002	427,391,598	422,072,713
481,824,806	468,071,578	456,903,824	447,695,555	439,948,753	433,278,002	427,391,598	422,072,713
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481,824,806	468,071,578	456,903,824	447,695,555	439,948,753	433,278,002	427,391,598	422,072,713
977,829,828	964,335,267	951,725,195	939,899,131	928,749,395	918,168,789	908,057,466	898,326,407
706,213,672	693,620,640	682,540,800	672,662,835	663,726,053	655,517,254	647,866,034	640,638,578
706,213,672	693,620,640	682,540,800	672,662,835	663,726,053	655,517,254	647,866,034	640,638,578
706,213,672	693,620,640	682,540,800	672,662,835	663,726,053	655,517,254	647,866,034	640,638,578
706,213,672	693,620,640	682,540,800	672,662,835	663,726,053	655,517,254	647,866,034	640,638,578
3,264,642,376,856	3,305,830,307,903	3,342,266,119,324	3,375,330,173,387	3,405,916,843,140	3,434,601,138,083	3,461,788,346,994	3,487,720,739,380
12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450	478,520,907	219,080,517	96,315,942
7,756,546,235,225	7,836,579,195,436	7,911,297,108,140	7,982,270,571,828	8,050,311,486,174	8,115,814,383,785	8,179,048,359,837	8,240,107,109,088
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2040	2041	2042	2043	2044	2045	2046	2047
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2,368,023	2,339,054	2,312,285	2,287,055	2,262,902	2,239,513	2,216,679	2,194,266
29,797,629	29,433,098	29,096,253	28,778,772	28,474,851	28,180,541	27,893,217	27,611,184
6,433,130	6,354,431	6,281,708	6,213,165	6,147,551	6,084,011	6,021,979	5,961,090
133,780,779	132,298,507	130,883,084	129,516,534	128,186,235	126,883,536	125,602,667	124,339,876
23,840,647	23,582,807	23,334,541	23,093,428	22,857,766	22,626,383	22,398,500	22,173,604
412,790,006	408,531,783	404,360,575	400,262,477	396,226,524	392,244,093	388,309,475	384,419,414
-	-	-	-	-	-	-	-
220,941,894	218,536,368	216,228,945	213,992,224	211,807,892	209,664,187	207,553,327	205,470,030
-	-	-	-	-	-	-	-
476,110,473	471,186,837	466,371,895	461,644,738	456,990,415	452,398,360	447,861,636	443,375,964
-	-	-	-	-	-	-	-
255,168,579	252,650,469	250,142,950	247,652,514	245,182,523	242,734,173	240,308,309	237,905,934
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1	1	1	1	1	1	1	1
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37,150,794	37,375,240	37,595,441	37,811,773	38,025,797	38,236,718	38,444,939	38,653,254
221,975,997	223,317,061	224,632,758	225,925,342	227,204,140	228,464,393	229,708,513	230,953,191
2,702,322,255	2,718,648,289	2,734,665,498	2,750,401,341	2,765,969,349	2,781,311,586	2,796,457,433	2,811,610,066
17,768,694,281	17,876,043,543	17,981,362,177	18,084,830,732	18,187,195,717	18,288,076,181	18,387,665,311	18,487,299,064
1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470
11,615,408	4,706,112	1,829,671	682,362	244,000	83,608	27,436	8,616
29,038,520	11,765,280	4,574,176	1,705,905	610,001	209,020	68,591	21,539
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991,615,579,445	998,344,623,054	1,004,808,426,594	1,011,069,877,318	1,017,127,915,573	1,023,009,229,010	1,028,798,777,015	1,034,510,964,339
1	1	1	1	1	1	1	1
2,479,038,948,612	2,495,861,557,635	2,512,021,066,486	2,527,674,693,294	2,542,819,788,932	2,557,523,072,524	2,571,996,942,536	2,586,277,410,848
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384,566,082,203	387,251,402,396	389,859,532,081	392,402,003,622	394,870,316,195	397,270,957,659	399,636,330,211	401,971,135,795
961,415,205,508	968,128,505,989	974,648,830,203	981,005,009,055	987,175,790,488	993,177,394,148	999,090,825,527	1,004,927,839,487
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2040	2041	2042	2043	2044	2045	2046	2047
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2040	2041	2042	2043	2044	2045	2046	2047
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4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
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4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
1	1	1	1	1	1	1	1
4,816,676,471,166	4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095
4,816,676,471,166	4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
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4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
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8,299,032,232,847	8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208
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455,760,886	450,670,848	445,827,060	441,160,170	436,622,501	432,182,236	427,818,246	423,516,590
455,760,886	450,670,848	445,827,060	441,160,170	436,622,501	432,182,236	427,818,246	423,516,590
8,299,032,232,847	8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208

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8,299,032,232,847	8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208
8,299,032,232,847	8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208
8,299,032,232,847	8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208
8,299,032,232,847	8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208
8,299,032,232,847	8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208
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8,295,844,441,011	8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003	8,561,461,234,660	8,610,600,486,195	8,659,092,551,171
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8,295,844,441,011	8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003	8,561,461,234,660	8,610,600,486,195	8,659,092,551,171
8,295,844,441,011	8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003	8,561,461,234,660	8,610,600,486,195	8,659,092,551,171
888,900,479	879,718,620	870,732,469	861,907,216	853,216,938	844,642,452	836,171,111	827,795,377
888,900,479	879,718,620	870,732,469	861,907,216	853,216,938	844,642,452	836,171,111	827,795,377
672,330,682	665,194,734	658,279,765	651,533,693	644,919,720	638,412,344	631,994,678	625,655,984
672,330,682	665,194,734	658,279,765	651,533,693	644,919,720	638,412,344	631,994,678	625,655,984
888,900,479	879,718,620	870,732,469	861,907,216	853,216,938	844,642,452	836,171,111	827,795,377
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4,816,676,471,166	4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095
4,816,676,471,166	4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095
4,816,676,471,166	4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095
8,295,844,441,011	8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003	8,561,461,234,660	8,610,600,486,195	8,659,092,551,171
8,295,844,441,011	8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003	8,561,461,234,660	8,610,600,486,195	8,659,092,551,171
4,816,676,471,166	4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095
4,816,676,471,166	4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095
4,816,676,471,166	4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095
1	1	1	1	1	1	1	1
633,731,900	627,068,151	620,589,520	614,254,701	608,034,415	601,908,280	595,862,803	589,889,443
4,838,078,945,177	4,871,123,140,804	4,902,980,796,321	4,933,904,475,907	4,963,857,981,383	4,992,955,448,661	5,021,607,243,662	5,049,881,553,654
4,838,078,945,177	4,871,123,140,804	4,902,980,796,321	4,933,904,475,907	4,963,857,981,383	4,992,955,448,661	5,021,607,243,662	5,049,881,553,654
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672,330,682	665,194,734	658,279,765	651,533,693	644,919,720	638,412,344	631,994,678	625,655,984
455,760,886	450,670,848	445,827,060	441,160,170	436,622,501	432,182,236	427,818,246	423,516,590
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834

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4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
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4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
8,298,552,720,247	8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816
8,298,552,720,247	8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816
8,298,552,720,247	8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816
8,298,552,720,247	8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816
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8,298,552,720,247	8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816
8,298,552,720,247	8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816
8,298,552,720,247	8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816
8,298,552,720,247	8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816
8,298,552,720,247	8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816
8,298,552,720,247	8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816
3,458,282,160,699	3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633
3,458,282,160,699	3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633
3,458,282,160,699	3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633
3,458,282,160,699	3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633
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3,458,282,160,699	3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633
3,458,282,160,699	3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633
3,458,282,160,699	3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633
3,458,282,160,699	3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633
3,458,282,160,699	3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633
4,858,592,518,707	4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834
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4,838,078,945,177	4,871,123,140,804	4,902,980,796,321	4,933,904,475,907	4,963,857,981,383	4,992,955,448,661	5,021,607,243,662	5,049,881,553,654
4,838,078,945,177	4,871,123,140,804	4,902,980,796,321	4,933,904,475,907	4,963,857,981,383	4,992,955,448,661	5,021,607,243,662	5,049,881,553,654
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
1	1	1	1	1	1	1	1
40,655,399	16,472,862	6,405,317	2,389,737	855,471	294,098	97,498	31,625
991,615,579,445	998,344,623,054	1,004,808,426,594	1,011,069,877,318	1,017,127,915,573	1,023,009,229,010	1,028,798,777,015	1,034,510,964,339
991,656,234,843	998,361,095,916	1,004,814,831,912	1,011,072,267,054	1,017,128,771,044	1,023,009,523,107	1,028,798,874,512	1,034,510,995,965
455,760,886	450,670,848	445,827,060	441,160,170	436,622,501	432,182,236	427,818,246	423,516,590
455,760,886	450,670,848	445,827,060	441,160,170	436,622,501	432,182,236	427,818,246	423,516,590
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455,760,886	450,670,848	445,827,060	441,160,170	436,622,501	432,182,236	427,818,246	423,516,590
888,900,479	879,718,620	870,732,469	861,907,216	853,216,938	844,642,452	836,171,111	827,795,377
672,330,682	665,194,734	658,279,765	651,533,693	644,919,720	638,412,344	631,994,678	625,655,984
672,330,682	665,194,734	658,279,765	651,533,693	644,919,720	638,412,344	631,994,678	625,655,984
672,330,682	665,194,734	658,279,765	651,533,693	644,919,720	638,412,344	631,994,678	625,655,984
672,330,682	665,194,734	658,279,765	651,533,693	644,919,720	638,412,344	631,994,678	625,655,984
4,858,555,367,913	4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580
4,816,676,471,166	4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095
8,299,032,232,847	8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208
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2040	2041	2042	2043	2044	2045	2046	2047
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41,880,953,363	42,102,410,154	42,333,458,439	42,566,397,517	42,799,356,877	43,029,913,306	43,257,891,320	43,486,159,571
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41,880,953,363	42,102,410,154	42,333,458,439	42,566,397,517	42,799,356,877	43,029,913,306	43,257,891,320	43,486,159,571
41,880,953,363	42,102,410,154	42,333,458,439	42,566,397,517	42,799,356,877	43,029,913,306	43,257,891,320	43,486,159,571
4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
1	1	1	1	1	1	1	1
40,655,399	16,472,862	6,405,317	2,389,737	855,471	294,098	97,498	31,625
40,655,399	16,472,862	6,405,317	2,389,737	855,471	294,098	97,498	31,625
4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
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4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065	5,014,010,566,647	5,042,780,766,609	5,071,173,510,040
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41,903,664,177	42,103,793,077	42,323,633,612	42,549,730,297	42,777,655,091	43,003,914,404	43,227,896,617	43,452,284,863
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417,162,103	412,544,265	408,136,815	403,881,178	399,737,197	395,678,172	391,686,370	387,750,050
417,162,103	412,544,265	408,136,815	403,881,178	399,737,197	395,678,172	391,686,370	387,750,050
8,298,993,634,064	8,355,679,945,775	8,410,331,385,665	8,463,381,015,934	8,514,767,045,698	8,564,685,034,417	8,613,838,539,970	8,662,344,885,668
8,298,993,634,064	8,355,679,945,775	8,410,331,385,665	8,463,381,015,934	8,514,767,045,698	8,564,685,034,417	8,613,838,539,970	8,662,344,885,668
8,298,993,634,064	8,355,679,945,775	8,410,331,385,665	8,463,381,015,934	8,514,767,045,698	8,564,685,034,417	8,613,838,539,970	8,662,344,885,668
8,298,993,634,064	8,355,679,945,775	8,410,331,385,665	8,463,381,015,934	8,514,767,045,698	8,564,685,034,417	8,613,838,539,970	8,662,344,885,668
41,903,664,177	42,103,793,077	42,323,633,612	42,549,730,297	42,777,655,091	43,003,914,404	43,227,896,617	43,452,284,863
41,903,664,177	42,103,793,077	42,323,633,612	42,549,730,297	42,777,655,091	43,003,914,404	43,227,896,617	43,452,284,863
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38,754,471,123	38,939,114,495	39,143,808,655	39,355,057,693	39,568,304,396	39,780,114,647	39,989,842,842	40,199,950,366
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38,754,471,123	38,939,114,495	39,143,808,655	39,355,057,693	39,568,304,396	39,780,114,647	39,989,842,842	40,199,950,366
38,754,471,123	38,939,114,495	39,143,808,655	39,355,057,693	39,568,304,396	39,780,114,647	39,989,842,842	40,199,950,366
888,900,479	879,718,620	870,732,469	861,907,216	853,216,938	844,642,452	836,171,111	827,795,377
888,900,479	879,718,620	870,732,469	861,907,216	853,216,938	844,642,452	836,171,111	827,795,377
633,731,900	627,068,151	620,589,520	614,254,701	608,034,415	601,908,280	595,862,803	589,889,443
633,731,900	627,068,151	620,589,520	614,254,701	608,034,415	601,908,280	595,862,803	589,889,443
888,900,479	879,718,620	870,732,469	861,907,216	853,216,938	844,642,452	836,171,111	827,795,377
400	400	400	400	400	400	400	400
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40,655,399	16,472,862	6,405,317	2,389,737	855,471	294,098	97,498	31,625
40,655,399	16,472,862	6,405,317	2,389,737	855,471	294,098	97,498	31,625
40,655,399	16,472,862	6,405,317	2,389,737	855,471	294,098	97,498	31,625
8,295,844,441,011	8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003	8,561,461,234,660	8,610,600,486,195	8,659,092,551,171
8,295,844,441,011	8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003	8,561,461,234,660	8,610,600,486,195	8,659,092,551,171
40,655,399	16,472,862	6,405,317	2,389,737	855,471	294,098	97,498	31,625
40,655,399	16,472,862	6,405,317	2,389,737	855,471	294,098	97,498	31,625
40,655,399	16,472,862	6,405,317	2,389,737	855,471	294,098	97,498	31,625
1	1	1	1	1	1	1	1
633,731,900	627,068,151	620,589,520	614,254,701	608,034,415	601,908,280	595,862,803	589,889,443
21,443,129,410	21,537,051,731	21,642,940,957	21,752,892,618	21,864,170,195	21,974,795,321	22,084,368,373	22,194,203,185
21,443,129,410	21,537,051,731	21,642,940,957	21,752,892,618	21,864,170,195	21,974,795,321	22,084,368,373	22,194,203,185
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672,330,682	665,194,734	658,279,765	651,533,693	644,919,720	638,412,344	631,994,678	625,655,984
417,162,103	412,544,265	408,136,815	403,881,178	399,737,197	395,678,172	391,686,370	387,750,050
41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675	43,068,150,025	43,296,336,259	43,524,812,825
41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675	43,068,150,025	43,296,336,259	43,524,812,825
41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675	43,068,150,025	43,296,336,259	43,524,812,825
41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675	43,068,150,025	43,296,336,259	43,524,812,825
41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675	43,068,150,025	43,296,336,259	43,524,812,825
41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675	43,068,150,025	43,296,336,259	43,524,812,825
41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675	43,068,150,025	43,296,336,259	43,524,812,825
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4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862	5,014,048,803,365	5,042,819,211,548	5,071,212,163,294
4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862	5,014,048,803,365	5,042,819,211,548	5,071,212,163,294

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4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862	5,014,048,803,365	5,042,819,211,548	5,071,212,163,294
4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862	5,014,048,803,365	5,042,819,211,548	5,071,212,163,294
4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862	5,014,048,803,365	5,042,819,211,548	5,071,212,163,294
4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862	5,014,048,803,365	5,042,819,211,548	5,071,212,163,294
4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862	5,014,048,803,365	5,042,819,211,548	5,071,212,163,294
4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862	5,014,048,803,365	5,042,819,211,548	5,071,212,163,294
41,426,519,601	41,627,825,547	41,848,857,904	42,076,152,440	42,305,268,428	42,532,715,839	42,757,879,796	42,983,425,738
41,426,519,601	41,627,825,547	41,848,857,904	42,076,152,440	42,305,268,428	42,532,715,839	42,757,879,796	42,983,425,738
41,426,519,601	41,627,825,547	41,848,857,904	42,076,152,440	42,305,268,428	42,532,715,839	42,757,879,796	42,983,425,738
41,426,519,601	41,627,825,547	41,848,857,904	42,076,152,440	42,305,268,428	42,532,715,839	42,757,879,796	42,983,425,738
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8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035	8,564,213,835,851	8,613,368,523,148	8,661,876,026,543
8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035	8,564,213,835,851	8,613,368,523,148	8,661,876,026,543
8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035	8,564,213,835,851	8,613,368,523,148	8,661,876,026,543
8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035	8,564,213,835,851	8,613,368,523,148	8,661,876,026,543
8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035	8,564,213,835,851	8,613,368,523,148	8,661,876,026,543
8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035	8,564,213,835,851	8,613,368,523,148	8,661,876,026,543
17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034	18,316,995,595	18,416,154,381	18,515,455,298
17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034	18,316,995,595	18,416,154,381	18,515,455,298
17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034	18,316,995,595	18,416,154,381	18,515,455,298
17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034	18,316,995,595	18,416,154,381	18,515,455,298
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17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034	18,316,995,595	18,416,154,381	18,515,455,298
17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034	18,316,995,595	18,416,154,381	18,515,455,298
17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034	18,316,995,595	18,416,154,381	18,515,455,298
17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034	18,316,995,595	18,416,154,381	18,515,455,298
17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034	18,316,995,595	18,416,154,381	18,515,455,298
4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862	5,014,048,803,365	5,042,819,211,548	5,071,212,163,294
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21,443,129,410	21,537,051,731	21,642,940,957	21,752,892,618	21,864,170,195	21,974,795,321	22,084,368,373	22,194,203,185
21,443,129,410	21,537,051,731	21,642,940,957	21,752,892,618	21,864,170,195	21,974,795,321	22,084,368,373	22,194,203,185

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3,512,535,481,419	3,536,308,590,843	3,559,162,951,519	3,581,310,968,129	3,602,747,061,382	3,623,562,214,840	3,644,053,610,871	3,664,274,534,758
1	1	1	1	1	1	1	1
40,655,399	16,472,862	6,405,317	2,389,737	855,471	294,098	97,498	31,625
991,615,579,445	998,344,623,054	1,004,808,426,594	1,011,069,877,318	1,017,127,915,573	1,023,009,229,010	1,028,798,777,015	1,034,510,964,339
991,656,234,843	998,361,095,916	1,004,814,831,912	1,011,072,267,054	1,017,128,771,044	1,023,009,523,107	1,028,798,874,512	1,034,510,995,965
417,162,103	412,544,265	408,136,815	403,881,178	399,737,197	395,678,172	391,686,370	387,750,050
417,162,103	412,544,265	408,136,815	403,881,178	399,737,197	395,678,172	391,686,370	387,750,050
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417,162,103	412,544,265	408,136,815	403,881,178	399,737,197	395,678,172	391,686,370	387,750,050
888,900,479	879,718,620	870,732,469	861,907,216	853,216,938	844,642,452	836,171,111	827,795,377
633,731,900	627,068,151	620,589,520	614,254,701	608,034,415	601,908,280	595,862,803	589,889,443
633,731,900	627,068,151	620,589,520	614,254,701	608,034,415	601,908,280	595,862,803	589,889,443
633,731,900	627,068,151	620,589,520	614,254,701	608,034,415	601,908,280	595,862,803	589,889,443
633,731,900	627,068,151	620,589,520	614,254,701	608,034,415	601,908,280	595,862,803	589,889,443
3,512,535,481,419	3,536,308,590,843	3,559,162,951,519	3,581,310,968,129	3,602,747,061,382	3,623,562,214,840	3,644,053,610,871	3,664,274,534,758
40,655,399	16,472,862	6,405,317	2,389,737	855,471	294,098	97,498	31,625
8,298,993,634,064	8,355,679,945,775	8,410,331,385,665	8,463,381,015,934	8,514,767,045,698	8,564,685,034,417	8,613,838,539,970	8,662,344,885,668
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2,172,189	2,150,395	2,128,854
27,333,376	27,059,139	26,788,079
5,901,113	5,841,907	5,783,386
123,092,777	121,859,879	120,640,262
21,951,370	21,731,591	21,514,138
380,571,445	376,763,771	372,995,342
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203,411,148	201,374,829	199,359,836
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438,938,446	434,547,129	430,200,778
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235,527,298	233,172,300	230,840,942
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38,861,723	39,069,949	39,277,747
232,198,798	233,442,943	234,684,538
2,826,774,006	2,841,920,158	2,857,035,259
18,587,007,165	18,686,598,299	18,785,985,266
1,470	1,470	1,470
2,586	741	203
6,466	1,853	506
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1,040,147,021,047	1,045,712,599,274	1,051,228,384,982
1	1	1
2,600,367,552,618	2,614,281,498,184	2,628,070,962,456
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404,275,296,970	406,550,852,410	408,806,137,556
1,010,688,242,426	1,016,377,131,025	1,022,015,343,889
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5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
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5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
1	1	1
5,055,478,123,583	5,082,922,084,958	5,110,120,831,062
5,055,478,123,583	5,082,922,084,958	5,110,120,831,062
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
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5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
-	-	-
8,710,246,308,521	8,757,517,285,494	8,804,367,488,992
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
419,268,649	415,069,181	410,914,874
419,268,649	415,069,181	410,914,874
8,710,246,308,521	8,757,517,285,494	8,804,367,488,992

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8,710,246,308,521	8,757,517,285,494	8,804,367,488,992
8,710,246,308,521	8,757,517,285,494	8,804,367,488,992
8,710,246,308,521	8,757,517,285,494	8,804,367,488,992
8,710,246,308,521	8,757,517,285,494	8,804,367,488,992
8,710,246,308,521	8,757,517,285,494	8,804,367,488,992
-	-	-
8,706,944,254,224	8,754,201,272,150	8,801,037,525,458
-	-	-
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-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
8,706,944,254,224	8,754,201,272,150	8,801,037,525,458
8,706,944,254,224	8,754,201,272,150	8,801,037,525,458
819,509,891	811,310,900	803,196,120
819,509,891	811,310,900	803,196,120
619,389,270	613,190,040	607,055,497
619,389,270	613,190,040	607,055,497
819,509,891	811,310,900	803,196,120
400	400	400
-	-	-
-	-	-
-	-	-
-	-	-
5,055,478,123,583	5,082,922,084,958	5,110,120,831,062
5,055,478,123,583	5,082,922,084,958	5,110,120,831,062
5,055,478,123,583	5,082,922,084,958	5,110,120,831,062
8,706,944,254,224	8,754,201,272,150	8,801,037,525,458
8,706,944,254,224	8,754,201,272,150	8,801,037,525,458
5,055,478,123,583	5,082,922,084,958	5,110,120,831,062
5,055,478,123,583	5,082,922,084,958	5,110,120,831,062
5,055,478,123,583	5,082,922,084,958	5,110,120,831,062
1	1	1
583,982,593	578,138,600	572,355,178
5,077,782,354,547	5,105,336,306,349	5,132,644,869,369
5,077,782,354,547	5,105,336,306,349	5,132,644,869,369
-	-	-
619,389,270	613,190,040	607,055,497
419,268,649	415,069,181	410,914,874
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555

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5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
-	-	-
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-	-	-
-	-	-
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-	-	-
-	-	-
-	-	-
-	-	-
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
8,709,776,410,236	8,757,048,519,855	8,803,899,834,658
8,709,776,410,236	8,757,048,519,855	8,803,899,834,658
8,709,776,410,236	8,757,048,519,855	8,803,899,834,658
8,709,776,410,236	8,757,048,519,855	8,803,899,834,658
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
8,709,776,410,236	8,757,048,519,855	8,803,899,834,658
8,709,776,410,236	8,757,048,519,855	8,803,899,834,658
8,709,776,410,236	8,757,048,519,855	8,803,899,834,658
8,709,776,410,236	8,757,048,519,855	8,803,899,834,658
8,709,776,410,236	8,757,048,519,855	8,803,899,834,658
8,709,776,410,236	8,757,048,519,855	8,803,899,834,658
3,629,670,661,157	3,649,372,802,860	3,668,899,589,641
3,629,670,661,157	3,649,372,802,860	3,668,899,589,641
3,629,670,661,157	3,649,372,802,860	3,668,899,589,641
3,629,670,661,157	3,649,372,802,860	3,668,899,589,641
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3,629,670,661,157	3,649,372,802,860	3,668,899,589,641
3,629,670,661,157	3,649,372,802,860	3,668,899,589,641
3,629,670,661,157	3,649,372,802,860	3,668,899,589,641
3,629,670,661,157	3,649,372,802,860	3,668,899,589,641
3,629,670,661,157	3,649,372,802,860	3,668,899,589,641
5,099,267,075,617	5,126,939,216,836	5,154,365,711,555
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-	-	-
-	-	-
5,077,782,354,547	5,105,336,306,349	5,132,644,869,369
5,077,782,354,547	5,105,336,306,349	5,132,644,869,369
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
1	1	1
10,523	4,065	2,179
1,040,147,021,047	1,045,712,599,274	1,051,228,384,982
1,040,147,031,570	1,045,712,603,339	1,051,228,387,161
419,268,649	415,069,181	410,914,874
419,268,649	415,069,181	410,914,874
-	-	-
419,268,649	415,069,181	410,914,874
819,509,891	811,310,900	803,196,120
619,389,270	613,190,040	607,055,497
619,389,270	613,190,040	607,055,497
619,389,270	613,190,040	607,055,497
619,389,270	613,190,040	607,055,497
5,099,228,213,894	5,126,900,146,888	5,154,326,433,808
5,055,478,123,583	5,082,922,084,958	5,110,120,831,062
8,710,246,308,521	8,757,517,285,494	8,804,367,488,992
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43,714,694,156	43,943,014,554	44,170,904,607
43,714,694,156	43,943,014,554	44,170,904,607
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
1	1	1
10,523	4,065	2,179
10,523	4,065	2,179
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
-	-	-
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
-	-	-
43,676,993,740	43,901,523,950	44,125,653,446
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
383,861,972	380,017,740	376,214,555
383,861,972	380,017,740	376,214,555
8,710,210,901,844	8,757,482,234,053	8,804,332,788,673
8,710,210,901,844	8,757,482,234,053	8,804,332,788,673
8,710,210,901,844	8,757,482,234,053	8,804,332,788,673
8,710,210,901,844	8,757,482,234,053	8,804,332,788,673
43,676,993,740	43,901,523,950	44,125,653,446
43,676,993,740	43,901,523,950	44,125,653,446
-	-	-
40,410,346,121	40,620,562,047	40,830,390,231
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40,410,346,121	40,620,562,047	40,830,390,231
40,410,346,121	40,620,562,047	40,830,390,231
819,509,891	811,310,900	803,196,120
819,509,891	811,310,900	803,196,120
583,982,593	578,138,600	572,355,178
583,982,593	578,138,600	572,355,178
819,509,891	811,310,900	803,196,120
400	400	400
-	-	-
-	-	-
-	-	-
-	-	-
10,523	4,065	2,179
10,523	4,065	2,179
10,523	4,065	2,179
8,706,944,254,224	8,754,201,272,150	8,801,037,525,458
8,706,944,254,224	8,754,201,272,150	8,801,037,525,458
10,523	4,065	2,179
10,523	4,065	2,179
10,523	4,065	2,179
1	1	1
583,982,593	578,138,600	572,355,178
22,304,241,486	22,414,225,455	22,524,040,487
22,304,241,486	22,414,225,455	22,524,040,487
-	-	-
619,389,270	613,190,040	607,055,497
383,861,972	380,017,740	376,214,555
43,753,555,880	43,982,084,503	44,210,182,354
43,753,555,880	43,982,084,503	44,210,182,354
43,753,555,880	43,982,084,503	44,210,182,354
43,753,555,880	43,982,084,503	44,210,182,354
43,753,555,880	43,982,084,503	44,210,182,354
43,753,555,880	43,982,084,503	44,210,182,354
43,753,555,880	43,982,084,503	44,210,182,354
-	-	-
-	-	-
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5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,099,231,668,940	5,126,904,165,396	5,154,331,011,236

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5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
43,209,267,645	43,434,908,707	43,660,127,966
43,209,267,645	43,434,908,707	43,660,127,966
43,209,267,645	43,434,908,707	43,660,127,966
43,209,267,645	43,434,908,707	43,660,127,966
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
18,614,866,114	18,714,173,650	18,813,283,297
18,614,866,114	18,714,173,650	18,813,283,297
18,614,866,114	18,714,173,650	18,813,283,297
18,614,866,114	18,714,173,650	18,813,283,297
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
18,614,866,114	18,714,173,650	18,813,283,297
18,614,866,114	18,714,173,650	18,813,283,297
18,614,866,114	18,714,173,650	18,813,283,297
18,614,866,114	18,714,173,650	18,813,283,297
18,614,866,114	18,714,173,650	18,813,283,297
5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
-	-	-
-	-	-
-	-	-
-	-	-
22,304,241,486	22,414,225,455	22,524,040,487
22,304,241,486	22,414,225,455	22,524,040,487

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3,684,229,267,821	3,703,937,112,012	3,723,470,252,045
1	1	1
10,523	4,065	2,179
1,040,147,021,047	1,045,712,599,274	1,051,228,384,982
1,040,147,031,570	1,045,712,603,339	1,051,228,387,161
383,861,972	380,017,740	376,214,555
383,861,972	380,017,740	376,214,555
-	-	-
383,861,972	380,017,740	376,214,555
819,509,891	811,310,900	803,196,120
583,982,593	578,138,600	572,355,178
583,982,593	578,138,600	572,355,178
583,982,593	578,138,600	572,355,178
583,982,593	578,138,600	572,355,178
3,684,229,267,821	3,703,937,112,012	3,723,470,252,045
10,523	4,065	2,179
8,710,210,901,844	8,757,482,234,053	8,804,332,788,673
-	-	-
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Network_Element_Output.pure_lric.on_net

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Equipment expenditure trends

	1991	1992	1993	1994	1995

Equipment capital expenditure trends

Equipment capital expenditure trends

		1991	1992	1993	1994	1995
Line_cards	*Line_cards*	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%
Port_cards	*Port_cards*	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%
TDM_chassis	*TDM_chassis*	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%
IP_chassis	*IP_chassis*	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%
Active_transmission_equipment	*Active_transmis*	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%
Microwave	*Microwave*	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%
Service_platforms	*Service_platfor*	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%
Network_management_and_billing_platforms	*Network_mana*	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%
Sites	*Sites*	0.0%	0.0%	0.0%	0.0%	0.0%
Power	*Power*	2.0%	2.0%	2.0%	2.0%	2.0%
Air_conditioning	*Air_conditioning*	0.0%	0.0%	0.0%	0.0%	0.0%
Trench_civil_works	*Trench_civil_w*	3.0%	3.0%	3.0%	3.0%	3.0%
Fibre_cables	*Fibre_cables*	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%
Software	*Software*	-6.0%	-6.0%	-6.0%	-6.0%	-6.0%
Flat_real	*Flat_real*	0.0%	0.0%	0.0%	0.0%	0.0%

Capex_cost_trend_names

Equipment capital expenditure trends - by asset

Network element		1991	1992	1993	1994	1995
AN-Common: Site rental for core - PSTN	Sites	0.0%	0.0%	0.0%	0.0%	0.0%
spare	Flat_real	0.0%	0.0%	0.0%	0.0%	0.0%

Equipment operating expenditure trends

Equipment operating expenditure trends

		1991	1992	1993	1994	1995
Sites	*Sites*	-%	-%	-%	-%	-%
b	*b*	-%	-%	-%	-%	-%
c	*c*	-%	-%	-%	-%	-%
d	*d*	-%	-%	-%	-%	-%
e	*e*	-%	-%	-%	-%	-%
f	*f*	-%	-%	-%	-%	-%
g	*g*	-%	-%	-%	-%	-%
h	*h*	-%	-%	-%	-%	-%
i	*i*	-%	-%	-%	-%	-%
Flat_real	*Flat_real*	-%	-%	-%	-%	-%

Opex_cost_trend_names

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Equipment operating expenditure trends - by asset

Network element	Selected cost trend	1991	1992	1993	1994	1995
AN-Common: Site rental for core - PSTN	Sites	-%	-%	-%	-%	-%
AN-Common: Site rental for core - Other	Sites	-%	-%	-%	-%	-%
AN-Common: Air conditioning unit - PSTN	Flat_real	-%	-%	-%	-%	-%
AN-Common: UPS and Generator - PSTN	Flat_real	-%	-%	-%	-%	-%
AN-TDM: RSX processor/rack	Flat_real	-%	-%	-%	-%	-%
AN-TDM: RSX line card - PSTN	Flat_real	-%	-%	-%	-%	-%
AN-TDM: RSX line card - ISDN 2	Flat_real	-%	-%	-%	-%	-%
AN-TDM: RSX line card - ISDN 30	Flat_real	-%	-%	-%	-%	-%
AN-TDM: MDF splitter cards	Flat_real	-%	-%	-%	-%	-%
AN-TDM: Replacement of RSX processor/rack	Flat_real	-%	-%	-%	-%	-%
AN-IP: DSLAM processor/rack	Flat_real	-%	-%	-%	-%	-%
AN-IP: DSLAM line cards - xDSL	Flat_real	-%	-%	-%	-%	-%
AN-IP: DSLAM core-facing ports - 1GE electrical port	Flat_real	-%	-%	-%	-%	-%
AN-IP: DSLAM core-facing ports - 1GE optical port	Flat_real	-%	-%	-%	-%	-%
AN-Common: Air conditioning unit - Other	Flat_real	-%	-%	-%	-%	-%
AN-Common: UPS and Generator - Other	Flat_real	-%	-%	-%	-%	-%
AN-IP: mini-MSAN processor/rack	Flat_real	-%	-%	-%	-%	-%
AN-IP: MSAN processor/rack	Flat_real	-%	-%	-%	-%	-%
AN-IP: MSAN line card - PSTN	Flat_real	-%	-%	-%	-%	-%
AN-IP: MSAN line card - xDSL	Flat_real	-%	-%	-%	-%	-%
AN-IP: MSAN line card - splitter	Flat_real	-%	-%	-%	-%	-%
AN-IP: MSAN core-facing ports - 1GE electrical port	Flat_real	-%	-%	-%	-%	-%
AN-IP: MSAN core-facing ports - 1GE optical port	Flat_real	-%	-%	-%	-%	-%
AN-IP: layer 2 switch - chassis	Flat_real	-%	-%	-%	-%	-%
AN-IP: layer 2 switch - 48 x 1GE electrical ports card	Flat_real	-%	-%	-%	-%	-%
AN-IP: layer 2 switch - 1GE optical port adaptor	Flat_real	-%	-%	-%	-%	-%
AN-IP: layer 2 switch - 12 x 10GE optical ports card	Flat_real	-%	-%	-%	-%	-%
spare	Flat_real	-%	-%	-%	-%	-%
AN-IP: layer 3 edge router - chassis	Flat_real	-%	-%	-%	-%	-%
AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	Flat_real	-%	-%	-%	-%	-%
AN-IP: layer 3 edge router - 1GE optical port adaptor	Flat_real	-%	-%	-%	-%	-%
AN-IP: layer 3 edge router - 2 x 10GE optical ports card	Flat_real	-%	-%	-%	-%	-%
DN-Common: Site rental for core - PSTN	Sites	-%	-%	-%	-%	-%
DN-Common: Site rental for core - Other	Sites	-%	-%	-%	-%	-%
DN-Common: Air conditioning unit - PSTN	Flat_real	-%	-%	-%	-%	-%
DN-Common: UPS and Generator - PSTN	Flat_real	-%	-%	-%	-%	-%
DN-TDM: LS chassis/processor	Flat_real	-%	-%	-%	-%	-%
DN-TDM: LS switchblock	Flat_real	-%	-%	-%	-%	-%
DN-TDM: LS software	Flat_real	-%	-%	-%	-%	-%
DN-IP: distribution SBC - chassis	Flat_real	-%	-%	-%	-%	-%
DN-IP: distribution SBC - 1GE port card	Flat_real	-%	-%	-%	-%	-%
DN-IP: layer 3 distribution router - chassis	Flat_real	-%	-%	-%	-%	-%

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DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	Flat_real	-%	-%	-%	-%	-%
DN-IP: layer 3 distribution router - 1GE optical port adaptor	Flat_real	-%	-%	-%	-%	-%
DN-IP: layer 3 distribution router - 2 x 10GE optical port card	Flat_real	-%	-%	-%	-%	-%
DN-Common: Air conditioning unit - Other	Flat_real	-%	-%	-%	-%	-%
DN-Common: UPS and Generator - Other	Flat_real	-%	-%	-%	-%	-%
CN-Common: Site rental for core - PSTN	Sites	-%	-%	-%	-%	-%
CN-Common: Site rental for core - Other	Sites	-%	-%	-%	-%	-%
CN-Common: Air conditioning unit - PSTN	Flat_real	-%	-%	-%	-%	-%
CN-Common: UPS and Generator - PSTN	Flat_real	-%	-%	-%	-%	-%
CN-TDM: Call Server processor (softswitch)	Flat_real	-%	-%	-%	-%	-%
CN-TDM: Call Server software	Flat_real	-%	-%	-%	-%	-%
CN-TDM: Media Gateway switchblock	Flat_real	-%	-%	-%	-%	-%
CN-TDM: international gateway (IGW) processor	Flat_real	-%	-%	-%	-%	-%
CN-TDM: international gateway (IGW) switchblock	Flat_real	-%	-%	-%	-%	-%
CN-TDM: international gateway (IGW) software	Flat_real	-%	-%	-%	-%	-%
CN-TDM: interconnect ports - E1 ports	Flat_real	-%	-%	-%	-%	-%
CN-TDM: Media Gateway STM4 ATM ports	Flat_real	-%	-%	-%	-%	-%
CN-Common: Air conditioning unit - Other	Flat_real	-%	-%	-%	-%	-%
CN-Common: UPS and Generator - Other	Flat_real	-%	-%	-%	-%	-%
CN-IP: interco SBC - chassis	Flat_real	-%	-%	-%	-%	-%
CN-IP: interco SBC - 1GE port card	Flat_real	-%	-%	-%	-%	-%
CN-IP: Call Server processor (softswitch)	Flat_real	-%	-%	-%	-%	-%
CN-IP: Call Server software	Flat_real	-%	-%	-%	-%	-%
CN-TDM: interconnect trunk gateway (TGW)	Flat_real	-%	-%	-%	-%	-%
CN - Interconnect trunk gateway E1 ports	Flat_real	-%	-%	-%	-%	-%
CN-IP: layer 3 peering router - chassis	Flat_real	-%	-%	-%	-%	-%
CN-IP: layer 3 peering router - 4 x 1GE port card	Flat_real	-%	-%	-%	-%	-%
CN-IP: layer 3 peering router - 10 x 100Mbps port card	Flat_real	-%	-%	-%	-%	-%
CN-IP: layer 3 peering router - 10 x 10Mbps port card	Flat_real	-%	-%	-%	-%	-%
CN-IP: layer 2 services switch - chassis	Flat_real	-%	-%	-%	-%	-%
CN-IP: layer 2 services switch - 48 x 1GE ports card	Flat_real	-%	-%	-%	-%	-%
CN-IP: layer 2 services switch - 12 x 10GE optical ports card	Flat_real	-%	-%	-%	-%	-%
CN-IP: IP/MPLS router - chassis	Flat_real	-%	-%	-%	-%	-%
CN-IP: IP/MPLS router - 4 x 10GE port cards	Flat_real	-%	-%	-%	-%	-%
CN: BRAS	Flat_real	-%	-%	-%	-%	-%
CN: DNS	Flat_real	-%	-%	-%	-%	-%
CN: RADIUS	Flat_real	-%	-%	-%	-%	-%
CN: VAS, IN platforms	Flat_real	-%	-%	-%	-%	-%
CN: Billing system	Flat_real	-%	-%	-%	-%	-%
Network management system: common	Flat_real	-%	-%	-%	-%	-%
Clock and synchronisation equipment	Flat_real	-%	-%	-%	-%	-%
Network management system: PSTN	Flat_real	-%	-%	-%	-%	-%
Network management system: NGN voice	Flat_real	-%	-%	-%	-%	-%
CPE: terminal adaptor (Pure VoIP operator) - traffic related only	Flat_real	-%	-%	-%	-%	-%
Wireless links: antenna towers and ancillary	Flat_real	-%	-%	-%	-%	-%
Wireless links: transmission equipment	Flat_real	-%	-%	-%	-%	-%

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Wireless links: repeaters	Flat_real	-%	-%	-%	-%	-%
Access transmission - submarine fibre cables (km)	Flat_real	-%	-%	-%	-%	-%
Access transmission - terrestrial fibre cables (km)	Flat_real	-%	-%	-%	-%	-%
Access transmission - trench (km)	Flat_real	-%	-%	-%	-%	-%
Access transmission - ODF (12 fibre)	Flat_real	-%	-%	-%	-%	-%
Access transmission - PDH 2Mbps terminal	Flat_real	-%	-%	-%	-%	-%
Access transmission - PDH 8Mbps terminal	Flat_real	-%	-%	-%	-%	-%
Access transmission - SDH STM-0 ADM	Flat_real	-%	-%	-%	-%	-%
Access transmission - SDH STM-1 ADM	Flat_real	-%	-%	-%	-%	-%
Access transmission - SDH STM-4 ADM	Flat_real	-%	-%	-%	-%	-%
Access transmission - SDH STM-16 ADM	Flat_real	-%	-%	-%	-%	-%
Access transmission - SDH STM-64 ADM	Flat_real	-%	-%	-%	-%	-%
Access transmission - SDH regenerator	Flat_real	-%	-%	-%	-%	-%
Access transmission - STM4 cross-connect	Flat_real	-%	-%	-%	-%	-%
Access transmission - CWDM ADM	Flat_real	-%	-%	-%	-%	-%
Access transmission - CWDM Terminal	Flat_real	-%	-%	-%	-%	-%
Access transmission - CWDM 1GE transponder	Flat_real	-%	-%	-%	-%	-%
Access transmission - CWDM 10GE transponder	Flat_real	-%	-%	-%	-%	-%
Access transmission - leased dark fibre DSLAM/MSAN-ER	Flat_real	-%	-%	-%	-%	-%
Access transmission - leased dark fibre ER-DR	Flat_real	-%	-%	-%	-%	-%
Access transmission - Ethernet leased lines DSLAM/MSAN-ER	Flat_real	-%	-%	-%	-%	-%
Access transmission - Ethernet leased lines ER-DR	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - submarine fibre cables (km)	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - terrestrial fibre cables (km)	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - trench (km)	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - ODF (48-fibre)	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - SDH STM-0 ADM	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - SDH STM-1 ADM	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - SDH STM-4 ADM	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - SDH STM-16 ADM	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - SDH STM-64 ADM	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - SDH regenerator	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - STM16 cross-connect	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - DWDM ADM	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - DWDM Terminal	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - DWDM 10GE transponder	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - DWDM 40GE transponder	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - leased dark fibre DR-CR	Flat_real	-%	-%	-%	-%	-%
Distribution transmission - Ethernet signal amplifier	Flat_real	-%	-%	-%	-%	-%
Core transmission - submarine fibre cables (km)	Flat_real	-%	-%	-%	-%	-%
Core transmission - terrestrial fibre cables (km)	Flat_real	-%	-%	-%	-%	-%
Core transmission - trench (km)	Flat_real	-%	-%	-%	-%	-%
Core transmission - ODF (96-fibre)	Flat_real	-%	-%	-%	-%	-%
Core transmission - SDH STM-0 ADM	Flat_real	-%	-%	-%	-%	-%
Core transmission - SDH STM-1 ADM	Flat_real	-%	-%	-%	-%	-%
Core transmission - SDH STM-4 ADM	Flat_real	-%	-%	-%	-%	-%

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Core transmission - SDH STM-16 ADM	Flat_real	-%	-%	-%	-%	-%
Core transmission - SDH STM-64 ADM	Flat_real	-%	-%	-%	-%	-%
Core transmission - SDH regenerator	Flat_real	-%	-%	-%	-%	-%
Core transmission - STM64 cross-connect	Flat_real	-%	-%	-%	-%	-%
Core transmission - DWDM ADM	Flat_real	-%	-%	-%	-%	-%
Core transmission - DWDM 40GE transponder	Flat_real	-%	-%	-%	-%	-%
Core transmission - DWDM signal amplifier	Flat_real	-%	-%	-%	-%	-%
Core transmission - leased dark fibre CR-CR	Flat_real	-%	-%	-%	-%	-%
Core transmission - Ethernet signal amplifier	Flat_real	-%	-%	-%	-%	-%
Access transmission - Ethernet signal amplifier	Flat_real	-%	-%	-%	-%	-%
Decommissioning of RSX	Flat_real	-%	-%	-%	-%	-%
Decommissioning of LS	Flat_real	-%	-%	-%	-%	-%
Decommissioning of MGW	Flat_real	-%	-%	-%	-%	-%
Decommissioning of CS	Flat_real	-%	-%	-%	-%	-%
Business Overheads (Capex)	Flat_real	-%	-%	-%	-%	-%
Business Overheads (Opex)	Flat_real	-%	-%	-%	-%	-%
NGN DSLAM - processor/rack	Flat_real	-%	-%	-%	-%	-%
NGN DSLAM - POTS line card	Flat_real	-%	-%	-%	-%	-%
NGN DSLAM - xDSL line card	Flat_real	-%	-%	-%	-%	-%
NGN DSLAM - fibre line card	Flat_real	-%	-%	-%	-%	-%
NGN DSLAM - splitter	Flat_real	-%	-%	-%	-%	-%
CN-IP: PE router - chassis	Flat_real	-%	-%	-%	-%	-%
CN-IP: PE router - 4x1GE port cards	Flat_real	-%	-%	-%	-%	-%
spare	Flat_real	-%	-%	-%	-%	-%
CN-IP: Distribution SBC - software licences	Flat_real	-%	-%	-%	-%	-%
CN-IP: Interconnect SBC - software licences	Flat_real	-%	-%	-%	-%	-%
IMS core: CS - upgrades (subscriber-driven)	Flat_real	-%	-%	-%	-%	-%
IMS core: CS - upgrades (voice-driven)	Flat_real	-%	-%	-%	-%	-%
IMS core: MTAS (Residential voice services)	Flat_real	-%	-%	-%	-%	-%
IMS core: MTAS (Business voice and ISDN)	Flat_real	-%	-%	-%	-%	-%
NGN DSLAM - mini-processor/rack	Flat_real	-%	-%	-%	-%	-%
CN-IP: layer 2 services switch - 12 x 40GE optical ports card	Flat_real	-%	-%	-%	-%	-%
DN-IP: layer 3 distribution router - 2 x 40GE optical port card	Flat_real	-%	-%	-%	-%	-%
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1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
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-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%
-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%
-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%
-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%
-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%
-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%
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2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017

AM-note: updated sites trend to correspond to v8F model

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%
-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%
-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%	-5.0%
-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%	-9.0%
-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%	-7.0%
-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%	-10.0%
-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%	-8.0%
-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%
5.0%	5.0%	2.50%	2.50%	2.50%	2.50%	-%	0.0%	0.0%	0.0%	0.0%
2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%	-4.0%
-6.0%	-6.0%	-6.0%	-6.0%	-6.0%	-6.0%	-6.0%	-6.0%	-6.0%	-6.0%	-6.0%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
5.0%	5.0%	2.5%	2.5%	2.5%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

AM-note: updated sites trend to correspond to v8F model

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028

2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
-4.0%	-4.0%	-4.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
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-5.0%	-5.0%	-5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
-9.0%	-9.0%	-9.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
-7.0%	-7.0%	-7.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
-10.0%	-10.0%	-10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
-8.0%	-8.0%	-8.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
-2.0%	-2.0%	-2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
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0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
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-6.0%	-6.0%	-6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
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2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
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2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039

2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
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2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
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2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050

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Capex_trend_Line_cards
Capex_trend_Port_cards
Capex_trend_TDM_chassis
Capex_trend_IP_chassis
Capex_trend_Active_transmission_equipment
Capex_trend_Microwave
Capex_trend_Service_platforms
Capex_trend_Network_management_and_billing_platforms
Capex_trend_Sites
Capex_trend_Power
Capex_trend_Air_conditioning
Capex_trend_Trench_civil_works
Capex_trend_Fibre_cables
Capex_trend_Software
Capex_trend_Flat_real

Capex index

1991	1992	1993	1994	1995	1996	1997	1998	1999
1.00	100%	100%	100%	100%	100%	100%	100%	100%
51.00	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%

Unit.Capex_Cost_Trend

Opex_trend_Sites
Opex_trend_b
Opex_trend_c
Opex_trend_d
Opex_trend_e
Opex_trend_f
Opex_trend_g
Opex_trend_h
Opex_trend_i
Opex_trend_Flat_real

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Opex index

1991	1992	1993	1994	1995	1996	1997	1998	1999
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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Unit.opex_cost_trend

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2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
100%	100%	105%	110%	116%	122%	128%	134%	141%	148%	151%
5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%

Capex_index_2009

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2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1.00	1.00	1.02	1.04	1.06	1.08	1.10	1.13	1.15	1.17	1.14
1.00	1.00	1.02	1.04	1.06	1.08	1.10	1.13	1.15	1.17	1.14
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.02	1.04	1.06	1.08	1.10	1.13	1.15	1.17	1.14
1.00	1.00	1.02	1.04	1.06	1.08	1.10	1.13	1.15	1.17	1.14
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.02	1.04	1.06	1.08	1.10	1.13	1.15	1.17	1.14
1.00	1.00	1.02	1.04	1.06	1.08	1.10	1.13	1.15	1.17	1.14
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
155%	159%	163%	163%	163%	163%	163%	163%	163%	163%	163%
5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%

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2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1.10	1.07	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.10	1.07	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.10	1.07	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.10	1.07	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.10	1.07	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.10	1.07	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
163%	163%	163%	163%	163%	163%	163%	163%	163%	163%	163%
5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%

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2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
163%	163%	163%	163%	163%	163%	163%	163%	163%	163%	163%
5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%

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2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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2044	2045	2046	2047	2048	2049	2050
163%	163%	163%	163%	163%	163%	163%
5,100%	5,100%	5,100%	5,100%	5,100%	5,100%	5,100%

Capex index * Output

1991	1992
-	25,835,136,276
-	-

Capex_cost_index

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Opex index * Output

2044	2045	2046	2047	2048	2049	2050	1991	1992
1.04	1.04	1.04	1.04	1.04	1.04	1.04	-	25,835,136,276
1.04	1.04	1.04	1.04	1.04	1.04	1.04	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	25,835,136,276
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	25,835,136,276
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	25,835,136,276
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	1
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	1
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	1
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	25,835,136,276
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.04	1.04	1.04	1.04	1.04	1.04	1.04	-	25,100,978,285
1.04	1.04	1.04	1.04	1.04	1.04	1.04	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	25,100,978,285
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	25,100,978,285
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	25,100,978,285
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	25,100,978,285
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	25,100,978,285
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.04	1.04	1.04	1.04	1.04	1.04	1.04	-	15,376,872,374
1.04	1.04	1.04	1.04	1.04	1.04	1.04	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	15,376,872,374
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	15,376,872,374
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	1
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	1,901,585,788
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	196,923,001,020
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	196,923,001,020
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	14,394,877,291
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	208,363,260,003
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	206,894,944,022
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	206,894,944,022
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	206,894,944,022
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	206,894,944,022
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	206,894,944,022
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	206,894,944,022
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	206,894,944,022
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	206,894,944,022
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	206,894,944,022
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	206,894,944,022
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	184,770,793,059
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	184,770,793,059
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	184,770,793,059
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	184,770,793,059
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	182,528,123,727
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	2,242,669,332
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	2,242,669,332
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	2,242,669,332
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	184,770,793,059
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	184,770,793,059
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	25,835,136,276
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	25,100,978,285
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	15,376,872,374
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	14,394,877,291
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	196,923,001,020
1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	196,923,001,020
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0

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1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0
1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0

Opex_cost_index

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1993	1994	1995	1996	1997	1998	1999	2000
26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163	42,299,605,287
-	-	-	-	-	-	-	-

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1993	1994	1995	1996	1997	1998	1999	2000
26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163	42,299,605,287
189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,544,148,493
26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163	42,299,605,287
26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163	42,299,605,287
26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163	42,299,605,287
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
-	-	-	-	-	-	-	173,243
26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163	42,299,605,287
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,544,148,493
189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,544,148,493
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364	41,552,820,352
189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004	225,471,934,835	237,497,277,659	235,633,681,277	232,346,742,493
25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364	41,552,820,352
25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364	41,552,820,352
25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364	41,552,820,352
25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364	41,552,820,352
25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364	41,552,820,352
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	200,000,000	560,000,000	1,180,000,000	2,159,148,000	4,223,526,000	9,671,650,000	14,802,767,243

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-	200,000,000	560,000,000	1,180,000,000	2,159,148,000	4,223,526,000	9,671,650,000	14,802,767,243
-	200,000,000	560,000,000	1,180,000,000	2,159,148,000	4,223,526,000	9,671,650,000	14,802,767,243
-	-	-	-	-	-	-	173,243
189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004	225,471,934,835	237,497,277,659	235,633,681,277	232,346,742,493
189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004	225,471,934,835	237,497,277,659	235,633,681,277	232,346,742,493
15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077	25,413,670,298
189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004	224,392,360,835	235,385,514,659	230,797,856,277	224,945,445,493
15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077	25,413,670,298
15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077	25,413,670,298
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004	224,392,360,835	235,385,514,659	230,797,856,277	224,945,445,493
189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004	224,392,360,835	235,385,514,659	230,797,856,277	224,945,445,493
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243
-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243
-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243
-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243
-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243
-	-	-	-	-	-	-	173,243
-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243
-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243
1	1	1	1	1	1	1	1
1,959,736,464	2,173,822,333	2,778,504,801	3,477,222,017	4,076,264,960	4,728,595,541	7,099,403,479	11,006,911,265
204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256	249,132,604,857
204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256	249,132,604,857
14,835,074,016	15,454,768,537	16,378,116,102	17,439,293,460	18,441,403,379	19,913,751,541	25,423,837,978	31,588,456,363
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,753,780
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,753,780

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216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,753,780
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,753,780
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,753,780
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,753,780
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,753,780
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,580,537
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,580,537
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,580,537
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,580,537
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,580,537
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,580,537
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,580,537
216,437,588,333	224,968,576,565	233,873,410,304	243,321,848,976	253,230,333,854	264,220,287,646	262,639,123,440	259,843,580,537
189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
214,924,371,109	223,421,573,069	232,316,499,746	241,764,830,677	251,687,860,152	262,706,767,684	261,106,001,842	258,350,183,911
214,924,371,109	223,421,573,069	232,316,499,746	241,764,830,677	251,687,860,152	262,706,767,684	261,106,001,842	258,350,183,911
214,924,371,109	223,421,573,069	232,316,499,746	241,764,830,677	251,687,860,152	262,706,767,684	261,106,001,842	258,350,183,911
214,924,371,109	223,421,573,069	232,316,499,746	241,764,830,677	251,687,860,152	262,706,767,684	261,106,001,842	258,350,183,911
214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842	250,948,713,668
214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842	250,948,713,668
214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842	250,948,713,668
214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842	250,948,713,668
214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842	250,948,713,668
214,924,371,109	223,321,573,069	232,036,499,746	241,174,830,677	250,608,286,152	260,595,004,684	256,270,176,842	250,948,713,668
189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250
-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243
-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243
-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243
-	100,000,000	280,000,000	590,000,000	1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243
-	-	-	-	-	-	-	173,243
-	-	-	-	-	-	-	173,243
192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789
192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789
192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789
192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789
189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250
189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250
189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250

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189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250
189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250
189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250
189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004	223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250
2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221	3,569,473,088	4,597,302,500	7,545,302,378	10,382,246,539
2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221	3,569,473,088	4,597,302,500	7,545,302,378	10,382,246,539
2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221	3,569,473,088	4,597,302,500	7,545,302,378	10,382,246,539
192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789
192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225	226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789
-	-	-	-	-	-	-	173,243
26,625,177,214	27,466,132,827	28,320,457,085	29,202,218,972	29,917,547,019	30,946,535,987	36,677,092,163	42,299,605,287
25,868,568,602	26,692,631,080	27,542,001,806	28,423,709,822	29,146,310,168	30,189,776,006	35,910,531,364	41,552,820,352
15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221	18,366,087,871	18,792,562,744	21,537,261,077	25,413,670,298
14,835,074,016	15,454,768,537	16,378,116,102	17,439,293,460	18,441,403,379	19,913,751,541	25,423,837,978	31,588,456,363
204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256	249,132,604,857
204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465	241,754,190,215	253,187,503,201	251,385,869,256	249,132,604,857
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0	0	0	0	0	0	0	0
0	100000000	280000000	590000000	1079574000	2111763000	4835825000	7401470243
0	0	0	0	0	0	0	173242.8123
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0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

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2001	2002	2003	2004	2005	2006	2007	2008
42,952,459,396	41,029,881,306	39,940,828,874	35,618,389,669	30,092,831,995	24,795,815,443	21,207,850,198	18,023,956,841
-	-	-	-	-	-	-	-

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2001	2002	2003	2004	2005	2006	2007	2008
42,952,459,396	39,857,598,983	37,691,100,554	32,651,782,800	26,798,257,218	21,450,269,780	17,822,223,402	14,713,847,402
233,826,022,162	216,322,739,017	207,921,312,148	271,817,502,316	369,393,229,972	408,877,800,584	378,057,864,536	465,943,167,053
42,952,459,396	39,076,077,434	36,227,509,183	30,768,504,195	24,757,447,356	19,428,170,219	15,825,624,348	12,809,289,622
42,952,459,396	39,076,077,434	36,227,509,183	30,768,504,195	24,757,447,356	19,428,170,219	15,825,624,348	12,809,289,622
42,952,459,396	39,076,077,434	36,227,509,183	30,768,504,195	24,757,447,356	19,428,170,219	15,825,624,348	12,809,289,622
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436	69,067,588,422
42,952,459,396	39,076,077,434	36,227,509,183	30,768,504,195	24,757,447,356	19,428,170,219	15,825,624,348	12,809,289,622
6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436	69,067,588,422
6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436	69,067,588,422
6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436	69,067,588,422
6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436	69,067,588,422
233,826,022,162	212,081,116,684	199,847,474,191	256,139,703,353	341,262,245,914	370,333,221,445	335,704,564,518	405,631,566,734
233,826,022,162	212,081,116,684	199,847,474,191	256,139,703,353	341,262,245,914	370,333,221,445	335,704,564,518	405,631,566,734
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520
6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520
6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520
6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520
-	-	-	-	-	-	-	-
6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520
6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520
6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520
6,423,403	67,087,305	10,775,788,329	43,989,271,850	89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520
42,299,321,455	39,304,814,438	37,213,942,213	32,271,240,219	26,481,452,399	21,187,099,455	17,599,529,101	14,524,292,128
251,272,022,162	233,001,779,017	223,052,085,278	283,243,782,177	378,322,100,978	420,678,715,043	401,486,047,388	518,238,977,218
42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182	12,644,270,349
42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182	12,644,270,349
42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182	12,644,270,349
42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182	12,644,270,349
42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182	12,644,270,349
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565	97,456,098,126	133,318,768,931	162,869,793,963	244,779,172,358

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17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565	97,456,098,126	133,318,768,931	162,869,793,963	244,779,172,358
17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565	97,456,098,126	133,318,768,931	162,869,793,963	244,779,172,358
6,423,403	67,087,305	10,673,289,113	43,784,510,565	90,724,098,126	130,100,956,931	161,259,823,570	244,133,010,358
251,272,022,162	228,433,116,684	214,390,700,960	266,906,942,067	349,511,142,553	381,021,673,254	356,508,120,428	451,158,216,572
251,272,022,162	228,433,116,684	214,390,700,960	266,906,942,067	349,511,142,553	381,021,673,254	356,508,120,428	451,158,216,572
26,714,338,889	25,884,603,065	26,041,679,144	24,564,983,396	21,596,453,229	18,655,994,883	16,288,724,890	13,992,937,415
242,549,022,162	224,662,259,017	213,659,658,059	270,026,733,496	363,553,100,360	407,225,739,149	388,620,676,978	505,666,174,792
26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554	12,181,694,095
26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554	12,181,694,095
-	-	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958	12,016,251,712
-	-	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958	12,016,251,712
-	-	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554	12,181,694,095
-	-	988,133,257	888,012,665	907,029,530	909,913,980	908,190,111	896,776,247
-	-	988,133,257	888,012,665	907,029,530	909,913,980	908,190,111	896,776,247
-	-	988,133,257	888,012,665	907,029,530	909,913,980	908,190,111	896,776,247
-	-	8,240	8,240	7,600	6,960	6,320	5,680
-	-	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554	12,181,694,095
242,549,022,162	220,257,116,684	205,362,993,137	254,452,221,898	335,866,868,885	368,836,898,503	345,084,039,682	440,212,835,446
242,549,022,162	220,257,116,684	205,362,993,137	254,452,221,898	335,866,868,885	368,836,898,503	345,084,039,682	440,212,835,446
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
8,729,423,403	8,243,087,305	7,645,260,647	6,937,042,484	8,673,804,800	16,112,803,801	34,602,618,633	69,390,669,422
8,729,423,403	8,243,087,305	7,645,260,647	6,937,042,484	8,673,804,800	16,112,803,801	34,602,618,633	69,390,669,422
8,729,423,403	8,243,087,305	7,645,260,647	6,937,042,484	8,673,804,800	16,112,803,801	34,602,618,633	69,390,669,422
8,729,423,403	8,243,087,305	16,291,307,274	42,301,790,395	83,811,824,458	121,133,994,180	151,445,713,218	233,833,791,232
8,729,423,403	8,243,087,305	16,291,307,274	42,301,790,395	83,811,824,458	121,133,994,180	151,445,713,218	233,833,791,232
6,423,403	67,087,305	322,397,655	1,451,042,484	5,307,804,800	14,503,897,801	33,797,633,436	69,067,588,422
8,729,423,403	8,243,087,305	7,645,260,647	6,937,042,484	8,673,804,800	16,112,803,801	34,602,618,633	69,390,669,422
8,729,423,403	8,243,087,305	7,645,260,647	6,937,042,484	8,673,804,800	16,112,803,801	34,602,618,633	69,390,669,422
1	1	1	1	1	1	1	1
13,621,756,267	14,035,901,288	14,868,721,908	14,592,347,178	12,850,122,291	11,048,680,259	9,574,114,150	8,106,580,307
267,960,340,615	244,153,787,226	225,298,593,318	261,754,617,857	321,325,876,735	333,854,344,660	296,196,239,120	352,678,866,515
267,960,340,615	244,153,787,226	225,298,593,318	261,754,617,857	321,325,876,735	333,854,344,660	296,196,239,120	352,678,866,515
34,134,318,453	32,072,670,542	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958	12,016,251,712
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769	418,687,886,592
276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769	418,687,886,592

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276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769	418,687,886,592
276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769	418,687,886,592
276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769	418,687,886,592
276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769	418,687,886,592
276,778,481,558	251,157,194,117	236,119,847,712	287,053,389,218	366,258,722,891	390,024,472,976	351,761,038,769	418,687,886,592
276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812	219,188,333,836
276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812	219,188,333,836
276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812	219,188,333,836
276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812	219,188,333,836
276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812	219,188,333,836
276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812	219,188,333,836
276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812	219,188,333,836
276,772,058,155	251,090,106,812	225,299,195,045	242,918,935,698	276,812,491,783	267,131,074,542	209,463,950,812	219,188,333,836
233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214
6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755
6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755
6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755
6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755
6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755
6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755
6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755
6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755
275,472,205,677	250,073,302,853	234,890,123,993	285,442,998,272	366,053,256,403	395,786,690,972	369,474,137,409	462,073,764,772
275,472,205,677	250,073,302,853	234,890,123,993	285,442,998,272	366,053,256,403	395,786,690,972	369,474,137,409	462,073,764,772
275,472,205,677	250,073,302,853	234,890,123,993	285,442,998,272	366,053,256,403	395,786,690,972	369,474,137,409	462,073,764,772
275,472,205,677	250,073,302,853	234,890,123,993	285,442,998,272	366,053,256,403	395,786,690,972	369,474,137,409	462,073,764,772
266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284	218,535,214,289
266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284	218,535,214,289
266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284	218,535,214,289
266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284	218,535,214,289
266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284	218,535,214,289
266,742,782,274	241,830,215,548	217,059,072,650	236,715,748,151	272,861,134,417	265,045,445,599	208,263,473,284	218,535,214,289
233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214
8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124	243,538,550,483
8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124	243,538,550,483
8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124	243,538,550,483
8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121	93,192,121,986	130,741,245,372	161,210,664,124	243,538,550,483
6,423,403	67,087,305	10,508,188,351	43,241,250,121	89,826,121,986	129,132,339,372	160,405,678,928	243,215,469,483
6,423,403	67,087,305	10,508,188,351	43,241,250,121	89,826,121,986	129,132,339,372	160,405,678,928	243,215,469,483
245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600	308,644,154,872
245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600	308,644,154,872
245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600	308,644,154,872
245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600	308,644,154,872
233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214
233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214
233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214

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233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214
233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214
233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214
233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503	252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214
11,822,572,131	11,225,392,371	14,074,439,874	23,266,785,096	40,195,490,658	55,868,743,519	66,347,638,136	102,265,110,658
11,822,572,131	11,225,392,371	14,074,439,874	23,266,785,096	40,195,490,658	55,868,743,519	66,347,638,136	102,265,110,658
11,822,572,131	11,225,392,371	14,074,439,874	23,266,785,096	40,195,490,658	55,868,743,519	66,347,638,136	102,265,110,658
245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600	308,644,154,872
245,642,170,891	223,239,421,749	203,146,125,736	235,417,216,598	292,250,535,085	303,571,647,842	259,985,964,600	308,644,154,872
6,423,403	67,087,305	10,820,652,666	44,134,453,520	89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755
42,952,459,396	39,076,077,434	36,227,509,183	30,768,504,195	24,757,447,356	19,428,170,219	15,825,624,348	12,809,289,622
42,299,321,455	38,534,131,802	35,768,879,481	30,409,910,422	24,464,768,673	19,189,808,747	15,627,878,182	12,644,270,349
26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502	19,951,784,534	16,897,309,353	14,463,921,554	12,181,694,095
34,134,318,453	32,072,670,542	30,655,382,295	26,811,438,352	21,893,814,353	17,452,792,219	14,510,551,958	12,016,251,712
267,960,340,615	244,153,787,226	225,298,593,318	261,754,617,857	321,325,876,735	333,854,344,660	296,196,239,120	352,678,866,515
267,960,340,615	244,153,787,226	225,298,593,318	261,754,617,857	321,325,876,735	333,854,344,660	296,196,239,120	352,678,866,515
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
8729423403	8243087305	7645260647	6937042484	8673804800	16112803801	34602618633	69390669422
6423402.513	67087305.09	10673289113	43784510565	90724098126	1.30101E+11	1.6126E+11	2.44133E+11
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

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2009	2010	2011	2012	2013	2014	2015	2016
14,106,863,479	12,626,798,045	10,839,070,072	9,417,940,749	2,201,626,813	1,403,667,317	811,083,112	361,286,356
-	-	-	-	-	-	-	-

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2009	2010	2011	2012	2013	2014	2015	2016
11,187,098,062	9,476,066,171	7,697,943,925	6,329,749,775	1,400,303,463	892,776,284	515,874,209	229,789,414
616,034,594,344	721,546,259,204	856,676,696,949	1,000,688,052,691	849,855,098,118	1,077,813,619,490	1,354,400,118,195	1,442,475,526,189
9,548,080,478	8,337,867,252	6,982,804,780	5,919,294,736	1,350,000,258	860,705,016	497,342,422	221,534,672
9,548,080,478	8,337,867,252	6,982,804,780	5,919,294,736	1,350,000,258	860,705,016	497,342,422	221,534,672
9,548,080,478	8,337,867,252	6,982,804,780	5,919,294,736	1,350,000,258	860,705,016	497,342,422	-
1	1	1	1	1	1	1	-
1	1	1	1	1	1	1	-
1	1	1	1	1	1	1	-
128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222	-
9,548,080,478	8,337,867,252	6,982,804,780	5,919,294,736	1,350,000,258	860,705,016	497,342,422	-
128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222	-
128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222	-
128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222	-
128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222	-
525,779,594,593	634,879,159,380	777,091,414,676	935,798,054,217	819,325,690,841	1,039,095,241,463	1,305,745,903,006	1,390,657,371,633
525,779,594,593	634,879,159,380	777,091,414,676	935,798,054,217	819,325,690,841	1,039,095,241,463	1,305,745,903,006	1,390,657,371,633
-	-	-	-	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
-	-	-	-	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
-	-	-	-	1	1	1	1
-	-	-	-	579,763,855,232	797,232,560,317	1,052,267,668,222	1,346,751,304,629
-	-	-	-	579,763,855,232	797,232,560,317	1,052,267,668,222	1,346,751,304,629
-	-	-	-	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
-	-	-	-	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
-	-	-	-	-	-	-	-
276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253	653,508,340,817	857,039,667,626	1,103,227,185,393	1,390,657,371,633
11,040,218,881	9,355,420,085	7,605,677,274	6,256,976,050	1,385,126,436	883,755,082	511,244,559	227,761,736
715,137,743,606	902,740,396,799	1,147,182,978,864	1,437,845,050,687	1,279,258,202,374	1,668,409,242,944	2,133,986,799,713	2,440,260,676,705
9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083	219,579,834
9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083	219,579,834
9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083	-
9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083	-
9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083	-
-	-	-	-	3,551,290,709	3,239,145,673	2,962,716,574	2,793,481,402
-	-	-	-	3,551,290,709	3,239,145,673	2,962,716,574	2,793,481,402
360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967	1,067,485,965,737	1,426,419,281,004	1,854,808,717,139	2,352,599,012,706

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360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967	1,067,485,965,737	1,426,419,281,004	1,854,808,717,139	2,352,599,012,706
360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967	1,067,485,965,737	1,426,419,281,004	1,854,808,717,139	2,352,599,012,706
360,436,263,992	540,684,035,942	775,011,939,212	1,102,353,459,634	1,067,407,299,070	1,426,360,281,004	1,854,769,383,806	2,352,599,012,706
610,363,178,243	794,309,522,013	1,040,609,657,194	1,344,607,439,931	1,233,303,315,761	1,608,474,854,842	2,057,327,434,752	2,352,599,012,706
610,363,178,243	794,309,522,013	1,040,609,657,194	1,344,607,439,931	1,233,303,315,761	1,608,474,854,842	2,057,327,434,752	2,352,599,012,706
10,912,631,482	9,369,896,168	7,761,090,624	6,366,876,442	1,282,568,408	827,719,131	486,498,266	229,326,721
700,807,443,214	890,147,241,937	1,136,180,884,535	1,428,753,413,306	1,273,390,743,827	1,663,617,855,658	2,129,913,085,354	2,436,738,274,345
9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753	221,088,601
9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753	221,088,601
8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242	-
8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242	-
9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753	-
330,965,059	342,184,679	345,337,498	301,553,214	71,737,777	46,443,553	27,160,589	-
330,965,059	342,184,679	345,337,498	301,553,214	71,737,777	46,443,553	27,160,589	-
330,965,059	342,184,679	345,337,498	301,553,214	71,737,777	46,443,553	27,160,589	-
4,800	4,160	4,160	4,160	1,440	1,440	1,440	-
9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753	-
598,132,404,841	783,228,969,005	1,030,629,657,648	1,336,105,353,244	1,227,646,634,359	1,603,855,588,914	2,053,400,060,734	2,349,203,145,866
598,132,404,841	783,228,969,005	1,030,629,657,648	1,336,105,353,244	1,227,646,634,359	1,603,855,588,914	2,053,400,060,734	2,349,203,145,866
-	-	-	-	2,780,464,207	2,647,518,869	2,561,079,466	2,506,464,829
-	-	-	-	2,780,464,207	2,647,518,869	2,561,079,466	2,506,464,829
-	-	-	-	3,165,877,458	2,943,332,271	2,761,898,020	2,649,973,116
-	-	-	-	3,165,877,458	2,943,332,271	2,761,898,020	2,649,973,116
-	-	-	-	2,780,464,207	2,647,518,869	2,561,079,466	2,506,464,829
-	-	-	-	1,160	1,080	1,080	1,040
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
128,390,210,414	224,642,459,268	370,159,859,698	573,299,451,712	579,803,188,565	797,262,060,317	1,052,287,334,889	1,346,751,304,629
128,390,210,414	224,642,459,268	370,159,859,698	573,299,451,712	579,803,188,565	797,262,060,317	1,052,287,334,889	1,346,751,304,629
128,390,210,414	224,642,459,268	370,159,859,698	573,299,451,712	579,803,188,565	797,262,060,317	1,052,287,334,889	1,346,751,304,629
348,482,550,591	529,801,012,934	765,149,939,666	1,093,949,706,280	1,061,829,284,335	1,421,800,015,077	1,850,881,343,121	2,349,203,145,866
348,482,550,591	529,801,012,934	765,149,939,666	1,093,949,706,280	1,061,829,284,335	1,421,800,015,077	1,850,881,343,121	2,349,203,145,866
128,251,680,414	224,543,694,268	370,100,859,698	573,250,285,046	579,763,855,232	797,232,560,317	1,052,267,668,222	1,346,751,304,629
128,390,210,414	224,642,459,268	370,159,859,698	573,299,451,712	579,803,188,565	797,262,060,317	1,052,287,334,889	1,346,751,304,629
128,390,210,414	224,642,459,268	370,159,859,698	573,299,451,712	579,803,188,565	797,262,060,317	1,052,287,334,889	1,346,751,304,629
1	1	1	1	1	1	1	1
6,229,434,669	5,590,560,632	4,881,438,668	4,161,452,829	3,449,582,859	3,004,423,491	2,683,206,931	2,426,470,096
460,708,822,683	564,308,874,114	713,086,649,918	881,302,351,113	785,165,923,177	1,011,378,790,825	1,282,064,366,798	1,370,200,794,877
460,708,822,683	564,308,874,114	713,086,649,918	881,302,351,113	785,165,923,177	1,011,378,790,825	1,282,064,366,798	1,370,200,794,877
8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242	222,606,183
-	-	-	-	3,165,877,458	2,943,332,271	2,761,898,020	2,649,973,116
-	-	-	-	3,551,290,709	3,239,145,673	2,962,716,574	2,793,481,402
535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231	1,390,920,142,599
535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231	1,390,920,142,599

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535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231	1,390,920,142,599
535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231	1,390,920,142,599
535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231	1,390,920,142,599
535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231	1,390,920,142,599
535,579,596,808	643,460,294,087	784,275,515,100	941,875,136,794	820,761,188,292	1,040,020,155,289	1,306,294,360,231	1,390,920,142,599
259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035	221,534,672
259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035	221,534,672
259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035	221,534,672
259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035	221,534,672
259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035	221,534,672
259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035	221,534,672
259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035	221,534,672
259,197,934,728	261,765,823,322	272,462,522,762	248,074,941,700	167,167,350,283	182,916,278,853	203,016,060,035	221,534,672
249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613	-
276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196	1,390,698,607,927
276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196	1,390,698,607,927
276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196	1,390,698,607,927
276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196	1,390,698,607,927
276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196	1,390,698,607,927
276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196	1,390,698,607,927
276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196	1,390,698,607,927
276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196	1,390,698,607,927
618,440,803,898	801,325,296,463	1,046,550,853,054	1,349,696,642,867	1,233,891,189,747	1,608,678,903,502	2,057,249,231,166	2,352,317,727,984
618,440,803,898	801,325,296,463	1,046,550,853,054	1,349,696,642,867	1,233,891,189,747	1,608,678,903,502	2,057,249,231,166	2,352,317,727,984
618,440,803,898	801,325,296,463	1,046,550,853,054	1,349,696,642,867	1,233,891,189,747	1,608,678,903,502	2,057,249,231,166	2,352,317,727,984
618,440,803,898	801,325,296,463	1,046,550,853,054	1,349,696,642,867	1,233,891,189,747	1,608,678,903,502	2,057,249,231,166	2,352,317,727,984
258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691	217,624,996
258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691	217,624,996
258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691	217,624,996
258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691	217,624,996
258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691	217,624,996
258,808,684,795	261,454,748,480	272,236,132,609	247,889,665,663	167,098,753,307	182,869,384,588	202,987,466,691	217,624,996
249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613	-
359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,792,436,440	1,425,809,518,914	1,854,261,764,476	2,352,100,102,987
359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,792,436,440	1,425,809,518,914	1,854,261,764,476	2,352,100,102,987
359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,792,436,440	1,425,809,518,914	1,854,261,764,476	2,352,100,102,987
359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203	1,066,792,436,440	1,425,809,518,914	1,854,261,764,476	2,352,100,102,987
359,493,589,103	539,771,782,983	774,255,720,445	1,101,757,810,537	1,066,753,103,107	1,425,780,018,914	1,854,242,097,809	2,352,100,102,987
359,493,589,103	539,771,782,983	774,255,720,445	1,101,757,810,537	1,066,753,103,107	1,425,780,018,914	1,854,242,097,809	2,352,100,102,987
398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697	979,777,992,755
398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697	979,777,992,755
398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697	979,777,992,755
398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697	979,777,992,755
249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613	-
249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613	-
249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613	-

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249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613	-
249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613	-
249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613	-
249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964	165,817,350,024	182,055,573,838	202,518,717,613	-
148,526,859,706	228,867,169,556	326,028,639,865	461,929,227,547	444,582,601,879	594,003,894,593	772,434,407,084	979,777,992,755
148,526,859,706	228,867,169,556	326,028,639,865	461,929,227,547	444,582,601,879	594,003,894,593	772,434,407,084	979,777,992,755
148,526,859,706	228,867,169,556	326,028,639,865	461,929,227,547	444,582,601,879	594,003,894,593	772,434,407,084	979,777,992,755
398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697	979,777,992,755
398,176,713,956	482,295,125,626	591,508,357,847	704,084,874,511	610,399,951,903	776,059,468,431	974,953,124,697	979,777,992,755
276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094	653,593,838,009	857,103,876,436	1,103,278,300,196	1,390,698,607,927
9,548,080,478	8,337,867,252	6,982,804,780	5,919,294,736	1,350,000,258	860,705,016	497,342,422	221,534,672
9,422,720,511	8,231,712,331	6,899,109,704	5,851,240,051	1,335,368,437	852,007,883	492,879,083	219,579,834
9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910	1,236,494,609	797,984,916	469,021,753	221,088,601
8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078	1,279,494,428	831,239,175	492,125,242	222,606,183
460,708,822,683	564,308,874,114	713,086,649,918	881,302,351,113	785,165,923,177	1,011,378,790,825	1,282,064,366,798	1,370,200,794,877
460,708,822,683	564,308,874,114	713,086,649,918	881,302,351,113	785,165,923,177	1,011,378,790,825	1,282,064,366,798	1,370,200,794,877
0	0	0	0	6.53548E+11	8.57069E+11	1.10325E+12	1.39066E+12
0	0	0	0	1	1	1	1
0	0	0	0	2.99604E+11	3.78536E+11	4.63045E+11	5.44121E+11
0	0	0	0	10700993130	21827200565	34803212659	55090509893
0	0	0	0	3.10305E+11	4.00364E+11	4.97849E+11	5.99212E+11
0	0	0	0	3551290709	3239145673	2962716574	2793481402
0	0	0	0	3551290709	3239145673	2962716574	2793481402
0	0	0	0	0	0	0	0
0	0	0	0	3551290709	3239145673	2962716574	2793481402
0	0	0	0	2780464207	2647518869	2561079466	2506464829
0	0	0	0	3165877458	2943332271	2761898020	2649973116
0	0	0	0	3165877458	2943332271	2761898020	2649973116
0	0	0	0	3165877458	2943332271	2761898020	2649973116
0	0	0	0	3165877458	2943332271	2761898020	2649973116
0	0	0	0	6.53548E+11	8.57069E+11	1.10325E+12	1.39066E+12
1.2839E+11	2.24642E+11	3.7016E+11	5.73299E+11	5.79803E+11	7.97262E+11	1.05229E+12	1.34675E+12
3.60436E+11	5.40684E+11	7.75012E+11	1.10235E+12	1.06741E+12	1.42636E+12	1.85477E+12	2.3526E+12
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

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2017	2018	2019	2020	2021	2022	2023	2024
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

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2017	2018	2019	2020	2021	2022	2023	2024
-	-	-	-	-	-	-	-
1,765,349,796,659	2,085,128,098,215	2,422,657,343,986	2,758,715,565,518	3,074,996,776,748	3,365,810,566,175	3,626,292,883,725	3,853,292,718,386
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1	1	1	1	1	1	1	1
1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376	3,676,459,660,213
1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376	3,676,459,660,213
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
-	-	-	-	-	-	-	-
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
1,701,933,005,907	2,010,223,887,986	2,335,628,045,805	2,659,614,023,096	2,964,533,441,083	3,244,900,305,336	3,496,025,297,409	3,714,870,600,293
-	-	-	-	-	-	-	-
2,992,043,862,588	3,543,381,731,747	4,122,641,767,480	4,699,421,568,183	5,242,163,051,001	5,741,099,279,675	6,187,896,864,980	6,577,174,036,709
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
2,528,513,801	2,157,631,492	1,853,623,405	1,583,559,500	1,358,946,055	1,176,448,799	1,030,524,910	914,706,103
2,528,513,801	2,157,631,492	1,853,623,405	1,583,559,500	1,358,946,055	1,176,448,799	1,030,524,910	914,706,103
2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200	6,340,901,729,421

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2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200	6,340,901,729,421
2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200	6,340,901,729,421
2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200	6,340,901,729,421
2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200	6,340,901,729,421
2,884,560,450,567	3,416,092,568,849	3,974,543,803,660	4,530,603,901,106	5,053,848,441,667	5,534,861,347,456	5,965,608,590,200	6,340,901,729,421
-	-	-	-	-	-	-	-
2,988,421,705,543	3,540,082,739,801	4,119,419,703,630	4,696,276,150,559	5,239,074,454,102	5,738,047,640,849	6,184,864,112,850	6,574,145,517,545
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551	5,050,870,796,662	5,531,919,332,876	5,962,684,783,848	6,337,982,003,974
2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551	5,050,870,796,662	5,531,919,332,876	5,962,684,783,848	6,337,982,003,974
2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203	1,464,455,721	1,339,558,362	1,245,455,520	1,176,932,032
2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203	1,464,455,721	1,339,558,362	1,245,455,520	1,176,932,032
2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215	1,045,819,067
2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215	1,045,819,067
2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203	1,464,455,721	1,339,558,362	1,245,455,520	1,176,932,032
960	880	760	720	640	600	560	520
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376	3,676,459,660,213
1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376	3,676,459,660,213
1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376	3,676,459,660,213
2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551	5,050,870,796,662	5,531,919,332,876	5,962,684,783,848	6,337,982,003,974
2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551	5,050,870,796,662	5,531,919,332,876	5,962,684,783,848	6,337,982,003,974
1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376	3,676,459,660,213
1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376	3,676,459,660,213
1,655,783,464,569	1,968,284,654,786	2,294,549,839,580	2,619,447,932,930	2,925,094,800,973	3,205,988,443,779	3,457,446,738,376	3,676,459,660,213
1	1	1	1	1	1	1	1
2,069,073,539	1,822,309,716	1,604,967,101	1,414,677,867	1,255,060,504	1,126,109,783	1,025,165,914	947,842,337
1,680,022,736,334	1,990,291,700,127	2,316,014,548,057	2,640,359,907,699	2,945,563,424,985	3,226,131,075,449	3,477,375,583,337	3,696,270,410,725
1,680,022,736,334	1,990,291,700,127	2,316,014,548,057	2,640,359,907,699	2,945,563,424,985	3,226,131,075,449	3,477,375,583,337	3,696,270,410,725
-	-	-	-	-	-	-	-
2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852	1,411,700,888	1,258,003,580	1,137,990,215	1,045,819,067
2,528,513,801	2,157,631,492	1,853,623,405	1,583,559,500	1,358,946,055	1,176,448,799	1,030,524,910	914,706,103
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202

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1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
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-	-	-	-	-	-	-	-
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540	6,340,465,696,149
2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540	6,340,465,696,149
2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540	6,340,465,696,149
2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540	6,340,465,696,149
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2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540	6,340,465,696,149
2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540	6,340,465,696,149
2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540	6,340,465,696,149
2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540	6,340,465,696,149
2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540	6,340,465,696,149
2,884,089,369,367	3,415,645,581,843	3,974,108,442,650	4,530,176,990,323	5,053,425,377,263	5,534,437,592,801	5,965,180,168,540	6,340,465,696,149
1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008	2,642,181,256,901
1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008	2,642,181,256,901
1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008	2,642,181,256,901
1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008	2,642,181,256,901
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1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008	2,642,181,256,901
1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008	2,642,181,256,901
1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008	2,642,181,256,901
1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008	2,642,181,256,901
1,201,558,026,115	1,423,103,053,751	1,655,893,479,669	1,887,673,084,273	2,105,764,589,744	2,306,245,856,972	2,485,771,299,008	2,642,181,256,901
1,701,974,274,618	2,010,259,566,553	2,335,663,224,803	2,659,648,626,262	2,964,567,593,275	3,244,934,148,755	3,496,058,972,776	3,714,904,229,202
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1,680,022,736,334	1,990,291,700,127	2,316,014,548,057	2,640,359,907,699	2,945,563,424,985	3,226,131,075,449	3,477,375,583,337	3,696,270,410,725
1,680,022,736,334	1,990,291,700,127	2,316,014,548,057	2,640,359,907,699	2,945,563,424,985	3,226,131,075,449	3,477,375,583,337	3,696,270,410,725
1.70193E+12	2.01022E+12	2.33563E+12	2.65961E+12	2.96453E+12	3.2449E+12	3.49603E+12	3.71487E+12
1	1	1	1	1	1	1	1
6.02421E+11	6.23992E+11	6.15867E+11	5.88266E+11	5.35533E+11	4.66153E+11	3.88966E+11	3.11725E+11
88326870922	1.34147E+11	1.93027E+11	2.62771E+11	3.41823E+11	4.2614E+11	5.10911E+11	5.91535E+11
6.90748E+11	7.58139E+11	8.08894E+11	8.51038E+11	8.77356E+11	8.92293E+11	8.99877E+11	9.0326E+11
2528513801	2157631492	1853623405	1583559500	1358946055	1176448799	1030524910	914706102.6
2528513801	2157631492	1853623405	1583559500	1358946055	1176448799	1030524910	914706102.6
0	0	0	0	0	0	0	0
2528513801	2157631492	1853623405	1583559500	1358946055	1176448799	1030524910	914706102.6
2287733478	2039178914	1816031729	1623256203	1464455721	1339558362	1245455520	1176932032
2408123640	2098405203	1834827567	1603407852	1411700888	1258003580	1137990215	1045819067
2408123640	2098405203	1834827567	1603407852	1411700888	1258003580	1137990215	1045819067
2408123640	2098405203	1834827567	1603407852	1411700888	1258003580	1137990215	1045819067
2408123640	2098405203	1834827567	1603407852	1411700888	1258003580	1137990215	1045819067
1.70193E+12	2.01022E+12	2.33563E+12	2.65961E+12	2.96453E+12	3.2449E+12	3.49603E+12	3.71487E+12
1.65578E+12	1.96828E+12	2.29455E+12	2.61945E+12	2.92509E+12	3.20599E+12	3.45745E+12	3.67646E+12
2.88456E+12	3.41609E+12	3.97454E+12	4.5306E+12	5.05385E+12	5.53486E+12	5.96561E+12	6.3409E+12
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2025	2026	2027	2028	2029	2030	2031	2032
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2025	2026	2027	2028	2029	2030	2031	2032
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4,045,906,040,497	4,205,480,023,567	4,335,347,861,317	4,440,297,666,561	4,525,748,485,670	4,596,625,947,291	4,657,101,277,530	4,710,464,392,879
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
1	1	1	1	1	1	1	1
3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146	4,501,448,539,782
3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146	4,501,448,539,782
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
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3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
3,900,564,659,848	4,054,406,254,973	4,179,608,840,824	4,280,788,526,485	4,363,169,689,527	4,431,501,014,874	4,489,803,885,371	4,541,250,033,598
-	-	-	-	-	-	-	-
6,907,403,656,504	7,180,916,705,161	7,403,447,293,067	7,583,220,989,640	7,729,540,857,341	7,850,859,974,905	7,954,336,850,247	8,045,616,745,367
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822,731,782	749,288,170	690,269,754	642,671,772	604,299,512	573,465,808	548,782,050	529,052,095
822,731,782	749,288,170	690,269,754	642,671,772	604,299,512	573,465,808	548,782,050	529,052,095
6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788	7,756,593,462,514

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6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788	7,756,593,462,514
6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788	7,756,593,462,514
6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788	7,756,593,462,514
6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788	7,756,593,462,514
6,659,268,486,265	6,922,956,105,532	7,137,492,710,741	7,310,808,383,573	7,451,871,991,890	7,568,832,953,860	7,668,592,621,788	7,756,593,462,514
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6,904,368,451,468	7,177,867,393,023	7,400,379,475,211	7,580,132,587,353	7,726,431,288,397	7,847,729,432,593	7,951,185,995,768	8,042,446,409,512
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6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188	7,448,874,128,221	7,565,814,870,250	7,665,554,955,687	7,753,537,014,867
6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188	7,448,874,128,221	7,565,814,870,250	7,665,554,955,687	7,753,537,014,867
1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173	1,024,770,124	1,007,869,794	992,301,424	977,829,828
1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173	1,024,770,124	1,007,869,794	992,301,424	977,829,828
975,288,590	920,778,685	877,797,004	843,105,473	814,534,818	790,667,801	770,541,737	753,440,962
975,288,590	920,778,685	877,797,004	843,105,473	814,534,818	790,667,801	770,541,737	753,440,962
1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173	1,024,770,124	1,007,869,794	992,301,424	977,829,828
520	480	480	480	480	480	440	440
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146	4,501,448,539,782
3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146	4,501,448,539,782
3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146	4,501,448,539,782
6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188	7,448,874,128,221	7,565,814,870,250	7,665,554,955,687	7,753,537,014,867
6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188	7,448,874,128,221	7,565,814,870,250	7,665,554,955,687	7,753,537,014,867
3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146	4,501,448,539,782
3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146	4,501,448,539,782
3,862,187,392,038	4,015,959,064,696	4,141,016,242,794	4,241,999,067,932	4,324,149,943,079	4,392,229,652,166	4,450,269,684,146	4,501,448,539,782
1	1	1	1	1	1	1	1
889,081,344	844,076,324	808,865,749	780,544,459	757,164,481	737,480,920	720,686,595	706,213,672
3,881,956,789,243	4,035,745,699,325	4,160,862,200,496	4,261,932,672,979	4,344,189,428,023	4,412,386,621,734	4,470,550,417,722	4,521,855,812,565
3,881,956,789,243	4,035,745,699,325	4,160,862,200,496	4,261,932,672,979	4,344,189,428,023	4,412,386,621,734	4,470,550,417,722	4,521,855,812,565
-	-	-	-	-	-	-	-
975,288,590	920,778,685	877,797,004	843,105,473	814,534,818	790,667,801	770,541,737	753,440,962
822,731,782	749,288,170	690,269,754	642,671,772	604,299,512	573,465,808	548,782,050	529,052,095
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519

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3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
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-	-	-	-	-	-	-	-
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466	7,756,108,498,002
6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466	7,756,108,498,002
6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466	7,756,108,498,002
6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466	7,756,108,498,002
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-	-	-	-	-	-	-	-
6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466	7,756,108,498,002
6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466	7,756,108,498,002
6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466	7,756,108,498,002
6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466	7,756,108,498,002
6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466	7,756,108,498,002
6,658,823,188,262	6,922,501,193,568	7,137,028,914,436	7,310,337,131,880	7,451,395,008,034	7,568,351,929,850	7,668,109,035,466	7,756,108,498,002
2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260	3,232,201,390,206
2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260	3,232,201,390,206
2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260	3,232,201,390,206
2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260	3,232,201,390,206
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2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260	3,232,201,390,206
2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260	3,232,201,390,206
2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260	3,232,201,390,206
2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260	3,232,201,390,206
2,774,864,506,552	2,884,759,357,947	2,974,170,688,731	3,046,403,718,739	3,105,196,138,840	3,153,943,980,631	3,195,523,090,260	3,232,201,390,206
3,900,598,341,047	4,054,440,064,751	4,179,642,833,943	4,280,822,738,850	4,363,204,142,842	4,431,535,721,508	4,489,838,849,872	4,541,285,255,519
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
3,881,956,789,243	4,035,745,699,325	4,160,862,200,496	4,261,932,672,979	4,344,189,428,023	4,412,386,621,734	4,470,550,417,722	4,521,855,812,565
3,881,956,789,243	4,035,745,699,325	4,160,862,200,496	4,261,932,672,979	4,344,189,428,023	4,412,386,621,734	4,470,550,417,722	4,521,855,812,565
3.90056E+12	4.05441E+12	4.17961E+12	4.28079E+12	4.36317E+12	4.4315E+12	4.4898E+12	4.54125E+12
1	1	1	1	1	1	1	1
2.4024E+11	1.78141E+11	1.27087E+11	87194720709	57505374824	36435625000	22169608948	12951176440
6.64412E+11	7.27362E+11	7.79659E+11	8.21789E+11	8.55048E+11	8.81049E+11	9.01439E+11	9.17696E+11
9.04652E+11	9.05503E+11	9.06746E+11	9.08984E+11	9.12553E+11	9.17485E+11	9.23608E+11	9.30647E+11
822731782	749288170.2	690269753.9	642671772.1	604299511.7	573465808	548782050.4	529052095.4
822731782	749288170.2	690269753.9	642671772.1	604299511.7	573465808	548782050.4	529052095.4
0	0	0	0	0	0	0	0
822731782	749288170.2	690269753.9	642671772.1	604299511.7	573465808	548782050.4	529052095.4
1127845399	1092269201	1065324254	1043539173	1024770124	1007869794	992301423.9	977829828.2
975288590.5	920778685.4	877797003.7	843105472.7	814534817.7	790667800.8	770541737.1	753440961.8
975288590.5	920778685.4	877797003.7	843105472.7	814534817.7	790667800.8	770541737.1	753440961.8
975288590.5	920778685.4	877797003.7	843105472.7	814534817.7	790667800.8	770541737.1	753440961.8
975288590.5	920778685.4	877797003.7	843105472.7	814534817.7	790667800.8	770541737.1	753440961.8
3.90056E+12	4.05441E+12	4.17961E+12	4.28079E+12	4.36317E+12	4.4315E+12	4.4898E+12	4.54125E+12
3.86219E+12	4.01596E+12	4.14102E+12	4.242E+12	4.32415E+12	4.39223E+12	4.45027E+12	4.50145E+12
6.65927E+12	6.92296E+12	7.13749E+12	7.31081E+12	7.45187E+12	7.56883E+12	7.66859E+12	7.75659E+12
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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2033	2034	2035	2036	2037	2038	2039	2040
-	-	-	-	-	-	-	-
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2033	2034	2035	2036	2037	2038	2039	2040
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4,759,006,060,435	4,804,331,709,266	4,847,391,272,574	4,888,675,696,301	4,928,423,361,340	4,966,796,831,221	5,003,852,822,900	5,039,593,039,817
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
1	1	1	1	1	1	1	1
4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762	4,816,676,471,166
4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762	4,816,676,471,166
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
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4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
4,588,047,935,255	4,631,745,347,465	4,673,258,078,909	4,713,059,439,242	4,751,379,245,984	4,788,374,222,880	4,824,099,049,440	4,858,555,367,913
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8,128,629,725,244	8,206,130,070,408	8,279,746,794,701	8,350,321,963,044	8,418,264,740,286	8,483,854,195,893	8,547,187,476,207	8,608,267,666,163
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513,237,143	500,451,243	489,964,570	481,194,796	473,690,285	467,108,592	461,194,677	455,760,886
513,237,143	500,451,243	489,964,570	481,194,796	473,690,285	467,108,592	461,194,677	455,760,886
7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052	8,299,032,232,847

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7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052	8,299,032,232,847
7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052	8,299,032,232,847
7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052	8,299,032,232,847
7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052	8,299,032,232,847
7,836,624,361,001	7,911,340,655,559	7,982,312,840,843	8,050,352,732,217	8,115,854,796,068	8,179,088,076,831	8,240,146,231,052	8,299,032,232,847
-	-	-	-	-	-	-	-
8,125,440,691,969	8,202,923,039,631	8,276,522,298,393	8,347,080,416,265	8,415,006,498,135	8,480,579,579,188	8,543,896,752,564	8,604,961,092,021
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7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762	8,112,713,599,990	8,175,931,094,423	8,236,973,720,317	8,295,844,441,011
7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762	8,112,713,599,990	8,175,931,094,423	8,236,973,720,317	8,295,844,441,011
964,335,267	951,725,195	939,899,131	928,749,395	918,168,789	908,057,466	898,326,407	888,900,479
964,335,267	951,725,195	939,899,131	928,749,395	918,168,789	908,057,466	898,326,407	888,900,479
738,786,205	726,088,219	714,931,850	704,972,095	695,929,537	687,583,029	679,760,542	672,330,682
738,786,205	726,088,219	714,931,850	704,972,095	695,929,537	687,583,029	679,760,542	672,330,682
964,335,267	951,725,195	939,899,131	928,749,395	918,168,789	908,057,466	898,326,407	888,900,479
440	440	440	440	440	440	400	400
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4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762	4,816,676,471,166
4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762	4,816,676,471,166
4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762	4,816,676,471,166
7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762	8,112,713,599,990	8,175,931,094,423	8,236,973,720,317	8,295,844,441,011
7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762	8,112,713,599,990	8,175,931,094,423	8,236,973,720,317	8,295,844,441,011
4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762	4,816,676,471,166
4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762	4,816,676,471,166
4,547,978,307,187	4,591,409,192,000	4,632,657,452,947	4,672,196,778,342	4,710,257,521,775	4,746,996,828,379	4,782,469,203,762	4,816,676,471,166
1	1	1	1	1	1	1	1
693,620,640	682,540,800	672,662,835	663,726,053	655,517,254	647,866,034	640,638,578	633,731,900
4,568,513,027,147	4,612,070,995,876	4,653,445,702,338	4,693,110,591,771	4,731,295,696,093	4,768,157,899,783	4,803,751,751,084	4,838,078,945,177
4,568,513,027,147	4,612,070,995,876	4,653,445,702,338	4,693,110,591,771	4,731,295,696,093	4,768,157,899,783	4,803,751,751,084	4,838,078,945,177
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738,786,205	726,088,219	714,931,850	704,972,095	695,929,537	687,583,029	679,760,542	672,330,682
513,237,143	500,451,243	489,964,570	481,194,796	473,690,285	467,108,592	461,194,677	455,760,886
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707

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4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
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4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825	8,298,552,720,247
7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825	8,298,552,720,247
7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825	8,298,552,720,247
7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825	8,298,552,720,247
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-	-	-	-	-	-	-	-
7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825	8,298,552,720,247
7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825	8,298,552,720,247
7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825	8,298,552,720,247
7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825	8,298,552,720,247
7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825	8,298,552,720,247
7,836,138,902,892	7,910,855,330,187	7,981,828,068,575	8,049,868,784,488	8,115,371,842,828	8,178,606,221,009	8,239,665,530,825	8,298,552,720,247
3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488	3,458,282,160,699
3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488	3,458,282,160,699
3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488	3,458,282,160,699
3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488	3,458,282,160,699
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3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488	3,458,282,160,699
3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488	3,458,282,160,699
3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488	3,458,282,160,699
3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488	3,458,282,160,699
3,265,557,796,620	3,296,698,889,241	3,326,279,223,443	3,354,637,205,752	3,381,937,314,245	3,408,291,742,772	3,433,739,593,488	3,458,282,160,699
4,588,083,411,839	4,631,781,074,554	4,673,294,052,596	4,713,095,655,804	4,751,415,701,619	4,788,410,913,719	4,824,135,971,997	4,858,592,518,707
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4,568,513,027,147	4,612,070,995,876	4,653,445,702,338	4,693,110,591,771	4,731,295,696,093	4,768,157,899,783	4,803,751,751,084	4,838,078,945,177
4,568,513,027,147	4,612,070,995,876	4,653,445,702,338	4,693,110,591,771	4,731,295,696,093	4,768,157,899,783	4,803,751,751,084	4,838,078,945,177
4.58805E+12	4.63175E+12	4.67326E+12	4.71306E+12	4.75138E+12	4.78837E+12	4.8241E+12	4.85856E+12
1	1	1	1	1	1	1	1
7263390049	3910859946	2021858322	1003733450	478520907.2	219080517.4	96315941.87	40655398.63
9.31012E+11	9.42304E+11	9.52214E+11	9.61169E+11	9.6944E+11	9.77209E+11	9.84581E+11	9.91616E+11
9.38276E+11	9.46214E+11	9.54236E+11	9.62173E+11	9.69919E+11	9.77428E+11	9.84677E+11	9.91656E+11
513237143.2	500451243.5	489964569.7	481194795.8	473690284.7	467108592.1	461194677.2	455760885.8
513237143.2	500451243.5	489964569.7	481194795.8	473690284.7	467108592.1	461194677.2	455760885.8
0	0	0	0	0	0	0	0
513237143.2	500451243.5	489964569.7	481194795.8	473690284.7	467108592.1	461194677.2	455760885.8
964335266.7	951725195	939899130.8	928749394.9	918168789.5	908057465.6	898326406.8	888900478.9
738786205	726088219.2	714931850.3	704972095.3	695929537.1	687583028.8	679760542	672330682.3
738786205	726088219.2	714931850.3	704972095.3	695929537.1	687583028.8	679760542	672330682.3
738786205	726088219.2	714931850.3	704972095.3	695929537.1	687583028.8	679760542	672330682.3
738786205	726088219.2	714931850.3	704972095.3	695929537.1	687583028.8	679760542	672330682.3
4.58805E+12	4.63175E+12	4.67326E+12	4.71306E+12	4.75138E+12	4.78837E+12	4.8241E+12	4.85856E+12
4.54798E+12	4.59141E+12	4.63266E+12	4.6722E+12	4.71026E+12	4.747E+12	4.78247E+12	4.81668E+12
7.83662E+12	7.91134E+12	7.98231E+12	8.05035E+12	8.11585E+12	8.17909E+12	8.24015E+12	8.29903E+12
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

CONFIDENTIAL © Analysys Mason

2041	2042	2043	2044	2045	2046	2047	2048
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

CONFIDENTIAL © Analysys Mason

2041	2042	2043	2044	2045	2046	2047	2048
-	-	-	-	-	-	-	-
5,074,000,312,713	5,107,174,406,360	5,139,377,496,072	5,170,572,925,347	5,200,878,616,255	5,230,720,454,584	5,260,170,778,847	5,289,233,747,317
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
1	1	1	1	1	1	1	1
4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095	5,055,478,123,583
4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095	5,055,478,123,583
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
-	-	-	-	-	-	-	-
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
4,891,726,625,811	4,923,709,004,049	4,954,755,259,798	4,984,830,053,369	5,014,047,070,712	5,042,816,898,485	5,071,209,276,580	5,099,228,213,894
-	-	-	-	-	-	-	-
8,667,065,712,212	8,723,753,101,007	8,778,779,020,170	8,832,079,368,588	8,883,856,987,276	8,934,841,646,301	8,985,155,038,351	9,034,804,246,837
-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
450,670,848	445,827,060	441,160,170	436,622,501	432,182,236	427,818,246	423,516,590	419,268,649
450,670,848	445,827,060	441,160,170	436,622,501	432,182,236	427,818,246	423,516,590	419,268,649
8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208	8,710,246,308,521

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8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208	8,710,246,308,521
8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208	8,710,246,308,521
8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208	8,710,246,308,521
8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208	8,710,246,308,521
8,355,718,072,358	8,410,369,075,910	8,463,418,294,926	8,514,803,931,003	8,564,721,538,481	8,613,874,671,846	8,662,380,652,208	8,710,246,308,521
-	-	-	-	-	-	-	-
8,663,743,565,321	8,720,415,695,958	8,775,426,640,804	8,828,712,172,557	8,880,475,199,233	8,931,445,459,169	8,981,744,417,323	9,031,379,152,629
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8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003	8,561,461,234,660	8,610,600,486,195	8,659,092,551,171	8,706,944,254,224
8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003	8,561,461,234,660	8,610,600,486,195	8,659,092,551,171	8,706,944,254,224
879,718,620	870,732,469	861,907,216	853,216,938	844,642,452	836,171,111	827,795,377	819,509,891
879,718,620	870,732,469	861,907,216	853,216,938	844,642,452	836,171,111	827,795,377	819,509,891
665,194,734	658,279,765	651,533,693	644,919,720	638,412,344	631,994,678	625,655,984	619,389,270
665,194,734	658,279,765	651,533,693	644,919,720	638,412,344	631,994,678	625,655,984	619,389,270
879,718,620	870,732,469	861,907,216	853,216,938	844,642,452	836,171,111	827,795,377	819,509,891
400	400	400	400	400	400	400	400
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095	5,055,478,123,583
4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095	5,055,478,123,583
4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095	5,055,478,123,583
8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003	8,561,461,234,660	8,610,600,486,195	8,659,092,551,171	8,706,944,254,224
8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003	8,561,461,234,660	8,610,600,486,195	8,659,092,551,171	8,706,944,254,224
4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095	5,055,478,123,583
4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095	5,055,478,123,583
4,849,602,561,936	4,881,344,260,682	4,912,153,973,025	4,941,994,666,659	4,970,980,947,438	4,999,522,972,787	5,027,687,382,095	5,055,478,123,583
1	1	1	1	1	1	1	1
627,068,151	620,589,520	614,254,701	608,034,415	601,908,280	595,862,803	589,889,443	583,982,593
4,871,123,140,804	4,902,980,796,321	4,933,904,475,907	4,963,857,981,383	4,992,955,448,661	5,021,607,243,662	5,049,881,553,654	5,077,782,354,547
4,871,123,140,804	4,902,980,796,321	4,933,904,475,907	4,963,857,981,383	4,992,955,448,661	5,021,607,243,662	5,049,881,553,654	5,077,782,354,547
-	-	-	-	-	-	-	-
665,194,734	658,279,765	651,533,693	644,919,720	638,412,344	631,994,678	625,655,984	619,389,270
450,670,848	445,827,060	441,160,170	436,622,501	432,182,236	427,818,246	423,516,590	419,268,649
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617

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4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816	8,709,776,410,236
8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816	8,709,776,410,236
8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816	8,709,776,410,236
8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816	8,709,776,410,236
-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816	8,709,776,410,236
8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816	8,709,776,410,236
8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816	8,709,776,410,236
8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816	8,709,776,410,236
8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816	8,709,776,410,236
8,355,239,765,774	8,409,891,987,918	8,462,942,430,015	8,514,329,281,438	8,564,248,100,403	8,613,402,438,345	8,661,909,598,816	8,709,776,410,236
3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633	3,629,670,661,157
3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633	3,629,670,661,157
3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633	3,629,670,661,157
3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633	3,629,670,661,157
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3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633	3,629,670,661,157
3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633	3,629,670,661,157
3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633	3,629,670,661,157
3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633	3,629,670,661,157
3,481,907,809,685	3,504,685,449,291	3,526,795,545,580	3,548,212,390,454	3,569,017,462,267	3,589,503,922,444	3,609,720,705,633	3,629,670,661,157
4,891,764,001,051	4,923,746,599,489	4,954,793,071,571	4,984,868,079,167	5,014,085,307,430	5,042,855,343,424	5,071,247,929,834	5,099,267,075,617
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
4,871,123,140,804	4,902,980,796,321	4,933,904,475,907	4,963,857,981,383	4,992,955,448,661	5,021,607,243,662	5,049,881,553,654	5,077,782,354,547
4,871,123,140,804	4,902,980,796,321	4,933,904,475,907	4,963,857,981,383	4,992,955,448,661	5,021,607,243,662	5,049,881,553,654	5,077,782,354,547
4.89173E+12	4.92371E+12	4.95476E+12	4.98483E+12	5.01405E+12	5.04282E+12	5.07121E+12	5.09923E+12
1	1	1	1	1	1	1	1
16472862.3	6405317.268	2389736.573	855471.1524	294097.5417	97497.88749	31625.38314	10522.83143
9.98345E+11	1.00481E+12	1.01107E+12	1.01713E+12	1.02301E+12	1.0288E+12	1.03451E+12	1.04015E+12
9.98361E+11	1.00481E+12	1.01107E+12	1.01713E+12	1.02301E+12	1.0288E+12	1.03451E+12	1.04015E+12
450670848.4	445827060.4	441160170.1	436622501.1	432182236.4	427818245.7	423516589.6	419268649.4
450670848.4	445827060.4	441160170.1	436622501.1	432182236.4	427818245.7	423516589.6	419268649.4
0	0	0	0	0	0	0	0
450670848.4	445827060.4	441160170.1	436622501.1	432182236.4	427818245.7	423516589.6	419268649.4
879718619.7	870732469.4	861907215.5	853216938.3	844642452.5	836171111.3	827795377.5	819509891.1
665194734	658279764.9	651533692.8	644919719.7	638412344.5	631994678.5	625655983.6	619389270.2
665194734	658279764.9	651533692.8	644919719.7	638412344.5	631994678.5	625655983.6	619389270.2
665194734	658279764.9	651533692.8	644919719.7	638412344.5	631994678.5	625655983.6	619389270.2
665194734	658279764.9	651533692.8	644919719.7	638412344.5	631994678.5	625655983.6	619389270.2
4.89173E+12	4.92371E+12	4.95476E+12	4.98483E+12	5.01405E+12	5.04282E+12	5.07121E+12	5.09923E+12
4.8496E+12	4.88134E+12	4.91215E+12	4.94199E+12	4.97098E+12	4.99952E+12	5.02769E+12	5.05548E+12
8.35572E+12	8.41037E+12	8.46342E+12	8.5148E+12	8.56472E+12	8.61387E+12	8.66238E+12	8.71025E+12
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

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Capex index * Output - pure LRIC on-net case

2049	2050		1991	1992	1993	1994	1995	1996
-	-		-	13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839
-	-		-	-	-	-	-	-

Capex_cost_weighted_output

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Opex index * Output - pure LRIC on-net case

2049	2050	1991	1992	1993	1994	1995	1996
-	-	-	13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839
5,317,936,781,523	5,346,385,016,483	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004
-	-	-	13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839
-	-	-	13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839
-	-	-	13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839
-	-	-	1	1	1	1	1
-	-	-	1	1	1	1	1
-	-	-	1	1	1	1	1
-	-	-	-	-	-	-	-
-	-	-	13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004
5,126,900,146,888	5,154,326,433,808	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
1	1	-	-	-	-	-	-
5,082,922,084,958	5,110,120,831,062	-	-	-	-	-	-
5,082,922,084,958	5,110,120,831,062	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
-	-	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
5,126,900,146,888	5,154,326,433,808	-	-	-	-	-	-
-	-	-	13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689
9,083,836,617,263	9,132,432,535,511	-	182,528,123,727	189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004
-	-	-	13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689
-	-	-	13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689
-	-	-	13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689
-	-	-	13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689
-	-	-	13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689
415,069,181	410,914,874	-	-	-	-	-	-
415,069,181	410,914,874	-	-	-	-	-	-
8,757,517,285,494	8,804,367,488,992	-	-	-	200,000,000	560,000,000	1,180,000,000

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8,757,517,285,494	8,804,367,488,992	-	-	-	200,000,000	560,000,000	1,180,000,000
8,757,517,285,494	8,804,367,488,992	-	-	-	200,000,000	560,000,000	1,180,000,000
8,757,517,285,494	8,804,367,488,992	-	-	-	-	-	-
8,757,517,285,494	8,804,367,488,992	-	182,528,123,727	189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004
8,757,517,285,494	8,804,367,488,992	-	182,528,123,727	189,812,411,120	197,702,443,737	206,112,953,219	215,299,630,004
-	-	-	15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221
9,080,397,043,871	9,128,978,492,123	-	182,528,123,727	189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004
-	-	-	15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221
-	-	-	15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
8,754,201,272,150	8,801,037,525,458	-	182,528,123,727	189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004
8,754,201,272,150	8,801,037,525,458	-	182,528,123,727	189,812,411,120	197,602,443,737	205,832,953,219	214,709,630,004
811,310,900	803,196,120	-	-	-	-	-	-
811,310,900	803,196,120	-	-	-	-	-	-
613,190,040	607,055,497	-	-	-	-	-	-
613,190,040	607,055,497	-	-	-	-	-	-
811,310,900	803,196,120	-	-	-	-	-	-
400	400	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
5,082,922,084,958	5,110,120,831,062	-	-	-	100,000,000	280,000,000	590,000,000
5,082,922,084,958	5,110,120,831,062	-	-	-	100,000,000	280,000,000	590,000,000
5,082,922,084,958	5,110,120,831,062	-	-	-	100,000,000	280,000,000	590,000,000
8,754,201,272,150	8,801,037,525,458	-	-	-	100,000,000	280,000,000	590,000,000
8,754,201,272,150	8,801,037,525,458	-	-	-	100,000,000	280,000,000	590,000,000
5,082,922,084,958	5,110,120,831,062	-	-	-	-	-	-
5,082,922,084,958	5,110,120,831,062	-	-	-	100,000,000	280,000,000	590,000,000
5,082,922,084,958	5,110,120,831,062	-	-	-	100,000,000	280,000,000	590,000,000
1	1	-	1	1	1	1	1
578,138,600	572,355,178	-	1,901,585,788	1,959,736,464	2,173,822,333	2,778,504,801	3,477,222,017
5,105,336,306,349	5,132,644,869,369	-	196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465
5,105,336,306,349	5,132,644,869,369	-	196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465
-	-	-	14,394,877,291	14,835,074,016	15,454,768,537	16,378,116,102	17,439,293,460
613,190,040	607,055,497	-	-	-	-	-	-
415,069,181	410,914,874	-	-	-	-	-	-
5,126,939,216,836	5,154,365,711,555	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
5,126,939,216,836	5,154,365,711,555	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843

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5,126,939,216,836	5,154,365,711,555	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
5,126,939,216,836	5,154,365,711,555	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
5,126,939,216,836	5,154,365,711,555	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
5,126,939,216,836	5,154,365,711,555	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
5,126,939,216,836	5,154,365,711,555	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
-	-	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
-	-	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
-	-	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
-	-	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
-	-	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
-	-	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
-	-	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
-	-	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
-	-	-	196,396,484,759	204,104,867,958	212,360,498,075	221,184,589,251	230,632,149,843
-	-	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004
5,126,939,216,836	5,154,365,711,555	-	-	-	-	-	-
5,126,939,216,836	5,154,365,711,555	-	-	-	-	-	-
5,126,939,216,836	5,154,365,711,555	-	-	-	-	-	-
5,126,939,216,836	5,154,365,711,555	-	-	-	-	-	-
5,126,939,216,836	5,154,365,711,555	-	-	-	-	-	-
5,126,939,216,836	5,154,365,711,555	-	-	-	-	-	-
5,126,939,216,836	5,154,365,711,555	-	-	-	-	-	-
5,126,939,216,836	5,154,365,711,555	-	-	-	-	-	-
8,757,048,519,855	8,803,899,834,658	-	195,662,326,769	203,348,259,346	211,586,996,327	220,406,133,972	229,853,640,693
8,757,048,519,855	8,803,899,834,658	-	195,662,326,769	203,348,259,346	211,586,996,327	220,406,133,972	229,853,640,693
8,757,048,519,855	8,803,899,834,658	-	195,662,326,769	203,348,259,346	211,586,996,327	220,406,133,972	229,853,640,693
8,757,048,519,855	8,803,899,834,658	-	195,662,326,769	203,348,259,346	211,586,996,327	220,406,133,972	229,853,640,693
-	-	-	195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693
-	-	-	195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693
-	-	-	195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693
-	-	-	195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693
-	-	-	195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693
-	-	-	195,662,326,769	203,348,259,346	211,486,996,327	220,126,133,972	229,263,640,693
-	-	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004
8,757,048,519,855	8,803,899,834,658	-	-	-	100,000,000	280,000,000	590,000,000
8,757,048,519,855	8,803,899,834,658	-	-	-	100,000,000	280,000,000	590,000,000
8,757,048,519,855	8,803,899,834,658	-	-	-	100,000,000	280,000,000	590,000,000
8,757,048,519,855	8,803,899,834,658	-	-	-	100,000,000	280,000,000	590,000,000
8,757,048,519,855	8,803,899,834,658	-	-	-	-	-	-
8,757,048,519,855	8,803,899,834,658	-	-	-	-	-	-
3,649,372,802,860	3,668,899,589,641	-	184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225
3,649,372,802,860	3,668,899,589,641	-	184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225
3,649,372,802,860	3,668,899,589,641	-	184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225
3,649,372,802,860	3,668,899,589,641	-	184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225
-	-	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004
-	-	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004
-	-	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004

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-	-	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004
-	-	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004
-	-	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004
-	-	-	182,528,123,727	189,812,411,120	197,502,443,737	205,552,953,219	214,119,630,004
3,649,372,802,860	3,668,899,589,641	-	2,242,669,332	2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221
3,649,372,802,860	3,668,899,589,641	-	2,242,669,332	2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221
3,649,372,802,860	3,668,899,589,641	-	2,242,669,332	2,311,250,375	2,474,420,969	2,709,022,009	3,064,144,221
3,649,372,802,860	3,668,899,589,641	-	184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225
3,649,372,802,860	3,668,899,589,641	-	184,770,793,059	192,123,661,494	199,976,864,707	208,261,975,228	217,183,774,225
5,126,939,216,836	5,154,365,711,555	-	-	-	-	-	-
-	-	-	13,868,361,032	14,292,456,839	14,858,054,338	15,631,636,032	16,512,519,839
-	-	-	13,134,203,042	13,535,848,227	14,084,552,590	14,853,180,753	15,734,010,689
-	-	-	15,376,872,374	15,847,098,601	16,382,820,044	17,117,892,584	17,862,556,221
-	-	-	14,394,877,291	14,835,074,016	15,454,768,537	16,378,116,102	17,439,293,460
5,105,336,306,349	5,132,644,869,369	-	196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465
5,105,336,306,349	5,132,644,869,369	-	196,923,001,020	204,647,485,136	212,957,212,275	221,931,069,322	231,558,923,465
5.1269E+12	5.15433E+12	0	0	0	0	0	0
1	1	0	0	0	0	0	0
4064.974122	2179.189587	0	0	0	0	0	0
1.04571E+12	1.05123E+12	0	0	0	0	0	0
1.04571E+12	1.05123E+12	0	0	0	0	0	0
415069180.7	410914873.8	0	0	0	0	0	0
415069180.7	410914873.8	0	0	0	0	0	0
0	0	0	0	0	0	0	0
415069180.7	410914873.8	0	0	0	0	0	0
811310900.3	803196119.7	0	0	0	0	0	0
613190040.5	607055496.7	0	0	0	0	0	0
613190040.5	607055496.7	0	0	0	0	0	0
613190040.5	607055496.7	0	0	0	0	0	0
613190040.5	607055496.7	0	0	0	0	0	0
5.1269E+12	5.15433E+12	0	0	0	0	0	0
5.08292E+12	5.11012E+12	0	0	0	100000000	280000000	590000000
8.75752E+12	8.80437E+12	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

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0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0
0	0		0	0	0	0	0	0

Opex_cost_weighted_output

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1997	1998	1999	2000	2001	2002	2003	2004
17,346,386,345	18,611,348,303	24,182,151,145	30,127,010,858	32,306,310,965	31,754,481,814	31,698,909,162	28,851,980,661
-	-	-	-	-	-	-	-

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1997	1998	1999	2000	2001	2002	2003	2004
17,346,386,345	18,611,348,303	24,182,151,145	30,127,010,858	32,306,310,965	30,847,210,905	29,913,419,585	26,448,938,726
223,312,786,835	233,273,751,659	225,962,031,277	217,544,045,737	233,824,448,283	216,312,317,120	207,877,167,427	271,677,842,047
17,346,386,345	18,611,348,303	24,182,151,145	30,127,010,858	32,306,310,965	30,242,363,633	28,751,845,045	24,923,425,687
17,346,386,345	18,611,348,303	24,182,151,145	30,127,010,858	32,306,310,965	30,242,363,633	28,751,845,045	24,923,425,687
17,346,386,345	18,611,348,303	24,182,151,145	30,127,010,858	32,306,310,965	30,242,363,633	28,751,845,045	24,923,425,687
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
-	-	-	70,487	4,849,524	56,869,759	279,967,127	1,319,437,493
17,346,386,345	18,611,348,303	24,182,151,145	30,127,010,858	32,306,310,965	30,242,363,633	28,751,845,045	24,923,425,687
-	-	-	70,487	4,849,524	56,869,759	279,967,127	1,319,437,493
-	-	-	70,487	4,849,524	56,869,759	279,967,127	1,319,437,493
-	-	-	70,487	4,849,524	56,869,759	279,967,127	1,319,437,493
-	-	-	70,487	4,849,524	56,869,759	279,967,127	1,319,437,493
223,312,786,835	233,273,751,659	225,962,031,277	217,544,045,737	233,824,448,283	212,070,899,137	199,805,043,663	256,008,098,362
223,312,786,835	233,273,751,659	225,962,031,277	217,544,045,737	233,824,448,283	212,070,899,137	199,805,043,663	256,008,098,362
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850
-	-	-	173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850
-	-	-	173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850
-	-	-	173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850
-	-	-	-	-	-	-	-
-	-	-	173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850
-	-	-	173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850
-	-	-	173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850
-	-	-	173,243	6,423,403	67,087,305	10,775,788,329	43,989,271,850
16,575,149,494	17,854,588,323	23,415,590,346	29,380,225,924	31,653,173,024	30,294,426,361	29,436,261,243	26,068,396,145
225,471,934,835	237,497,277,659	235,633,681,277	232,346,639,737	251,270,448,283	232,991,357,120	222,993,225,650	283,057,568,485
16,575,149,494	17,854,588,323	23,415,590,346	29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913
16,575,149,494	17,854,588,323	23,415,590,346	29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913
16,575,149,494	17,854,588,323	23,415,590,346	29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913
16,575,149,494	17,854,588,323	23,415,590,346	29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913
16,575,149,494	17,854,588,323	23,415,590,346	29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
2,159,148,000	4,223,526,000	9,671,650,000	14,802,767,243	17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565

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2,159,148,000	4,223,526,000	9,671,650,000	14,802,767,243	17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565
2,159,148,000	4,223,526,000	9,671,650,000	14,802,767,243	17,452,423,403	16,419,087,305	25,319,015,097	54,756,510,565
-	-	-	173,243	6,423,403	67,087,305	10,673,289,113	43,784,510,565
225,471,934,835	237,497,277,659	235,633,681,277	232,346,639,737	251,270,448,283	228,422,899,137	214,334,126,922	266,731,468,746
225,471,934,835	237,497,277,659	235,633,681,277	232,346,639,737	251,270,448,283	228,422,899,137	214,334,126,922	266,731,468,746
18,366,087,871	18,792,562,744	21,537,261,077	25,413,670,298	26,714,338,889	25,884,603,065	26,041,679,144	24,564,983,396
224,392,360,835	235,385,514,659	230,797,856,277	224,945,342,737	242,547,448,283	224,651,837,120	213,600,798,431	269,840,519,804
18,366,087,871	18,792,562,744	21,537,261,077	25,413,670,298	26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502
18,366,087,871	18,792,562,744	21,537,261,077	25,413,670,298	26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502
-	-	-	-	-	-	30,655,382,295	26,811,438,352
-	-	-	-	-	-	30,655,382,295	26,811,438,352
-	-	-	-	-	-	25,030,449,004	23,148,132,502
-	-	-	-	-	-	988,133,257	888,012,665
-	-	-	-	-	-	988,133,257	888,012,665
-	-	-	-	-	-	988,133,257	888,012,665
-	-	-	-	-	-	8,240	8,240
-	-	-	-	-	-	25,030,449,004	23,148,132,502
224,392,360,835	235,385,514,659	230,797,856,277	224,945,342,737	242,547,448,283	220,246,899,137	205,306,419,100	254,276,748,577
224,392,360,835	235,385,514,659	230,797,856,277	224,945,342,737	242,547,448,283	220,246,899,137	205,306,419,100	254,276,748,577
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1,079,574,000	2,111,763,000	4,835,825,000	7,401,367,487	8,727,849,524	8,232,869,759	7,602,830,119	6,805,437,493
1,079,574,000	2,111,763,000	4,835,825,000	7,401,367,487	8,727,849,524	8,232,869,759	7,602,830,119	6,805,437,493
1,079,574,000	2,111,763,000	4,835,825,000	7,401,367,487	8,727,849,524	8,232,869,759	7,602,830,119	6,805,437,493
1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243	8,729,423,403	8,243,087,305	16,291,307,274	42,301,790,395
1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243	8,729,423,403	8,243,087,305	16,291,307,274	42,301,790,395
-	-	-	70,487	4,849,524	56,869,759	279,967,127	1,319,437,493
1,079,574,000	2,111,763,000	4,835,825,000	7,401,367,487	8,727,849,524	8,232,869,759	7,602,830,119	6,805,437,493
1,079,574,000	2,111,763,000	4,835,825,000	7,401,367,487	8,727,849,524	8,232,869,759	7,602,830,119	6,805,437,493
1	1	1	1	1	1	1	1
4,076,264,960	4,728,595,541	7,099,403,479	11,006,911,265	13,621,756,267	14,035,901,288	14,868,721,908	14,592,347,178
241,754,190,215	253,187,503,201	251,385,869,256	249,132,502,101	267,958,766,737	244,143,569,680	225,256,162,791	261,623,012,867
241,754,190,215	253,187,503,201	251,385,869,256	249,132,502,101	267,958,766,737	244,143,569,680	225,256,162,791	261,623,012,867
18,441,403,379	19,913,751,541	25,423,837,978	31,588,456,363	34,134,318,453	32,072,670,542	30,655,382,295	26,811,438,352
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
240,659,173,180	251,885,099,962	250,144,182,421	247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719
240,659,173,180	251,885,099,962	250,144,182,421	247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719

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240,659,173,180	251,885,099,962	250,144,182,421	247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719
240,659,173,180	251,885,099,962	250,144,182,421	247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719
240,659,173,180	251,885,099,962	250,144,182,421	247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719
240,659,173,180	251,885,099,962	250,144,182,421	247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719
240,659,173,180	251,885,099,962	250,144,182,421	247,671,056,595	266,130,759,249	242,313,262,770	228,601,753,045	281,076,705,719
240,659,173,180	251,885,099,962	250,144,182,421	247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189
240,659,173,180	251,885,099,962	250,144,182,421	247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189
240,659,173,180	251,885,099,962	250,144,182,421	247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189
240,659,173,180	251,885,099,962	250,144,182,421	247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189
240,659,173,180	251,885,099,962	250,144,182,421	247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189
240,659,173,180	251,885,099,962	250,144,182,421	247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189
240,659,173,180	251,885,099,962	250,144,182,421	247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189
240,659,173,180	251,885,099,962	250,144,182,421	247,670,986,108	266,125,909,724	242,256,393,011	217,823,530,907	237,073,857,189
223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503
-	-	-	173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520
-	-	-	173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520
-	-	-	173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520
-	-	-	173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520
-	-	-	173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520
-	-	-	173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520
-	-	-	173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520
-	-	-	173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520
239,887,936,329	251,128,339,981	249,377,621,623	246,924,271,661	265,477,621,308	241,771,317,138	227,816,515,519	279,781,040,216
239,887,936,329	251,128,339,981	249,377,621,623	246,924,271,661	265,477,621,308	241,771,317,138	227,816,515,519	279,781,040,216
239,887,936,329	251,128,339,981	249,377,621,623	246,924,271,661	265,477,621,308	241,771,317,138	227,816,515,519	279,781,040,216
239,887,936,329	251,128,339,981	249,377,621,623	246,924,271,661	265,477,621,308	241,771,317,138	227,816,515,519	279,781,040,216
238,808,362,329	249,016,576,981	244,541,796,623	239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416
238,808,362,329	249,016,576,981	244,541,796,623	239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416
238,808,362,329	249,016,576,981	244,541,796,623	239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416
238,808,362,329	249,016,576,981	244,541,796,623	239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416
238,808,362,329	249,016,576,981	244,541,796,623	239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416
238,808,362,329	249,016,576,981	244,541,796,623	239,522,904,174	256,749,771,784	233,538,447,379	210,042,038,213	231,229,263,416
223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503
1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121
1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121
1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121
1,079,574,000	2,111,763,000	4,835,825,000	7,401,470,243	8,729,423,403	8,243,087,305	17,831,051,343	48,727,250,121
-	-	-	173,243	6,423,403	67,087,305	10,508,188,351	43,241,250,121
-	-	-	173,243	6,423,403	67,087,305	10,508,188,351	43,241,250,121
226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268
226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268
226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268
226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268
223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503
223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503
223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503

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223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503
223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503
223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503
223,312,786,835	233,273,751,659	225,962,031,277	217,543,975,250	233,819,598,759	212,014,029,378	189,071,685,862	212,150,431,503
3,569,473,088	4,597,302,500	7,545,302,378	10,382,246,539	11,822,572,131	11,225,392,371	14,060,296,365	23,222,916,765
3,569,473,088	4,597,302,500	7,545,302,378	10,382,246,539	11,822,572,131	11,225,392,371	14,060,296,365	23,222,916,765
3,569,473,088	4,597,302,500	7,545,302,378	10,382,246,539	11,822,572,131	11,225,392,371	14,060,296,365	23,222,916,765
226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268
226,882,259,923	237,871,054,159	233,507,333,655	227,926,221,789	245,642,170,891	223,239,421,749	203,131,982,227	235,373,348,268
-	-	-	173,243	6,423,403	67,087,305	10,820,652,666	44,134,453,520
17,346,386,345	18,611,348,303	24,182,151,145	30,127,010,858	32,306,310,965	30,242,363,633	28,751,845,045	24,923,425,687
16,575,149,494	17,854,588,323	23,415,590,346	29,380,225,924	31,653,173,024	29,700,418,001	28,293,215,343	24,564,831,913
18,366,087,871	18,792,562,744	21,537,261,077	25,413,670,298	26,714,338,889	25,377,061,828	25,030,449,004	23,148,132,502
18,441,403,379	19,913,751,541	25,423,837,978	31,588,456,363	34,134,318,453	32,072,670,542	30,655,382,295	26,811,438,352
241,754,190,215	253,187,503,201	251,385,869,256	249,132,502,101	267,958,766,737	244,143,569,680	225,256,162,791	261,623,012,867
241,754,190,215	253,187,503,201	251,385,869,256	249,132,502,101	267,958,766,737	244,143,569,680	225,256,162,791	261,623,012,867
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1079574000	2111763000	4835825000	7401367487	8727849524	8232869759	7602830119	6805437493
0	0	0	173242.8123	6423402.513	67087305.09	10673289113	43784510565
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2005	2006	2007	2008	2009	2010	2011	2012
24,294,061,871	19,837,088,925	16,888,370,173	14,239,118,203	11,087,879,109	10,006,407,678	8,721,442,222	7,652,993,936
-	-	-	-	-	-	-	-

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2005	2006	2007	2008	2009	2010	2011	2012
21,634,338,668	17,160,593,490	14,192,306,306	11,624,096,430	8,792,967,414	7,509,534,955	6,193,997,522	5,143,538,055
368,898,786,527	407,226,135,556	373,160,233,325	451,233,547,468	575,794,762,806	634,799,461,967	696,516,520,302	731,934,874,109
19,986,784,824	15,542,878,239	12,602,361,847	10,119,475,465	7,504,713,022	6,607,542,038	5,618,575,029	4,810,003,368
19,986,784,824	15,542,878,239	12,602,361,847	10,119,475,465	7,504,713,022	6,607,542,038	5,618,575,029	4,810,003,368
19,986,784,824	15,542,878,239	12,602,361,847	10,119,475,465	7,504,713,022	6,607,542,038	5,618,575,029	4,810,003,368
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
4,851,015,485	13,007,933,896	29,448,677,081	56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840
19,986,784,824	15,542,878,239	12,602,361,847	10,119,475,465	7,504,713,022	6,607,542,038	5,618,575,029	4,810,003,368
4,851,015,485	13,007,933,896	29,448,677,081	56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840
4,851,015,485	13,007,933,896	29,448,677,081	56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840
4,851,015,485	13,007,933,896	29,448,677,081	56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840
4,851,015,485	13,007,933,896	29,448,677,081	56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840
340,805,456,600	368,837,257,541	331,355,608,163	392,825,957,680	491,435,285,837	558,551,781,882	631,810,121,641	684,472,278,012
340,805,456,600	368,837,257,541	331,355,608,163	392,825,957,680	491,435,285,837	558,551,781,882	631,810,121,641	684,472,278,012
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253
89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253
89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253
89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253
-	-	-	-	-	-	-	-
89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253
89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253
89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253
89,207,201,487	122,630,317,122	142,066,238,053	199,252,522,520	276,129,740,342	381,451,203,309	511,611,696,695	693,642,407,253
21,317,533,849	16,897,423,166	13,969,612,006	11,434,541,156	8,646,088,233	7,388,888,869	6,101,730,872	5,070,764,330
377,580,435,812	418,036,050,997	393,649,837,452	493,722,944,576	648,071,357,710	754,031,601,537	872,622,676,040	977,125,315,974
19,694,106,141	15,304,516,768	12,404,615,682	9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683
19,694,106,141	15,304,516,768	12,404,615,682	9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683
19,694,106,141	15,304,516,768	12,404,615,682	9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683
19,694,106,141	15,304,516,768	12,404,615,682	9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683
19,694,106,141	15,304,516,768	12,404,615,682	9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
97,456,098,126	133,318,768,931	162,869,793,963	244,779,172,358	360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967

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97,456,098,126	133,318,768,931	162,869,793,963	244,779,172,358	360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967
97,456,098,126	133,318,768,931	162,869,793,963	244,779,172,358	360,713,323,992	540,881,565,942	775,129,939,212	1,102,451,792,967
90,724,098,126	130,100,956,931	161,259,823,570	244,133,010,358	360,436,263,992	540,684,035,942	775,011,939,212	1,102,353,459,634
348,825,958,582	378,628,131,008	349,549,790,259	429,815,534,816	553,122,663,649	663,462,589,160	791,556,011,991	913,763,252,151
348,825,958,582	378,628,131,008	349,549,790,259	429,815,534,816	553,122,663,649	663,462,589,160	791,556,011,991	913,763,252,151
21,596,453,229	18,655,994,883	16,288,724,890	13,992,937,415	10,912,631,482	9,369,896,168	7,761,090,624	6,366,876,442
362,811,435,193	404,583,075,103	380,784,467,042	481,150,142,150	633,741,057,317	741,438,446,675	861,620,581,711	968,033,678,594
19,951,784,534	16,897,309,353	14,463,921,554	12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910
19,951,784,534	16,897,309,353	14,463,921,554	12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910
21,893,814,353	17,452,792,219	14,510,551,958	12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078
21,893,814,353	17,452,792,219	14,510,551,958	12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078
19,951,784,534	16,897,309,353	14,463,921,554	12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910
907,029,530	909,913,980	908,190,111	896,776,247	330,965,059	342,184,679	345,337,498	301,553,214
907,029,530	909,913,980	908,190,111	896,776,247	330,965,059	342,184,679	345,337,498	301,553,214
907,029,530	909,913,980	908,190,111	896,776,247	330,965,059	342,184,679	345,337,498	301,553,214
7,600	6,960	6,320	5,680	4,800	4,160	4,160	4,160
19,951,784,534	16,897,309,353	14,463,921,554	12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910
335,181,684,914	366,443,356,257	338,125,709,514	418,870,153,690	540,891,890,248	652,382,036,152	781,576,012,445	905,261,165,464
335,181,684,914	366,443,356,257	338,125,709,514	418,870,153,690	540,891,890,248	652,382,036,152	781,576,012,445	905,261,165,464
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-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
8,217,015,485	14,616,839,896	30,253,662,277	56,585,060,368	94,045,901,659	148,315,081,770	224,878,566,663	321,973,675,507
8,217,015,485	14,616,839,896	30,253,662,277	56,585,060,368	94,045,901,659	148,315,081,770	224,878,566,663	321,973,675,507
8,217,015,485	14,616,839,896	30,253,662,277	56,585,060,368	94,045,901,659	148,315,081,770	224,878,566,663	321,973,675,507
83,811,824,458	121,133,994,180	151,445,713,218	233,833,791,232	348,482,550,591	529,801,012,934	765,149,939,666	1,093,949,706,280
83,811,824,458	121,133,994,180	151,445,713,218	233,833,791,232	348,482,550,591	529,801,012,934	765,149,939,666	1,093,949,706,280
4,851,015,485	13,007,933,896	29,448,677,081	56,261,979,368	93,907,371,659	148,216,316,770	224,819,566,663	321,924,508,840
8,217,015,485	14,616,839,896	30,253,662,277	56,585,060,368	94,045,901,659	148,315,081,770	224,878,566,663	321,973,675,507
8,217,015,485	14,616,839,896	30,253,662,277	56,585,060,368	94,045,901,659	148,315,081,770	224,878,566,663	321,973,675,507
1	1	1	1	1	1	1	1
12,850,122,291	11,048,680,259	9,574,114,150	8,106,580,307	6,229,434,669	5,590,560,632	4,881,438,668	4,161,452,829
320,869,087,421	332,358,380,756	291,847,282,765	339,873,257,462	426,364,513,927	487,981,496,616	567,805,356,883	629,976,574,908
320,869,087,421	332,358,380,756	291,847,282,765	339,873,257,462	426,364,513,927	487,981,496,616	567,805,356,883	629,976,574,908
21,893,814,353	17,452,792,219	14,510,551,958	12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
361,031,271,044	384,643,217,092	344,188,819,913	403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221
361,031,271,044	384,643,217,092	344,188,819,913	403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221

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361,031,271,044	384,643,217,092	344,188,819,913	403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221
361,031,271,044	384,643,217,092	344,188,819,913	403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221
361,031,271,044	384,643,217,092	344,188,819,913	403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221
361,031,271,044	384,643,217,092	344,188,819,913	403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221
361,031,271,044	384,643,217,092	344,188,819,913	403,192,463,380	499,191,920,596	565,402,591,376	637,629,992,313	689,440,069,221
272,041,829,251	263,245,782,562	206,240,688,312	216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332
272,041,829,251	263,245,782,562	206,240,688,312	216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332
272,041,829,251	263,245,782,562	206,240,688,312	216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332
272,041,829,251	263,245,782,562	206,240,688,312	216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332
272,041,829,251	263,245,782,562	206,240,688,312	216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332
272,041,829,251	263,245,782,562	206,240,688,312	216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332
272,041,829,251	263,245,782,562	206,240,688,312	216,498,519,679	257,154,567,273	260,035,498,108	271,098,293,011	246,965,650,332
252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964
89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094
89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094
89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094
89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094
89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094
89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094
89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094
89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094
360,890,088,582	389,746,218,217	359,490,290,906	438,206,288,132	559,282,281,816	668,854,193,317	796,216,673,176	917,811,218,403
360,890,088,582	389,746,218,217	359,490,290,906	438,206,288,132	559,282,281,816	668,854,193,317	796,216,673,176	917,811,218,403
360,890,088,582	389,746,218,217	359,490,290,906	438,206,288,132	559,282,281,816	668,854,193,317	796,216,673,176	917,811,218,403
360,890,088,582	389,746,218,217	359,490,290,906	438,206,288,132	559,282,281,816	668,854,193,317	796,216,673,176	917,811,218,403
268,383,150,568	261,398,515,091	205,237,956,950	216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981
268,383,150,568	261,398,515,091	205,237,956,950	216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981
268,383,150,568	261,398,515,091	205,237,956,950	216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981
268,383,150,568	261,398,515,091	205,237,956,950	216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981
268,383,150,568	261,398,515,091	205,237,956,950	216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981
268,383,150,568	261,398,515,091	205,237,956,950	216,010,419,405	256,890,677,306	259,830,578,187	270,955,597,934	246,848,428,981
252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964
93,192,121,986	130,741,245,372	161,210,664,124	243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203
93,192,121,986	130,741,245,372	161,210,664,124	243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203
93,192,121,986	130,741,245,372	161,210,664,124	243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203
93,192,121,986	130,741,245,372	161,210,664,124	243,538,550,483	359,632,119,103	539,870,547,983	774,314,720,445	1,101,806,977,203
89,826,121,986	129,132,339,372	160,405,678,928	243,215,469,483	359,493,589,103	539,771,782,983	774,255,720,445	1,101,757,810,537
89,826,121,986	129,132,339,372	160,405,678,928	243,215,469,483	359,493,589,103	539,771,782,983	774,255,720,445	1,101,757,810,537
292,022,140,428	302,674,069,500	257,376,590,787	300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935
292,022,140,428	302,674,069,500	257,376,590,787	300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935
292,022,140,428	302,674,069,500	257,376,590,787	300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935
292,022,140,428	302,674,069,500	257,376,590,787	300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935
252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964
252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964
252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964

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252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964
252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964
252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964
252,055,044,427	247,702,904,323	193,638,326,465	206,379,044,214	249,649,854,250	253,427,956,071	265,479,717,982	242,155,646,964
39,967,096,001	54,971,165,177	63,738,264,323	93,728,037,956	125,630,653,868	174,347,614,200	222,256,287,697	282,410,815,971
39,967,096,001	54,971,165,177	63,738,264,323	93,728,037,956	125,630,653,868	174,347,614,200	222,256,287,697	282,410,815,971
39,967,096,001	54,971,165,177	63,738,264,323	93,728,037,956	125,630,653,868	174,347,614,200	222,256,287,697	282,410,815,971
292,022,140,428	302,674,069,500	257,376,590,787	300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935
292,022,140,428	302,674,069,500	257,376,590,787	300,107,082,170	375,280,508,119	427,775,570,271	487,736,005,679	524,566,462,935
89,446,231,108	122,893,398,434	142,297,087,957	199,499,552,755	276,381,662,080	381,694,470,765	511,812,992,338	693,800,195,094
19,986,784,824	15,542,878,239	12,602,361,847	10,119,475,465	7,504,713,022	6,607,542,038	5,618,575,029	4,810,003,368
19,694,106,141	15,304,516,768	12,404,615,682	9,954,456,191	7,379,353,056	6,501,387,117	5,534,879,952	4,741,948,683
19,951,784,534	16,897,309,353	14,463,921,554	12,181,694,095	9,313,825,894	8,244,449,648	7,040,085,150	5,954,013,910
21,893,814,353	17,452,792,219	14,510,551,958	12,016,251,712	8,742,297,184	7,761,835,526	6,650,005,918	5,621,464,078
320,869,087,421	332,358,380,756	291,847,282,765	339,873,257,462	426,364,513,927	487,981,496,616	567,805,356,883	629,976,574,908
320,869,087,421	332,358,380,756	291,847,282,765	339,873,257,462	426,364,513,927	487,981,496,616	567,805,356,883	629,976,574,908
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8217015485	14616839896	30253662277	56585060368	94045901659	1.48315E+11	2.24879E+11	3.21974E+11
90724098126	1.30101E+11	1.6126E+11	2.44133E+11	3.60436E+11	5.40684E+11	7.75012E+11	1.10235E+12
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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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2013	2014	2015	2016	2017	2018	2019	2020
1,812,674,959	1,172,474,922	692,435,961	309,321,685	-	-	-	-
-	-	-	-	-	-	-	-

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2013	2014	2015	2016	2017	2018	2019	2020
1,152,917,927	745,730,695	440,410,913	196,738,259	-	-	-	-
558,585,743,303	642,943,202,499	742,754,459,051	609,521,191,882	672,385,447,965	690,458,760,704	681,185,358,019	651,653,206,931
1,111,501,571	718,941,756	424,589,999	189,670,816	-	-	-	-
1,111,501,571	718,941,756	424,589,999	189,670,816	-	-	-	-
1,111,501,571	718,941,756	424,589,999	-	-	-	-	-
1	1	1	-	-	-	-	-
1	1	1	-	-	-	-	-
1	1	1	-	-	-	-	-
299,604,010,129	378,536,466,484	463,045,437,788	-	-	-	-	-
1,111,501,571	718,941,756	424,589,999	-	-	-	-	-
299,604,010,129	378,536,466,484	463,045,437,788	-	-	-	-	-
299,604,010,129	378,536,466,484	463,045,437,788	-	-	-	-	-
299,604,010,129	378,536,466,484	463,045,437,788	-	-	-	-	-
299,604,010,129	378,536,466,484	463,045,437,788	-	-	-	-	-
538,519,626,510	619,846,706,487	716,072,435,919	587,625,317,219	648,231,296,001	665,655,359,795	656,715,086,238	628,243,820,788
538,519,626,510	619,846,706,487	716,072,435,919	587,625,317,219	648,231,296,001	665,655,359,795	656,715,086,238	628,243,820,788
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
1	1	1	1	1	1	1	1
299,604,010,129	378,536,466,484	463,045,437,788	544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607
299,604,010,129	378,536,466,484	463,045,437,788	544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
-	-	-	-	-	-	-	-
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
652,862,121,588	856,487,226,483	1,102,775,948,740	1,390,255,578,600	1,701,593,955,806	2,009,947,792,500	2,335,398,185,339	2,659,425,293,111
1,137,740,900	736,709,493	435,781,263	194,710,581	-	-	-	-
780,418,092,983	923,326,403,815	1,085,785,705,797	1,012,636,649,674	1,118,641,896,011	1,152,724,569,766	1,137,431,523,994	1,087,454,498,012
1,096,869,750	710,244,624	420,126,660	187,715,979	-	-	-	-
1,096,869,750	710,244,624	420,126,660	187,715,979	-	-	-	-
1,096,869,750	710,244,624	420,126,660	-	-	-	-	-
1,096,869,750	710,244,624	420,126,660	-	-	-	-	-
1,096,869,750	710,244,624	420,126,660	-	-	-	-	-
2,905,071,479	2,686,704,530	2,511,479,922	2,391,688,369	2,189,463,701	1,881,536,005	1,623,762,939	1,394,829,515
2,905,071,479	2,686,704,530	2,511,479,922	2,391,688,369	2,189,463,701	1,881,536,005	1,623,762,939	1,394,829,515
1,066,839,746,507	1,425,866,839,862	1,854,357,480,487	2,352,197,219,673	2,884,221,400,466	3,415,816,473,363	3,974,313,943,195	4,530,415,171,121

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1,066,839,746,507	1,425,866,839,862	1,854,357,480,487	2,352,197,219,673	2,884,221,400,466	3,415,816,473,363	3,974,313,943,195	4,530,415,171,121
1,066,839,746,507	1,425,866,839,862	1,854,357,480,487	2,352,197,219,673	2,884,221,400,466	3,415,816,473,363	3,974,313,943,195	4,530,415,171,121
1,066,761,079,841	1,425,807,839,862	1,854,318,147,153	2,352,197,219,673	2,884,221,400,466	3,415,816,473,363	3,974,313,943,195	4,530,415,171,121
752,383,076,356	890,157,681,414	1,046,780,945,927	976,259,628,734	1,078,456,840,800	1,111,315,160,155	1,096,571,487,592	1,048,389,789,996
752,383,076,356	890,157,681,414	1,046,780,945,927	976,259,628,734	1,078,456,840,800	1,111,315,160,155	1,096,571,487,592	1,048,389,789,996
1,282,568,408	827,719,131	486,498,266	229,326,721	-	-	-	-
775,220,932,844	919,108,042,527	1,082,180,041,902	1,009,531,011,809	1,115,371,422,625	1,149,711,961,073	1,134,447,885,584	1,084,504,842,759
1,236,494,609	797,984,916	469,021,753	221,088,601	-	-	-	-
1,236,494,609	797,984,916	469,021,753	221,088,601	-	-	-	-
1,279,494,428	831,239,175	492,125,242	-	-	-	-	-
1,279,494,428	831,239,175	492,125,242	-	-	-	-	-
1,236,494,609	797,984,916	469,021,753	-	-	-	-	-
71,737,777	46,443,553	27,160,589	-	-	-	-	-
71,737,777	46,443,553	27,160,589	-	-	-	-	-
71,737,777	46,443,553	27,160,589	-	-	-	-	-
1,440	1,440	1,440	-	-	-	-	-
1,236,494,609	797,984,916	469,021,753	-	-	-	-	-
747,372,614,184	886,090,856,629	1,043,304,808,561	973,265,554,927	1,075,303,852,870	1,108,410,773,626	1,093,695,030,645	1,045,546,095,426
747,372,614,184	886,090,856,629	1,043,304,808,561	973,265,554,927	1,075,303,852,870	1,108,410,773,626	1,093,695,030,645	1,045,546,095,426
2,780,464,207	2,647,518,869	2,561,079,466	2,506,464,829	2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203
2,780,464,207	2,647,518,869	2,561,079,466	2,506,464,829	2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203
2,519,658,228	2,390,891,128	2,310,661,368	2,248,180,083	2,069,073,539	1,822,309,716	1,604,967,101	1,414,677,867
2,519,658,228	2,390,891,128	2,310,661,368	2,248,180,083	2,069,073,539	1,822,309,716	1,604,967,101	1,414,677,867
2,780,464,207	2,647,518,869	2,561,079,466	2,506,464,829	2,287,733,478	2,039,178,914	1,816,031,729	1,623,256,203
1,160	1,080	1,080	1,040	960	880	760	720
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
299,643,343,463	378,565,966,484	463,065,104,455	544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607
299,643,343,463	378,565,966,484	463,065,104,455	544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607
299,643,343,463	378,565,966,484	463,065,104,455	544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607
1,061,829,284,335	1,421,800,015,077	1,850,881,343,121	2,349,203,145,866	2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551
1,061,829,284,335	1,421,800,015,077	1,850,881,343,121	2,349,203,145,866	2,881,068,412,537	3,412,912,086,834	3,971,437,486,247	4,527,571,476,551
299,604,010,129	378,536,466,484	463,045,437,788	544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607
299,643,343,463	378,565,966,484	463,065,104,455	544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607
299,643,343,463	378,565,966,484	463,065,104,455	544,121,043,248	602,420,804,764	623,992,222,082	615,866,740,479	588,266,460,607
1	1	1	1	1	1	1	1
3,449,582,859	3,004,423,491	2,683,206,931	2,426,470,096	2,069,073,539	1,822,309,716	1,604,967,101	1,414,677,867
505,006,078,075	592,682,696,991	692,842,136,364	567,570,533,496	626,660,076,528	645,999,267,423	637,331,448,956	609,178,435,376
505,006,078,075	592,682,696,991	692,842,136,364	567,570,533,496	626,660,076,528	645,999,267,423	637,331,448,956	609,178,435,376
1,279,494,428	831,239,175	492,125,242	222,606,183	-	-	-	-
3,165,877,458	2,943,332,271	2,761,898,020	2,649,973,116	2,408,123,640	2,098,405,203	1,834,827,567	1,603,407,852
2,905,071,479	2,686,704,530	2,511,479,922	2,391,688,369	2,189,463,701	1,881,536,005	1,623,762,939	1,394,829,515
539,716,625,273	620,629,857,053	716,548,140,722	587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955
539,716,625,273	620,629,857,053	716,548,140,722	587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955

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539,716,625,273	620,629,857,053	716,548,140,722	587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955
539,716,625,273	620,629,857,053	716,548,140,722	587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955
539,716,625,273	620,629,857,053	716,548,140,722	587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955
539,716,625,273	620,629,857,053	716,548,140,722	587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955
539,716,625,273	620,629,857,053	716,548,140,722	587,856,224,329	648,272,564,712	665,691,038,362	656,750,265,236	628,278,423,955
166,928,851,596	182,774,515,594	202,943,307,612	189,670,816	-	-	-	-
166,928,851,596	182,774,515,594	202,943,307,612	189,670,816	-	-	-	-
166,928,851,596	182,774,515,594	202,943,307,612	189,670,816	-	-	-	-
166,928,851,596	182,774,515,594	202,943,307,612	189,670,816	-	-	-	-
166,928,851,596	182,774,515,594	202,943,307,612	189,670,816	-	-	-	-
166,928,851,596	182,774,515,594	202,943,307,612	189,670,816	-	-	-	-
166,928,851,596	182,774,515,594	202,943,307,612	189,670,816	-	-	-	-
166,928,851,596	182,774,515,594	202,943,307,612	189,670,816	-	-	-	-
165,817,350,024	182,055,573,838	202,518,717,613	-	-	-	-	-
652,947,618,780	856,551,435,293	1,102,827,063,544	1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278
652,947,618,780	856,551,435,293	1,102,827,063,544	1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278
652,947,618,780	856,551,435,293	1,102,827,063,544	1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278
652,947,618,780	856,551,435,293	1,102,827,063,544	1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278
652,947,618,780	856,551,435,293	1,102,827,063,544	1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278
652,947,618,780	856,551,435,293	1,102,827,063,544	1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278
652,947,618,780	856,551,435,293	1,102,827,063,544	1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278
652,947,618,780	856,551,435,293	1,102,827,063,544	1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278
752,786,728,828	890,262,556,041	1,046,662,136,488	975,973,084,873	1,078,006,560,220	1,110,885,111,523	1,096,150,228,452	1,047,974,457,740
752,786,728,828	890,262,556,041	1,046,662,136,488	975,973,084,873	1,078,006,560,220	1,110,885,111,523	1,096,150,228,452	1,047,974,457,740
752,786,728,828	890,262,556,041	1,046,662,136,488	975,973,084,873	1,078,006,560,220	1,110,885,111,523	1,096,150,228,452	1,047,974,457,740
752,786,728,828	890,262,556,041	1,046,662,136,488	975,973,084,873	1,078,006,560,220	1,110,885,111,523	1,096,150,228,452	1,047,974,457,740
166,874,886,441	182,736,318,461	202,919,177,607	187,715,979	-	-	-	-
166,874,886,441	182,736,318,461	202,919,177,607	187,715,979	-	-	-	-
166,874,886,441	182,736,318,461	202,919,177,607	187,715,979	-	-	-	-
166,874,886,441	182,736,318,461	202,919,177,607	187,715,979	-	-	-	-
166,874,886,441	182,736,318,461	202,919,177,607	187,715,979	-	-	-	-
166,874,886,441	182,736,318,461	202,919,177,607	187,715,979	-	-	-	-
165,817,350,024	182,055,573,838	202,518,717,613	-	-	-	-	-
1,066,185,862,562	1,425,290,969,866	1,853,838,211,054	2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865
1,066,185,862,562	1,425,290,969,866	1,853,838,211,054	2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865
1,066,185,862,562	1,425,290,969,866	1,853,838,211,054	2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865
1,066,185,862,562	1,425,290,969,866	1,853,838,211,054	2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865
1,066,146,529,229	1,425,261,469,866	1,853,818,544,387	2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865
1,066,146,529,229	1,425,261,469,866	1,853,818,544,387	2,351,722,959,834	2,883,771,119,887	3,415,386,424,730	3,973,892,684,054	4,529,999,838,865
410,285,776,830	476,990,829,978	554,080,102,958	406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471
410,285,776,830	476,990,829,978	554,080,102,958	406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471
410,285,776,830	476,990,829,978	554,080,102,958	406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471
410,285,776,830	476,990,829,978	554,080,102,958	406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471
165,817,350,024	182,055,573,838	202,518,717,613	-	-	-	-	-
165,817,350,024	182,055,573,838	202,518,717,613	-	-	-	-	-
165,817,350,024	182,055,573,838	202,518,717,613	-	-	-	-	-

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165,817,350,024	182,055,573,838	202,518,717,613	-	-	-	-	-
165,817,350,024	182,055,573,838	202,518,717,613	-	-	-	-	-
165,817,350,024	182,055,573,838	202,518,717,613	-	-	-	-	-
165,817,350,024	182,055,573,838	202,518,717,613	-	-	-	-	-
244,468,426,806	294,935,256,141	351,561,385,345	406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471
244,468,426,806	294,935,256,141	351,561,385,345	406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471
244,468,426,806	294,935,256,141	351,561,385,345	406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471
410,285,776,830	476,990,829,978	554,080,102,958	406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471
410,285,776,830	476,990,829,978	554,080,102,958	406,470,663,197	449,156,126,254	462,894,173,248	456,834,123,168	436,829,175,471
652,947,618,780	856,551,435,293	1,102,827,063,544	1,390,296,814,894	1,701,635,224,517	2,009,983,471,066	2,335,433,364,337	2,659,459,896,278
1,111,501,571	718,941,756	424,589,999	189,670,816	-	-	-	-
1,096,869,750	710,244,624	420,126,660	187,715,979	-	-	-	-
1,236,494,609	797,984,916	469,021,753	221,088,601	-	-	-	-
1,279,494,428	831,239,175	492,125,242	222,606,183	-	-	-	-
505,006,078,075	592,682,696,991	692,842,136,364	567,570,533,496	626,660,076,528	645,999,267,423	637,331,448,956	609,178,435,376
505,006,078,075	592,682,696,991	692,842,136,364	567,570,533,496	626,660,076,528	645,999,267,423	637,331,448,956	609,178,435,376
4.10156E+11	5.14186E+11	6.35365E+11	7.80442E+11	9.57375E+11	1.13517E+12	1.33231E+12	1.54794E+12
1	1	1	1	1	1	1	1
2.99604E+11	3.78536E+11	4.63045E+11	5.44121E+11	6.02421E+11	6.23992E+11	6.15867E+11	5.88266E+11
10700993130	21827200565	34803212659	55090509893	88326870922	1.34147E+11	1.93027E+11	2.62771E+11
3.10305E+11	4.00364E+11	4.97849E+11	5.99212E+11	6.90748E+11	7.58139E+11	8.08894E+11	8.51038E+11
2905071479	2686704530	2511479922	2391688369	2189463701	1881536005	1623762939	1394829515
2905071479	2686704530	2511479922	2391688369	2189463701	1881536005	1623762939	1394829515
0	0	0	0	0	0	0	0
2905071479	2686704530	2511479922	2391688369	2189463701	1881536005	1623762939	1394829515
2780464207	2647518869	2561079466	2506464829	2287733478	2039178914	1816031729	1623256203
2519658228	2390891128	2310661368	2248180083	2069073539	1822309716	1604967101	1414677867
2519658228	2390891128	2310661368	2248180083	2069073539	1822309716	1604967101	1414677867
2519658228	2390891128	2310661368	2248180083	2069073539	1822309716	1604967101	1414677867
2519658228	2390891128	2310661368	2248180083	2069073539	1822309716	1604967101	1414677867
4.10156E+11	5.14186E+11	6.35365E+11	7.80442E+11	9.57375E+11	1.13517E+12	1.33231E+12	1.54794E+12
2.99643E+11	3.78566E+11	4.63065E+11	5.44121E+11	6.02421E+11	6.23992E+11	6.15867E+11	5.88266E+11
1.06676E+12	1.42581E+12	1.85432E+12	2.3522E+12	2.88422E+12	3.41582E+12	3.97431E+12	4.53042E+12
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

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2021	2022	2023	2024	2025	2026	2027	2028
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

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2021	2022	2023	2024	2025	2026	2027	2028
-	-	-	-	-	-	-	-
596,233,034,278	523,747,972,833	443,358,585,173	363,081,055,274	288,909,969,572	224,578,599,183	171,781,392,018	130,613,662,463
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
574,814,511,079	504,933,335,834	427,431,782,067	350,038,067,787	278,531,435,459	216,511,045,626	165,610,476,422	125,921,618,248
574,814,511,079	504,933,335,834	427,431,782,067	350,038,067,787	278,531,435,459	216,511,045,626	165,610,476,422	125,921,618,248
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
1	1	1	1	1	1	1	1
535,532,511,353	466,153,368,075	388,966,047,334	311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709
535,532,511,353	466,153,368,075	388,966,047,334	311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
-	-	-	-	-	-	-	-
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
2,964,376,800,699	3,244,768,411,538	3,495,912,473,109	3,714,772,623,562	3,900,478,452,602	4,054,329,552,612	4,179,539,909,569	4,280,725,965,471
-	-	-	-	-	-	-	-
992,969,833,238	869,089,697,071	731,521,659,118	594,026,633,876	466,902,834,540	356,571,092,230	265,955,845,516	195,237,619,858
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1,202,305,671	1,044,555,001	917,700,609	816,729,372	736,524,535	672,585,809	621,338,499	580,110,758
1,202,305,671	1,044,555,001	917,700,609	816,729,372	736,524,535	672,585,809	621,338,499	580,110,758
5,053,691,801,283	5,534,729,453,658	5,965,495,765,899	6,340,803,752,690	6,659,182,279,018	6,922,879,403,171	7,137,423,779,486	7,310,745,822,559

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5,053,691,801,283	5,534,729,453,658	5,965,495,765,899	6,340,803,752,690	6,659,182,279,018	6,922,879,403,171	7,137,423,779,486	7,310,745,822,559
5,053,691,801,283	5,534,729,453,658	5,965,495,765,899	6,340,803,752,690	6,659,182,279,018	6,922,879,403,171	7,137,423,779,486	7,310,745,822,559
5,053,691,801,283	5,534,729,453,658	5,965,495,765,899	6,340,803,752,690	6,659,182,279,018	6,922,879,403,171	7,137,423,779,486	7,310,745,822,559
957,299,304,793	837,869,323,880	705,243,152,685	572,687,371,361	450,130,249,630	343,761,962,624	256,401,894,091	188,224,084,462
957,299,304,793	837,869,323,880	705,243,152,685	572,687,371,361	450,130,249,630	343,761,962,624	256,401,894,091	188,224,084,462
-	-	-	-	-	-	-	-
990,043,713,399	866,174,866,619	728,605,935,305	591,099,742,215	463,957,048,972	353,601,340,508	262,959,527,405	192,214,109,709
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954,478,300,172	835,059,203,098	702,432,170,634	569,865,622,645	447,290,285,734	340,898,893,512	253,513,212,937	185,309,188,091
954,478,300,172	835,059,203,098	702,432,170,634	569,865,622,645	447,290,285,734	340,898,893,512	253,513,212,937	185,309,188,091
1,464,455,721	1,339,558,362	1,245,455,520	1,176,932,032	1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173
1,464,455,721	1,339,558,362	1,245,455,520	1,176,932,032	1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173
1,255,060,504	1,126,109,783	1,025,165,914	947,842,337	889,081,344	844,076,324	808,865,749	780,544,459
1,255,060,504	1,126,109,783	1,025,165,914	947,842,337	889,081,344	844,076,324	808,865,749	780,544,459
1,464,455,721	1,339,558,362	1,245,455,520	1,176,932,032	1,127,845,399	1,092,269,201	1,065,324,254	1,043,539,173
640	600	560	520	520	480	480	480
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535,532,511,353	466,153,368,075	388,966,047,334	311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709
535,532,511,353	466,153,368,075	388,966,047,334	311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709
535,532,511,353	466,153,368,075	388,966,047,334	311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709
5,050,870,796,662	5,531,919,332,876	5,962,684,783,848	6,337,982,003,974	6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188
5,050,870,796,662	5,531,919,332,876	5,962,684,783,848	6,337,982,003,974	6,656,342,315,122	6,920,016,334,059	7,134,535,098,332	7,307,830,926,188
535,532,511,353	466,153,368,075	388,966,047,334	311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709
535,532,511,353	466,153,368,075	388,966,047,334	311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709
535,532,511,353	466,153,368,075	388,966,047,334	311,725,104,438	240,240,374,895	178,140,557,710	127,086,809,647	87,194,720,709
1	1	1	1	1	1	1	1
1,255,060,504	1,126,109,783	1,025,165,914	947,842,337	889,081,344	844,076,324	808,865,749	780,544,459
556,001,135,366	486,295,999,745	408,894,892,295	331,535,854,950	260,009,772,100	197,927,192,339	146,932,767,349	107,128,325,755
556,001,135,366	486,295,999,745	408,894,892,295	331,535,854,950	260,009,772,100	197,927,192,339	146,932,767,349	107,128,325,755
-	-	-	-	-	-	-	-
1,411,700,888	1,258,003,580	1,137,990,215	1,045,819,067	975,288,590	920,778,685	877,797,004	843,105,473
1,202,305,671	1,044,555,001	917,700,609	816,729,372	736,524,535	672,585,809	621,338,499	580,110,758
574,848,663,271	504,967,179,254	427,465,457,434	350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613
574,848,663,271	504,967,179,254	427,465,457,434	350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613

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574,848,663,271	504,967,179,254	427,465,457,434	350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613
574,848,663,271	504,967,179,254	427,465,457,434	350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613
574,848,663,271	504,967,179,254	427,465,457,434	350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613
574,848,663,271	504,967,179,254	427,465,457,434	350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613
574,848,663,271	504,967,179,254	427,465,457,434	350,071,696,696	278,565,116,657	216,544,855,404	165,644,469,541	125,955,830,613
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-	-	-	-	-	-	-	-
2,964,410,952,891	3,244,802,254,958	3,495,946,148,476	3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836
2,964,410,952,891	3,244,802,254,958	3,495,946,148,476	3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836
2,964,410,952,891	3,244,802,254,958	3,495,946,148,476	3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836
2,964,410,952,891	3,244,802,254,958	3,495,946,148,476	3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836
2,964,410,952,891	3,244,802,254,958	3,495,946,148,476	3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836
2,964,410,952,891	3,244,802,254,958	3,495,946,148,476	3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836
2,964,410,952,891	3,244,802,254,958	3,495,946,148,476	3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836
2,964,410,952,891	3,244,802,254,958	3,495,946,148,476	3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836
956,885,850,228	837,453,660,869	704,821,652,762	572,257,348,932	449,690,240,415	343,311,756,326	255,942,326,697	187,756,670,867
956,885,850,228	837,453,660,869	704,821,652,762	572,257,348,932	449,690,240,415	343,311,756,326	255,942,326,697	187,756,670,867
956,885,850,228	837,453,660,869	704,821,652,762	572,257,348,932	449,690,240,415	343,311,756,326	255,942,326,697	187,756,670,867
956,885,850,228	837,453,660,869	704,821,652,762	572,257,348,932	449,690,240,415	343,311,756,326	255,942,326,697	187,756,670,867
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
5,053,278,346,719	5,534,313,790,648	5,965,074,265,976	6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965
5,053,278,346,719	5,534,313,790,648	5,965,074,265,976	6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965
5,053,278,346,719	5,534,313,790,648	5,965,074,265,976	6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965
5,053,278,346,719	5,534,313,790,648	5,965,074,265,976	6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965
5,053,278,346,719	5,534,313,790,648	5,965,074,265,976	6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965
5,053,278,346,719	5,534,313,790,648	5,965,074,265,976	6,340,373,730,261	6,658,742,269,803	6,922,429,196,873	7,136,964,212,092	7,310,278,408,965
398,934,382,873	349,220,802,898	293,999,376,836	238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865
398,934,382,873	349,220,802,898	293,999,376,836	238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865
398,934,382,873	349,220,802,898	293,999,376,836	238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865
398,934,382,873	349,220,802,898	293,999,376,836	238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865
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398,934,382,873	349,220,802,898	293,999,376,836	238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865
398,934,382,873	349,220,802,898	293,999,376,836	238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865
398,934,382,873	349,220,802,898	293,999,376,836	238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865
398,934,382,873	349,220,802,898	293,999,376,836	238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865
398,934,382,873	349,220,802,898	293,999,376,836	238,799,431,347	187,759,494,307	143,460,424,386	107,078,236,484	78,686,327,865
2,964,410,952,891	3,244,802,254,958	3,495,946,148,476	3,714,806,252,472	3,900,512,133,800	4,054,363,362,389	4,179,573,902,688	4,280,760,177,836
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
556,001,135,366	486,295,999,745	408,894,892,295	331,535,854,950	260,009,772,100	197,927,192,339	146,932,767,349	107,128,325,755
556,001,135,366	486,295,999,745	408,894,892,295	331,535,854,950	260,009,772,100	197,927,192,339	146,932,767,349	107,128,325,755
1.7712E+12	1.99642E+12	2.21562E+12	2.42041E+12	2.60397E+12	2.76228E+12	2.89442E+12	3.00218E+12
1	1	1	1	1	1	1	1
5.35533E+11	4.66153E+11	3.88966E+11	3.11725E+11	2.4024E+11	1.78141E+11	1.27087E+11	87194720709
3.41823E+11	4.2614E+11	5.10911E+11	5.91535E+11	6.64412E+11	7.27362E+11	7.79659E+11	8.21789E+11
8.77356E+11	8.92293E+11	8.99877E+11	9.0326E+11	9.04652E+11	9.05503E+11	9.06746E+11	9.08984E+11
1202305671	1044555001	917700609.2	816729372.1	736524535.3	672585808.9	621338498.9	580110758.2
1202305671	1044555001	917700609.2	816729372.1	736524535.3	672585808.9	621338498.9	580110758.2
0	0	0	0	0	0	0	0
1202305671	1044555001	917700609.2	816729372.1	736524535.3	672585808.9	621338498.9	580110758.2
1464455721	1339558362	1245455520	1176932032	1127845399	1092269201	1065324254	1043539173
1255060504	1126109783	1025165914	947842336.9	889081343.8	844076324.1	808865748.7	780544458.7
1255060504	1126109783	1025165914	947842336.9	889081343.8	844076324.1	808865748.7	780544458.7
1255060504	1126109783	1025165914	947842336.9	889081343.8	844076324.1	808865748.7	780544458.7
1255060504	1126109783	1025165914	947842336.9	889081343.8	844076324.1	808865748.7	780544458.7
1.7712E+12	1.99642E+12	2.21562E+12	2.42041E+12	2.60397E+12	2.76228E+12	2.89442E+12	3.00218E+12
5.35533E+11	4.66153E+11	3.88966E+11	3.11725E+11	2.4024E+11	1.78141E+11	1.27087E+11	87194720709
5.05369E+12	5.53473E+12	5.9655E+12	6.3408E+12	6.65918E+12	6.92288E+12	7.13742E+12	7.31075E+12
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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2029	2030	2031	2032	2033	2034	2035	2036
-	-	-	-	-	-	-	-
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2029	2030	2031	2032	2033	2034	2035	2036
-	-	-	-	-	-	-	-
100,062,296,170	78,472,784,441	63,951,281,630	54,669,333,458	49,049,874,817	45,850,561,075	44,166,823,316	43,383,621,332
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
96,467,750,936	75,653,800,827	61,653,955,030	52,705,442,966	47,287,852,551	44,203,467,993	42,580,215,270	41,825,148,308
96,467,750,936	75,653,800,827	61,653,955,030	52,705,442,966	47,287,852,551	44,203,467,993	42,580,215,270	41,825,148,308
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
1	1	1	1	1	1	1	1
57,505,374,824	36,435,625,000	22,169,608,948	12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450
57,505,374,824	36,435,625,000	22,169,608,948	12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
-	-	-	-	-	-	-	-
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
4,363,112,319,190	4,431,447,827,993	4,489,754,030,229	4,541,202,806,308	4,588,002,769,690	4,631,701,800,046	4,673,215,809,894	4,713,018,193,200
-	-	-	-	-	-	-	-
142,692,752,517	105,493,959,099	80,402,366,437	64,288,777,113	54,452,584,547	48,766,080,699	45,679,055,993	44,137,536,625
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546,929,175	520,278,927	498,926,909	481,824,806	468,071,578	456,903,824	447,695,555	439,948,753
546,929,175	520,278,927	498,926,909	481,824,806	468,071,578	456,903,824	447,695,555	439,948,753
7,451,814,621,554	7,568,779,766,979	7,668,542,766,646	7,756,546,235,225	7,836,579,195,436	7,911,297,108,140	7,982,270,571,828	8,050,311,486,174

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7,451,814,621,554	7,568,779,766,979	7,668,542,766,646	7,756,546,235,225	7,836,579,195,436	7,911,297,108,140	7,982,270,571,828	8,050,311,486,174
7,451,814,621,554	7,568,779,766,979	7,668,542,766,646	7,756,546,235,225	7,836,579,195,436	7,911,297,108,140	7,982,270,571,828	8,050,311,486,174
7,451,814,621,554	7,568,779,766,979	7,668,542,766,646	7,756,546,235,225	7,836,579,195,436	7,911,297,108,140	7,982,270,571,828	8,050,311,486,174
137,566,790,260	101,704,291,837	77,514,066,306	61,979,326,638	52,496,480,342	47,014,253,191	44,038,123,901	42,551,980,646
137,566,790,260	101,704,291,837	77,514,066,306	61,979,326,638	52,496,480,342	47,014,253,191	44,038,123,901	42,551,980,646
-	-	-	-	-	-	-	-
139,642,691,622	102,418,585,498	77,303,224,783	61,167,428,313	51,310,399,779	45,604,219,989	42,498,403,713	40,938,772,783
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134,626,296,927	98,739,395,108	74,526,255,346	58,970,106,281	49,467,172,510	43,965,976,235	40,971,730,427	39,468,126,233
134,626,296,927	98,739,395,108	74,526,255,346	58,970,106,281	49,467,172,510	43,965,976,235	40,971,730,427	39,468,126,233
1,024,770,124	1,007,869,794	992,301,424	977,829,828	964,335,267	951,725,195	939,899,131	928,749,395
1,024,770,124	1,007,869,794	992,301,424	977,829,828	964,335,267	951,725,195	939,899,131	928,749,395
757,164,481	737,480,920	720,686,595	706,213,672	693,620,640	682,540,800	672,662,835	663,726,053
757,164,481	737,480,920	720,686,595	706,213,672	693,620,640	682,540,800	672,662,835	663,726,053
1,024,770,124	1,007,869,794	992,301,424	977,829,828	964,335,267	951,725,195	939,899,131	928,749,395
480	480	440	440	440	440	440	440
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-	-	-	-	-	-	-	-
57,505,374,824	36,435,625,000	22,169,608,948	12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450
57,505,374,824	36,435,625,000	22,169,608,948	12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450
57,505,374,824	36,435,625,000	22,169,608,948	12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450
7,448,874,128,221	7,565,814,870,250	7,665,554,955,687	7,753,537,014,867	7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762
7,448,874,128,221	7,565,814,870,250	7,665,554,955,687	7,753,537,014,867	7,833,549,887,604	7,908,248,831,184	7,979,204,178,354	8,047,227,631,762
57,505,374,824	36,435,625,000	22,169,608,948	12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450
57,505,374,824	36,435,625,000	22,169,608,948	12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450
57,505,374,824	36,435,625,000	22,169,608,948	12,951,176,440	7,263,390,049	3,910,859,946	2,021,858,322	1,003,733,450
1	1	1	1	1	1	1	1
757,164,481	737,480,920	720,686,595	706,213,672	693,620,640	682,540,800	672,662,835	663,726,053
77,544,859,769	56,592,594,568	42,450,342,524	33,358,449,223	27,798,110,009	24,572,663,822	22,810,107,714	21,917,546,880
77,544,859,769	56,592,594,568	42,450,342,524	33,358,449,223	27,798,110,009	24,572,663,822	22,810,107,714	21,917,546,880
-	-	-	-	-	-	-	-
814,534,818	790,667,801	770,541,737	753,440,962	738,786,205	726,088,219	714,931,850	704,972,095
546,929,175	520,278,927	498,926,909	481,824,806	468,071,578	456,903,824	447,695,555	439,948,753
96,502,204,251	75,688,507,461	61,688,919,532	52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870
96,502,204,251	75,688,507,461	61,688,919,532	52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870

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96,502,204,251	75,688,507,461	61,688,919,532	52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870
96,502,204,251	75,688,507,461	61,688,919,532	52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870
96,502,204,251	75,688,507,461	61,688,919,532	52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870
96,502,204,251	75,688,507,461	61,688,919,532	52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870
96,502,204,251	75,688,507,461	61,688,919,532	52,740,664,887	47,323,329,135	44,239,195,082	42,616,188,957	41,861,364,870
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-	-	-	-	-	-	-	-
4,363,146,772,506	4,431,482,534,627	4,489,788,994,731	4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762
4,363,146,772,506	4,431,482,534,627	4,489,788,994,731	4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762
4,363,146,772,506	4,431,482,534,627	4,489,788,994,731	4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762
4,363,146,772,506	4,431,482,534,627	4,489,788,994,731	4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762
4,363,146,772,506	4,431,482,534,627	4,489,788,994,731	4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762
4,363,146,772,506	4,431,482,534,627	4,489,788,994,731	4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762
4,363,146,772,506	4,431,482,534,627	4,489,788,994,731	4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762
4,363,146,772,506	4,431,482,534,627	4,489,788,994,731	4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762
137,093,326,057	101,226,530,826	77,033,538,581	61,497,259,506	52,013,793,127	46,531,599,439	43,555,944,823	42,070,563,349
137,093,326,057	101,226,530,826	77,033,538,581	61,497,259,506	52,013,793,127	46,531,599,439	43,555,944,823	42,070,563,349
137,093,326,057	101,226,530,826	77,033,538,581	61,497,259,506	52,013,793,127	46,531,599,439	43,555,944,823	42,070,563,349
137,093,326,057	101,226,530,826	77,033,538,581	61,497,259,506	52,013,793,127	46,531,599,439	43,555,944,823	42,070,563,349
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7,451,341,157,350	7,568,302,005,968	7,668,062,238,921	7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877
7,451,341,157,350	7,568,302,005,968	7,668,062,238,921	7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877
7,451,341,157,350	7,568,302,005,968	7,668,062,238,921	7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877
7,451,341,157,350	7,568,302,005,968	7,668,062,238,921	7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877
7,451,341,157,350	7,568,302,005,968	7,668,062,238,921	7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877
7,451,341,157,350	7,568,302,005,968	7,668,062,238,921	7,756,064,168,092	7,836,096,508,221	7,910,814,454,388	7,981,788,392,751	8,049,830,068,877
57,592,875,801	42,662,532,656	32,594,465,118	26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115
57,592,875,801	42,662,532,656	32,594,465,118	26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115
57,592,875,801	42,662,532,656	32,594,465,118	26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115
57,592,875,801	42,662,532,656	32,594,465,118	26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115
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57,592,875,801	42,662,532,656	32,594,465,118	26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115
57,592,875,801	42,662,532,656	32,594,465,118	26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115
57,592,875,801	42,662,532,656	32,594,465,118	26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115
57,592,875,801	42,662,532,656	32,594,465,118	26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115
57,592,875,801	42,662,532,656	32,594,465,118	26,131,844,962	22,189,998,664	19,914,366,346	18,682,370,140	18,070,745,115
4,363,146,772,506	4,431,482,534,627	4,489,788,994,731	4,541,238,028,229	4,588,038,246,273	4,631,737,527,135	4,673,251,783,581	4,713,054,409,762
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-	-	-	-	-	-	-	-
77,544,859,769	56,592,594,568	42,450,342,524	33,358,449,223	27,798,110,009	24,572,663,822	22,810,107,714	21,917,546,880
77,544,859,769	56,592,594,568	42,450,342,524	33,358,449,223	27,798,110,009	24,572,663,822	22,810,107,714	21,917,546,880
3.08913E+12	3.15933E+12	3.21669E+12	3.26464E+12	3.30583E+12	3.34227E+12	3.37533E+12	3.40592E+12
1	1	1	1	1	1	1	1
57505374824	36435625000	22169608948	12951176440	7263390049	3910859946	2021858322	1003733450
8.55048E+11	8.81049E+11	9.01439E+11	9.17696E+11	9.31012E+11	9.42304E+11	9.52214E+11	9.61169E+11
9.12553E+11	9.17485E+11	9.23608E+11	9.30647E+11	9.38276E+11	9.46214E+11	9.54236E+11	9.62173E+11
546929175.2	520278927.2	498926908.6	481824806.1	468071577.9	456903824.3	447695554.6	439948753.4
546929175.2	520278927.2	498926908.6	481824806.1	468071577.9	456903824.3	447695554.6	439948753.4
0	0	0	0	0	0	0	0
546929175.2	520278927.2	498926908.6	481824806.1	468071577.9	456903824.3	447695554.6	439948753.4
1024770124	1007869794	992301423.9	977829828.2	964335266.7	951725195	939899130.8	928749394.9
757164481.3	737480920	720686595.3	706213672.5	693620639.7	682540800.1	672662835.1	663726053
757164481.3	737480920	720686595.3	706213672.5	693620639.7	682540800.1	672662835.1	663726053
757164481.3	737480920	720686595.3	706213672.5	693620639.7	682540800.1	672662835.1	663726053
757164481.3	737480920	720686595.3	706213672.5	693620639.7	682540800.1	672662835.1	663726053
3.08913E+12	3.15933E+12	3.21669E+12	3.26464E+12	3.30583E+12	3.34227E+12	3.37533E+12	3.40592E+12
57505374824	36435625000	22169608948	12951176440	7263390049	3910859946	2021858322	1003733450
7.45181E+12	7.56878E+12	7.66854E+12	7.75655E+12	7.83658E+12	7.9113E+12	7.98227E+12	8.05031E+12
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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2037	2038	2039	2040	2041	2042	2043	2044
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2037	2038	2039	2040	2041	2042	2043	2044
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43,108,419,772	43,105,230,389	43,240,366,527	43,441,505,774	43,671,214,405	43,910,871,925	44,152,490,692	44,394,130,497
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
41,559,832,833	41,556,758,023	41,687,039,656	41,880,953,363	42,102,410,154	42,333,458,439	42,566,397,517	42,799,356,877
41,559,832,833	41,556,758,023	41,687,039,656	41,880,953,363	42,102,410,154	42,333,458,439	42,566,397,517	42,799,356,877
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
1	1	1	1	1	1	1	1
478,520,907	219,080,517	96,315,942	40,655,399	16,472,862	6,405,317	2,389,737	855,471
478,520,907	219,080,517	96,315,942	40,655,399	16,472,862	6,405,317	2,389,737	855,471
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
-	-	-	-	-	-	-	-
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
4,751,338,833,701	4,788,334,505,885	4,824,059,927,477	4,858,516,769,130	4,891,688,499,228	4,923,671,313,803	4,954,717,980,806	4,984,793,168,065
-	-	-	-	-	-	-	-
43,469,067,675	43,269,449,405	43,309,393,648	43,465,062,830	43,672,648,858	43,900,681,008	44,135,202,423	44,371,620,066
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
433,278,002	427,391,598	422,072,713	417,162,103	412,544,265	408,136,815	403,881,178	399,737,197
433,278,002	427,391,598	422,072,713	417,162,103	412,544,265	408,136,815	403,881,178	399,737,197
8,115,814,383,785	8,179,048,359,837	8,240,107,109,088	8,298,993,634,064	8,355,679,945,775	8,410,331,385,665	8,463,381,015,934	8,514,767,045,698

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8,115,814,383,785	8,179,048,359,837	8,240,107,109,088	8,298,993,634,064	8,355,679,945,775	8,410,331,385,665	8,463,381,015,934	8,514,767,045,698
8,115,814,383,785	8,179,048,359,837	8,240,107,109,088	8,298,993,634,064	8,355,679,945,775	8,410,331,385,665	8,463,381,015,934	8,514,767,045,698
8,115,814,383,785	8,179,048,359,837	8,240,107,109,088	8,298,993,634,064	8,355,679,945,775	8,410,331,385,665	8,463,381,015,934	8,514,767,045,698
41,907,525,155	41,715,077,788	41,753,587,111	41,903,664,177	42,103,793,077	42,323,633,612	42,549,730,297	42,777,655,091
41,907,525,155	41,715,077,788	41,753,587,111	41,903,664,177	42,103,793,077	42,323,633,612	42,549,730,297	42,777,655,091
-	-	-	-	-	-	-	-
40,252,743,634	40,036,029,614	40,059,249,717	40,198,525,723	40,390,049,208	40,602,370,604	40,821,491,125	41,042,683,747
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38,806,741,360	38,597,812,374	38,620,198,340	38,754,471,123	38,939,114,495	39,143,808,655	39,355,057,693	39,568,304,396
38,806,741,360	38,597,812,374	38,620,198,340	38,754,471,123	38,939,114,495	39,143,808,655	39,355,057,693	39,568,304,396
918,168,789	908,057,466	898,326,407	888,900,479	879,718,620	870,732,469	861,907,216	853,216,938
918,168,789	908,057,466	898,326,407	888,900,479	879,718,620	870,732,469	861,907,216	853,216,938
655,517,254	647,866,034	640,638,578	633,731,900	627,068,151	620,589,520	614,254,701	608,034,415
655,517,254	647,866,034	640,638,578	633,731,900	627,068,151	620,589,520	614,254,701	608,034,415
918,168,789	908,057,466	898,326,407	888,900,479	879,718,620	870,732,469	861,907,216	853,216,938
440	440	400	400	400	400	400	400
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478,520,907	219,080,517	96,315,942	40,655,399	16,472,862	6,405,317	2,389,737	855,471
478,520,907	219,080,517	96,315,942	40,655,399	16,472,862	6,405,317	2,389,737	855,471
478,520,907	219,080,517	96,315,942	40,655,399	16,472,862	6,405,317	2,389,737	855,471
8,112,713,599,990	8,175,931,094,423	8,236,973,720,317	8,295,844,441,011	8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003
8,112,713,599,990	8,175,931,094,423	8,236,973,720,317	8,295,844,441,011	8,352,515,267,193	8,407,151,560,708	8,460,186,343,331	8,511,557,695,003
478,520,907	219,080,517	96,315,942	40,655,399	16,472,862	6,405,317	2,389,737	855,471
478,520,907	219,080,517	96,315,942	40,655,399	16,472,862	6,405,317	2,389,737	855,471
478,520,907	219,080,517	96,315,942	40,655,399	16,472,862	6,405,317	2,389,737	855,471
1	1	1	1	1	1	1	1
655,517,254	647,866,034	640,638,578	633,731,900	627,068,151	620,589,520	614,254,701	608,034,415
21,516,695,225	21,380,151,921	21,378,863,264	21,443,129,410	21,537,051,731	21,642,940,957	21,752,892,618	21,864,170,195
21,516,695,225	21,380,151,921	21,378,863,264	21,443,129,410	21,537,051,731	21,642,940,957	21,752,892,618	21,864,170,195
-	-	-	-	-	-	-	-
695,929,537	687,583,029	679,760,542	672,330,682	665,194,734	658,279,765	651,533,693	644,919,720
433,278,002	427,391,598	422,072,713	417,162,103	412,544,265	408,136,815	403,881,178	399,737,197
41,596,288,469	41,593,448,863	41,723,962,213	41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675
41,596,288,469	41,593,448,863	41,723,962,213	41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675

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41,596,288,469	41,593,448,863	41,723,962,213	41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675
41,596,288,469	41,593,448,863	41,723,962,213	41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675
41,596,288,469	41,593,448,863	41,723,962,213	41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675
41,596,288,469	41,593,448,863	41,723,962,213	41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675
41,596,288,469	41,593,448,863	41,723,962,213	41,918,104,157	42,139,785,394	42,371,053,879	42,604,209,290	42,837,382,675
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-	-	-	-	-	-	-	-
4,751,375,289,337	4,788,371,196,725	4,824,096,850,033	4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862
4,751,375,289,337	4,788,371,196,725	4,824,096,850,033	4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862
4,751,375,289,337	4,788,371,196,725	4,824,096,850,033	4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862
4,751,375,289,337	4,788,371,196,725	4,824,096,850,033	4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862
4,751,375,289,337	4,788,371,196,725	4,824,096,850,033	4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862
4,751,375,289,337	4,788,371,196,725	4,824,096,850,033	4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862
4,751,375,289,337	4,788,371,196,725	4,824,096,850,033	4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862
4,751,375,289,337	4,788,371,196,725	4,824,096,850,033	4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862
41,427,051,196	41,235,658,591	41,275,287,004	41,426,519,601	41,627,825,547	41,848,857,904	42,076,152,440	42,305,268,428
41,427,051,196	41,235,658,591	41,275,287,004	41,426,519,601	41,627,825,547	41,848,857,904	42,076,152,440	42,305,268,428
41,427,051,196	41,235,658,591	41,275,287,004	41,426,519,601	41,627,825,547	41,848,857,904	42,076,152,440	42,305,268,428
41,427,051,196	41,235,658,591	41,275,287,004	41,426,519,601	41,627,825,547	41,848,857,904	42,076,152,440	42,305,268,428
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
8,115,333,909,826	8,178,568,940,640	8,239,628,808,982	8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035
8,115,333,909,826	8,178,568,940,640	8,239,628,808,982	8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035
8,115,333,909,826	8,178,568,940,640	8,239,628,808,982	8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035
8,115,333,909,826	8,178,568,940,640	8,239,628,808,982	8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035
8,115,333,909,826	8,178,568,940,640	8,239,628,808,982	8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035
8,115,333,909,826	8,178,568,940,640	8,239,628,808,982	8,298,516,489,488	8,355,203,978,245	8,409,856,609,957	8,462,907,438,078	8,514,294,659,035
17,809,456,482	17,736,208,585	17,758,959,331	17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034
17,809,456,482	17,736,208,585	17,758,959,331	17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034
17,809,456,482	17,736,208,585	17,758,959,331	17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034
17,809,456,482	17,736,208,585	17,758,959,331	17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034
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17,809,456,482	17,736,208,585	17,758,959,331	17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034
17,809,456,482	17,736,208,585	17,758,959,331	17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034
17,809,456,482	17,736,208,585	17,758,959,331	17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034
17,809,456,482	17,736,208,585	17,758,959,331	17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034
17,809,456,482	17,736,208,585	17,758,959,331	17,828,006,579	17,917,746,060	18,015,552,603	18,115,843,230	18,216,811,034
4,751,375,289,337	4,788,371,196,725	4,824,096,850,033	4,858,553,919,925	4,891,725,874,468	4,923,708,909,244	4,954,755,792,579	4,984,831,193,862
-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
21,516,695,225	21,380,151,921	21,378,863,264	21,443,129,410	21,537,051,731	21,642,940,957	21,752,892,618	21,864,170,195
21,516,695,225	21,380,151,921	21,378,863,264	21,443,129,410	21,537,051,731	21,642,940,957	21,752,892,618	21,864,170,195
3.4346E+12	3.46179E+12	3.48772E+12	3.51254E+12	3.53631E+12	3.55916E+12	3.58131E+12	3.60275E+12
1	1	1	1	1	1	1	1
478520907.2	219080517.4	96315941.87	40655398.63	16472862.3	6405317.268	2389736.573	855471.1524
9.6944E+11	9.77209E+11	9.84581E+11	9.91616E+11	9.98345E+11	1.00481E+12	1.01107E+12	1.01713E+12
9.69919E+11	9.77428E+11	9.84677E+11	9.91656E+11	9.98361E+11	1.00481E+12	1.01107E+12	1.01713E+12
433278002	427391597.6	422072713.3	417162103.3	412544265.4	408136815	403881178.4	399737196.9
433278002	427391597.6	422072713.3	417162103.3	412544265.4	408136815	403881178.4	399737196.9
0	0	0	0	0	0	0	0
433278002	427391597.6	422072713.3	417162103.3	412544265.4	408136815	403881178.4	399737196.9
918168789.5	908057465.6	898326406.8	888900478.9	879718619.7	870732469.4	861907215.5	853216938.3
655517254.4	647866034.4	640638578.1	633731899.9	627068151	620589519.6	614254701.1	608034415.5
655517254.4	647866034.4	640638578.1	633731899.9	627068151	620589519.6	614254701.1	608034415.5
655517254.4	647866034.4	640638578.1	633731899.9	627068151	620589519.6	614254701.1	608034415.5
655517254.4	647866034.4	640638578.1	633731899.9	627068151	620589519.6	614254701.1	608034415.5
3.4346E+12	3.46179E+12	3.48772E+12	3.51254E+12	3.53631E+12	3.55916E+12	3.58131E+12	3.60275E+12
478520907.2	219080517.4	96315941.87	40655398.63	16472862.3	6405317.268	2389736.573	855471.1524
8.11581E+12	8.17905E+12	8.24011E+12	8.29899E+12	8.35568E+12	8.41033E+12	8.46338E+12	8.51477E+12
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2045	2046	2047	2048	2049	2050
-	-	-	-	-	-
-	-	-	-	-	-

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2045	2046	2047	2048	2049	2050
-	-	-	-	-	-
44,633,277,833	44,869,750,678	45,106,524,575	45,343,574,730	45,580,402,717	45,816,784,324
-	-	-	-	-	-
-	-	-	-	-	-
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-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
43,029,913,306	43,257,891,320	43,486,159,571	43,714,694,156	43,943,014,554	44,170,904,607
43,029,913,306	43,257,891,320	43,486,159,571	43,714,694,156	43,943,014,554	44,170,904,607
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
1	1	1	1	1	1
294,098	97,498	31,625	10,523	4,065	2,179
294,098	97,498	31,625	10,523	4,065	2,179
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
-	-	-	-	-	-
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
5,014,010,566,647	5,042,780,766,609	5,071,173,510,040	5,099,192,807,216	5,126,865,095,447	5,154,291,733,489
-	-	-	-	-	-
44,606,310,170	44,838,638,324	45,071,387,641	45,304,469,536	45,537,366,107	45,769,847,032
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-	-	-	-	-	-
-	-	-	-	-	-
395,678,172	391,686,370	387,750,050	383,861,972	380,017,740	376,214,555
395,678,172	391,686,370	387,750,050	383,861,972	380,017,740	376,214,555
8,564,685,034,417	8,613,838,539,970	8,662,344,885,668	8,710,210,901,844	8,757,482,234,053	8,804,332,788,673

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8,564,685,034,417	8,613,838,539,970	8,662,344,885,668	8,710,210,901,844	8,757,482,234,053	8,804,332,788,673
8,564,685,034,417	8,613,838,539,970	8,662,344,885,668	8,710,210,901,844	8,757,482,234,053	8,804,332,788,673
8,564,685,034,417	8,613,838,539,970	8,662,344,885,668	8,710,210,901,844	8,757,482,234,053	8,804,332,788,673
43,003,914,404	43,227,896,617	43,452,284,863	43,676,993,740	43,901,523,950	44,125,653,446
43,003,914,404	43,227,896,617	43,452,284,863	43,676,993,740	43,901,523,950	44,125,653,446
-	-	-	-	-	-
41,262,386,393	41,479,929,401	41,697,865,873	41,916,101,315	42,134,150,228	42,351,796,952
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39,780,114,647	39,989,842,842	40,199,950,366	40,410,346,121	40,620,562,047	40,830,390,231
39,780,114,647	39,989,842,842	40,199,950,366	40,410,346,121	40,620,562,047	40,830,390,231
844,642,452	836,171,111	827,795,377	819,509,891	811,310,900	803,196,120
844,642,452	836,171,111	827,795,377	819,509,891	811,310,900	803,196,120
601,908,280	595,862,803	589,889,443	583,982,593	578,138,600	572,355,178
601,908,280	595,862,803	589,889,443	583,982,593	578,138,600	572,355,178
844,642,452	836,171,111	827,795,377	819,509,891	811,310,900	803,196,120
400	400	400	400	400	400
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294,098	97,498	31,625	10,523	4,065	2,179
294,098	97,498	31,625	10,523	4,065	2,179
294,098	97,498	31,625	10,523	4,065	2,179
8,561,461,234,660	8,610,600,486,195	8,659,092,551,171	8,706,944,254,224	8,754,201,272,150	8,801,037,525,458
8,561,461,234,660	8,610,600,486,195	8,659,092,551,171	8,706,944,254,224	8,754,201,272,150	8,801,037,525,458
294,098	97,498	31,625	10,523	4,065	2,179
294,098	97,498	31,625	10,523	4,065	2,179
294,098	97,498	31,625	10,523	4,065	2,179
1	1	1	1	1	1
601,908,280	595,862,803	589,889,443	583,982,593	578,138,600	572,355,178
21,974,795,321	22,084,368,373	22,194,203,185	22,304,241,486	22,414,225,455	22,524,040,487
21,974,795,321	22,084,368,373	22,194,203,185	22,304,241,486	22,414,225,455	22,524,040,487
-	-	-	-	-	-
638,412,344	631,994,678	625,655,984	619,389,270	613,190,040	607,055,497
395,678,172	391,686,370	387,750,050	383,861,972	380,017,740	376,214,555
43,068,150,025	43,296,336,259	43,524,812,825	43,753,555,880	43,982,084,503	44,210,182,354
43,068,150,025	43,296,336,259	43,524,812,825	43,753,555,880	43,982,084,503	44,210,182,354

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43,068,150,025	43,296,336,259	43,524,812,825	43,753,555,880	43,982,084,503	44,210,182,354
43,068,150,025	43,296,336,259	43,524,812,825	43,753,555,880	43,982,084,503	44,210,182,354
43,068,150,025	43,296,336,259	43,524,812,825	43,753,555,880	43,982,084,503	44,210,182,354
43,068,150,025	43,296,336,259	43,524,812,825	43,753,555,880	43,982,084,503	44,210,182,354
43,068,150,025	43,296,336,259	43,524,812,825	43,753,555,880	43,982,084,503	44,210,182,354
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5,014,048,803,365	5,042,819,211,548	5,071,212,163,294	5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,014,048,803,365	5,042,819,211,548	5,071,212,163,294	5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,014,048,803,365	5,042,819,211,548	5,071,212,163,294	5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,014,048,803,365	5,042,819,211,548	5,071,212,163,294	5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,014,048,803,365	5,042,819,211,548	5,071,212,163,294	5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,014,048,803,365	5,042,819,211,548	5,071,212,163,294	5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,014,048,803,365	5,042,819,211,548	5,071,212,163,294	5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
5,014,048,803,365	5,042,819,211,548	5,071,212,163,294	5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
42,532,715,839	42,757,879,796	42,983,425,738	43,209,267,645	43,434,908,707	43,660,127,966
42,532,715,839	42,757,879,796	42,983,425,738	43,209,267,645	43,434,908,707	43,660,127,966
42,532,715,839	42,757,879,796	42,983,425,738	43,209,267,645	43,434,908,707	43,660,127,966
42,532,715,839	42,757,879,796	42,983,425,738	43,209,267,645	43,434,908,707	43,660,127,966
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8,564,213,835,851	8,613,368,523,148	8,661,876,026,543	8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
8,564,213,835,851	8,613,368,523,148	8,661,876,026,543	8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
8,564,213,835,851	8,613,368,523,148	8,661,876,026,543	8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
8,564,213,835,851	8,613,368,523,148	8,661,876,026,543	8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
8,564,213,835,851	8,613,368,523,148	8,661,876,026,543	8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
8,564,213,835,851	8,613,368,523,148	8,661,876,026,543	8,709,743,175,748	8,757,015,618,810	8,803,867,263,193
18,316,995,595	18,416,154,381	18,515,455,298	18,614,866,114	18,714,173,650	18,813,283,297
18,316,995,595	18,416,154,381	18,515,455,298	18,614,866,114	18,714,173,650	18,813,283,297
18,316,995,595	18,416,154,381	18,515,455,298	18,614,866,114	18,714,173,650	18,813,283,297
18,316,995,595	18,416,154,381	18,515,455,298	18,614,866,114	18,714,173,650	18,813,283,297
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18,316,995,595	18,416,154,381	18,515,455,298	18,614,866,114	18,714,173,650	18,813,283,297
18,316,995,595	18,416,154,381	18,515,455,298	18,614,866,114	18,714,173,650	18,813,283,297
18,316,995,595	18,416,154,381	18,515,455,298	18,614,866,114	18,714,173,650	18,813,283,297
18,316,995,595	18,416,154,381	18,515,455,298	18,614,866,114	18,714,173,650	18,813,283,297
18,316,995,595	18,416,154,381	18,515,455,298	18,614,866,114	18,714,173,650	18,813,283,297
5,014,048,803,365	5,042,819,211,548	5,071,212,163,294	5,099,231,668,940	5,126,904,165,396	5,154,331,011,236
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21,974,795,321	22,084,368,373	22,194,203,185	22,304,241,486	22,414,225,455	22,524,040,487
21,974,795,321	22,084,368,373	22,194,203,185	22,304,241,486	22,414,225,455	22,524,040,487
3.62356E+12	3.64405E+12	3.66427E+12	3.68423E+12	3.70394E+12	3.72347E+12
1	1	1	1	1	1
294097.5417	97497.88749	31625.38314	10522.83143	4064.974122	2179.189587
1.02301E+12	1.0288E+12	1.03451E+12	1.04015E+12	1.04571E+12	1.05123E+12
1.02301E+12	1.0288E+12	1.03451E+12	1.04015E+12	1.04571E+12	1.05123E+12
395678171.6	391686369.9	387750049.6	383861972.2	380017740.2	376214554.8
395678171.6	391686369.9	387750049.6	383861972.2	380017740.2	376214554.8
0	0	0	0	0	0
395678171.6	391686369.9	387750049.6	383861972.2	380017740.2	376214554.8
844642452.5	836171111.3	827795377.5	819509891.1	811310900.3	803196119.7
601908279.7	595862802.7	589889443.5	583982593	578138600	572355177.8
601908279.7	595862802.7	589889443.5	583982593	578138600	572355177.8
601908279.7	595862802.7	589889443.5	583982593	578138600	572355177.8
601908279.7	595862802.7	589889443.5	583982593	578138600	572355177.8
3.62356E+12	3.64405E+12	3.66427E+12	3.68423E+12	3.70394E+12	3.72347E+12
294097.5417	97497.88749	31625.38314	10522.83143	4064.974122	2179.189587
8.56469E+12	8.61384E+12	8.66234E+12	8.71021E+12	8.75748E+12	8.80433E+12
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Unit capex

Unit capex per network element

Network element	1991	1992	1993	1994	1995
AN-Common: Site rental for core - PSTN	-	-	-	-	-
AN-Common: Site rental for core - Other	-	-	-	-	-
AN-Common: Air conditioning unit - PSTN	80,000	80,000	80,000	80,000	80,000
AN-Common: UPS and Generator - PSTN	147,033	149,974	152,974	156,033	159,154
AN-TDM: RSX processor/rack	1,132,890	1,076,245	1,022,433	971,311	922,746
AN-TDM: RSX line card - PSTN	12,510	12,010	11,530	11,068	10,626
AN-TDM: RSX line card - ISDN 2	12,510	12,010	11,530	11,068	10,626
AN-TDM: RSX line card - ISDN 30	83,402	80,066	76,864	73,789	70,837
AN-TDM: MDF splitter cards	209	200	192	184	177
AN-TDM: Replacement of RSX processor/rack	1,132,890	1,076,245	1,022,433	971,311	922,746
AN-IP: DSLAM processor/rack	791,814	720,550	655,701	596,688	542,986
AN-IP: DSLAM line cards - xDSL	12,510	12,010	11,530	11,068	10,626
AN-IP: DSLAM core-facing ports - 1GE electrical port	5,035	4,783	4,544	4,317	4,101
AN-IP: DSLAM core-facing ports - 1GE optical port	50,351	47,833	45,441	43,169	41,011
AN-Common: Air conditioning unit - Other	80,000	80,000	80,000	80,000	80,000
AN-Common: UPS and Generator - Other	147,033	149,974	152,974	156,033	159,154
AN-IP: mini-MSAN processor/rack	436,863	397,545	361,766	329,207	299,578
AN-IP: MSAN processor/rack	1,228,676	1,118,095	1,017,467	925,895	842,564
AN-IP: MSAN line card - PSTN	10,425	10,008	9,608	9,224	8,855
AN-IP: MSAN line card - xDSL	83,402	80,066	76,864	73,789	70,837
AN-IP: MSAN line card - splitter	209	200	192	184	177
AN-IP: MSAN core-facing ports - 1GE electrical port	5,035	4,783	4,544	4,317	4,101
AN-IP: MSAN core-facing ports - 1GE optical port	50,351	47,833	45,441	43,169	41,011
AN-IP: layer 2 switch - chassis	409,559	372,698	339,156	308,632	280,855
AN-IP: layer 2 switch - 48 x 1GE electrical ports card	62,938	59,791	56,802	53,962	51,264
AN-IP: layer 2 switch - 1GE optical port adaptor	62,938	59,791	56,802	53,962	51,264
AN-IP: layer 2 switch - 12 x 10GE optical ports card	188,815	179,374	170,405	161,885	153,791
spare	-	-	-	-	-
AN-IP: layer 3 edge router - chassis	273,039	248,466	226,104	205,754	187,236
AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	125,877	119,583	113,604	107,923	102,527
AN-IP: layer 3 edge router - 1GE optical port adaptor	62,938	59,791	56,802	53,962	51,264
AN-IP: layer 3 edge router - 2 x 10GE optical ports card	629,383	597,914	568,018	539,617	512,637
DN-Common: Site rental for core - PSTN	-	-	-	-	-
DN-Common: Site rental for core - Other	-	-	-	-	-
DN-Common: Air conditioning unit - PSTN	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
DN-Common: UPS and Generator - PSTN	2,940,669	2,999,483	3,059,472	3,120,662	3,183,075
DN-TDM: LS chassis/processor	13,846,429	13,154,108	12,496,402	11,871,582	11,278,003

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DN-TDM: LS switchblock	5,538,572	5,261,643	4,998,561	4,748,633	4,511,201
DN-TDM: LS software	1,522,890	1,431,517	1,345,626	1,264,888	1,188,995
DN-IP: distribution SBC - chassis	5,460,783	4,969,313	4,522,075	4,115,088	3,744,730
DN-IP: distribution SBC - 1GE port card	755,260	717,497	681,622	647,541	615,164
DN-IP: layer 3 distribution router - chassis	273,039	248,466	226,104	205,754	187,236
DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	75,526	71,750	68,162	64,754	61,516
DN-IP: layer 3 distribution router - 1GE optical port adaptor	62,938	59,791	56,802	53,962	51,264
DN-IP: layer 3 distribution router - 2 x 10GE optical port card	629,383	597,914	568,018	539,617	512,637
DN-Common: Air conditioning unit - Other	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
DN-Common: UPS and Generator - Other	2,940,669	2,999,483	3,059,472	3,120,662	3,183,075
CN-Common: Site rental for core - PSTN	-	-	-	-	-
CN-Common: Site rental for core - Other	-	-	-	-	-
CN-Common: Air conditioning unit - PSTN	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
CN-Common: UPS and Generator - PSTN	10,292,343	10,498,190	10,708,153	10,922,317	11,140,763
CN-TDM: Call Server processor (softswitch)	20,406,731	19,182,327	18,031,387	16,949,504	15,932,534
CN-TDM: Call Server software	30,457,807	28,630,339	26,912,519	25,297,767	23,779,901
CN-TDM: Media Gateway switchblock	20,140,261	19,133,248	18,176,585	17,267,756	16,404,368
CN-TDM: international gateway (IGW) processor	7,552,598	7,174,968	6,816,220	6,475,409	6,151,638
CN-TDM: international gateway (IGW) switchblock	5,664,448	5,381,226	5,112,165	4,856,556	4,613,729
CN-TDM: international gateway (IGW) software	1,522,890	1,431,517	1,345,626	1,264,888	1,188,995
CN-TDM: interconnect ports - E1 ports	22,936	22,018	21,137	20,292	19,480
CN-TDM: Media Gateway STM4 ATM ports	87,572	84,069	80,707	77,478	74,379
CN-Common: Air conditioning unit - Other	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
CN-Common: UPS and Generator - Other	10,292,343	10,498,190	10,708,153	10,922,317	11,140,763
CN-IP: interco SBC - chassis	5,460,783	4,969,313	4,522,075	4,115,088	3,744,730
CN-IP: interco SBC - 1GE port card	755,260	717,497	681,622	647,541	615,164
CN-IP: Call Server processor (softswitch)	14,744,115	13,417,144	12,209,601	11,110,737	10,110,771
CN-IP: Call Server software	-	-	-	-	-
CN-TDM: interconnect trunk gateway (TGW)	1,007,013	956,662	908,829	863,388	820,218
CN - Interconnect trunk gateway E1 ports	22,936	22,018	21,137	20,292	19,480
CN-IP: layer 3 peering router - chassis	273,039	248,466	226,104	205,754	187,236
CN-IP: layer 3 peering router - 4 x 1GE port card	75,526	71,750	68,162	64,754	61,516
CN-IP: layer 3 peering router - 10 x 100Mbps port card	30,210	28,700	27,265	25,902	24,607
CN-IP: layer 3 peering router - 10 x 10Mbps port card	12,084	11,480	10,906	10,361	9,843
CN-IP: layer 2 services switch - chassis	409,559	372,698	339,156	308,632	280,855
CN-IP: layer 2 services switch - 48 x 1GE ports card	62,938	59,791	56,802	53,962	51,264
CN-IP: layer 2 services switch - 12 x 10GE optical ports card	188,815	179,374	170,405	161,885	153,791
CN-IP: IP/MPLS router - chassis	8,191,175	7,453,969	6,783,112	6,172,632	5,617,095
CN-IP: IP/MPLS router - 4 x 10GE port cards	4,531,559	4,304,981	4,089,732	3,885,245	3,690,983
CN: BRAS	4,934,144	4,539,412	4,176,259	3,842,158	3,534,786
CN: DNS	1,121,396	1,031,685	949,150	873,218	803,360
CN: RADIUS	1,121,396	1,031,685	949,150	873,218	803,360
CN: VAS, IN platforms	246,707,185	226,970,610	208,812,961	192,107,924	176,739,290
CN: Billing system	28,771,376	28,195,949	27,632,030	27,079,389	26,537,801
Network management system: common	215,785,320	211,469,614	207,240,222	203,095,417	199,033,509
Clock and synchronisation equipment	5,034,991	4,934,291	4,835,605	4,738,893	4,644,115

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Network management system: PSTN	215,785,320	211,469,614	207,240,222	203,095,417	199,033,509
Network management system: NGN voice	539,463	528,674	518,101	507,739	497,584
CPE: terminal adaptor (Pure VoIP operator) - traffic related only	-	-	-	-	-
Wireless links: antenna towers and ancillary	381,806	393,261	405,059	417,210	429,727
Wireless links: transmission equipment	1,998,739	1,798,865	1,618,979	1,457,081	1,311,373
Wireless links: repeaters	3,664,355	3,297,919	2,968,127	2,671,315	2,404,183
Access transmission - submarine fibre cables (km)	177,230	170,141	163,335	156,802	150,530
Access transmission - terrestrial fibre cables (km)	25,021	24,020	23,059	22,137	21,251
Access transmission - trench (km)	117,479	121,003	124,633	128,372	132,224
Access transmission - ODF (12 fibre)	18,462	17,170	15,968	14,850	13,810
Access transmission - PDH 2Mbps terminal	40,616	37,773	35,129	32,670	30,383
Access transmission - PDH 8Mbps terminal	55,386	51,509	47,903	44,550	41,431
Access transmission - SDH STM-0 ADM	147,695	137,357	127,742	118,800	110,484
Access transmission - SDH STM-1 ADM	295,391	274,713	255,483	237,600	220,968
Access transmission - SDH STM-4 ADM	350,777	326,222	303,387	282,150	262,399
Access transmission - SDH STM-16 ADM	664,629	618,105	574,838	534,599	497,177
Access transmission - SDH STM-64 ADM	2,215,431	2,060,351	1,916,126	1,781,997	1,657,257
Access transmission - SDH regenerator	44,309	41,207	38,323	35,640	33,145
Access transmission - STM4 cross-connect	313,853	291,883	271,451	252,450	234,778
Access transmission - CWDM ADM	2,252,355	2,094,690	1,948,061	1,811,697	1,684,878
Access transmission - CWDM Terminal	2,252,355	2,094,690	1,948,061	1,811,697	1,684,878
Access transmission - CWDM 1GE transponder	129,233	120,187	111,774	103,950	96,673
Access transmission - CWDM 10GE transponder	284,314	264,412	245,903	228,690	212,681
Access transmission - leased dark fibre DSLAM/MSAN-ER	-	-	-	-	-
Access transmission - leased dark fibre ER-DR	-	-	-	-	-
Access transmission - Ethernet leased lines DSLAM/MSAN-ER	-	-	-	-	-
Access transmission - Ethernet leased lines ER-DR	-	-	-	-	-
Distribution transmission - submarine fibre cables (km)	177,230	170,141	163,335	156,802	150,530
Distribution transmission - terrestrial fibre cables (km)	25,021	24,020	23,059	22,137	21,251
Distribution transmission - trench (km)	117,479	121,003	124,633	128,372	132,224
Distribution transmission - ODF (48-fibre)	44,309	41,207	38,323	35,640	33,145
Distribution transmission - SDH STM-0 ADM	147,695	137,357	127,742	118,800	110,484
Distribution transmission - SDH STM-1 ADM	295,391	274,713	255,483	237,600	220,968
Distribution transmission - SDH STM-4 ADM	350,777	326,222	303,387	282,150	262,399
Distribution transmission - SDH STM-16 ADM	664,629	618,105	574,838	534,599	497,177
Distribution transmission - SDH STM-64 ADM	2,215,431	2,060,351	1,916,126	1,781,997	1,657,257
Distribution transmission - SDH regenerator	44,309	41,207	38,323	35,640	33,145
Distribution transmission - STM16 cross-connect	738,477	686,784	638,709	593,999	552,419
Distribution transmission - DWDM ADM	3,230,836	3,004,678	2,794,350	2,598,746	2,416,834
Distribution transmission - DWDM Terminal	3,230,836	3,004,678	2,794,350	2,598,746	2,416,834
Distribution transmission - DWDM 10GE transponder	406,162	377,731	351,290	326,699	303,831
Distribution transmission - DWDM 40GE transponder	646,167	600,936	558,870	519,749	483,367
Distribution transmission - leased dark fibre DR-CR	1,376,137	1,321,092	1,268,248	1,217,518	1,168,817
Distribution transmission - Ethernet signal amplifier	738,477	686,784	638,709	593,999	552,419
Core transmission - submarine fibre cables (km)	177,230	170,141	163,335	156,802	150,530
Core transmission - terrestrial fibre cables (km)	25,021	24,020	23,059	22,137	21,251

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Core transmission - trench (km)	117,479	121,003	124,633	128,372	132,224
Core transmission - ODF (96-fibre)	73,848	68,678	63,871	59,400	55,242
Core transmission - SDH STM-0 ADM	147,695	137,357	127,742	118,800	110,484
Core transmission - SDH STM-1 ADM	295,391	274,713	255,483	237,600	220,968
Core transmission - SDH STM-4 ADM	350,777	326,222	303,387	282,150	262,399
Core transmission - SDH STM-16 ADM	664,629	618,105	574,838	534,599	497,177
Core transmission - SDH STM-64 ADM	2,215,431	2,060,351	1,916,126	1,781,997	1,657,257
Core transmission - SDH regenerator	44,309	41,207	38,323	35,640	33,145
Core transmission - STM64 cross-connect	2,400,050	2,232,046	2,075,803	1,930,497	1,795,362
Core transmission - DWDM ADM	3,230,836	3,004,678	2,794,350	2,598,746	2,416,834
Core transmission - DWDM 40GE transponder	646,167	600,936	558,870	519,749	483,367
Core transmission - DWDM signal amplifier	1,920,040	1,785,637	1,660,643	1,544,398	1,436,290
Core transmission - leased dark fibre CR-CR	-	-	-	-	-
Core transmission - Ethernet signal amplifier	738,477	686,784	638,709	593,999	552,419
Access transmission - Ethernet signal amplifier	738,477	686,784	638,709	593,999	552,419
Decommissioning of RSX	-	-	-	-	-
Decommissioning of LS	-	-	-	-	-
Decommissioning of MGW	-	-	-	-	-
Decommissioning of CS	-	-	-	-	-
Business Overheads (Capex)	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000
Business Overheads (Opex)	-	-	-	-	-
NGN DSLAM - processor/rack	382,255	347,852	316,545	288,056	262,131
NGN DSLAM - POTS line card	14,595	14,012	13,451	12,913	12,397
NGN DSLAM - xDSL line card	14,595	14,012	13,451	12,913	12,397
NGN DSLAM - fibre line card	17,723	17,014	16,333	15,680	15,053
NGN DSLAM - splitter	209	200	192	184	177
CN-IP: PE router - chassis	1,638,235	1,490,794	1,356,622	1,234,526	1,123,419
CN-IP: PE router - 4x1GE port cards	100,701	95,666	90,883	86,339	82,022
spare	-	-	-	-	-
CN-IP: Distribution SBC - software licences	36,549	34,356	32,295	30,357	28,536
CN-IP: Interconnect SBC - software licences	36,549	34,356	32,295	30,357	28,536
IMS core: CS - upgrades (subscriber-driven)	152	143	135	126	119
IMS core: CS - upgrades (voice-driven)	23	21	20	19	18
IMS core: MTAS (Residential voice services)	1,310,588	1,192,635	1,085,298	987,621	898,735
IMS core: MTAS (Business voice and ISDN)	7,645,097	6,957,038	6,330,904	5,761,123	5,242,622
NGN DSLAM - mini-processor/rack	218,431	198,773	180,883	164,604	149,789
CN-IP: layer 2 services switch - 12 x 40GE optical ports card	302,104	286,999	272,649	259,016	246,066
DN-IP: layer 3 distribution router - 2 x 40GE optical port card	1,007,013	956,662	908,829	863,388	820,218
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-

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spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
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spare	-	-	-	-	-
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spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-

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1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006

1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
162,337	165,584	168,895	172,273	175,719	179,233	182,818	186,474	190,203	194,008	197,888
876,608	832,778	791,139	751,582	714,003	678,303	644,388	612,168	581,560	552,482	524,858
10,201	9,793	9,401	9,025	8,664	8,317	7,985	7,665	7,359	7,064	6,782
10,201	9,793	9,401	9,025	8,664	8,317	7,985	7,665	7,359	7,064	6,782
68,004	65,284	62,672	60,166	57,759	55,449	53,231	51,101	49,057	47,095	45,211
170	163	157	150	144	139	133	128	123	118	113
876,608	832,778	791,139	751,582	714,003	678,303	644,388	612,168	581,560	552,482	524,858
494,117	449,647	409,178	372,352	338,841	308,345	280,594	255,340	232,360	211,447	192,417
10,201	9,793	9,401	9,025	8,664	8,317	7,985	7,665	7,359	7,064	6,782
3,896	3,701	3,516	3,340	3,173	3,015	2,864	2,721	2,585	2,455	2,333
38,960	37,012	35,162	33,404	31,733	30,147	28,639	27,207	25,847	24,555	23,327
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
162,337	165,584	168,895	172,273	175,719	179,233	182,818	186,474	190,203	194,008	197,888
272,616	248,081	225,754	205,436	186,947	170,121	154,810	140,877	128,199	116,661	106,161
766,733	697,727	634,932	577,788	525,787	478,466	435,404	396,218	360,558	328,108	298,578
8,500	8,160	7,834	7,521	7,220	6,931	6,654	6,388	6,132	5,887	5,651
68,004	65,284	62,672	60,166	57,759	55,449	53,231	51,101	49,057	47,095	45,211
170	163	157	150	144	139	133	128	123	118	113
3,896	3,701	3,516	3,340	3,173	3,015	2,864	2,721	2,585	2,455	2,333
38,960	37,012	35,162	33,404	31,733	30,147	28,639	27,207	25,847	24,555	23,327
255,578	232,576	211,644	192,596	175,262	159,489	145,135	132,073	120,186	109,369	99,526
48,700	46,265	43,952	41,755	39,667	37,683	35,799	34,009	32,309	30,693	29,159
48,700	46,265	43,952	41,755	39,667	37,683	35,799	34,009	32,309	30,693	29,159
146,101	138,796	131,857	125,264	119,001	113,050	107,398	102,028	96,927	92,080	87,476
-	-	-	-	-	-	-	-	-	-	-
170,385	155,051	141,096	128,397	116,842	106,326	96,757	88,048	80,124	72,913	66,351
97,401	92,531	87,904	83,509	79,334	75,367	71,599	68,019	64,618	61,387	58,318
48,700	46,265	43,952	41,755	39,667	37,683	35,799	34,009	32,309	30,693	29,159
487,005	462,654	439,522	417,546	396,668	376,835	357,993	340,094	323,089	306,934	291,588
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
3,246,737	3,311,671	3,377,905	3,445,463	3,514,372	3,584,660	3,656,353	3,729,480	3,804,069	3,880,151	3,957,754
10,714,103	10,178,398	9,669,478	9,186,004	8,726,704	8,290,369	7,875,850	7,482,058	7,107,955	6,752,557	6,414,929

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4,285,641	4,071,359	3,867,791	3,674,402	3,490,682	3,316,147	3,150,340	2,992,823	2,843,182	2,701,023	2,565,972
1,117,655	1,050,596	987,560	928,307	872,608	820,252	771,037	724,774	681,288	640,411	601,986
3,407,704	3,101,011	2,821,920	2,567,947	2,336,832	2,126,517	1,935,130	1,760,969	1,602,482	1,458,258	1,327,015
584,406	555,185	527,426	501,055	476,002	452,202	429,592	408,112	387,707	368,321	349,905
170,385	155,051	141,096	128,397	116,842	106,326	96,757	88,048	80,124	72,913	66,351
58,441	55,519	52,743	50,105	47,600	45,220	42,959	40,811	38,771	36,832	34,991
48,700	46,265	43,952	41,755	39,667	37,683	35,799	34,009	32,309	30,693	29,159
487,005	462,654	439,522	417,546	396,668	376,835	357,993	340,094	323,089	306,934	291,588
1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
3,246,737	3,311,671	3,377,905	3,445,463	3,514,372	3,584,660	3,656,353	3,729,480	3,804,069	3,880,151	3,957,754
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
11,363,578	11,590,850	11,822,667	12,059,120	12,300,302	12,546,308	12,797,235	13,053,179	13,314,243	13,580,528	13,852,138
14,976,582	14,077,987	13,233,308	12,439,309	11,692,951	10,991,374	10,331,891	9,711,978	9,129,259	8,581,504	8,066,613
22,353,107	21,011,921	19,751,206	18,566,133	17,452,165	16,405,035	15,420,733	14,495,489	13,625,760	12,808,214	12,039,721
15,584,150	14,804,942	14,064,695	13,361,461	12,693,388	12,058,718	11,455,782	10,882,993	10,338,843	9,821,901	9,330,806
5,844,056	5,551,853	5,274,261	5,010,548	4,760,020	4,522,019	4,295,918	4,081,122	3,877,066	3,683,213	3,499,052
4,383,042	4,163,890	3,955,696	3,757,911	3,570,015	3,391,514	3,221,939	3,060,842	2,907,800	2,762,410	2,624,289
1,117,655	1,050,596	987,560	928,307	872,608	820,252	771,037	724,774	681,288	640,411	601,986
18,701	17,953	17,235	16,546	15,884	15,248	14,638	14,053	13,491	12,951	12,433
71,404	68,548	65,806	63,174	60,647	58,221	55,892	53,656	51,510	49,450	47,472
5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
11,363,578	11,590,850	11,822,667	12,059,120	12,300,302	12,546,308	12,797,235	13,053,179	13,314,243	13,580,528	13,852,138
3,407,704	3,101,011	2,821,920	2,567,947	2,336,832	2,126,517	1,935,130	1,760,969	1,602,482	1,458,258	1,327,015
584,406	555,185	527,426	501,055	476,002	452,202	429,592	408,112	387,707	368,321	349,905
9,200,802	8,372,729	7,619,184	6,933,457	6,309,446	5,741,596	5,224,852	4,754,616	4,326,700	3,937,297	3,582,940
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779,207	740,247	703,235	668,073	634,669	602,936	572,789	544,150	516,942	491,095	466,540
18,701	17,953	17,235	16,546	15,884	15,248	14,638	14,053	13,491	12,951	12,433
170,385	155,051	141,096	128,397	116,842	106,326	96,757	88,048	80,124	72,913	66,351
58,441	55,519	52,743	50,105	47,600	45,220	42,959	40,811	38,771	36,832	34,991
23,376	22,207	21,097	20,042	19,040	18,088	17,184	16,324	15,508	14,733	13,996
9,350	8,883	8,439	8,017	7,616	7,235	6,873	6,530	6,203	5,893	5,598
255,578	232,576	211,644	192,596	175,262	159,489	145,135	132,073	120,186	109,369	99,526
48,700	46,265	43,952	41,755	39,667	37,683	35,799	34,009	32,309	30,693	29,159
146,101	138,796	131,857	125,264	119,001	113,050	107,398	102,028	96,927	92,080	87,476
5,111,556	4,651,516	4,232,880	3,851,921	3,505,248	3,189,776	2,902,696	2,641,453	2,403,722	2,187,387	1,990,522
3,506,434	3,331,112	3,164,556	3,006,329	2,856,012	2,713,212	2,577,551	2,448,673	2,326,240	2,209,928	2,099,431
3,252,003	2,991,843	2,752,495	2,532,296	2,329,712	2,143,335	1,971,868	1,814,119	1,668,989	1,535,470	1,412,633
739,092	679,964	625,567	575,522	529,480	487,122	448,152	412,300	379,316	348,970	321,053
739,092	679,964	625,567	575,522	529,480	487,122	448,152	412,300	379,316	348,970	321,053
162,600,147	149,592,135	137,624,764	126,614,783	116,485,601	107,166,753	98,593,412	90,705,939	83,449,464	76,773,507	70,631,627
26,007,045	25,486,904	24,977,166	24,477,623	23,988,070	23,508,309	23,038,143	22,577,380	22,125,832	21,683,316	21,249,649
195,052,839	191,151,782	187,328,746	183,582,171	179,910,528	176,312,317	172,786,071	169,330,350	165,943,743	162,624,868	159,372,370
4,551,233	4,460,208	4,371,004	4,283,584	4,197,912	4,113,954	4,031,675	3,951,041	3,872,021	3,794,580	3,718,689

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195,052,839	191,151,782	187,328,746	183,582,171	179,910,528	176,312,317	172,786,071	169,330,350	165,943,743	162,624,868	159,372,370
487,632	477,879	468,322	458,955	449,776	440,781	431,965	423,326	414,859	406,562	398,431
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442,618	455,897	469,574	483,661	498,171	513,116	528,509	544,365	560,696	577,517	594,842
1,180,235	1,062,212	955,991	860,392	774,352	696,917	627,225	564,503	508,053	457,247	411,523
2,163,765	1,947,388	1,752,650	1,577,385	1,419,646	1,277,682	1,149,913	1,034,922	931,430	838,287	754,458
144,508	138,728	133,179	127,852	122,738	117,828	113,115	108,590	104,247	100,077	96,074
20,401	19,585	18,802	18,050	17,328	16,635	15,969	15,330	14,717	14,129	13,563
136,190	140,276	144,484	148,819	153,283	157,882	162,618	167,497	172,522	177,697	183,028
12,844	11,945	11,109	10,331	9,608	8,935	8,310	7,728	7,187	6,684	6,216
28,256	26,278	24,439	22,728	21,137	19,658	18,282	17,002	15,812	14,705	13,676
38,531	35,834	33,326	30,993	28,823	26,806	24,929	23,184	21,561	20,052	18,648
102,750	95,557	88,868	82,648	76,862	71,482	66,478	61,825	57,497	53,472	49,729
205,500	191,115	177,737	165,295	153,725	142,964	132,956	123,649	114,994	106,944	99,458
244,031	226,949	211,063	196,288	182,548	169,770	157,886	146,834	136,555	126,997	118,107
462,375	430,009	399,908	371,914	345,880	321,669	299,152	278,211	258,737	240,625	223,781
1,541,249	1,433,362	1,333,027	1,239,715	1,152,935	1,072,229	997,173	927,371	862,455	802,083	745,937
30,825	28,667	26,661	24,794	23,059	21,445	19,943	18,547	17,249	16,042	14,919
218,344	203,060	188,845	175,626	163,332	151,899	141,266	131,378	122,181	113,628	105,674
1,566,937	1,457,251	1,355,244	1,260,377	1,172,150	1,090,100	1,013,793	942,827	876,829	815,451	758,370
1,566,937	1,457,251	1,355,244	1,260,377	1,172,150	1,090,100	1,013,793	942,827	876,829	815,451	758,370
89,906	83,613	77,760	72,317	67,255	62,547	58,168	54,097	50,310	46,788	43,513
197,794	183,948	171,072	159,097	147,960	137,603	127,971	119,013	110,682	102,934	95,729
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144,508	138,728	133,179	127,852	122,738	117,828	113,115	108,590	104,247	100,077	96,074
20,401	19,585	18,802	18,050	17,328	16,635	15,969	15,330	14,717	14,129	13,563
136,190	140,276	144,484	148,819	153,283	157,882	162,618	167,497	172,522	177,697	183,028
30,825	28,667	26,661	24,794	23,059	21,445	19,943	18,547	17,249	16,042	14,919
102,750	95,557	88,868	82,648	76,862	71,482	66,478	61,825	57,497	53,472	49,729
205,500	191,115	177,737	165,295	153,725	142,964	132,956	123,649	114,994	106,944	99,458
244,031	226,949	211,063	196,288	182,548	169,770	157,886	146,834	136,555	126,997	118,107
462,375	430,009	399,908	371,914	345,880	321,669	299,152	278,211	258,737	240,625	223,781
1,541,249	1,433,362	1,333,027	1,239,715	1,152,935	1,072,229	997,173	927,371	862,455	802,083	745,937
30,825	28,667	26,661	24,794	23,059	21,445	19,943	18,547	17,249	16,042	14,919
513,750	477,787	444,342	413,238	384,312	357,410	332,391	309,124	287,485	267,361	248,646
2,247,655	2,090,319	1,943,997	1,807,917	1,681,363	1,563,668	1,454,211	1,352,416	1,257,747	1,169,705	1,087,825
2,247,655	2,090,319	1,943,997	1,807,917	1,681,363	1,563,668	1,454,211	1,352,416	1,257,747	1,169,705	1,087,825
282,562	262,783	244,388	227,281	211,371	196,575	182,815	170,018	158,117	147,049	136,755
449,531	418,064	388,799	361,583	336,273	312,734	290,842	270,483	251,549	233,941	217,565
1,122,065	1,077,182	1,034,095	992,731	953,022	914,901	878,305	843,173	809,446	777,068	745,985
513,750	477,787	444,342	413,238	384,312	357,410	332,391	309,124	287,485	267,361	248,646
144,508	138,728	133,179	127,852	122,738	117,828	113,115	108,590	104,247	100,077	96,074
20,401	19,585	18,802	18,050	17,328	16,635	15,969	15,330	14,717	14,129	13,563

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136,190	140,276	144,484	148,819	153,283	157,882	162,618	167,497	172,522	177,697	183,028
51,375	47,779	44,434	41,324	38,431	35,741	33,239	30,912	28,749	26,736	24,865
102,750	95,557	88,868	82,648	76,862	71,482	66,478	61,825	57,497	53,472	49,729
205,500	191,115	177,737	165,295	153,725	142,964	132,956	123,649	114,994	106,944	99,458
244,031	226,949	211,063	196,288	182,548	169,770	157,886	146,834	136,555	126,997	118,107
462,375	430,009	399,908	371,914	345,880	321,669	299,152	278,211	258,737	240,625	223,781
1,541,249	1,433,362	1,333,027	1,239,715	1,152,935	1,072,229	997,173	927,371	862,455	802,083	745,937
30,825	28,667	26,661	24,794	23,059	21,445	19,943	18,547	17,249	16,042	14,919
1,669,687	1,552,809	1,444,112	1,343,024	1,249,013	1,161,582	1,080,271	1,004,652	934,326	868,924	808,099
2,247,655	2,090,319	1,943,997	1,807,917	1,681,363	1,563,668	1,454,211	1,352,416	1,257,747	1,169,705	1,087,825
449,531	418,064	388,799	361,583	336,273	312,734	290,842	270,483	251,549	233,941	217,565
1,335,749	1,242,247	1,155,290	1,074,419	999,210	929,265	864,217	803,722	747,461	695,139	646,479
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513,750	477,787	444,342	413,238	384,312	357,410	332,391	309,124	287,485	267,361	248,646
513,750	477,787	444,342	413,238	384,312	357,410	332,391	309,124	287,485	267,361	248,646
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238,539	217,071	197,534	179,756	163,578	148,856	135,459	123,268	112,174	102,078	92,891
11,901	11,425	10,968	10,529	10,108	9,703	9,315	8,943	8,585	8,242	7,912
11,901	11,425	10,968	10,529	10,108	9,703	9,315	8,943	8,585	8,242	7,912
14,451	13,873	13,318	12,785	12,274	11,783	11,312	10,859	10,425	10,008	9,607
170	163	157	150	144	139	133	128	123	118	113
1,022,311	930,303	846,576	770,384	701,050	637,955	580,539	528,291	480,744	437,477	398,104
77,921	74,025	70,323	66,807	63,467	60,294	57,279	54,415	51,694	49,110	46,654
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26,824	25,214	23,701	22,279	20,943	19,686	18,505	17,395	16,351	15,370	14,448
26,824	25,214	23,701	22,279	20,943	19,686	18,505	17,395	16,351	15,370	14,448
112	105	99	93	87	82	77	72	68	64	60
17	16	15	14	13	12	12	11	10	10	9
817,849	744,243	677,261	616,307	560,840	510,364	464,431	422,632	384,596	349,982	318,484
4,770,786	4,341,415	3,950,688	3,595,126	3,271,565	2,977,124	2,709,183	2,465,356	2,243,474	2,041,561	1,857,821
136,308	124,040	112,877	102,718	93,473	85,061	77,405	70,439	64,099	58,330	53,081
233,762	222,074	210,970	200,422	190,401	180,881	171,837	163,245	155,083	147,329	139,962
779,207	740,247	703,235	668,073	634,669	602,936	572,789	544,150	516,942	491,095	466,540
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2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
201,845	205,882	210,000	214,200	218,484	222,854	227,311	231,857	236,494	241,224	246,048
498,615	473,684	450,000	427,500	406,125	385,819	366,528	348,201	330,791	314,252	298,539
6,510	6,250	6,000	5,760	5,530	5,308	5,096	4,892	4,697	4,509	4,328
6,510	6,250	6,000	5,760	5,530	5,308	5,096	4,892	4,697	4,509	4,328
43,403	41,667	40,000	38,400	36,864	35,389	33,974	32,615	31,310	30,058	28,856
109	104	100	96	92	88	85	82	78	75	72
498,615	473,684	450,000	427,500	406,125	385,819	366,528	348,201	330,791	314,252	298,539
175,100	159,341	145,000	131,950	120,075	109,268	99,434	90,485	82,341	74,930	68,187
6,510	6,250	6,000	5,760	5,530	5,308	5,096	4,892	4,697	4,509	4,328
2,216	2,105	2,000	1,900	1,805	1,715	1,629	1,548	1,470	1,397	1,327
22,161	21,053	20,000	19,000	18,050	17,148	16,290	15,476	14,702	13,967	13,268
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
201,845	205,882	210,000	214,200	218,484	222,854	227,311	231,857	236,494	241,224	246,048
96,607	87,912	80,000	72,800	66,248	60,286	54,860	49,923	45,430	41,341	37,620
271,706	247,253	225,000	204,750	186,323	169,553	154,294	140,407	127,771	116,271	105,807
5,425	5,208	5,000	4,800	4,608	4,424	4,247	4,077	3,914	3,757	3,607
43,403	41,667	40,000	38,400	36,864	35,389	33,974	32,615	31,310	30,058	28,856
109	104	100	96	92	88	85	82	78	75	72
2,216	2,105	2,000	1,900	1,805	1,715	1,629	1,548	1,470	1,397	1,327
22,161	21,053	20,000	19,000	18,050	17,148	16,290	15,476	14,702	13,967	13,268
90,569	82,418	75,000	68,250	62,108	56,518	51,431	46,802	42,590	38,757	35,269
27,701	26,316	25,000	23,750	22,563	21,434	20,363	19,345	18,377	17,458	16,586
27,701	26,316	25,000	23,750	22,563	21,434	20,363	19,345	18,377	17,458	16,586
83,102	78,947	75,000	71,250	67,688	64,303	61,088	58,034	55,132	52,375	49,757
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60,379	54,945	50,000	45,500	41,405	37,679	34,287	31,202	28,393	25,838	23,513
55,402	52,632	50,000	47,500	45,125	42,869	40,725	38,689	36,755	34,917	33,171
27,701	26,316	25,000	23,750	22,563	21,434	20,363	19,345	18,377	17,458	16,586
277,008	263,158	250,000	237,500	225,625	214,344	203,627	193,445	183,773	174,584	165,855
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1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
4,036,909	4,117,647	4,200,000	4,284,000	4,369,680	4,457,074	4,546,215	4,637,139	4,729,882	4,824,480	4,920,969
6,094,183	5,789,474	5,500,000	5,225,000	4,963,750	4,715,563	4,479,784	4,255,795	4,043,005	3,840,855	3,648,812

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2,437,673	2,315,789	2,200,000	2,090,000	1,985,500	1,886,225	1,791,914	1,702,318	1,617,202	1,536,342	1,459,525
565,867	531,915	500,000	470,000	441,800	415,292	390,374	366,952	344,935	324,239	304,784
1,207,584	1,098,901	1,000,000	910,000	828,100	753,571	685,750	624,032	567,869	516,761	470,253
332,410	315,789	300,000	285,000	270,750	257,213	244,352	232,134	220,528	209,501	199,026
60,379	54,945	50,000	45,500	41,405	37,679	34,287	31,202	28,393	25,838	23,513
33,241	31,579	30,000	28,500	27,075	25,721	24,435	23,213	22,053	20,950	19,903
27,701	26,316	25,000	23,750	22,563	21,434	20,363	19,345	18,377	17,458	16,586
277,008	263,158	250,000	237,500	225,625	214,344	203,627	193,445	183,773	174,584	165,855
1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
4,036,909	4,117,647	4,200,000	4,284,000	4,369,680	4,457,074	4,546,215	4,637,139	4,729,882	4,824,480	4,920,969
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5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
14,129,181	14,411,765	14,700,000	14,994,000	15,293,880	15,599,758	15,911,753	16,229,988	16,554,588	16,885,679	17,223,393
7,582,617	7,127,660	6,700,000	6,298,000	5,920,120	5,564,913	5,231,018	4,917,157	4,622,128	4,344,800	4,084,112
11,317,338	10,638,298	10,000,000	9,400,000	8,836,000	8,305,840	7,807,490	7,339,040	6,898,698	6,484,776	6,095,689
8,864,266	8,421,053	8,000,000	7,600,000	7,220,000	6,859,000	6,516,050	6,190,248	5,880,735	5,586,698	5,307,363
3,324,100	3,157,895	3,000,000	2,850,000	2,707,500	2,572,125	2,443,519	2,321,343	2,205,276	2,095,012	1,990,261
2,493,075	2,368,421	2,250,000	2,137,500	2,030,625	1,929,094	1,832,639	1,741,007	1,653,957	1,571,259	1,492,696
565,867	531,915	500,000	470,000	441,800	415,292	390,374	366,952	344,935	324,239	304,784
11,936	11,458	11,000	10,560	10,138	9,732	9,343	8,969	8,610	8,266	7,935
45,573	43,750	42,000	40,320	38,707	37,159	35,673	34,246	32,876	31,561	30,298
5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
14,129,181	14,411,765	14,700,000	14,994,000	15,293,880	15,599,758	15,911,753	16,229,988	16,554,588	16,885,679	17,223,393
1,207,584	1,098,901	1,000,000	910,000	828,100	753,571	685,750	624,032	567,869	516,761	470,253
332,410	315,789	300,000	285,000	270,750	257,213	244,352	232,134	220,528	209,501	199,026
3,260,476	2,967,033	2,700,000	2,457,000	2,235,870	2,034,642	1,851,524	1,684,887	1,533,247	1,395,255	1,269,682
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443,213	421,053	400,000	380,000	361,000	342,950	325,803	309,512	294,037	279,335	265,368
11,936	11,458	11,000	10,560	10,138	9,732	9,343	8,969	8,610	8,266	7,935
60,379	54,945	50,000	45,500	41,405	37,679	34,287	31,202	28,393	25,838	23,513
33,241	31,579	30,000	28,500	27,075	25,721	24,435	23,213	22,053	20,950	19,903
13,296	12,632	12,000	11,400	10,830	10,289	9,774	9,285	8,821	8,380	7,961
5,319	5,053	4,800	4,560	4,332	4,115	3,910	3,714	3,528	3,352	3,184
90,569	82,418	75,000	68,250	62,108	56,518	51,431	46,802	42,590	38,757	35,269
27,701	26,316	25,000	23,750	22,563	21,434	20,363	19,345	18,377	17,458	16,586
83,102	78,947	75,000	71,250	67,688	64,303	61,088	58,034	55,132	52,375	49,757
1,811,375	1,648,352	1,500,000	1,365,000	1,242,150	1,130,357	1,028,624	936,048	851,804	775,142	705,379
1,994,460	1,894,737	1,800,000	1,710,000	1,624,500	1,543,275	1,466,111	1,392,806	1,323,165	1,257,007	1,194,157
1,299,622	1,195,652	1,100,000	1,012,000	931,040	856,557	788,032	724,990	666,991	613,631	564,541
295,369	271,739	250,000	230,000	211,600	194,672	179,098	164,770	151,589	139,462	128,305
295,369	271,739	250,000	230,000	211,600	194,672	179,098	164,770	151,589	139,462	128,305
64,981,096	59,782,609	55,000,000	50,600,000	46,552,000	42,827,840	39,401,613	36,249,484	33,349,525	30,681,563	28,227,038
20,824,656	20,408,163	20,000,000	19,600,000	19,208,000	18,823,840	18,447,363	18,078,416	17,716,848	17,362,511	17,015,260
156,184,923	153,061,224	150,000,000	147,000,000	144,060,000	141,178,800	138,355,224	135,588,120	132,876,357	130,218,830	127,614,453
3,644,315	3,571,429	3,500,000	3,430,000	3,361,400	3,294,172	3,228,289	3,163,723	3,100,448	3,038,439	2,977,671

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156,184,923	153,061,224	150,000,000	147,000,000	144,060,000	141,178,800	138,355,224	135,588,120	132,876,357	130,218,830	127,614,453
390,462	382,653	375,000	367,500	360,150	352,947	345,888	338,970	332,191	325,547	319,036
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612,687	631,068	650,000	669,500	689,585	710,273	731,581	753,528	776,134	799,418	823,401
370,370	333,333	300,000	270,000	243,000	218,700	196,830	177,147	159,432	143,489	129,140
679,012	611,111	550,000	495,000	445,500	400,950	360,855	324,770	292,293	263,063	236,757
92,231	88,542	85,000	81,600	78,336	75,203	72,194	69,307	66,534	63,873	61,318
13,021	12,500	12,000	11,520	11,059	10,617	10,192	9,784	9,393	9,017	8,657
188,519	194,175	200,000	206,000	212,180	218,545	225,102	231,855	238,810	245,975	253,354
5,781	5,376	5,000	4,650	4,325	4,022	3,740	3,478	3,235	3,009	2,798
12,718	11,828	11,000	10,230	9,514	8,848	8,229	7,653	7,117	6,619	6,155
17,343	16,129	15,000	13,950	12,974	12,065	11,221	10,435	9,705	9,026	8,394
46,248	43,011	40,000	37,200	34,596	32,174	29,922	27,828	25,880	24,068	22,383
92,496	86,022	80,000	74,400	69,192	64,349	59,844	55,655	51,759	48,136	44,767
109,839	102,151	95,000	88,350	82,166	76,414	71,065	66,090	61,464	57,162	53,160
208,117	193,548	180,000	167,400	155,682	144,784	134,649	125,224	116,458	108,306	100,725
693,722	645,161	600,000	558,000	518,940	482,614	448,831	417,413	388,194	361,021	335,749
13,874	12,903	12,000	11,160	10,379	9,652	8,977	8,348	7,764	7,220	6,715
98,277	91,398	85,000	79,050	73,517	68,370	63,584	59,134	54,994	51,145	47,564
705,284	655,914	610,000	567,300	527,589	490,658	456,312	424,370	394,664	367,038	341,345
705,284	655,914	610,000	567,300	527,589	490,658	456,312	424,370	394,664	367,038	341,345
40,467	37,634	35,000	32,550	30,272	28,152	26,182	24,349	22,645	21,060	19,585
89,028	82,796	77,000	71,610	66,597	61,935	57,600	53,568	49,818	46,331	43,088
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92,231	88,542	85,000	81,600	78,336	75,203	72,194	69,307	66,534	63,873	61,318
13,021	12,500	12,000	11,520	11,059	10,617	10,192	9,784	9,393	9,017	8,657
188,519	194,175	200,000	206,000	212,180	218,545	225,102	231,855	238,810	245,975	253,354
13,874	12,903	12,000	11,160	10,379	9,652	8,977	8,348	7,764	7,220	6,715
46,248	43,011	40,000	37,200	34,596	32,174	29,922	27,828	25,880	24,068	22,383
92,496	86,022	80,000	74,400	69,192	64,349	59,844	55,655	51,759	48,136	44,767
109,839	102,151	95,000	88,350	82,166	76,414	71,065	66,090	61,464	57,162	53,160
208,117	193,548	180,000	167,400	155,682	144,784	134,649	125,224	116,458	108,306	100,725
693,722	645,161	600,000	558,000	518,940	482,614	448,831	417,413	388,194	361,021	335,749
13,874	12,903	12,000	11,160	10,379	9,652	8,977	8,348	7,764	7,220	6,715
231,241	215,054	200,000	186,000	172,980	160,871	149,610	139,138	129,398	120,340	111,916
1,011,678	940,860	875,000	813,750	756,788	703,812	654,546	608,727	566,116	526,488	489,634
1,011,678	940,860	875,000	813,750	756,788	703,812	654,546	608,727	566,116	526,488	489,634
127,182	118,280	110,000	102,300	95,139	88,479	82,286	76,526	71,169	66,187	61,554
202,336	188,172	175,000	162,750	151,358	140,762	130,909	121,745	113,223	105,298	97,927
716,146	687,500	660,000	633,600	608,256	583,926	560,569	538,146	516,620	495,955	476,117
231,241	215,054	200,000	186,000	172,980	160,871	149,610	139,138	129,398	120,340	111,916
92,231	88,542	85,000	81,600	78,336	75,203	72,194	69,307	66,534	63,873	61,318
13,021	12,500	12,000	11,520	11,059	10,617	10,192	9,784	9,393	9,017	8,657

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188,519	194,175	200,000	206,000	212,180	218,545	225,102	231,855	238,810	245,975	253,354
23,124	21,505	20,000	18,600	17,298	16,087	14,961	13,914	12,940	12,034	11,192
46,248	43,011	40,000	37,200	34,596	32,174	29,922	27,828	25,880	24,068	22,383
92,496	86,022	80,000	74,400	69,192	64,349	59,844	55,655	51,759	48,136	44,767
109,839	102,151	95,000	88,350	82,166	76,414	71,065	66,090	61,464	57,162	53,160
208,117	193,548	180,000	167,400	155,682	144,784	134,649	125,224	116,458	108,306	100,725
693,722	645,161	600,000	558,000	518,940	482,614	448,831	417,413	388,194	361,021	335,749
13,874	12,903	12,000	11,160	10,379	9,652	8,977	8,348	7,764	7,220	6,715
751,532	698,925	650,000	604,500	562,185	522,832	486,234	452,197	420,544	391,106	363,728
1,011,678	940,860	875,000	813,750	756,788	703,812	654,546	608,727	566,116	526,488	489,634
202,336	188,172	175,000	162,750	151,358	140,762	130,909	121,745	113,223	105,298	97,927
601,226	559,140	520,000	483,600	449,748	418,266	388,987	361,758	336,435	312,884	290,983
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231,241	215,054	200,000	186,000	172,980	160,871	149,610	139,138	129,398	120,340	111,916
231,241	215,054	200,000	186,000	172,980	160,871	149,610	139,138	129,398	120,340	111,916
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90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000
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84,531	76,923	70,000	63,700	57,967	52,750	48,002	43,682	39,751	36,173	32,918
7,595	7,292	7,000	6,720	6,451	6,193	5,945	5,708	5,479	5,260	5,050
7,595	7,292	7,000	6,720	6,451	6,193	5,945	5,708	5,479	5,260	5,050
9,223	8,854	8,500	8,160	7,834	7,520	7,219	6,931	6,653	6,387	6,132
109	104	100	96	92	88	85	82	78	75	72
362,275	329,670	300,000	273,000	248,430	226,071	205,725	187,210	170,361	155,028	141,076
44,321	42,105	40,000	38,000	36,100	34,295	32,580	30,951	29,404	27,933	26,537
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13,581	12,766	12,000	11,280	10,603	9,967	9,369	8,807	8,278	7,782	7,315
13,581	12,766	12,000	11,280	10,603	9,967	9,369	8,807	8,278	7,782	7,315
57	53	50	47	44	42	39	37	34	32	30
8	8	8	7	7	6	6	6	5	5	5
289,820	263,736	240,000	218,400	198,744	180,857	164,580	149,768	136,289	124,023	112,861
1,690,617	1,538,462	1,400,000	1,274,000	1,159,340	1,054,999	960,049	873,645	795,017	723,465	658,354
48,303	43,956	40,000	36,400	33,124	30,143	27,430	24,961	22,715	20,670	18,810
132,964	126,316	120,000	114,000	108,300	102,885	97,741	92,854	88,211	83,800	79,610
443,213	421,053	400,000	380,000	361,000	342,950	325,803	309,512	294,037	279,335	265,368
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2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028

2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
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80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
250,969	255,989	261,109	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331
283,612	269,432	255,960	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162
4,155	3,989	3,829	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676
4,155	3,989	3,829	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676
27,701	26,593	25,530	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508
69	66	64	61	61	61	61	61	61	61	61
283,612	269,432	255,960	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162
62,050	56,465	51,383	46,759	46,759	46,759	46,759	46,759	46,759	46,759	46,759
4,155	3,989	3,829	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676
1,260	1,197	1,138	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081
12,605	11,975	11,376	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
250,969	255,989	261,109	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331
34,234	31,153	28,349	25,798	25,798	25,798	25,798	25,798	25,798	25,798	25,798
96,284	87,619	79,733	72,557	72,557	72,557	72,557	72,557	72,557	72,557	72,557
3,463	3,324	3,191	3,064	3,064	3,064	3,064	3,064	3,064	3,064	3,064
27,701	26,593	25,530	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508
69	66	64	61	61	61	61	61	61	61	61
1,260	1,197	1,138	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081
12,605	11,975	11,376	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807
32,095	29,206	26,578	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186
15,756	14,968	14,220	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
15,756	14,968	14,220	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
47,269	44,905	42,660	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527
-	-	-	-	-	-	-	-	-	-	-
21,396	19,471	17,718	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124
31,512	29,937	28,440	27,018	27,018	27,018	27,018	27,018	27,018	27,018	27,018
15,756	14,968	14,220	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
157,562	149,684	142,200	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
5,019,389	5,119,777	5,222,172	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616
3,466,372	3,293,053	3,128,401	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980

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1,386,549	1,317,221	1,251,360	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792
286,497	269,308	253,149	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960
427,930	389,416	354,369	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475
189,075	179,621	170,640	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108
21,396	19,471	17,718	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124
18,907	17,962	17,064	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211
15,756	14,968	14,220	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
157,562	149,684	142,200	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090
1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
5,019,389	5,119,777	5,222,172	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
17,567,861	17,919,218	18,277,602	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154
3,839,065	3,608,721	3,392,198	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666
5,729,948	5,386,151	5,062,982	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203
5,041,995	4,789,896	4,550,401	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881
1,890,748	1,796,211	1,706,400	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080
1,418,061	1,347,158	1,279,800	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810
286,497	269,308	253,149	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960
7,618	7,313	7,021	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740
29,086	27,923	26,806	25,734	25,734	25,734	25,734	25,734	25,734	25,734	25,734
5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
17,567,861	17,919,218	18,277,602	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154
427,930	389,416	354,369	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475
189,075	179,621	170,640	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108
1,155,410	1,051,424	956,795	870,684	870,684	870,684	870,684	870,684	870,684	870,684	870,684
-	-	-	-	-	-	-	-	-	-	-
252,100	239,495	227,520	216,144	216,144	216,144	216,144	216,144	216,144	216,144	216,144
7,618	7,313	7,021	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740
21,396	19,471	17,718	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124
18,907	17,962	17,064	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211
7,563	7,185	6,826	6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484
3,025	2,874	2,730	2,594	2,594	2,594	2,594	2,594	2,594	2,594	2,594
32,095	29,206	26,578	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186
15,756	14,968	14,220	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
47,269	44,905	42,660	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527
641,895	584,124	531,553	483,713	483,713	483,713	483,713	483,713	483,713	483,713	483,713
1,134,449	1,077,726	1,023,840	972,648	972,648	972,648	972,648	972,648	972,648	972,648	972,648
519,377	477,827	439,601	404,433	404,433	404,433	404,433	404,433	404,433	404,433	404,433
118,040	108,597	99,909	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917
118,040	108,597	99,909	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917
25,968,875	23,891,365	21,980,056	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651
16,674,955	16,341,456	16,014,627	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334
125,062,164	122,560,921	120,109,703	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509
2,918,117	2,859,755	2,802,560	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509

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125,062,164	122,560,921	120,109,703	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509
312,655	306,402	300,274	294,269	294,269	294,269	294,269	294,269	294,269	294,269	294,269
-	-	-	-	-	-	-	-	-	-	-
848,103	873,546	899,752	926,745	926,745	926,745	926,745	926,745	926,745	926,745	926,745
116,226	104,604	94,143	84,729	84,729	84,729	84,729	84,729	84,729	84,729	84,729
213,081	191,773	172,596	155,336	155,336	155,336	155,336	155,336	155,336	155,336	155,336
58,865	56,511	54,250	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080
8,310	7,978	7,659	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353
260,955	268,783	276,847	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152
2,602	2,420	2,251	2,093	2,093	2,093	2,093	2,093	2,093	2,093	2,093
5,725	5,324	4,951	4,605	4,605	4,605	4,605	4,605	4,605	4,605	4,605
7,806	7,260	6,752	6,279	6,279	6,279	6,279	6,279	6,279	6,279	6,279
20,816	19,359	18,004	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744
41,633	38,719	36,008	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488
49,439	45,978	42,760	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767
93,674	87,117	81,019	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347
312,247	290,389	270,062	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158
6,245	5,808	5,401	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
44,235	41,138	38,259	35,581	35,581	35,581	35,581	35,581	35,581	35,581	35,581
317,451	295,229	274,563	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344
317,451	295,229	274,563	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344
18,214	16,939	15,754	14,651	14,651	14,651	14,651	14,651	14,651	14,651	14,651
40,072	37,267	34,658	32,232	32,232	32,232	32,232	32,232	32,232	32,232	32,232
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
58,865	56,511	54,250	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080
8,310	7,978	7,659	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353
260,955	268,783	276,847	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152
6,245	5,808	5,401	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
20,816	19,359	18,004	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744
41,633	38,719	36,008	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488
49,439	45,978	42,760	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767
93,674	87,117	81,019	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347
312,247	290,389	270,062	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158
6,245	5,808	5,401	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
104,082	96,796	90,021	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
455,360	423,485	393,841	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272
455,360	423,485	393,841	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272
57,245	53,238	49,511	46,046	46,046	46,046	46,046	46,046	46,046	46,046	46,046
91,072	84,697	78,768	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254
457,072	438,790	421,238	404,388	404,388	404,388	404,388	404,388	404,388	404,388	404,388
104,082	96,796	90,021	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
58,865	56,511	54,250	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080
8,310	7,978	7,659	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353

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260,955	268,783	276,847	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152
10,408	9,680	9,002	8,372	8,372	8,372	8,372	8,372	8,372	8,372	8,372
20,816	19,359	18,004	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744
41,633	38,719	36,008	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488
49,439	45,978	42,760	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767
93,674	87,117	81,019	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347
312,247	290,389	270,062	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158
6,245	5,808	5,401	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
338,267	314,588	292,567	272,088	272,088	272,088	272,088	272,088	272,088	272,088	272,088
455,360	423,485	393,841	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272
91,072	84,697	78,768	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254
270,614	251,671	234,054	217,670	217,670	217,670	217,670	217,670	217,670	217,670	217,670
-	-	-	-	-	-	-	-	-	-	-
104,082	96,796	90,021	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
104,082	96,796	90,021	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000
-	-	-	-	-	-	-	-	-	-	-
29,955	27,259	24,806	22,573	20,542	18,693	17,011	15,480	14,086	12,819	11,665
4,848	4,654	4,468	4,289	4,117	3,953	3,795	3,643	3,497	3,357	3,223
4,848	4,654	4,468	4,289	4,117	3,953	3,795	3,643	3,497	3,357	3,223
5,887	5,651	5,425	5,208	5,000	4,800	4,608	4,423	4,246	4,077	3,914
69	66	64	61	59	56	54	52	50	48	46
128,379	116,825	106,311	96,743	88,036	80,113	72,902	66,341	60,371	54,937	49,993
25,210	23,949	22,752	21,614	20,534	19,507	18,532	17,605	16,725	15,889	15,094
-	-	-	-	-	-	-	-	-	-	-
6,876	6,463	6,076	5,711	5,368	5,046	4,744	4,459	4,191	3,940	3,703
6,876	6,463	6,076	5,711	5,368	5,046	4,744	4,459	4,191	3,940	3,703
29	27	25	24	22	21	20	19	17	16	15
4	4	4	4	3	3	3	3	3	2	2
102,703	93,460	85,048	77,394	70,429	64,090	58,322	53,073	48,296	43,950	39,994
599,102	545,183	496,116	451,466	410,834	373,859	340,211	309,592	281,729	256,373	233,300
17,117	15,577	14,175	12,899	11,738	10,682	9,720	8,845	8,049	7,325	6,666
75,630	71,848	68,256	64,843	61,601	58,521	55,595	52,815	50,174	47,666	45,282
252,100	239,495	227,520	216,144	205,337	195,070	185,316	176,051	167,248	158,886	150,941
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039

2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331
243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162
3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676
3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676
24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508
61	61	61	61	61	61	61	61	61	61	61
243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162
46,759	46,759	46,759	46,759	46,759	46,759	46,759	46,759	46,759	46,759	46,759
3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676
1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081
10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331
25,798	25,798	25,798	25,798	25,798	25,798	25,798	25,798	25,798	25,798	25,798
72,557	72,557	72,557	72,557	72,557	72,557	72,557	72,557	72,557	72,557	72,557
3,064	3,064	3,064	3,064	3,064	3,064	3,064	3,064	3,064	3,064	3,064
24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508
61	61	61	61	61	61	61	61	61	61	61
1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081
10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807
24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186
13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527
-	-	-	-	-	-	-	-	-	-	-
16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124
27,018	27,018	27,018	27,018	27,018	27,018	27,018	27,018	27,018	27,018	27,018
13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616
2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980

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1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792
237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960
322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475
162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108
16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124
16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211
13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090
1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154
3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666
4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203
4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881
1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080
1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810
237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960
6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740
25,734	25,734	25,734	25,734	25,734	25,734	25,734	25,734	25,734	25,734	25,734
5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154
322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475
162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108
870,684	870,684	870,684	870,684	870,684	870,684	870,684	870,684	870,684	870,684	870,684
-	-	-	-	-	-	-	-	-	-	-
216,144	216,144	216,144	216,144	216,144	216,144	216,144	216,144	216,144	216,144	216,144
6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740
16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124
16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211
6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484
2,594	2,594	2,594	2,594	2,594	2,594	2,594	2,594	2,594	2,594	2,594
24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186
13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527
483,713	483,713	483,713	483,713	483,713	483,713	483,713	483,713	483,713	483,713	483,713
972,648	972,648	972,648	972,648	972,648	972,648	972,648	972,648	972,648	972,648	972,648
404,433	404,433	404,433	404,433	404,433	404,433	404,433	404,433	404,433	404,433	404,433
91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917
91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917
20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651
15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334
117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509
2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509

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117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509
294,269	294,269	294,269	294,269	294,269	294,269	294,269	294,269	294,269	294,269	294,269
-	-	-	-	-	-	-	-	-	-	-
926,745	926,745	926,745	926,745	926,745	926,745	926,745	926,745	926,745	926,745	926,745
84,729	84,729	84,729	84,729	84,729	84,729	84,729	84,729	84,729	84,729	84,729
155,336	155,336	155,336	155,336	155,336	155,336	155,336	155,336	155,336	155,336	155,336
52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080
7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353
285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152
2,093	2,093	2,093	2,093	2,093	2,093	2,093	2,093	2,093	2,093	2,093
4,605	4,605	4,605	4,605	4,605	4,605	4,605	4,605	4,605	4,605	4,605
6,279	6,279	6,279	6,279	6,279	6,279	6,279	6,279	6,279	6,279	6,279
16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744
33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488
39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767
75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347
251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158
5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
35,581	35,581	35,581	35,581	35,581	35,581	35,581	35,581	35,581	35,581	35,581
255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344
255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344
14,651	14,651	14,651	14,651	14,651	14,651	14,651	14,651	14,651	14,651	14,651
32,232	32,232	32,232	32,232	32,232	32,232	32,232	32,232	32,232	32,232	32,232
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080
7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353
285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152
5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744
33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488
39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767
75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347
251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158
5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272
366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272
46,046	46,046	46,046	46,046	46,046	46,046	46,046	46,046	46,046	46,046	46,046
73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254
404,388	404,388	404,388	404,388	404,388	404,388	404,388	404,388	404,388	404,388	404,388
83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080
7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353

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285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152
8,372	8,372	8,372	8,372	8,372	8,372	8,372	8,372	8,372	8,372	8,372
16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744
33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488
39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767
75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347
251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158
5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
272,088	272,088	272,088	272,088	272,088	272,088	272,088	272,088	272,088	272,088	272,088
366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272
73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254
217,670	217,670	217,670	217,670	217,670	217,670	217,670	217,670	217,670	217,670	217,670
-	-	-	-	-	-	-	-	-	-	-
83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000
-	-	-	-	-	-	-	-	-	-	-
10,615	9,660	8,790	7,999	7,279	6,624	6,028	5,485	4,992	4,543	4,134
3,094	2,970	2,851	2,737	2,628	2,523	2,422	2,325	2,232	2,143	2,057
3,094	2,970	2,851	2,737	2,628	2,523	2,422	2,325	2,232	2,143	2,057
3,757	3,607	3,462	3,324	3,191	3,063	2,941	2,823	2,710	2,602	2,498
44	42	41	39	38	36	35	33	32	31	29
45,493	41,399	37,673	34,283	31,197	28,389	25,834	23,509	21,393	19,468	17,716
14,339	13,622	12,941	12,294	11,680	11,096	10,541	10,014	9,513	9,037	8,586
-	-	-	-	-	-	-	-	-	-	-
3,481	3,272	3,076	2,891	2,718	2,555	2,402	2,258	2,122	1,995	1,875
3,481	3,272	3,076	2,891	2,718	2,555	2,402	2,258	2,122	1,995	1,875
15	14	13	12	11	11	10	9	9	8	8
2	2	2	2	2	2	2	1	1	1	1
36,395	33,119	30,139	27,426	24,958	22,712	20,667	18,807	17,115	15,574	14,173
212,303	193,196	175,808	159,985	145,587	132,484	120,560	109,710	99,836	90,851	82,674
6,066	5,520	5,023	4,571	4,160	3,785	3,445	3,135	2,852	2,596	2,362
43,018	40,867	38,824	36,883	35,039	33,287	31,622	30,041	28,539	27,112	25,757
143,394	136,225	129,413	122,943	116,796	110,956	105,408	100,138	95,131	90,374	85,856
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050

2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331
243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162
3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676
3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676
24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508
61	61	61	61	61	61	61	61	61	61	61
243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162	243,162
46,759	46,759	46,759	46,759	46,759	46,759	46,759	46,759	46,759	46,759	46,759
3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676	3,676
1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081
10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331	266,331
25,798	25,798	25,798	25,798	25,798	25,798	25,798	25,798	25,798	25,798	25,798
72,557	72,557	72,557	72,557	72,557	72,557	72,557	72,557	72,557	72,557	72,557
3,064	3,064	3,064	3,064	3,064	3,064	3,064	3,064	3,064	3,064	3,064
24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508	24,508
61	61	61	61	61	61	61	61	61	61	61
1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081
10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807	10,807
24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186
13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527
-	-	-	-	-	-	-	-	-	-	-
16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124
27,018	27,018	27,018	27,018	27,018	27,018	27,018	27,018	27,018	27,018	27,018
13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616
2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980	2,971,980

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1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792	1,188,792
237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960
322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475
162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108
16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124
16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211
13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090	135,090
1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616	5,326,616
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154
3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666	3,188,666
4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203	4,759,203
4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881	4,322,881
1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080	1,621,080
1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810	1,215,810
237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960	237,960
6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740
25,734	25,734	25,734	25,734	25,734	25,734	25,734	25,734	25,734	25,734	25,734
5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000	5,600,000
18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154	18,643,154
322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475	322,475
162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108	162,108
870,684	870,684	870,684	870,684	870,684	870,684	870,684	870,684	870,684	870,684	870,684
-	-	-	-	-	-	-	-	-	-	-
216,144	216,144	216,144	216,144	216,144	216,144	216,144	216,144	216,144	216,144	216,144
6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740	6,740
16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124	16,124
16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211	16,211
6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484
2,594	2,594	2,594	2,594	2,594	2,594	2,594	2,594	2,594	2,594	2,594
24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186	24,186
13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509	13,509
40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527	40,527
483,713	483,713	483,713	483,713	483,713	483,713	483,713	483,713	483,713	483,713	483,713
972,648	972,648	972,648	972,648	972,648	972,648	972,648	972,648	972,648	972,648	972,648
404,433	404,433	404,433	404,433	404,433	404,433	404,433	404,433	404,433	404,433	404,433
91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917
91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917	91,917
20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651	20,221,651
15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334	15,694,334
117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509
2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509	2,746,509

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117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509	117,707,509
294,269	294,269	294,269	294,269	294,269	294,269	294,269	294,269	294,269	294,269	294,269
-	-	-	-	-	-	-	-	-	-	-
926,745	926,745	926,745	926,745	926,745	926,745	926,745	926,745	926,745	926,745	926,745
84,729	84,729	84,729	84,729	84,729	84,729	84,729	84,729	84,729	84,729	84,729
155,336	155,336	155,336	155,336	155,336	155,336	155,336	155,336	155,336	155,336	155,336
52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080
7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353
285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152
2,093	2,093	2,093	2,093	2,093	2,093	2,093	2,093	2,093	2,093	2,093
4,605	4,605	4,605	4,605	4,605	4,605	4,605	4,605	4,605	4,605	4,605
6,279	6,279	6,279	6,279	6,279	6,279	6,279	6,279	6,279	6,279	6,279
16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744
33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488
39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767
75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347
251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158
5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
35,581	35,581	35,581	35,581	35,581	35,581	35,581	35,581	35,581	35,581	35,581
255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344
255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344	255,344
14,651	14,651	14,651	14,651	14,651	14,651	14,651	14,651	14,651	14,651	14,651
32,232	32,232	32,232	32,232	32,232	32,232	32,232	32,232	32,232	32,232	32,232
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080
7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353
285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152
5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744
33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488
39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767
75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347
251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158
5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272
366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272
46,046	46,046	46,046	46,046	46,046	46,046	46,046	46,046	46,046	46,046	46,046
73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254
404,388	404,388	404,388	404,388	404,388	404,388	404,388	404,388	404,388	404,388	404,388
83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080	52,080
7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353	7,353

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285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152	285,152
8,372	8,372	8,372	8,372	8,372	8,372	8,372	8,372	8,372	8,372	8,372
16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744
33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488	33,488
39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767	39,767
75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347	75,347
251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158	251,158
5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023	5,023
272,088	272,088	272,088	272,088	272,088	272,088	272,088	272,088	272,088	272,088	272,088
366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272	366,272
73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254	73,254
217,670	217,670	217,670	217,670	217,670	217,670	217,670	217,670	217,670	217,670	217,670
-	-	-	-	-	-	-	-	-	-	-
83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719	83,719
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000	90,000,000
-	-	-	-	-	-	-	-	-	-	-
3,762	3,423	3,115	2,835	2,580	2,347	2,136	1,944	1,769	1,610	1,465
1,975	1,896	1,820	1,747	1,677	1,610	1,546	1,484	1,425	1,368	1,313
1,975	1,896	1,820	1,747	1,677	1,610	1,546	1,484	1,425	1,368	1,313
2,398	2,302	2,210	2,121	2,037	1,955	1,877	1,802	1,730	1,661	1,594
28	27	26	25	24	23	22	21	20	20	19
16,121	14,671	13,350	12,149	11,055	10,060	9,155	8,331	7,581	6,899	6,278
8,156	7,748	7,361	6,993	6,643	6,311	5,996	5,696	5,411	5,140	4,883
-	-	-	-	-	-	-	-	-	-	-
1,763	1,657	1,557	1,464	1,376	1,294	1,216	1,143	1,074	1,010	949
1,763	1,657	1,557	1,464	1,376	1,294	1,216	1,143	1,074	1,010	949
7	7	6	6	6	5	5	5	4	4	4
1	1	1	1	1	1	1	1	1	1	1
12,897	11,736	10,680	9,719	8,844	8,048	7,324	6,665	6,065	5,519	5,022
75,233	68,462	62,301	56,694	51,591	46,948	42,723	38,878	35,379	32,195	29,297
2,150	1,956	1,780	1,620	1,474	1,341	1,221	1,111	1,011	920	837
24,469	23,245	22,083	20,979	19,930	18,934	17,987	17,087	16,233	15,421	14,650
81,563	77,485	73,610	69,930	66,433	63,112	59,956	56,958	54,110	51,405	48,835
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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Unit_investment_costs

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Unit opex

Unit operating expenditures per network element

Network element	1991	1992	1993	1994	1995
AN-Common: Site rental for core - PSTN	12,802	12,802	12,802	12,802	12,802
AN-Common: Site rental for core - Other	12,802	12,802	12,802	12,802	12,802
AN-Common: Air conditioning unit - PSTN	1,600	1,600	1,600	1,600	1,600
AN-Common: UPS and Generator - PSTN	8,400	8,400	8,400	8,400	8,400
AN-TDM: RSX processor/rack	40,500	40,500	40,500	40,500	40,500
AN-TDM: RSX line card - PSTN	360	360	360	360	360
AN-TDM: RSX line card - ISDN 2	360	360	360	360	360
AN-TDM: RSX line card - ISDN 30	2,400	2,400	2,400	2,400	2,400
AN-TDM: MDF splitter cards	10	10	10	10	10
AN-TDM: Replacement of RSX processor/rack	-	-	-	-	-
AN-IP: DSLAM processor/rack	43,500	43,500	43,500	43,500	43,500
AN-IP: DSLAM line cards - xDSL	1,800	1,800	1,800	1,800	1,800
AN-IP: DSLAM core-facing ports - 1GE electrical port	600	600	600	600	600
AN-IP: DSLAM core-facing ports - 1GE optical port	6,000	6,000	6,000	6,000	6,000
AN-Common: Air conditioning unit - Other	1,600	1,600	1,600	1,600	1,600
AN-Common: UPS and Generator - Other	8,400	8,400	8,400	8,400	8,400
AN-IP: mini-MSAN processor/rack	24,000	24,000	24,000	24,000	24,000
AN-IP: MSAN processor/rack	67,500	67,500	67,500	67,500	67,500
AN-IP: MSAN line card - PSTN	1,500	1,500	1,500	1,500	1,500
AN-IP: MSAN line card - xDSL	12,000	12,000	12,000	12,000	12,000
AN-IP: MSAN line card - splitter	30	30	30	30	30
AN-IP: MSAN core-facing ports - 1GE electrical port	600	600	600	600	600
AN-IP: MSAN core-facing ports - 1GE optical port	6,000	6,000	6,000	6,000	6,000
AN-IP: layer 2 switch - chassis	15,000	15,000	15,000	15,000	15,000
AN-IP: layer 2 switch - 48 x 1GE electrical ports card	5,000	5,000	5,000	5,000	5,000
AN-IP: layer 2 switch - 1GE optical port adaptor	5,000	5,000	5,000	5,000	5,000
AN-IP: layer 2 switch - 12 x 10GE optical ports card	15,000	15,000	15,000	15,000	15,000
spare	-	-	-	-	-
AN-IP: layer 3 edge router - chassis	10,000	10,000	10,000	10,000	10,000
AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	10,000	10,000	10,000	10,000	10,000
AN-IP: layer 3 edge router - 1GE optical port adaptor	5,000	5,000	5,000	5,000	5,000
AN-IP: layer 3 edge router - 2 x 10GE optical ports card	50,000	50,000	50,000	50,000	50,000
DN-Common: Site rental for core - PSTN	256,047	256,047	256,047	256,047	256,047
DN-Common: Site rental for core - Other	256,047	256,047	256,047	256,047	256,047
DN-Common: Air conditioning unit - PSTN	32,000	32,000	32,000	32,000	32,000
DN-Common: UPS and Generator - PSTN	168,000	168,000	168,000	168,000	168,000
DN-TDM: LS chassis/processor	495,000	495,000	495,000	495,000	495,000

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DN-TDM: LS switchblock	198,000	198,000	198,000	198,000	198,000
DN-TDM: LS software	100,000	100,000	100,000	100,000	100,000
DN-IP: distribution SBC - chassis	200,000	200,000	200,000	200,000	200,000
DN-IP: distribution SBC - 1GE port card	60,000	60,000	60,000	60,000	60,000
DN-IP: layer 3 distribution router - chassis	10,000	10,000	10,000	10,000	10,000
DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	6,000	6,000	6,000	6,000	6,000
DN-IP: layer 3 distribution router - 1GE optical port adaptor	5,000	5,000	5,000	5,000	5,000
DN-IP: layer 3 distribution router - 2 x 10GE optical port card	50,000	50,000	50,000	50,000	50,000
DN-Common: Air conditioning unit - Other	32,000	32,000	32,000	32,000	32,000
DN-Common: UPS and Generator - Other	168,000	168,000	168,000	168,000	168,000
CN-Common: Site rental for core - PSTN	896,165	896,165	896,165	896,165	896,165
CN-Common: Site rental for core - Other	896,165	896,165	896,165	896,165	896,165
CN-Common: Air conditioning unit - PSTN	112,000	112,000	112,000	112,000	112,000
CN-Common: UPS and Generator - PSTN	588,000	588,000	588,000	588,000	588,000
CN-TDM: Call Server processor (softswitch)	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000
CN-TDM: Call Server software	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
CN-TDM: Media Gateway switchblock	720,000	720,000	720,000	720,000	720,000
CN-TDM: international gateway (IGW) processor	270,000	270,000	270,000	270,000	270,000
CN-TDM: international gateway (IGW) switchblock	202,500	202,500	202,500	202,500	202,500
CN-TDM: international gateway (IGW) software	100,000	100,000	100,000	100,000	100,000
CN-TDM: interconnect ports - E1 ports	2,200	2,200	2,200	2,200	2,200
CN-TDM: Media Gateway STM4 ATM ports	3,360	3,360	3,360	3,360	3,360
CN-Common: Air conditioning unit - Other	112,000	112,000	112,000	112,000	112,000
CN-Common: UPS and Generator - Other	588,000	588,000	588,000	588,000	588,000
CN-IP: interco SBC - chassis	200,000	200,000	200,000	200,000	200,000
CN-IP: interco SBC - 1GE port card	60,000	60,000	60,000	60,000	60,000
CN-IP: Call Server processor (softswitch)	540,000	540,000	540,000	540,000	540,000
CN-IP: Call Server software	-	-	-	-	-
CN-TDM: interconnect trunk gateway (TGW)	120,000	120,000	120,000	120,000	120,000
CN - Interconnect trunk gateway E1 ports	2,200	2,200	2,200	2,200	2,200
CN-IP: layer 3 peering router - chassis	10,000	10,000	10,000	10,000	10,000
CN-IP: layer 3 peering router - 4 x 1GE port card	6,000	6,000	6,000	6,000	6,000
CN-IP: layer 3 peering router - 10 x 100Mbps port card	2,400	2,400	2,400	2,400	2,400
CN-IP: layer 3 peering router - 10 x 10Mbps port card	960	960	960	960	960
CN-IP: layer 2 services switch - chassis	15,000	15,000	15,000	15,000	15,000
CN-IP: layer 2 services switch - 48 x 1GE ports card	5,000	5,000	5,000	5,000	5,000
CN-IP: layer 2 services switch - 12 x 10GE optical ports card	15,000	15,000	15,000	15,000	15,000
CN-IP: IP/MPLS router - chassis	300,000	300,000	300,000	300,000	300,000
CN-IP: IP/MPLS router - 4 x 10GE port cards	360,000	360,000	360,000	360,000	360,000
CN: BRAS	220,000	220,000	220,000	220,000	220,000
CN: DNS	50,000	50,000	50,000	50,000	50,000
CN: RADIUS	50,000	50,000	50,000	50,000	50,000
CN: VAS, IN platforms	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000
CN: Billing system	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Network management system: common	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
Clock and synchronisation equipment	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000

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Network management system: PSTN	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
Network management system: NGN voice	37,500	37,500	37,500	37,500	37,500
CPE: terminal adaptor (Pure VoIP operator) - traffic related only	-	-	-	-	-
Wireless links: antenna towers and ancillary	32,500	32,500	32,500	32,500	32,500
Wireless links: transmission equipment	9,000	9,000	9,000	9,000	9,000
Wireless links: repeaters	27,500	27,500	27,500	27,500	27,500
Access transmission - submarine fibre cables (km)	1,700	1,700	1,700	1,700	1,700
Access transmission - terrestrial fibre cables (km)	240	240	240	240	240
Access transmission - trench (km)	-	-	-	-	-
Access transmission - ODF (12 fibre)	200	200	200	200	200
Access transmission - PDH 2Mbps terminal	440	440	440	440	440
Access transmission - PDH 8Mbps terminal	600	600	600	600	600
Access transmission - SDH STM-0 ADM	1,600	1,600	1,600	1,600	1,600
Access transmission - SDH STM-1 ADM	3,200	3,200	3,200	3,200	3,200
Access transmission - SDH STM-4 ADM	3,800	3,800	3,800	3,800	3,800
Access transmission - SDH STM-16 ADM	7,200	7,200	7,200	7,200	7,200
Access transmission - SDH STM-64 ADM	24,000	24,000	24,000	24,000	24,000
Access transmission - SDH regenerator	480	480	480	480	480
Access transmission - STM4 cross-connect	2,550	2,550	2,550	2,550	2,550
Access transmission - CWDM ADM	91,500	91,500	91,500	91,500	91,500
Access transmission - CWDM Terminal	91,500	91,500	91,500	91,500	91,500
Access transmission - CWDM 1GE transponder	5,250	5,250	5,250	5,250	5,250
Access transmission - CWDM 10GE transponder	11,550	11,550	11,550	11,550	11,550
Access transmission - leased dark fibre DSLAM/MSAN-ER	-	-	-	-	-
Access transmission - leased dark fibre ER-DR	-	-	-	-	-
Access transmission - Ethernet leased lines DSLAM/MSAN-ER	-	-	-	-	-
Access transmission - Ethernet leased lines ER-DR	-	-	-	-	-
Distribution transmission - submarine fibre cables (km)	1,700	1,700	1,700	1,700	1,700
Distribution transmission - terrestrial fibre cables (km)	240	240	240	240	240
Distribution transmission - trench (km)	-	-	-	-	-
Distribution transmission - ODF (48-fibre)	480	480	480	480	480
Distribution transmission - SDH STM-0 ADM	1,600	1,600	1,600	1,600	1,600
Distribution transmission - SDH STM-1 ADM	3,200	3,200	3,200	3,200	3,200
Distribution transmission - SDH STM-4 ADM	3,800	3,800	3,800	3,800	3,800
Distribution transmission - SDH STM-16 ADM	7,200	7,200	7,200	7,200	7,200
Distribution transmission - SDH STM-64 ADM	24,000	24,000	24,000	24,000	24,000
Distribution transmission - SDH regenerator	480	480	480	480	480
Distribution transmission - STM16 cross-connect	6,000	6,000	6,000	6,000	6,000
Distribution transmission - DWDM ADM	131,250	131,250	131,250	131,250	131,250
Distribution transmission - DWDM Terminal	131,250	131,250	131,250	131,250	131,250
Distribution transmission - DWDM 10GE transponder	16,500	16,500	16,500	16,500	16,500
Distribution transmission - DWDM 40GE transponder	26,250	26,250	26,250	26,250	26,250
Distribution transmission - leased dark fibre DR-CR	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600
Distribution transmission - Ethernet signal amplifier	30,000	30,000	30,000	30,000	30,000
Core transmission - submarine fibre cables (km)	1,700	1,700	1,700	1,700	1,700
Core transmission - terrestrial fibre cables (km)	240	240	240	240	240

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Core transmission - trench (km)	-	-	-	-	-
Core transmission - ODF (96-fibre)	800	800	800	800	800
Core transmission - SDH STM-0 ADM	1,600	1,600	1,600	1,600	1,600
Core transmission - SDH STM-1 ADM	3,200	3,200	3,200	3,200	3,200
Core transmission - SDH STM-4 ADM	3,800	3,800	3,800	3,800	3,800
Core transmission - SDH STM-16 ADM	7,200	7,200	7,200	7,200	7,200
Core transmission - SDH STM-64 ADM	24,000	24,000	24,000	24,000	24,000
Core transmission - SDH regenerator	480	480	480	480	480
Core transmission - STM64 cross-connect	19,500	19,500	19,500	19,500	19,500
Core transmission - DWDM ADM	131,250	131,250	131,250	131,250	131,250
Core transmission - DWDM 40GE transponder	26,250	26,250	26,250	26,250	26,250
Core transmission - DWDM signal amplifier	78,000	78,000	78,000	78,000	78,000
Core transmission - leased dark fibre CR-CR	-	-	-	-	-
Core transmission - Ethernet signal amplifier	30,000	30,000	30,000	30,000	30,000
Access transmission - Ethernet signal amplifier	30,000	30,000	30,000	30,000	30,000
Decommissioning of RSX	-	-	-	-	-
Decommissioning of LS	-	-	-	-	-
Decommissioning of MGW	-	-	-	-	-
Decommissioning of CS	-	-	-	-	-
Business Overheads (Capex)	-	-	-	-	-
Business Overheads (Opex)	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000
NGN DSLAM - processor/rack	14,000	14,000	14,000	14,000	14,000
NGN DSLAM - POTS line card	1,400	1,400	1,400	1,400	1,400
NGN DSLAM - xDSL line card	1,400	1,400	1,400	1,400	1,400
NGN DSLAM - fibre line card	1,700	1,700	1,700	1,700	1,700
NGN DSLAM - splitter	20	20	20	20	20
CN-IP: PE router - chassis	60,000	60,000	60,000	60,000	60,000
CN-IP: PE router - 4x1GE port cards	8,000	8,000	8,000	8,000	8,000
spare	-	-	-	-	-
CN-IP: Distribution SBC - software licences	-	-	-	-	-
CN-IP: Interconnect SBC - software licences	-	-	-	-	-
IMS core: CS - upgrades (subscriber-driven)	-	-	-	-	-
IMS core: CS - upgrades (voice-driven)	-	-	-	-	-
IMS core: MTAS (Residential voice services)	48,000	48,000	48,000	48,000	48,000
IMS core: MTAS (Business voice and ISDN)	280,000	280,000	280,000	280,000	280,000
NGN DSLAM - mini-processor/rack	8,000	8,000	8,000	8,000	8,000
CN-IP: layer 2 services switch - 12 x 40GE optical ports card	24,000	24,000	24,000	24,000	24,000
DN-IP: layer 3 distribution router - 2 x 40GE optical port card	80,000	80,000	80,000	80,000	80,000
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-

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spare	-	-	-	-	-
spare	-	-	-	-	-
spare	-	-	-	-	-

1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006

1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
12,802	12,802	12,802	12,802	12,802	12,802	13,058	13,320	13,586	13,858	14,135
12,802	12,802	12,802	12,802	12,802	12,802	13,058	13,320	13,586	13,858	14,135
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400
40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500
360	360	360	360	360	360	360	360	360	360	360
360	360	360	360	360	360	360	360	360	360	360
2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
10	10	10	10	10	10	10	10	10	10	10
-	-	-	-	-	-	-	-	-	-	-
43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500
1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
600	600	600	600	600	600	600	600	600	600	600
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500
1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
30	30	30	30	30	30	30	30	30	30	30
600	600	600	600	600	600	600	600	600	600	600
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
-	-	-	-	-	-	-	-	-	-	-
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
256,047	256,047	256,047	256,047	256,047	256,047	261,168	266,391	271,719	277,154	282,697
256,047	256,047	256,047	256,047	256,047	256,047	261,168	266,391	271,719	277,154	282,697
32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000
495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000

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198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000
100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000
896,165	896,165	896,165	896,165	896,165	896,165	914,088	932,370	951,017	970,038	989,438
896,165	896,165	896,165	896,165	896,165	896,165	914,088	932,370	951,017	970,038	989,438
112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000
588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000
1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000
2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000
270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000
202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500
100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360
112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000
588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000
200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000
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120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000
2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
960	960	960	960	960	960	960	960	960	960	960
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000
220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000
2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000

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15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500
-	-	-	-	-	-	-	-	-	-	-
32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500
9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000
27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240
-	-	-	-	-	-	-	-	-	-	-
200	200	200	200	200	200	200	200	200	200	200
440	440	440	440	440	440	440	440	440	440	440
600	600	600	600	600	600	600	600	600	600	600
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550
91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500
91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500
5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250
11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240
-	-	-	-	-	-	-	-	-	-	-
480	480	480	480	480	480	480	480	480	480	480
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500
26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250
139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600
30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240

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800	800	800	800	800	800	800	800	800	800	800
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
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480	480	480	480	480	480	480	480	480	480	480
19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250
78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000
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30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000
14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
20	20	20	20	20	20	20	20	20	20	20
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
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48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000
280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000
8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
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2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
14,418	14,706	15,000	14,550	14,114	13,690	13,279	13,279	13,279	13,279	13,279
14,418	14,706	15,000	14,550	14,114	13,690	13,279	13,279	13,279	13,279	13,279
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400
40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500
360	360	360	360	360	360	360	360	360	360	360
360	360	360	360	360	360	360	360	360	360	360
2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
10	10	10	10	10	10	10	10	10	10	10
-	-	-	-	-	-	-	-	-	-	-
43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500
1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
600	600	600	600	600	600	600	600	600	600	600
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500
1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
30	30	30	30	30	30	30	30	30	30	30
600	600	600	600	600	600	600	600	600	600	600
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
-	-	-	-	-	-	-	-	-	-	-
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
288,351	294,118	300,000	291,000	282,270	273,802	265,588	265,588	265,588	265,588	265,588
288,351	294,118	300,000	291,000	282,270	273,802	265,588	265,588	265,588	265,588	265,588
32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000
495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000

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198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000
100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000
1,009,227	1,029,412	1,050,000	1,018,500	987,945	958,307	929,557	929,557	929,557	929,557	929,557
1,009,227	1,029,412	1,050,000	1,018,500	987,945	958,307	929,557	929,557	929,557	929,557	929,557
112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000
588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000
1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000
2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000
270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000
202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500
100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360
112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000
588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000
200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000
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120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000
2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
960	960	960	960	960	960	960	960	960	960	960
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000
220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000
2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000

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15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500
-	-	-	-	-	-	-	-	-	-	-
32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500
9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000
27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240
-	-	-	-	-	-	-	-	-	-	-
200	200	200	200	200	200	200	200	200	200	200
440	440	440	440	440	440	440	440	440	440	440
600	600	600	600	600	600	600	600	600	600	600
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550
91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500
91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500
5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250
11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240
-	-	-	-	-	-	-	-	-	-	-
480	480	480	480	480	480	480	480	480	480	480
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500
26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250
139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600
30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240

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800	800	800	800	800	800	800	800	800	800	800
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250
78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000
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30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000
14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
20	20	20	20	20	20	20	20	20	20	20
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000
280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000
8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
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2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028

2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279
13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400
40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500
360	360	360	360	360	360	360	360	360	360	360
360	360	360	360	360	360	360	360	360	360	360
2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
10	10	10	10	10	10	10	10	10	10	10
-	-	-	-	-	-	-	-	-	-	-
43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500
1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
600	600	600	600	600	600	600	600	600	600	600
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500
1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
30	30	30	30	30	30	30	30	30	30	30
600	600	600	600	600	600	600	600	600	600	600
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
-	-	-	-	-	-	-	-	-	-	-
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588
265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588
32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000
495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000

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198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000
100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000
929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557
929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557
112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000
588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000
1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000
2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000
270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000
202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500
100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360
112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000
588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000
200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000
-	-	-	-	-	-	-	-	-	-	-
120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000
2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
960	960	960	960	960	960	960	960	960	960	960
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000
220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000
2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000

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15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500
-	-	-	-	-	-	-	-	-	-	-
32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500
9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000
27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240
-	-	-	-	-	-	-	-	-	-	-
200	200	200	200	200	200	200	200	200	200	200
440	440	440	440	440	440	440	440	440	440	440
600	600	600	600	600	600	600	600	600	600	600
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550
91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500
91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500
5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250
11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240
-	-	-	-	-	-	-	-	-	-	-
480	480	480	480	480	480	480	480	480	480	480
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500
26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250
139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600
30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240

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800	800	800	800	800	800	800	800	800	800	800
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
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19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250
78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000
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30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
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225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000
14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
20	20	20	20	20	20	20	20	20	20	20
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
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48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000
280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000
8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
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2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039

2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279
13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400
40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500
360	360	360	360	360	360	360	360	360	360	360
360	360	360	360	360	360	360	360	360	360	360
2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
10	10	10	10	10	10	10	10	10	10	10
-	-	-	-	-	-	-	-	-	-	-
43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500
1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
600	600	600	600	600	600	600	600	600	600	600
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500
1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
30	30	30	30	30	30	30	30	30	30	30
600	600	600	600	600	600	600	600	600	600	600
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
-	-	-	-	-	-	-	-	-	-	-
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588
265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588
32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000
495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000

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198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000
100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000
929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557
929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557
112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000
588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000
1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000
2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000
270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000
202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500
100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360
112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000
588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000
200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000
-	-	-	-	-	-	-	-	-	-	-
120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000
2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
960	960	960	960	960	960	960	960	960	960	960
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000
220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000
2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000

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15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500
-	-	-	-	-	-	-	-	-	-	-
32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500
9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000
27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240
-	-	-	-	-	-	-	-	-	-	-
200	200	200	200	200	200	200	200	200	200	200
440	440	440	440	440	440	440	440	440	440	440
600	600	600	600	600	600	600	600	600	600	600
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550
91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500
91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500
5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250
11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240
-	-	-	-	-	-	-	-	-	-	-
480	480	480	480	480	480	480	480	480	480	480
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500
26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250
139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600
30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240

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800	800	800	800	800	800	800	800	800	800	800
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250
78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000
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30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
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225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000
14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
20	20	20	20	20	20	20	20	20	20	20
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
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48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000
280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000
8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
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2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050

2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279
13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279	13,279
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400
40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500	40,500
360	360	360	360	360	360	360	360	360	360	360
360	360	360	360	360	360	360	360	360	360	360
2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
10	10	10	10	10	10	10	10	10	10	10
-	-	-	-	-	-	-	-	-	-	-
43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500
1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
600	600	600	600	600	600	600	600	600	600	600
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500	67,500
1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
30	30	30	30	30	30	30	30	30	30	30
600	600	600	600	600	600	600	600	600	600	600
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
-	-	-	-	-	-	-	-	-	-	-
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588
265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588	265,588
32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000
495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000

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198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000	198,000
100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000
929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557
929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557	929,557
112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000
588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000
1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000	1,340,000
2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000	720,000
270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000
202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500	202,500
100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360
112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000	112,000
588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000	588,000
200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000	540,000
-	-	-	-	-	-	-	-	-	-	-
120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000
2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
960	960	960	960	960	960	960	960	960	960	960
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000
220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000
50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
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5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000
2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000

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15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500
-	-	-	-	-	-	-	-	-	-	-
32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500
9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000
27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500	27,500
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240
-	-	-	-	-	-	-	-	-	-	-
200	200	200	200	200	200	200	200	200	200	200
440	440	440	440	440	440	440	440	440	440	440
600	600	600	600	600	600	600	600	600	600	600
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550	2,550
91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500
91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500	91,500
5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250
11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240
-	-	-	-	-	-	-	-	-	-	-
480	480	480	480	480	480	480	480	480	480	480
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500	16,500
26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250
139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600	139,209,600
30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
240	240	240	240	240	240	240	240	240	240	240

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800	800	800	800	800	800	800	800	800	800	800
1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200
3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
480	480	480	480	480	480	480	480	480	480	480
19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500
131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250	131,250
26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250	26,250
78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000
-	-	-	-	-	-	-	-	-	-	-
30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000	225,000,000
14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
20	20	20	20	20	20	20	20	20	20	20
60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000	48,000
280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000	280,000
8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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Unit_opex_costs

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Total capex

Total annual capex

	Network element	Category	1991	1992	1993
2,060	AN-Common: Site rental for core - PSTN	Accommodation: civil	-	-	-
2,060	AN-Common: Site rental for core - Other	Accommodation: civil	-	-	-
-	spare	0	-	-	-
-	spare	0	-	-	-

Category totals

Category		1991	1992	1993
Accommodation: civils		-	-	-
Accommodation: power systems		1,104,234,034	372,845,571	306,486
Cost_cat29		-	-	-
Cost_cat30		-	-	-
Are all costs categorised?	TRUE	*TRUE*	*TRUE*	*TRUE*
Real discount rate divider	2009 = 1	271.24%	256.61%	242.77%
TOTAL		12,108,578,188	3,904,919,818	144,841,933
TOTAL discounted		32,843,007,690.74	10,020,442,606.64	351,636,629.08
PV discounted	103,212,306,867			

Cumulative capex

Category	Capex_categories_summary	1991	1992	1993
Accommodation: civils	Other	-	-	-
Accommodation: power systems	Other	1,104,234,034	1,477,079,605	1,477,386,091
Cost_cat29		-	-	-
Cost_cat30		-	-	-
		12,108,578,188	**16,013,498,006**	**16,158,339,939**

Cumulative capex - summary

PSTN platforms	6,798,798,655	9,754,800,809	9,809,336,255
IP platforms	-	-	-
Trench and fibre	366,835,044	486,667,826	486,667,826
Transmission equipment	3,748,710,455	4,114,949,766	4,114,949,766
Other	1,194,234,034	1,657,079,605	1,747,386,091

Capex_categories_summary

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Inflation data for conversion from real to nominal NOK

		1991	1992	1993
Consumer price index	consumer price index	75.239	76.977	78.714
Inflation multiplier (2009 = 1)		0.69	0.70	0.72

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1994	1995	1996	1997	1998	1999	2000	2001

1994	1995	1996	1997	1998	1999	2000	2001
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

1994	1995	1996	1997	1998	1999	2000	2001
-	-	-	-	-	-	-	-
103,504	1,415,697	1,187,615	239,647	17,148,408	20,462,905	14,583,565	1,228,377,147
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
TRUE	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*
229.68%	217.30%	205.58%	194.49%	184.00%	174.08%	164.69%	155.81%
283,030,175	220,025,530	736,232,750	1,017,963,952	686,668,097	1,681,933,532	7,686,981,303	3,717,677,630
650,066,144.95	478,104,572.66	1,513,526,284.48	1,979,849,812.41	1,263,489,771.78	2,927,916,600.94	12,659,912,689.26	5,792,574,480.26

1994	1995	1996	1997	1998	1999	2000	2001
-	-	-	-	-	-	-	-
1,477,489,595	1,478,905,292	1,480,092,908	1,480,332,554	1,497,480,962	1,517,943,867	1,532,527,433	2,760,904,580
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
16,441,370,113	**16,661,395,643**	**17,397,628,393**	**18,415,592,345**	**19,102,260,442**	**20,784,193,974**	**28,471,175,277**	**32,188,852,907**
10,002,262,926	10,130,872,759	10,348,752,177	11,136,935,682	11,716,455,371	12,160,619,329	12,382,037,193	12,609,057,318
-	-	-	-	-	94,854,306	243,834,151	380,582,913
486,667,826	486,667,826	818,257,651	926,576,994	926,576,994	1,339,636,880	1,609,502,672	1,953,311,690
4,114,949,766	4,114,949,766	4,210,525,657	4,241,747,115	4,241,747,115	4,861,139,592	11,803,273,829	13,494,996,405
1,837,489,595	1,928,905,292	2,020,092,908	2,110,332,554	2,217,480,962	2,327,943,867	2,432,527,433	3,750,904,580

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1994	1995	1996	1997	1998	1999	2000	2001
79.844	81.842	82.798	84.97	86.881	88.879	91.659	94.44
0.73	0.75	0.76	0.78	0.80	0.81	0.84	0.86

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2002	2003	2004	2005	2006	2007	2008	2009

2002	2003	2004	2005	2006	2007	2008	2009
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

2002	2003	2004	2005	2006	2007	2008	2009
-	-	-	-	-	-	-	-
784,068,933	138,832,563	15,400,659	19,490,966	14,982,296	24,865,340	22,849,423	25,522,605
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
TRUE	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*
147.41%	139.46%	131.94%	124.82%	118.09%	111.72%	105.70%	100.00%
2,214,796,775	999,757,679	1,050,344,256	777,850,126	902,462,768	1,283,147,965	1,162,290,782	1,093,261,681
3,264,816,626.82	1,394,262,903.85	1,385,819,286.83	970,947,785.42	1,065,747,336.18	1,433,595,780.52	1,228,541,356.70	1,093,261,680.67

2002	2003	2004	2005	2006	2007	2008	2009
-	-	-	-	-	-	-	-
3,544,973,513	3,683,806,077	3,699,206,736	3,718,697,702	3,733,679,997	3,758,545,337	3,781,394,760	3,806,917,365
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
34,403,649,681	**35,403,407,361**	**36,453,751,617**	**37,231,601,742**	**38,134,064,511**	**39,417,212,476**	**40,579,503,258**	**41,672,764,938**
13,338,063,716	13,792,728,438	14,065,973,869	14,146,777,675	14,255,644,697	14,526,784,740	14,657,137,634	14,811,318,060
572,699,705	734,129,670	930,048,649	1,163,544,011	1,369,275,896	1,587,395,097	1,788,866,105	1,999,117,255
2,180,813,351	2,223,145,938	2,596,519,359	2,840,456,660	3,151,232,782	3,356,876,264	3,395,141,570	3,732,641,570
13,687,099,396	13,799,597,239	13,902,003,004	14,012,125,695	14,184,231,138	14,657,611,038	15,336,963,188	15,612,770,688
4,624,973,513	4,853,806,077	4,959,206,736	5,068,697,702	5,173,679,997	5,288,545,337	5,401,394,760	5,516,917,365

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2002	2003	2004	2005	2006	2007	2008	2009
95.656	98.002	98.436	100	102.259	103.041	106.950	109.209
0.88	0.90	0.90	0.92	0.94	0.94	0.98	*reflation*

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2010	2011	2012	2013	2014	2015	2016	2017

2010	2011	2012	2013	2014	2015	2016	2017
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

2010	2011	2012	2013	2014	2015	2016	2017
-	-	-	-	-	-	-	-
19,965,447	1,321,188,991	904,340,680	220,792,442	89,872,551	928,973,306	317,658,941	28,765,077
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
TRUE	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*
94.61%	89.51%	84.68%	80.11%	75.79%	71.71%	67.84%	64.18%
821,452,098	3,256,390,708	2,119,135,213	924,974,141	860,171,768	1,968,482,168	1,126,931,560	680,813,295
777,154,302.27	2,914,650,814.86	1,794,459,687.04	741,019,509.51	651,943,932.84	1,411,502,205.60	764,491,446.40	436,946,363.69

2010	2011	2012	2013	2014	2015	2016	2017
-	-	-	-	-	-	-	-
3,826,882,812	5,148,071,804	6,052,412,483	6,273,204,925	6,363,077,476	7,292,050,782	7,609,709,723	7,638,474,801
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
42,494,217,036	**45,750,607,744**	**47,869,742,958**	**48,794,717,098**	**49,654,888,867**	**51,623,371,035**	**52,750,302,595**	**53,431,115,890**
14,901,007,107	14,965,865,965	15,145,013,051	15,224,569,208	15,276,107,331	15,310,136,118	15,341,304,040	15,341,304,040
2,220,568,436	2,501,494,499	2,993,898,187	3,331,227,621	3,486,714,282	3,686,567,822	3,943,551,251	4,273,656,233
3,953,141,570	4,234,058,570	4,526,092,801	4,595,356,885	4,900,430,154	5,099,744,689	5,158,343,163	5,167,090,070
15,792,617,111	17,011,116,906	17,172,326,436	17,300,358,460	17,468,559,624	17,984,871,623	18,357,394,418	18,580,590,746
5,626,882,812	7,038,071,804	8,032,412,483	8,343,204,925	8,523,077,476	9,542,050,782	9,949,709,723	10,068,474,801

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2010	2011	2012	2013	2014	2015	2016	2017
111.830	113.284	114.190	116.759	119.095	121.60	125.97	128.24

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2018	2019	2020	2021	2022	2023	2024	2025

2018	2019	2020	2021	2022	2023	2024	2025
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

2018	2019	2020	2021	2022	2023	2024	2025
-	-	-	-	-	-	-	-
26,453,052	22,146,755	20,636,698	666,433,655	486,446,569	162,536,172	99,807,391	1,016,549,877
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
TRUE	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*
60.72%	57.44%	54.35%	51.42%	48.64%	46.02%	43.54%	41.19%
535,223,527	722,054,526	1,094,061,819	2,312,255,303	1,089,415,685	622,730,563	881,191,544	1,700,639,675
324,982,750.53	414,782,210.03	594,589,179.75	1,188,874,293.05	529,930,344.67	286,582,956.52	383,659,106.97	700,507,049.10

2018	2019	2020	2021	2022	2023	2024	2025
-	-	-	-	-	-	-	-
7,664,927,853	7,687,074,607	7,707,711,306	8,374,144,961	8,860,591,531	9,023,127,703	9,122,935,094	10,139,484,971
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
53,966,339,417	**54,688,393,943**	**55,782,455,762**	**58,094,711,065**	**59,184,126,749**	**59,806,857,312**	**60,688,048,857**	**62,388,688,532**
15,341,304,040	15,341,304,040	15,341,304,040	15,361,525,691	15,381,747,342	15,381,747,342	15,381,747,342	15,381,747,342
4,547,356,227	4,721,790,306	4,929,490,224	5,168,667,695	5,448,190,189	5,676,933,266	5,854,879,399	6,071,212,972
5,167,168,234	5,442,930,306	5,623,094,860	5,676,063,239	5,684,131,108	5,684,204,675	5,949,046,569	6,125,607,832
18,725,583,063	18,885,294,684	19,480,855,332	20,724,309,478	20,929,466,579	21,070,844,326	21,319,440,452	21,520,635,414
10,184,927,853	10,297,074,607	10,407,711,306	11,164,144,961	11,740,591,531	11,993,127,703	12,182,935,094	13,289,484,971

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2018	2019	2020	2021	2022	2023	2024	2025
130.93	133.16	135.56	138.27	141.03	143.85	146.73	149.67

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2026	2027	2028	2029	2030	2031	2032	2033

2026	2027	2028	2029	2030	2031	2032	2033
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

2026	2027	2028	2029	2030	2031	2032	2033
-	-	-	-	-	-	-	-
342,487,085	30,554,450	27,680,822	22,828,446	20,952,634	666,433,655	486,446,569	162,536,172
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
TRUE	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*
38.97%	36.87%	34.88%	33.00%	31.22%	29.54%	27.94%	26.44%
985,663,434	683,224,870	524,341,250	762,212,382	830,427,801	2,320,390,123	1,171,062,841	667,838,791
384,108,449.80	251,891,721.94	182,889,707.93	251,522,159.65	259,255,003.43	685,348,217.33	327,231,793.29	176,551,717.02

2026	2027	2028	2029	2030	2031	2032	2033
-	-	-	-	-	-	-	-
10,481,972,056	10,512,526,506	10,540,207,328	10,563,035,774	10,583,988,408	11,250,422,063	11,736,868,632	11,899,404,805
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
63,374,351,966	**64,057,576,836**	**64,581,918,086**	**65,344,130,468**	**66,174,558,269**	**68,494,948,393**	**69,666,011,233**	**70,333,850,024**
15,381,747,342	15,401,968,994	15,422,190,645	15,422,190,645	15,422,190,645	15,422,190,645	15,422,190,645	15,442,412,296
6,321,327,593	6,604,530,602	6,824,982,841	7,005,133,598	7,227,817,678	7,479,580,979	7,752,832,584	7,965,722,117
6,178,576,211	6,186,644,080	6,186,717,647	6,451,559,541	6,628,120,804	6,681,089,183	6,689,157,052	6,689,230,619
21,770,728,763	22,021,906,655	22,187,819,626	22,392,210,910	22,712,440,734	23,971,665,523	24,284,962,320	24,467,080,187
13,721,972,056	13,842,526,506	13,960,207,328	14,073,035,774	14,183,988,408	14,940,422,063	15,516,868,632	15,769,404,805

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2026	2027	2028	2029	2030	2031	2032	2033
152.66	155.71	158.83	162.00	165.24			

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2034	2035	2036	2037	2038	2039	2040	2041

2034	2035	2036	2037	2038	2039	2040	2041
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

2034	2035	2036	2037	2038	2039	2040	2041
-	-	-	-	-	-	-	-
99,807,391	1,016,549,877	342,487,085	30,554,450	27,680,822	22,828,446	20,952,634	666,433,655
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
TRUE	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*
25.01%	23.66%	22.39%	21.18%	20.04%	18.96%	17.93%	16.97%
870,025,571	1,682,695,259	1,069,999,648	692,749,395	487,571,697	794,596,045	9,665,152,067	2,392,638,155
217,599,220.06	398,158,325.28	239,529,483.13	146,715,673.10	97,693,092.08	150,624,902.78	1,733,341,299.43	405,954,565.78

2034	2035	2036	2037	2038	2039	2040	2041
-	-	-	-	-	-	-	-
11,999,212,196	13,015,762,073	13,358,249,158	13,388,803,608	13,416,484,430	13,439,312,875	13,460,265,510	14,126,699,165
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
71,203,875,595	**72,886,570,853**	**73,956,570,501**	**74,649,319,896**	**75,136,891,593**	**75,931,487,637**	**85,596,639,704**	**87,989,277,859**
15,462,633,948	15,462,633,948	15,462,633,948	15,462,633,948	15,462,633,948	15,482,855,599	15,503,077,250	15,503,077,250
8,147,721,395	8,368,980,194	8,622,734,976	8,896,035,478	9,106,764,020	9,289,552,795	9,518,979,009	9,771,612,661
6,954,072,513	7,130,633,776	7,183,602,155	7,191,670,024	7,191,743,591	7,456,585,485	7,633,146,748	7,686,115,127
24,680,235,543	24,858,560,863	25,189,350,264	25,480,176,839	25,639,265,604	25,853,180,883	34,981,171,187	36,311,773,656
15,959,212,196	17,065,762,073	17,498,249,158	17,618,803,608	17,736,484,430	17,849,312,875	17,960,265,510	18,716,699,165

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2034	2035	2036	2037	2038	2039	2040	2041

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2042	2043	2044	2045	2046	2047	2048	2049

2042	2043	2044	2045	2046	2047	2048	2049
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

2042	2043	2044	2045	2046	2047	2048	2049
-	-	-	-	-	-	-	-
486,446,569	162,536,172	99,807,391	1,016,549,877	342,487,085	30,554,450	27,680,822	22,828,446
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
TRUE	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*
16.05%	15.19%	14.37%	13.59%	12.86%	12.17%	11.51%	10.89%
1,148,645,886	615,918,208	883,767,454	1,864,131,233	1,060,644,972	690,528,249	542,704,228	798,536,946
184,379,053.12	93,534,854.38	126,973,604.41	253,382,688.58	136,394,075.68	84,010,183.24	62,465,281.29	86,955,192.82

2042	2043	2044	2045	2046	2047	2048	2049
-	-	-	-	-	-	-	-
14,613,145,734	14,775,681,907	14,875,489,298	15,892,039,175	16,234,526,260	16,265,080,710	16,292,761,532	16,315,589,977
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
89,137,923,745	**89,753,841,953**	**90,637,609,407**	**92,501,740,640**	**93,562,385,612**	**94,252,913,860**	**94,795,618,088**	**95,594,155,035**
15,503,077,250	15,503,077,250	15,503,077,250	15,523,298,902	15,543,520,553	15,543,520,553	15,543,520,553	15,543,520,553
10,044,448,629	10,250,798,764	10,436,110,712	10,663,527,492	10,918,937,796	11,189,376,817	11,396,497,777	11,581,612,283
7,694,182,996	7,694,256,563	7,959,098,457	8,135,659,720	8,188,628,099	8,196,695,968	8,196,769,535	8,461,611,429
36,603,069,137	36,760,027,469	37,003,833,690	37,337,215,351	37,636,772,904	37,928,239,813	38,146,068,692	38,381,820,793
19,293,145,734	19,545,681,907	19,735,489,298	20,842,039,175	21,274,526,260	21,395,080,710	21,512,761,532	21,625,589,977

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2042	2043	2044	2045	2046	2047	2048	2049

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2050

2050	cum to 2008	cum to 2008, reflated
-	-	-
-	-	-
-	-	-
-	-	-

Network_investment_by_element

2050	cum to 2008	cum to 2008, reflated
-	-	-
5,517,443	3,781,394,760	3,033,742,677
-	-	-
-	-	-

TRUE *Network_investment_by_category*

10.30%

409,629,410
42,200,408.08

2050	cum to 2008	cum to 2008, reflated
-	0	0
16,321,107,420	3,781,394,760	3,033,742,677
-	0	0
-	0	0
96,003,784,445		
15,543,520,553	#############	#############
11,745,437,002	#############	#############
8,549,892,061	#############	#############
38,443,827,410	#############	#############
21,721,107,420	#############	#############

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2050
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Total opex

Working capital allowance

		1991	1992	1993
Working capital allowance uplift (=30/685 * WACC)	0.08	1.005	1.005	1.005

Total annual operating expenditures

Note: formula m

Network element	Category	1991	1992	1993
AN-Common: Site rental for core - PSTN	Accommodation: civils	-	30,750,258	30,750,258
AN-Common: Site rental for core - Other	Accommodation: civils	-	17,933,676	17,933,676
AN-Common: Air conditioning unit - PSTN	Accommodation: power systems	-	6,465,211	6,465,211
AN-Common: UPS and Generator - PSTN	Accommodation: power systems	-	33,942,358	33,942,358
AN-TDM: RSX processor/rack	Voice platform	-	183,632,795	183,632,795
AN-TDM: RSX line card - PSTN	Voice platform	-	18,770,810	19,291,639
AN-TDM: RSX line card - ISDN 2	Voice platform	-	-	-
AN-TDM: RSX line card - ISDN 30	Voice platform	-	-	-
AN-TDM: MDF splitter cards	Voice platform	-	-	-
AN-TDM: Replacement of RSX processor/rack	Voice platform	-	-	-
AN-IP: DSLAM processor/rack	Broadband platform	-	-	-
AN-IP: DSLAM line cards - xDSL	Broadband platform	-	-	-
AN-IP: DSLAM core-facing ports - 1GE electrical port	Broadband platform	-	-	-
AN-IP: DSLAM core-facing ports - 1GE optical port	Broadband platform	-	-	-
AN-Common: Air conditioning unit - Other	Accommodation: power systems	-	3,770,537	3,770,537
AN-Common: UPS and Generator - Other	Accommodation: power systems	-	19,795,322	19,795,322
AN-IP: mini-MSAN processor/rack	Converged platform	-	-	-
AN-IP: MSAN processor/rack	Converged platform	-	-	-
AN-IP: MSAN line card - PSTN	Converged platform	-	-	-
AN-IP: MSAN line card - xDSL	Converged platform	-	-	-
AN-IP: MSAN line card - splitter	Converged platform	-	-	-
AN-IP: MSAN core-facing ports - 1GE electrical port	Converged platform	-	-	-
AN-IP: MSAN core-facing ports - 1GE optical port	Converged platform	-	-	-
AN-IP: layer 2 switch - chassis	Data network	-	-	-
AN-IP: layer 2 switch - 48 x 1GE electrical ports card	Data network	-	-	-
AN-IP: layer 2 switch - 1GE optical port adaptor	Data network	-	-	-
AN-IP: layer 2 switch - 12 x 10GE optical ports card	Data network	-	-	-
spare	Other	-	-	-
AN-IP: layer 3 edge router - chassis	Data network	-	-	-
AN-IP: layer 3 edge router - 4 x 1GE electrical ports card	Data network	-	-	-
AN-IP: layer 3 edge router - 1GE optical port adaptor	Data network	-	-	-
AN-IP: layer 3 edge router - 2 x 10GE optical ports card	Data network	-	-	-
DN-Common: Site rental for core - PSTN	Accommodation: civils	-	20,836,981	20,836,981

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DN-Common: Site rental for core - Other	Accommodation: civils	-	13,891,320	13,891,320
DN-Common: Air conditioning unit - PSTN	Accommodation: power systems	-	620,260	620,260
DN-Common: UPS and Generator - PSTN	Accommodation: power systems	-	3,256,366	3,256,366
DN-TDM: LS chassis/processor	Voice platform	-	81,063,004	81,063,004
DN-TDM: LS switchblock	Voice platform	-	32,425,201	32,425,201
DN-TDM: LS software	Voice platform	-	16,376,364	16,376,364
DN-IP: distribution SBC - chassis	Converged platform	-	-	-
DN-IP: distribution SBC - 1GE port card	Converged platform	-	-	-
DN-IP: layer 3 distribution router - chassis	Data network	-	-	-
DN-IP: layer 3 distribution router - 2 x 1GE electrical port card	Data network	-	-	-
DN-IP: layer 3 distribution router - 1GE optical port adaptor	Data network	-	-	-
DN-IP: layer 3 distribution router - 2 x 10GE optical port card	Data network	-	-	-
DN-Common: Air conditioning unit - Other	Accommodation: power systems	-	413,507	413,507
DN-Common: UPS and Generator - Other	Accommodation: power systems	-	2,170,911	2,170,911
CN-Common: Site rental for core - PSTN	Accommodation: civils	-	-	-
CN-Common: Site rental for core - Other	Accommodation: civils	-	-	-
CN-Common: Air conditioning unit - PSTN	Accommodation: power systems	-	-	-
CN-Common: UPS and Generator - PSTN	Accommodation: power systems	-	-	-
CN-TDM: Call Server processor (softswitch)	Voice platform	-	-	-
CN-TDM: Call Server software	Voice platform	-	-	-
CN-TDM: Media Gateway switchblock	Voice platform	-	-	-
CN-TDM: international gateway (IGW) processor	Voice platform	-	-	-
CN-TDM: international gateway (IGW) switchblock	Voice platform	-	-	-
CN-TDM: international gateway (IGW) software	Voice platform	-	-	-
CN-TDM: interconnect ports - E1 ports	Voice platform	-	-	-
CN-TDM: Media Gateway STM4 ATM ports	Voice platform	-	-	-
CN-Common: Air conditioning unit - Other	Accommodation: power systems	-	91,924	91,924
CN-Common: UPS and Generator - Other	Accommodation: power systems	-	482,599	482,599
CN-IP: interco SBC - chassis	Converged platform	-	-	-
CN-IP: interco SBC - 1GE port card	Converged platform	-	-	-
CN-IP: Call Server processor (softswitch)	Converged platform	-	-	-
CN-IP: Call Server software	Converged platform	-	-	-
CN-TDM: interconnect trunk gateway (TGW)	Converged platform	-	-	-
CN - Interconnect trunk gateway E1 ports	Converged platform	-	-	-
CN-IP: layer 3 peering router - chassis	Data network	-	-	-
CN-IP: layer 3 peering router - 4 x 1GE port card	Data network	-	-	-
CN-IP: layer 3 peering router - 10 x 100Mbps port card	Data network	-	-	-
CN-IP: layer 3 peering router - 10 x 10Mbps port card	Data network	-	-	-
CN-IP: layer 2 services switch - chassis	Data network	-	-	-
CN-IP: layer 2 services switch - 48 x 1GE ports card	Data network	-	-	-
CN-IP: layer 2 services switch - 12 x 10GE optical ports card	Data network	-	-	-
CN-IP: IP/MPLS router - chassis	Data network	-	-	-
CN-IP: IP/MPLS router - 4 x 10GE port cards	Data network	-	-	-
CN: BRAS	Data network	-	-	-
CN: DNS	Broadband platform	-	-	-
CN: RADIUS	Broadband platform	-	-	-

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CN: VAS, IN platforms	Voice platform	-	16,577,301	16,577,301
CN: Billing system	Other core platforms	-	4,018,740	4,018,740
Network management system: common	Other core platforms	-	15,070,274	15,070,274
Clock and synchronisation equipment	Transmission active equipment	-	49,229,562	49,229,562
Network management system: PSTN	Other core platforms	-	15,070,274	15,070,274
Network management system: NGN voice	Other core platforms	-	-	-
CPE: terminal adaptor (Pure VoIP operator) - traffic related only	Converged platform	-	-	-
Wireless links: antenna towers and ancillary	Transmission trenching, ducting	-	32,129,824	32,129,824
Wireless links: transmission equipment	Transmission active equipment	-	9,874,044	9,874,044
Wireless links: repeaters	Transmission active equipment	-	110,515	110,515
Access transmission - submarine fibre cables (km)	Transmission trenching, ducting	-	-	-
Access transmission - terrestrial fibre cables (km)	Transmission trenching, ducting	-	-	-
Access transmission - trench (km)	Transmission trenching, ducting	-	-	-
Access transmission - ODF (12 fibre)	Transmission active equipment	-	-	-
Access transmission - PDH 2Mbps terminal	Transmission active equipment	-	-	-
Access transmission - PDH 8Mbps terminal	Transmission active equipment	-	-	-
Access transmission - SDH STM-0 ADM	Transmission active equipment	-	-	-
Access transmission - SDH STM-1 ADM	Transmission active equipment	-	-	-
Access transmission - SDH STM-4 ADM	Transmission active equipment	-	-	-
Access transmission - SDH STM-16 ADM	Transmission active equipment	-	-	-
Access transmission - SDH STM-64 ADM	Transmission active equipment	-	-	-
Access transmission - SDH regenerator	Transmission active equipment	-	-	-
Access transmission - STM4 cross-connect	Transmission active equipment	-	10,114,565	10,114,565
Access transmission - CWDM ADM	Transmission active equipment	-	-	-
Access transmission - CWDM Terminal	Transmission active equipment	-	-	-
Access transmission - CWDM 1GE transponder	Transmission active equipment	-	-	-
Access transmission - CWDM 10GE transponder	Transmission active equipment	-	-	-
Access transmission - leased dark fibre DSLAM/MSAN-ER	Transmission trenching, ducting	-	-	-
Access transmission - leased dark fibre ER-DR	Transmission trenching, ducting	-	-	-
Access transmission - Ethernet leased lines DSLAM/MSAN-ER	Transmission trenching, ducting	-	-	-
Access transmission - Ethernet leased lines ER-DR	Transmission trenching, ducting	-	-	-
Distribution transmission - submarine fibre cables (km)	Transmission trenching, ducting	-	-	-
Distribution transmission - terrestrial fibre cables (km)	Transmission trenching, ducting	-	-	-
Distribution transmission - trench (km)	Transmission trenching, ducting	-	-	-
Distribution transmission - ODF (48-fibre)	Transmission active equipment	-	-	-
Distribution transmission - SDH STM-0 ADM	Transmission active equipment	-	-	-
Distribution transmission - SDH STM-1 ADM	Transmission active equipment	-	-	-
Distribution transmission - SDH STM-4 ADM	Transmission active equipment	-	-	-
Distribution transmission - SDH STM-16 ADM	Transmission active equipment	-	-	-
Distribution transmission - SDH STM-64 ADM	Transmission active equipment	-	-	-
Distribution transmission - SDH regenerator	Transmission active equipment	-	-	-
Distribution transmission - STM16 cross-connect	Transmission active equipment	-	982,582	982,582
Distribution transmission - DWDM ADM	Transmission active equipment	-	-	-
Distribution transmission - DWDM Terminal	Transmission active equipment	-	-	-
Distribution transmission - DWDM 10GE transponder	Transmission active equipment	-	-	-
Distribution transmission - DWDM 40GE transponder	Transmission active equipment	-	-	-

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Distribution transmission - leased dark fibre DR-CR	Transmission trenching, ducting		-	-	-
Distribution transmission - Ethernet signal amplifier	Transmission active equipment		-	-	-
Core transmission - submarine fibre cables (km)	Transmission trenching, ducting		-	-	-
Core transmission - terrestrial fibre cables (km)	Transmission trenching, ducting		-	-	-
Core transmission - trench (km)	Transmission trenching, ducting		-	-	-
Core transmission - ODF (96-fibre)	Transmission active equipment		-	-	-
Core transmission - SDH STM-0 ADM	Transmission active equipment		-	-	-
Core transmission - SDH STM-1 ADM	Transmission active equipment		-	-	-
Core transmission - SDH STM-4 ADM	Transmission active equipment		-	-	-
Core transmission - SDH STM-16 ADM	Transmission active equipment		-	-	-
Core transmission - SDH STM-64 ADM	Transmission active equipment		-	-	-
Core transmission - SDH regenerator	Transmission active equipment		-	-	-
Core transmission - STM64 cross-connect	Transmission active equipment		-	548,558	548,558
Core transmission - DWDM ADM	Transmission active equipment		-	-	-
Core transmission - DWDM 40GE transponder	Transmission active equipment		-	-	-
Core transmission - DWDM signal amplifier	Transmission active equipment		-	-	-
Core transmission - leased dark fibre CR-CR	Transmission trenching, ducting		-	-	-
Core transmission - Ethernet signal amplifier	Transmission active equipment		-	-	-
Access transmission - Ethernet signal amplifier	Transmission active equipment		-	-	-
Decommissioning of RSX	Voice platform		-	-	-
Decommissioning of LS	Voice platform		-	-	-
Decommissioning of MGW	Voice platform		-	-	-
Decommissioning of CS	Voice platform		-	-	-
Business Overheads (Capex)	Overheads		-	-	-
Business Overheads (Opex)	Overheads		226,054,110	226,054,110	226,054,110
NGN DSLAM - processor/rack	Converged platform		-	-	-
NGN DSLAM - POTS line card	Converged platform		-	-	-
NGN DSLAM - xDSL line card	Converged platform		-	-	-
NGN DSLAM - fibre line card	Converged platform		-	-	-
NGN DSLAM - splitter	Converged platform		-	-	-
CN-IP: PE router - chassis	Converged platform		-	-	-
CN-IP: PE router - 4x1GE port cards	Converged platform		-	-	-
spare		0	-	-	-
CN-IP: Distribution SBC - software licences	Converged platform		-	-	-
CN-IP: Interconnect SBC - software licences	Converged platform		-	-	-
IMS core: CS - upgrades (subscriber-driven)	Converged platform		-	-	-
IMS core: CS - upgrades (voice-driven)	Converged platform		-	-	-
IMS core: MTAS (Residential voice services)	Converged platform		-	-	-
IMS core: MTAS (Business voice and ISDN)	Converged platform		-	-	-
NGN DSLAM - mini-processor/rack	Converged platform		-	-	-
CN-IP: layer 2 services switch - 12 x 40GE optical ports card	Data network		-	-	-
DN-IP: layer 3 distribution router - 2 x 40GE optical port card	Data network		-	-	-
spare		0	-	-	-
spare		0	-	-	-
spare		0	-	-	-
spare		0	-	-	-

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spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-
spare	0	-	-	-

Category totals

Category	Capex_categories_summary	1991	1992	1993
Accommodation: civils	Other	-	83,412,234	83,412,234
Accommodation: power systems	Other	-	71,008,994	71,008,994
Voice platform	PSTN platforms	-	348,845,476	349,366,305
Broadband platform	IP platforms	-	-	-
Converged platform	IP platforms	-	-	-
Data network	IP platforms	-	-	-
Transmission trenching, ducting and cabling	Transmission equipment	-	32,129,824	32,129,824
Other core platforms	Trench and fibre	-	34,159,288	34,159,288
Transmission active equipment	Transmission equipment	-	70,859,825	70,859,825
Access trenching and ducting	Other	-	-	-
Access network cabling	0	-	-	-
Other access	0	-	-	-
Other	0	-	-	-
Overheads	Other	226,054,110	226,054,110	226,054,110

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n/a		0	-	-	-
CPE		0	-	-	-
Cost_cat17		0	-	-	-
Cost_cat18		0	-	-	-
Cost_cat19		0	-	-	-
Cost_cat20		0	-	-	-
Cost_cat21		0	-	-	-
Cost_cat22		0	-	-	-
Cost_cat23		0	-	-	-
Cost_cat24		0	-	-	-
Cost_cat25		0	-	-	-
Cost_cat26		0	-	-	-
Cost_cat27		0	-	-	-
Cost_cat28		0	-	-	-
Cost_cat29		0	-	-	-
Cost_cat30		0	-	-	-
Are all costs categorised?		TRUE	*TRUE*	*TRUE*	*TRUE*
Real discount rate divider	2009 = 1		271.24%	256.61%	242.77%
TOTAL			226,054,110	866,469,751	866,990,580
TOTAL discounted			613,143,570.15	##############	##############
PV discounted		54,702,981,131			
Expenditures (opex plus capex)			############	##############	##############
TOTAL discounted			############	##############	##############
PV discounted		157,915,287,998	*PV_expenditure*		
Cumulative discounted expenditures (opex + capex)			33,456,151,261	45,700,048,079	48,156,500,898

Opex - summary

PSTN platforms			-	348,845,476	349,366,305
IP platforms			-	-	-
Trench and fibre			-	34,159,288	34,159,288
Transmission equipment			-	102,989,650	102,989,650
Other			226,054,110	380,475,338	380,475,338
Opex_categories_summary					
AN-Common: Air conditioning unit - PSTN			-	6,435,063.208	6,435,063.208
AN-Common: Air conditioning unit - Other			-	3,752,955.099	3,752,955.099
DN-Common: Air conditioning unit - PSTN			-	617,367.887	617,367.887
DN-Common: Air conditioning unit - Other			-	411,578.591	411,578.591
CN-Common: Air conditioning unit - PSTN			-	-	-

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CN-Common: Air conditioning unit - Other	-	91,494.916	91,494.916
AN-Common: UPS and Generator - PSTN	-	33,784,081.842	33,784,081.842
AN-Common: UPS and Generator - Other	-	19,703,014.272	19,703,014.272
DN-Common: UPS and Generator - PSTN	-	3,241,181.406	3,241,181.406
DN-Common: UPS and Generator - Other	-	2,160,787.604	2,160,787.604
CN-Common: UPS and Generator - PSTN	-	-	-
CN-Common: UPS and Generator - Other	-	480,348.309	480,348.309

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1994	1995	1996	1997	1998	1999	2000	2001	2002
1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005

1994	1995	1996	1997	1998	1999	2000	2001	2002
30,772,819	30,772,819	30,772,819	30,772,819	30,772,819	31,109,374	29,886,082	28,713,392	28,192,924
17,933,676	17,933,676	17,933,676	17,933,676	17,933,676	17,933,676	18,797,851	19,970,541	21,464,688
6,478,104	6,478,104	6,478,104	6,478,104	6,478,104	6,674,367	6,687,260	6,687,260	6,687,260
34,010,047	34,010,047	34,010,047	34,010,047	34,010,047	35,040,427	35,108,116	35,108,116	35,108,116
183,999,003	183,999,003	183,999,003	183,999,003	183,999,003	189,573,497	189,939,705	189,939,705	189,939,705
20,670,026	21,039,308	21,095,370	21,095,370	20,887,761	18,872,806	18,088,307	17,307,064	15,302,236
1,427,939	1,480,745	1,681,843	2,628,015	5,212,989	8,579,567	12,585,608	14,194,390	14,626,243
966,909	966,909	988,610	1,318,950	1,340,652	2,307,560	2,350,963	2,681,303	2,703,004
-	-	-	-	-	-	3,387	118,304	527,644
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	12,027,284	24,054,569	36,081,853
-	-	-	-	-	-	497,681	1,513,297	3,530,423
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	1,658,936	3,317,872	4,976,807
3,770,537	3,770,537	3,770,537	3,770,537	3,770,537	3,770,537	3,995,152	4,226,355	4,454,264
19,795,322	19,795,322	19,795,322	19,795,322	19,795,322	19,795,322	20,974,549	22,188,365	23,384,886
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	140,656	401,874	602,811
-	-	-	-	-	-	843,935	1,607,496	2,411,244
-	-	-	-	-	-	1,523,102	3,166,767	4,750,150
-	-	-	-	-	-	-	-	-
20,836,981	20,836,981	20,938,501	20,988,706	20,988,706	21,833,738	22,520,688	22,280,255	21,794,674

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13,891,320	13,891,320	13,891,320	13,891,320	13,891,320	13,891,320	13,891,320	13,891,320	14,169,147
620,260	620,260	627,871	631,676	631,676	700,171	772,471	757,250	684,950
3,256,366	3,256,366	3,296,322	3,316,299	3,316,299	3,675,898	4,055,474	3,975,564	3,595,987
81,063,004	81,063,004	82,057,642	82,554,961	82,554,961	91,506,704	100,955,765	100,955,765	98,966,489
32,425,201	32,425,201	32,823,057	33,021,984	33,021,984	36,602,681	40,382,306	40,382,306	39,586,596
16,376,364	16,376,364	16,577,301	16,677,770	16,677,770	18,486,203	20,395,104	20,395,104	19,993,230
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	60,281	110,515	170,796
-	-	-	-	-	-	84,394	313,462	458,136
-	-	-	-	-	-	140,656	401,874	602,811
-	-	-	-	-	-	401,874	753,514	1,054,919
413,507	413,507	413,507	413,507	413,507	413,507	416,801	419,546	422,840
2,170,911	2,170,911	2,170,911	2,170,911	2,170,911	2,170,911	2,188,205	2,202,617	2,219,912
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
91,924	91,924	91,924	91,924	91,924	91,924	92,473	93,022	93,022
482,599	482,599	482,599	482,599	482,599	482,599	485,481	488,364	488,364
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	15,070	30,141	30,141
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	15,070	30,141	30,141
-	-	-	-	-	-	301,405	602,811	602,811
-	-	-	-	-	-	1,446,746	2,893,493	3,616,866
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	100,468	200,937	200,937
-	-	-	-	-	-	50,234	50,234	50,234

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16,577,301	22,103,068	22,103,068	22,103,068	22,103,068	22,103,068	22,103,068	22,103,068	22,103,068
4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740
15,070,274	15,070,274	15,070,274	15,070,274	15,070,274	15,070,274	60,281,096	75,351,370	75,351,370
49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562
15,070,274	15,070,274	15,070,274	15,070,274	15,070,274	15,070,274	15,070,274	15,070,274	15,070,274
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824
9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044
110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515
-	-	-	-	-	-	-	2,357,731	2,357,731
-	-	-	-	-	-	-	7,585,222	7,585,222
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	793,299	793,299
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	4,395,698	4,395,698
-	-	-	-	-	-	-	649,428	649,428
-	-	-	-	-	-	-	180,040	180,040
-	-	-	-	-	-	-	2,786,996	2,840,445
-	-	-	-	-	-	-	513,595	513,595
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	4,822	4,822
10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565
-	-	-	-	-	-	1,287,001	4,964,148	7,538,151
-	-	-	-	-	-	551,572	2,022,431	3,125,575
-	-	-	-	-	-	168,787	590,755	886,132
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	985,645	985,645
-	-	-	-	-	-	-	2,501,009	2,501,009
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	78,607	78,607
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	38,580	38,580
-	-	-	-	-	-	-	236,704	320,695
-	-	-	-	-	-	-	774,009	824,645
-	-	-	-	-	-	-	6,245,122	6,245,122
-	-	-	-	-	-	-	26,041	26,041
982,582	982,582	982,582	982,582	982,582	982,582	982,582	982,582	982,582
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1,034,117	1,034,117
-	-	-	-	-	-	-	2,841,812	2,841,812
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	22,505	22,505
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	5,642,311	5,642,311
-	-	-	-	-	-	-	63,175	63,175
548,558	548,558	548,558	548,558	548,558	548,558	548,558	548,558	548,558
-	-	-	-	-	-	-	527,460	527,460
-	-	-	-	-	-	-	52,746	52,746
-	-	-	-	-	-	-	8,385,100	8,385,100
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
TRUE	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*
229.68%	217.30%	205.58%	194.49%	184.00%	174.08%	164.69%	155.81%	147.41%
871,233,166	877,181,022	879,202,398	881,349,614	883,748,681	908,818,903	996,405,162	1,088,311,220	1,109,624,179
##############	##############	##############	##############	##############	##############	##############	##############	##############
##############	##############	##############	##############	##############	##############	##############	##############	##############
##############	##############	##############	##############	##############	##############	##############	##############	##############
50,807,622,890	53,191,798,354	56,512,763,847	60,206,760,673	63,096,374,369	67,606,366,541	81,907,287,820	89,395,577,859	94,296,083,824
353,505,747	359,453,603	361,325,893	363,399,121	365,798,188	388,032,087	406,804,214	408,077,011	403,748,216
-	-	-	-	-	-	19,307,794	39,448,994	59,171,080
34,159,288	34,159,288	34,159,288	34,159,288	34,159,288	34,159,288	79,370,110	94,440,384	94,440,384
102,989,650	102,989,650	102,989,650	102,989,650	102,989,650	102,989,650	104,997,010	159,288,755	163,449,356
380,578,482	380,578,482	380,727,567	380,801,556	380,801,556	383,637,879	385,926,034	387,056,076	388,815,143
6,447,896.261	6,447,896.261	6,447,896.261	6,447,896.261	6,447,896.261	6,643,243.848	6,656,076.901	6,656,076.901	6,656,076.901
3,752,955.099	3,752,955.099	3,752,955.099	3,752,955.099	3,752,955.099	3,752,955.099	3,976,522.370	4,206,647.332	4,433,493.448
617,367.887	617,367.887	624,942.953	628,730.486	628,730.486	696,906.081	768,869.209	753,719.077	681,755.949
411,578.591	411,578.591	411,578.591	411,578.591	411,578.591	411,578.591	414,857.436	417,589.807	420,868.652
-	-	-	-	-	-	-	-	-

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91,494.916	91,494.916	91,494.916	91,494.916	91,494.916	91,494.916	92,041.390	92,587.864	92,587.864
33,851,455.371	33,851,455.371	33,851,455.371	33,851,455.371	33,851,455.371	34,877,030.202	34,944,403.731	34,944,403.731	34,944,403.731
19,703,014.272	19,703,014.272	19,703,014.272	19,703,014.272	19,703,014.272	19,703,014.272	20,876,742.445	22,084,898.492	23,275,840.602
3,241,181.406	3,241,181.406	3,280,950.503	3,300,835.051	3,300,835.051	3,658,756.924	4,036,563.346	3,957,025.152	3,579,218.730
2,160,787.604	2,160,787.604	2,160,787.604	2,160,787.604	2,160,787.604	2,160,787.604	2,178,001.541	2,192,346.488	2,209,560.425
-	-	-	-	-	-	-	-	-
480,348.309	480,348.309	480,348.309	480,348.309	480,348.309	480,348.309	483,217.298	486,086.288	486,086.288

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2003	2004	2005	2006	2007	2008	2009	2010	2011
1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005

2003	2004	2005	2006	2007	2008	2009	2010	2011
27,434,240	27,003,120	26,559,635	25,803,714	25,448,336	24,318,363	23,580,891	22,177,428	21,451,168
23,216,524	24,660,659	26,137,420	27,947,282	29,377,680	31,604,173	33,460,096	33,152,329	32,218,696
6,687,260	6,687,260	6,674,367	6,478,104	6,465,211	6,087,011	5,890,748	5,890,748	5,877,855
35,108,116	35,108,116	35,040,427	34,010,047	33,942,358	31,956,809	30,926,429	30,926,429	30,858,740
189,939,705	189,939,705	189,939,705	189,573,497	183,999,003	183,632,795	172,890,704	167,316,210	167,316,210
14,401,998	14,046,098	13,620,755	12,994,314	11,190,583	10,412,595	9,789,409	9,476,188	8,948,849
14,626,243	14,622,988	14,046,098	12,934,997	10,356,533	9,156,457	8,470,700	6,577,994	5,951,553
2,724,706	3,033,345	3,033,345	2,724,706	2,681,303	2,350,963	2,350,963	2,329,262	2,307,560
1,467,447	2,961,495	4,942,688	6,374,917	7,340,163	7,540,703	7,540,703	7,168,367	6,784,678
-	-	-	-	-	-	-	-	-
48,109,137	60,136,421	72,557,040	84,584,324	96,611,608	108,638,892	120,666,177	132,693,461	132,693,461
7,595,418	14,765,854	22,448,077	28,777,592	31,670,000	34,749,399	34,749,399	32,712,019	32,712,019
241,727	241,727	247,152	247,152	247,152	247,152	247,152	247,152	247,152
4,976,807	5,877,407	7,536,343	9,195,278	10,854,214	12,513,150	14,172,086	15,831,021	15,831,021
4,742,724	4,976,123	5,216,067	5,449,467	5,682,317	5,915,167	6,148,566	6,381,416	6,397,338
24,899,299	26,124,645	27,384,353	28,609,699	29,832,163	31,054,626	32,279,972	33,502,435	33,586,026
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7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051
2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017
562,624	562,624	562,624	562,624	562,624	562,624	562,624	562,624	617,881
-	-	-	-	-	-	-	-	135,632
-	-	-	-	-	-	-	-	-
1,175,481	1,476,887	1,768,245	2,069,651	2,361,010	2,652,368	2,953,774	3,245,132	3,536,491
3,526,444	4,430,661	5,304,736	6,208,953	7,083,029	7,957,105	8,861,321	9,735,397	10,609,473
5,253,498	6,937,349	8,611,155	10,295,006	11,968,812	13,642,617	15,326,469	17,000,274	17,346,890
-	-	-	-	-	-	-	-	17,682,455
21,582,314	21,585,491	21,909,193	22,220,206	22,554,596	22,894,557	23,240,185	22,435,126	21,658,451

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14,549,010	15,268,460	15,681,837	16,122,644	16,555,112	16,997,345	17,449,555	17,033,922	16,626,526
643,092	620,260	620,260	620,260	620,260	620,260	620,260	620,260	620,260
3,376,232	3,256,366	3,256,366	3,256,366	3,256,366	3,256,366	3,256,366	3,256,366	3,256,366
89,517,427	84,046,918	81,063,004	81,063,004	81,063,004	81,063,004	81,063,004	81,063,004	81,063,004
35,806,971	33,618,767	32,425,201	32,425,201	32,425,201	32,425,201	32,425,201	32,425,201	32,425,201
18,084,329	16,979,175	16,376,364	16,376,364	16,376,364	16,376,364	16,376,364	16,376,364	16,376,364
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
231,078	291,359	351,640	421,968	482,249	542,530	602,811	663,092	723,373
753,514	934,357	1,115,200	1,326,184	1,507,027	1,687,871	1,868,714	2,049,557	2,230,401
1,175,481	1,476,887	1,768,245	2,069,651	2,361,010	2,652,368	2,953,774	3,245,132	3,536,491
1,356,325	1,657,730	1,959,136	2,310,775	2,612,181	3,014,055	3,415,929	4,018,740	4,621,551
426,135	429,429	432,723	436,566	439,860	443,155	446,449	449,743	453,037
2,237,207	2,254,501	2,271,796	2,291,973	2,309,267	2,326,562	2,343,857	2,361,151	2,378,446
15,513,447	15,823,716	16,047,691	16,275,370	16,600,878	16,836,952	17,173,691	16,564,624	16,067,685
8,841,742	9,018,576	9,291,448	9,570,551	9,761,962	10,053,145	10,254,208	10,040,438	9,739,225
155,793	155,793	155,793	155,793	155,793	155,793	155,793	155,793	155,793
817,911	817,911	817,911	817,911	817,911	817,911	817,911	817,911	817,911
5,385,111	5,385,111	5,385,111	5,385,111	5,385,111	5,385,111	5,385,111	5,385,111	5,385,111
8,037,479	8,037,479	8,037,479	8,037,479	8,037,479	8,037,479	8,037,479	8,037,479	8,037,479
20,254,448	20,254,448	20,254,448	20,254,448	20,254,448	20,254,448	20,254,448	20,254,448	20,254,448
542,530	542,530	542,530	542,530	542,530	542,530	542,530	542,530	542,530
406,897	406,897	406,897	406,897	406,897	406,897	406,897	406,897	406,897
200,937	200,937	200,937	200,937	200,937	200,937	200,937	200,937	200,937
18,212,928	18,212,928	18,212,928	16,798,332	15,383,736	13,969,139	12,554,543	10,609,473	9,194,876
479,355	479,355	357,829	357,829	357,829	357,829	357,829	317,320	317,320
93,571	93,571	94,120	94,669	94,669	95,218	95,218	95,767	95,767
491,246	491,246	494,128	497,011	497,011	499,893	499,893	502,776	502,776
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
30,141	30,141	30,141	30,141	30,141	30,141	30,141	30,141	30,141
-	-	-	-	-	-	-	-	-
30,141	30,141	30,141	30,141	30,141	30,141	30,141	60,281	90,422
904,216	904,216	1,205,622	1,507,027	1,507,027	1,808,433	1,808,433	2,109,838	2,109,838
5,425,299	6,510,358	8,680,478	10,850,597	10,850,597	13,020,717	15,190,836	17,722,642	20,254,448
-	-	-	-	-	-	-	-	-
301,405	301,405	401,874	502,342	502,342	602,811	602,811	703,279	703,279
50,234	100,468	100,468	150,703	150,703	150,703	150,703	150,703	150,703

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22,103,068	22,103,068	16,577,301	16,577,301	16,577,301	16,577,301	11,051,534	11,051,534	11,051,534
4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740
75,351,370	75,351,370	75,351,370	75,351,370	75,351,370	75,351,370	75,351,370	75,351,370	75,351,370
49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562
30,140,548	30,140,548	30,140,548	30,140,548	30,140,548	30,140,548	30,140,548	30,140,548	30,140,548
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824
9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044
110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515
2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731
7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222
-	-	-	-	-	-	-	-	-
793,299	793,299	793,299	793,299	793,299	793,299	793,299	793,299	793,299
-	-	-	-	-	-	-	-	-
4,395,698	4,395,698	4,395,698	4,395,698	4,639,233	4,639,233	4,639,233	4,639,233	4,639,233
649,428	649,428	649,428	649,428	649,428	649,428	649,428	649,428	649,428
180,040	180,040	180,040	180,040	180,040	289,349	289,349	289,349	289,349
2,920,619	2,920,619	2,916,801	2,817,538	2,775,543	2,775,543	2,279,228	2,263,957	2,115,063
426,790	390,622	390,622	390,622	325,518	202,544	202,544	202,544	202,544
-	-	-	-	-	-	-	-	-
4,822	4,822	4,822	4,822	4,822	4,822	4,822	4,822	4,822
10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565
16,914,876	21,327,452	25,556,171	29,784,889	34,013,608	38,242,327	42,654,903	46,883,622	51,112,341
6,986,579	8,825,152	10,479,869	12,134,585	13,973,158	15,627,874	17,466,448	19,121,164	20,775,880
1,983,248	2,489,609	2,995,970	3,481,233	3,987,594	4,472,857	4,979,219	5,485,580	5,970,843
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
985,645	985,645	985,645	985,645	985,645	985,645	985,645	985,645	985,645
2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009
-	-	-	-	-	-	-	-	-
78,607	78,607	78,607	78,607	78,607	78,607	78,607	78,607	78,607
-	-	-	-	-	-	-	-	-
38,580	38,580	38,580	38,580	38,580	38,580	38,580	38,580	38,580
339,784	339,784	339,784	339,784	339,784	339,784	339,784	339,784	339,784
1,461,214	1,461,214	1,461,214	1,461,214	1,461,214	1,461,214	1,461,214	1,461,214	1,461,214
6,245,122	6,245,122	6,245,122	6,245,122	6,245,122	6,245,122	6,245,122	6,245,122	6,245,122
26,041	26,041	26,041	26,041	26,041	26,041	26,041	26,041	26,041
982,582	982,582	982,582	982,582	982,582	982,582	982,582	982,582	982,582
-	791,189	2,373,568	4,219,677	5,802,055	7,384,434	8,966,813	10,549,192	12,131,571
-	527,460	1,318,649	2,109,838	2,901,028	3,692,217	4,483,407	5,274,596	6,065,785
-	464,164	1,259,875	2,188,204	2,983,914	3,845,934	4,641,644	5,437,355	6,233,065
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1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117
2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812
-	-	-	-	-	-	-	-	-
22,505	22,505	22,505	22,505	22,505	22,505	22,505	22,505	22,505
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
5,642,311	5,642,311	5,642,311	5,642,311	5,642,311	5,642,311	5,642,311	6,269,234	6,269,234
63,175	63,175	63,175	63,175	63,175	63,175	63,175	63,175	63,175
548,558	548,558	548,558	548,558	548,558	548,558	548,558	548,558	548,558
1,582,379	1,582,379	3,164,758	5,274,596	5,274,596	7,911,894	7,911,894	11,076,651	11,076,651
158,238	158,238	316,476	527,460	527,460	791,189	791,189	1,107,665	1,107,665
8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100
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-	-	-	-	-	-	-	-	-
226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
TRUE	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*
139.46%	131.94%	124.82%	118.09%	111.72%	105.70%	100.00%	94.61%	89.51%
1,240,172,885	1,269,883,111	1,303,452,975	1,342,247,995	1,365,683,793	1,398,919,540	1,411,755,616	1,431,559,308	1,457,454,662
##############	##############	1,627,029,086.67	##############	1,525,808,851.62	##############	##############	1,354,360,745.46	##############
##############	##############	2,081,303,101.09	##############	2,648,831,757.42	##############	##############	2,253,011,405.45	##############
##############	##############	2,597,976,872.09	##############	2,959,404,632.14	##############	##############	2,131,515,047.73	##############
97,419,892,880	100,481,189,990	103,079,166,862	105,730,018,066	108,689,422,699	111,396,622,009	113,901,639,306	116,033,154,353	120,252,308,159
442,191,581	434,871,247	425,422,622	423,027,865	412,578,423	408,689,755	389,698,357	379,538,320	376,564,553
92,007,037	116,974,060	144,986,384	171,448,177	191,699,933	214,811,143	234,501,360	253,088,554	276,171,190
109,510,658	109,510,658	109,510,658	109,510,658	109,510,658	109,510,658	109,510,658	109,510,658	109,510,658
179,593,639	188,097,794	199,393,668	211,549,552	221,428,920	233,920,570	243,351,045	257,003,005	266,392,087
416,869,971	420,429,353	424,139,644	426,711,743	430,465,858	431,987,415	434,694,197	432,418,772	428,816,175
6,656,076.901	6,656,076.901	6,643,243.848	6,447,896.261	6,435,063.208	6,058,626.982	5,863,279.395	5,863,279.395	5,850,446.342
4,720,607.859	4,952,918.717	5,191,744.328	5,424,055.186	5,655,819.570	5,887,583.954	6,119,894.812	6,351,659.196	6,367,506.947
640,093.085	617,367.887	617,367.887	617,367.887	617,367.887	617,367.887	617,367.887	617,367.887	617,367.887
424,147.497	427,426.342	430,705.188	434,530.507	437,809.352	441,088.197	444,367.042	447,645.887	450,924.732
155,066.059	155,066.059	155,066.059	155,066.059	155,066.059	155,066.059	155,066.059	155,066.059	155,066.059

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93,134.339	93,134.339	93,680.813	94,227.287	94,227.287	94,773.761	94,773.761	95,320.235	95,320.235
34,944,403.731	34,944,403.731	34,877,030.202	33,851,455.371	33,784,081.842	31,807,791.657	30,782,216.826	30,782,216.826	30,714,843.297
24,783,191.262	26,002,823.266	27,256,657.724	28,476,289.728	29,693,052.743	30,909,815.758	32,129,447.763	33,346,210.778	33,429,411.472
3,360,488.697	3,241,181.406	3,241,181.406	3,241,181.406	3,241,181.406	3,241,181.406	3,241,181.406	3,241,181.406	3,241,181.406
2,226,774.361	2,243,988.298	2,261,202.235	2,281,285.161	2,298,499.097	2,315,713.034	2,332,926.971	2,350,140.907	2,367,354.844
814,096.809	814,096.809	814,096.809	814,096.809	814,096.809	814,096.809	814,096.809	814,096.809	814,096.809
488,955.277	488,955.277	491,824.267	494,693.256	494,693.256	497,562.246	497,562.246	500,431.235	500,431.235

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2012	2013	2014	2015	2016	2017	2018	2019	2020
1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005

2012	2013	2014	2015	2016	2017	2018	2019	2020
20,774,922	17,331,250	14,974,340	12,391,278	-	-	-	-	-
31,284,847	33,166,725	35,523,636	38,106,697	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976
5,877,855	5,864,962	4,428,089	3,354,374	-	-	-	-	-
30,858,740	30,791,051	23,247,469	17,610,466	-	-	-	-	-
166,950,002	166,950,002	166,583,794	125,771,985	95,275,026	-	-	-	-
8,473,955	6,996,827	6,472,381	2,235,946	1,693,778	-	-	-	-
5,470,148	5,064,697	4,639,354	2,235,946	846,889	-	-	-	-
1,998,921	1,977,220	1,340,652	-	-	-	-	-	-
6,508,620	6,207,968	5,855,128	1,569,300	974,416	436,637	-	-	-
-	-	-	-	-	-	-	-	-
132,693,461	132,693,461	132,693,461	94,845,975	62,089,981	29,333,987	-	-	-
31,954,286	30,634,130	29,876,396	11,773,983	5,138,481	2,427,640	-	-	-
247,152	247,152	247,152	-	-	-	-	-	-
15,831,021	15,831,021	15,831,021	13,082,203	8,564,135	4,046,067	-	-	-
6,413,809	7,613,536	7,267,171	7,175,102	7,122,210	6,609,603	6,625,525	6,618,431	6,618,431
33,672,499	39,971,062	38,152,650	37,669,287	37,391,600	34,700,415	34,784,005	34,746,760	34,746,760
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
7,731,051	19,817,410	19,817,410	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051
2,577,017	6,605,803	6,605,803	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017
617,881	3,230,062	3,230,062	1,014,732	1,014,732	-	-	-	-
135,632	406,897	2,230,401	2,230,401	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051
-	-	-	-	-	-	-	-	-
3,837,896	4,129,255	4,430,661	4,722,019	5,013,378	5,314,783	5,606,142	5,606,142	5,606,142
11,513,689	12,387,765	13,291,982	14,166,058	14,166,058	11,212,284	11,212,284	11,212,284	11,212,284
17,346,890	18,713,262	18,713,262	17,972,306	17,972,306	17,350,909	17,350,909	17,350,909	17,350,909
38,378,964	41,292,551	44,306,605	47,220,192	50,133,778	53,147,833	56,061,419	56,061,419	56,061,419
20,909,137	20,249,875	20,217,987	20,186,200	-	-	-	-	-

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16,227,290	15,772,459	15,804,347	15,836,134	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334
620,260	620,260	620,260	620,260	-	-	-	-	-
3,256,366	3,256,366	3,256,366	3,256,366	-	-	-	-	-
81,063,004	81,063,004	81,063,004	81,063,004	81,063,004	-	-	-	-
32,425,201	32,425,201	32,425,201	32,425,201	32,425,201	-	-	-	-
16,376,364	16,376,364	16,376,364	16,376,364	16,376,364	-	-	-	-
-	401,874	803,748	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622
-	120,562	241,124	361,687	361,687	361,687	361,687	361,687	361,687
783,654	783,654	783,654	783,654	783,654	1,085,060	1,125,247	1,185,528	1,245,809
2,230,401	36,169	36,169	36,169	36,169	36,169	36,169	36,169	36,169
3,536,491	-	-	-	-	-	-	-	-
25,518,997	30,040,079	30,843,827	35,666,315	40,790,208	40,790,208	40,790,208	44,206,137	44,206,137
456,331	457,430	458,528	459,626	459,626	476,097	478,293	481,587	484,881
2,395,740	2,401,505	2,407,270	2,413,035	2,413,035	2,499,508	2,511,038	2,528,332	2,545,627
14,994,293	8,740,681	8,740,681	8,545,819	-	-	-	-	-
10,038,409	15,722,273	15,722,273	15,735,903	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721
155,793	155,793	155,793	155,793	-	-	-	-	-
817,911	817,911	817,911	817,911	-	-	-	-	-
5,385,111	5,385,111	5,385,111	5,385,111	5,385,111	-	-	-	-
8,037,479	8,037,479	8,037,479	8,037,479	8,037,479	-	-	-	-
20,254,448	20,254,448	20,254,448	20,254,448	20,254,448	-	-	-	-
542,530	542,530	542,530	542,530	542,530	-	-	-	-
406,897	406,897	406,897	406,897	406,897	-	-	-	-
200,937	200,937	200,937	200,937	200,937	-	-	-	-
9,194,876	9,194,876	3,182,842	3,182,842	3,182,842	-	-	-	-
317,320	317,320	317,320	317,320	317,320	-	-	-	-
99,610	130,356	128,709	132,552	132,003	135,297	137,493	136,944	140,239
522,953	684,369	675,722	695,899	693,016	710,311	721,840	718,958	736,253
-	1,205,622	1,205,622	1,004,685	1,004,685	1,004,685	1,004,685	803,748	803,748
-	663,092	663,092	602,811	602,811	602,811	542,530	482,249	482,249
-	1,627,590	1,627,590	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060
-	-	-	-	-	-	-	-	-
-	2,290,682	2,290,682	2,170,119	2,170,119	2,049,557	1,928,995	1,687,871	1,567,308
-	2,563,956	2,563,956	2,387,131	2,387,131	2,298,719	2,121,895	1,945,070	1,679,833
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
30,141	60,281	60,281	60,281	90,422	90,422	90,422	90,422	90,422
-	-	-	-	-	-	-	-	-
150,703	210,984	271,265	361,687	482,249	482,249	-	-	-
4,219,677	4,219,677	4,219,677	6,329,515	6,329,515	8,439,353	10,549,192	10,549,192	12,659,030
25,318,060	27,849,866	35,445,284	48,104,315	60,763,345	73,422,375	86,081,405	101,272,241	113,931,271
-	-	-	-	-	-	-	-	-
703,279	703,279	703,279	703,279	703,279	703,279	703,279	703,279	703,279
150,703	150,703	150,703	150,703	150,703	150,703	150,703	150,703	150,703

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11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534
4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740
75,351,370	90,421,644	90,421,644	90,421,644	90,421,644	75,351,370	60,281,096	60,281,096	60,281,096
49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562
30,140,548	30,140,548	30,140,548	30,140,548	30,140,548	-	-	-	-
-	37,676	37,676	37,676	37,676	37,676	37,676	37,676	37,676
-	-	-	-	-	-	-	-	-
32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824
9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044
110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515
2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731
7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222
-	-	-	-	-	-	-	-	-
793,299	793,299	793,299	793,299	793,299	793,299	793,299	793,299	793,299
-	-	-	-	-	-	-	-	-
4,639,233	4,639,233	4,639,233	4,639,233	4,395,698	-	-	-	-
649,428	649,428	649,428	665,503	665,503	-	-	-	-
340,789	784,458	925,918	1,192,762	1,192,762	-	-	-	-
2,115,063	1,985,257	1,618,748	1,523,303	1,382,045	-	-	-	-
202,544	144,675	144,675	144,675	144,675	-	-	-	-
-	-	-	-	-	-	-	-	-
4,822	4,822	4,822	4,822	4,822	-	-	-	-
10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565	10,114,565
55,524,917	60,856,780	66,372,501	71,704,364	77,036,226	82,551,947	87,883,810	87,883,810	87,883,810
22,614,453	24,820,741	27,027,029	29,233,317	31,439,606	33,645,894	35,668,324	35,668,324	35,668,324
5,970,843	-	-	-	-	-	-	-	-
14,296,265	15,642,342	17,081,251	18,427,328	19,819,822	21,212,315	22,558,392	22,558,392	22,558,392
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
985,645	985,645	985,645	985,645	985,645	985,645	985,645	985,645	985,645
2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009
-	-	-	-	-	-	-	-	-
78,607	78,607	78,607	78,607	78,607	78,607	78,607	78,607	78,607
-	-	-	-	-	-	-	-	-
38,580	38,580	38,580	38,580	38,580	-	-	-	-
339,784	339,784	339,784	255,793	202,344	-	-	-	-
1,461,214	1,663,758	1,663,758	925,918	774,009	-	-	-	-
6,245,122	6,245,122	6,245,122	6,245,122	6,245,122	-	-	-	-
26,041	26,041	26,041	26,041	26,041	26,041	26,041	26,041	26,041
982,582	982,582	982,582	982,582	982,582	982,582	982,582	982,582	982,582
13,713,949	13,713,949	16,371,027	21,513,758	27,427,899	33,684,888	39,856,165	46,370,291	52,884,417
6,856,975	6,856,975	8,185,513	10,756,879	13,713,949	16,842,444	19,928,083	23,185,146	26,442,209
7,028,776	7,028,776	8,393,088	11,028,879	14,057,552	17,271,890	20,431,524	23,776,823	27,105,545
-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117
2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812
-	-	-	-	-	-	-	-	-
22,505	22,505	22,505	22,505	22,505	22,505	22,505	22,505	22,505
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
6,269,234	6,269,234	6,269,234	6,896,157	6,896,157	-	-	-	-
63,175	63,175	63,175	63,175	63,175	63,175	63,175	63,175	63,175
548,558	548,558	548,558	548,558	548,558	548,558	548,558	548,558	548,558
11,076,651	11,076,651	11,076,651	11,076,651	11,076,651	11,076,651	11,076,651	11,076,651	11,076,651
4,430,661	4,430,661	4,430,661	9,968,986	9,968,986	17,722,642	27,691,628	27,691,628	39,875,945
8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110
-	20,001,268	26,830,111	35,445,284	44,759,517	44,759,517	44,759,517	44,759,517	44,759,517
-	16,475,024	16,475,024	16,794,313	17,902,682	17,998,328	17,998,328	17,178,304	15,549,509
-	14,079,655	15,598,738	16,680,382	18,199,466	20,089,881	20,089,881	18,666,443	17,884,396
-	2,179,363	4,706,296	6,702,052	8,216,163	10,196,547	11,255,485	12,189,742	19,038,679
-	235,357	242,772	249,081	264,915	288,626	288,626	288,626	288,626
-	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871
-	225,049	225,049	225,049	225,049	225,049	225,049	225,049	225,049
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	1,494,971	1,494,971	1,350,297	1,157,397	1,012,722	868,048	723,373	626,923
-	2,250,494	2,250,494	1,969,182	1,687,871	1,125,247	1,125,247	843,935	843,935
-	-	-	-	629,335	6,653,425	6,653,425	6,653,425	6,653,425
-	-	-	-	-	241,124	289,349	337,574	385,799
-	-	-	-	-	2,411,244	2,732,743	3,214,992	3,697,241
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
84.68%	80.11%	75.79%	71.71%	67.84%	64.18%	60.72%	57.44%	54.35%
1,528,589,145	1,641,274,030	1,661,243,329	1,582,250,689	1,539,675,224	1,217,926,072	1,216,282,409	1,246,154,876	1,290,795,751
1,294,391,967.61	##############	###########	##############	##############	781,665,652.99	738,515,372.57	715,850,195.99	701,508,062.53
3,647,724,358.37	##############	###########	##############	##############	##############	###########	##############	2,384,857,570.06
3,088,851,654.64	##############	###########	##############	##############	##############	###########	##############	1,296,097,242.28
123,341,159,814	125,397,044,273	############	129,854,139,390	131,663,120,654	132,881,732,670	133,945,230,794	135,075,863,200	136,371,960,442
374,657,349	372,452,417	364,134,977	311,056,847	278,033,778	11,488,171	11,051,534	11,051,534	11,051,534
325,507,047	417,545,892	442,695,497	399,452,481	395,808,891	381,370,162	364,020,539	380,803,700	400,119,170
109,510,658	124,618,607	124,618,607	124,618,607	124,618,607	79,407,785	64,337,511	64,337,511	64,337,511
293,483,215	296,855,139	311,140,936	335,905,943	356,146,319	363,672,583	394,758,489	407,874,978	433,159,205
425,430,876	429,801,974	418,653,311	411,216,811	385,067,630	381,987,371	382,114,335	382,087,153	382,128,331
5,850,446.342	5,837,613.289	4,407,440.810	3,338,732.662	-	-	-	-	-
6,383,901.172	7,578,033.130	7,233,284.039	7,141,644.222	7,088,998.071	6,578,781.672	6,594,629.423	6,587,568.196	6,587,568.196
617,367.887	617,367.887	617,367.887	617,367.887	-	-	-	-	-
454,203.577	455,296.526	456,389.474	457,482.422	457,482.422	473,876.648	476,062.544	479,341.390	482,620.235
155,066.059	155,066.059	155,066.059	155,066.059	-	-	-	-	-

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99,145.555	129,748.109	128,108.686	131,934.005	131,387.531	134,666.376	136,852.273	136,305.799	139,584.644
30,714,843.297	30,647,469.768	###########	17,528,346.473	-	-	-	-	-
33,515,481.155	39,784,673.934	###########	37,493,632.166	37,217,239.871	34,538,603.777	34,621,804.470	34,584,733.028	34,584,733.028
3,241,181.406	3,241,181.406	3,241,181.406	3,241,181.406	-	-	-	-	-
2,384,568.781	2,390,306.760	2,396,044.738	2,401,782.717	2,401,782.717	2,487,852.401	2,499,328.358	2,516,542.295	2,533,756.232
814,096.809	814,096.809	814,096.809	814,096.809	-	-	-	-	-
520,514.161	681,177.570	672,570.602	692,653.528	689,784.538	706,998.475	718,474.433	715,605.443	732,819.380

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2021	2022	2023	2024	2025	2026	2027	2028	2029
1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005

2021	2022	2023	2024	2025	2026	2027	2028	2029
-	-	-	-	-	-	-	-	-
50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
2,847,893	2,847,893	2,847,893	2,847,893	2,854,987	2,854,987	2,854,987	2,854,987	2,854,987
14,951,439	14,951,439	14,951,439	14,951,439	14,988,684	14,988,684	14,988,684	14,988,684	14,988,684
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051
2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017
-	-	-	-	-	-	-	-	-
7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051
-	-	-	-	-	-	-	-	-
5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142
11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284
17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909
56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419
-	-	-	-	-	-	-	-	-

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36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622
361,687	361,687	361,687	361,687	361,687	361,687	361,687	361,687	361,687
1,326,184	1,386,465	2,170,119	2,210,307	2,230,401	2,270,588	2,290,682	2,310,775	2,310,775
36,169	36,169	36,169	36,169	36,169	36,169	36,169	36,169	36,169
-	-	-	-	-	-	-	-	-
48,224,877	48,224,877	52,243,616	52,243,616	52,243,616	52,243,616	56,262,356	56,262,356	56,262,356
75,767	79,061	121,886	124,082	125,180	127,376	128,474	129,572	129,572
397,775	415,070	639,900	651,429	657,194	668,724	674,489	680,254	680,254
-	-	-	-	-	-	-	-	-
24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
51,609	50,511	53,805	53,805	57,649	57,100	57,100	60,943	60,943
270,948	265,184	282,478	282,478	302,655	299,773	299,773	319,950	319,950
803,748	803,748	602,811	602,811	602,811	602,811	602,811	602,811	602,811
421,968	421,968	361,687	361,687	361,687	361,687	301,405	301,405	301,405
1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060
-	-	-	-	-	-	-	-	-
1,446,746	1,326,184	1,205,622	1,085,060	1,085,060	1,085,060	964,498	964,498	964,498
1,591,421	1,414,596	1,326,184	1,237,772	1,149,360	1,149,360	1,060,947	1,060,947	1,060,947
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
90,422	90,422	90,422	90,422	90,422	90,422	90,422	90,422	90,422
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
14,768,868	14,768,868	16,878,707	16,878,707	18,988,545	18,988,545	18,988,545	21,098,384	21,098,384
129,122,107	139,249,332	151,908,362	159,503,780	169,631,004	174,694,616	179,758,228	184,821,840	187,353,646
-	-	-	-	-	-	-	-	-
703,279	703,279	703,279	703,279	703,279	703,279	703,279	703,279	703,279
150,703	150,703	150,703	150,703	150,703	150,703	150,703	150,703	150,703

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11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534
4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740
60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096
49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562
-	-	-	-	-	-	-	-	-
37,676	37,676	37,676	37,676	37,676	37,676	37,676	37,676	37,676
-	-	-	-	-	-	-	-	-
32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824
9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044
110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515
2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731
7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222
-	-	-	-	-	-	-	-	-
793,299	793,299	793,299	793,299	793,299	793,299	793,299	793,299	793,299
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
10,114,565	-	-	-	-	-	-	-	-
87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810
35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324
-	-	-	-	-	-	-	-	-
22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
985,645	985,645	985,645	985,645	985,645	985,645	985,645	985,645	985,645
2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009
-	-	-	-	-	-	-	-	-
78,607	78,607	78,607	78,607	78,607	78,607	78,607	78,607	78,607
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
26,041	-	-	-	-	-	-	-	-
982,582	-	-	-	-	-	-	-	-
58,969,982	64,541,274	69,598,293	73,969,614	77,655,238	80,740,877	83,226,530	85,283,622	86,912,154
29,484,991	32,270,637	34,799,146	36,984,807	38,827,619	40,370,438	41,613,265	42,641,811	43,456,077
30,227,051	33,086,636	35,684,299	37,927,208	39,815,362	41,386,891	42,658,370	43,722,632	44,546,524
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1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117
2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812
-	-	-	-	-	-	-	-	-
22,505	22,505	22,505	22,505	22,505	22,505	22,505	22,505	22,505
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
63,175	-	-	-	-	-	-	-	-
548,558	-	-	-	-	-	-	-	-
22,153,303	22,153,303	22,153,303	22,153,303	33,229,954	33,229,954	33,229,954	33,229,954	33,229,954
54,275,592	54,275,592	70,890,569	70,890,569	89,720,876	89,720,876	89,720,876	110,766,514	110,766,514
8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110
44,759,517	44,759,517	44,759,517	44,759,517	44,759,517	44,759,517	44,759,517	44,759,517	44,759,517
10,896,612	10,114,565	8,871,167	8,653,150	8,063,802	7,858,445	7,653,087	7,269,096	7,076,398
16,473,618	15,691,571	10,051,270	9,449,263	8,409,816	7,820,468	7,435,070	6,858,381	6,191,672
19,988,307	21,716,767	22,447,776	22,931,130	24,644,218	25,359,855	25,609,218	27,088,315	27,337,678
288,626	288,626	288,626	288,626	289,932	298,351	301,285	318,686	321,620
1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871
225,049	225,049	225,049	225,049	225,049	225,049	225,049	225,049	225,049
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
530,474	482,249	434,024	337,574	289,349	289,349	241,124	241,124	192,900
562,624	562,624	562,624	281,312	281,312	281,312	281,312	281,312	281,312
6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425
434,024	482,249	482,249	530,474	530,474	578,699	578,699	626,923	626,923
4,018,740	4,500,988	4,822,488	5,143,987	5,304,736	5,626,236	5,786,985	5,947,735	5,947,735
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
51.42%	48.64%	46.02%	43.54%	41.19%	38.97%	36.87%	34.88%	33.00%
1,317,853,593	1,327,885,654	1,368,193,719	1,384,089,260	1,433,854,899	1,445,468,054	1,459,082,132	1,492,246,891	1,497,390,050
677,590,513.85	645,930,577.55	629,647,915.78	602,614,099.79	590,616,271.48	563,292,168.85	537,935,205.07	520,494,235.39	494,123,144.97
3,630,108,895.99	##############	#############	#############	##############	##############	##############	2,016,588,141.31	2,259,602,432.37
1,866,464,806.90	##############	916,230,872.31	986,273,206.76	##############	947,400,618.65	789,826,927.00	703,383,943.32	745,645,304.61
138,238,425,249	139,414,286,171	140,330,517,043	141,316,790,250	142,607,913,571	143,555,314,189	144,345,141,116	145,048,525,060	145,794,170,364
11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534
416,127,619	426,664,352	439,886,006	446,967,930	459,334,797	464,737,671	473,344,928	481,283,265	483,159,735
64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511
470,885,357	470,366,958	497,165,127	505,965,017	543,288,567	549,488,553	554,488,512	579,684,051	582,950,740
355,451,572	355,465,298	355,753,541	355,767,267	355,842,490	355,852,784	355,859,647	355,890,530	355,890,530
-	-	-	-	-	-	-	-	-
2,834,613.097	2,834,613.097	2,834,613.097	2,834,613.097	2,841,674.324	2,841,674.324	2,841,674.324	2,841,674.324	2,841,674.324
-	-	-	-	-	-	-	-	-
75,413.437	78,692.282	121,317.268	123,503.165	124,596.113	126,782.010	127,874.958	128,967.906	128,967.906
-	-	-	-	-	-	-	-	-

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51,368.573	50,275.625	53,554.470	53,554.470	57,379.789	56,833.315	56,833.315	60,658.634	60,658.634
- 14,881,718.757	- 14,881,718.757	- 14,881,718.757	- 14,881,718.757	- 14,918,790.199	- 14,918,790.199	- 14,918,790.199	- 14,918,790.199	- 14,918,790.199
- 395,920.543	- 413,134.480	- 636,915.657	- 648,391.615	- 654,129.593	- 665,605.551	- 671,343.530	- 677,081.509	- 677,081.509
- 269,685.008	- 263,947.029	- 281,160.966	- 281,160.966	- 301,243.892	- 298,374.902	- 298,374.902	- 318,457.828	- 318,457.828

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2030	2031	2032	2033	2034	2035	2036	2037	2038
1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005

2030	2031	2032	2033	2034	2035	2036	2037	2038
-	-	-	-	-	-	-	-	-
50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
2,854,987	3,063,087	3,063,087	3,163,984	3,163,984	3,163,984	3,171,078	3,171,078	3,171,078
14,988,684	16,081,207	16,081,207	16,610,916	16,610,916	16,610,916	16,648,161	16,648,161	16,648,161
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051
2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017
-	-	-	-	-	-	-	-	-
7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051
-	-	-	-	-	-	-	-	-
5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142
11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284
17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909
56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419
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36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622
361,687	361,687	361,687	361,687	361,687	361,687	361,687	361,687	361,687
2,330,869	2,330,869	2,350,963	2,350,963	2,371,056	2,371,056	2,371,056	2,391,150	2,391,150
36,169	36,169	36,169	36,169	36,169	36,169	36,169	36,169	36,169
-	-	-	-	-	-	-	-	-
56,262,356	56,262,356	56,262,356	56,262,356	56,262,356	56,262,356	56,262,356	56,262,356	56,262,356
130,670	130,670	131,768	131,768	132,866	132,866	132,866	133,964	133,964
686,018	686,018	691,783	691,783	697,548	697,548	697,548	703,313	703,313
-	-	-	-	-	-	-	-	-
24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
60,943	60,394	60,394	60,394	60,394	60,394	60,394	64,237	64,237
319,950	317,067	317,067	317,067	317,067	317,067	317,067	337,244	337,244
602,811	602,811	602,811	602,811	602,811	602,811	602,811	602,811	602,811
301,405	301,405	301,405	301,405	301,405	301,405	301,405	301,405	301,405
1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060
-	-	-	-	-	-	-	-	-
964,498	964,498	843,935	843,935	843,935	843,935	843,935	843,935	843,935
1,060,947	1,060,947	972,535	972,535	972,535	972,535	972,535	972,535	972,535
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
90,422	90,422	90,422	90,422	90,422	90,422	90,422	90,422	90,422
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
21,098,384	21,098,384	21,098,384	21,098,384	21,098,384	21,098,384	21,098,384	23,208,222	23,208,222
192,417,258	194,949,064	194,949,064	197,480,870	200,012,676	202,544,482	202,544,482	205,076,288	207,608,094
-	-	-	-	-	-	-	-	-
703,279	703,279	703,279	703,279	703,279	703,279	703,279	703,279	703,279
150,703	150,703	150,703	150,703	150,703	150,703	150,703	150,703	150,703

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11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534
4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740
60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096
49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562
-	-	-	-	-	-	-	-	-
37,676	37,676	37,676	37,676	37,676	37,676	37,676	37,676	37,676
-	-	-	-	-	-	-	-	-
32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824
9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044
110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515
2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731
7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222
-	-	-	-	-	-	-	-	-
793,299	793,299	793,299	793,299	793,299	793,299	793,299	793,299	793,299
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810
35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324
-	-	-	-	-	-	-	-	-
22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
985,645	985,645	985,645	985,645	985,645	985,645	985,645	985,645	985,645
2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009
-	-	-	-	-	-	-	-	-
78,607	78,607	78,607	78,607	78,607	78,607	78,607	78,607	78,607
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
88,283,549	89,483,519	90,512,065	91,454,899	92,312,021	93,083,431	93,940,553	94,711,962	95,397,660
44,141,774	44,741,760	45,256,033	45,727,450	46,156,011	46,541,715	46,970,276	47,355,981	47,698,830
45,256,033	45,872,708	46,396,551	46,882,266	47,313,276	47,722,735	48,153,745	48,546,627	48,901,381
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1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117
2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812
-	-	-	-	-	-	-	-	-
22,505	22,505	22,505	22,505	22,505	22,505	22,505	22,505	22,505
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
33,229,954	33,229,954	33,229,954	33,229,954	33,229,954	33,229,954	33,229,954	44,306,605	44,306,605
110,766,514	110,766,514	110,766,514	110,766,514	110,766,514	110,766,514	110,766,514	134,027,482	134,027,482
8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110
44,759,517	48,472,833	48,472,833	50,273,228	50,273,228	50,273,228	50,399,819	50,399,819	50,399,819
7,063,739	6,409,689	6,229,649	6,216,990	6,216,990	6,216,990	6,216,990	6,216,990	6,216,990
5,627,642	5,614,983	5,434,944	5,422,285	5,422,285	5,422,285	5,422,285	5,422,285	5,422,285
27,571,669	28,037,943	28,053,315	28,287,306	28,287,306	28,302,678	29,315,501	29,315,501	29,766,403
324,373	329,858	330,039	332,792	332,792	332,973	344,888	344,888	350,193
1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871
225,049	225,049	225,049	225,049	225,049	225,049	225,049	225,049	225,049
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
192,900	192,900	192,900	192,900	192,900	192,900	192,900	192,900	192,900
281,312	281,312	281,312	281,312	281,312	281,312	281,312	281,312	281,312
6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425
626,923	626,923	626,923	626,923	675,148	675,148	675,148	675,148	675,148
6,108,484	6,108,484	6,269,234	6,269,234	6,429,984	6,429,984	6,429,984	6,590,733	6,590,733
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
TRUE	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*
31.22%	29.54%	27.94%	26.44%	25.01%	23.66%	22.39%	21.18%	20.04%
1,505,068,024	1,514,832,020	1,516,532,887	1,523,607,086	1,528,091,515	1,532,205,448	1,535,117,809	1,575,858,795	1,580,230,109
469,873,979.69	447,419,343.02	423,766,991.05	402,784,999.64	382,185,918.57	362,549,518.07	343,650,557.33	333,747,218.83	316,625,362.84
##############	##############	##############	##############	2,398,117,086.19	3,214,900,706.49	##############	##############	2,067,801,806.25
729,128,983.12	##############	750,998,784.35	579,336,716.66	599,785,138.63	760,707,843.35	583,180,040.46	480,462,891.93	414,318,454.92
146,523,299,347	147,656,066,908	148,407,065,692	148,986,402,409	149,586,187,547	150,346,895,391	150,930,075,431	151,410,538,323	151,824,856,778
11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534
488,064,245	494,114,418	493,741,760	498,285,387	501,046,261	503,593,620	504,744,949	509,567,436	512,555,450
64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511
585,717,341	588,133,972	590,200,634	592,100,600	593,817,293	595,383,866	597,100,559	632,988,175	634,371,475
355,897,393	357,194,585	357,201,448	357,832,053	357,838,916	357,838,916	357,883,255	357,914,138	357,914,138
-	-	-	-	-	-	-	-	-
2,841,674.324	3,048,803.651	3,048,803.651	3,149,229.992	3,149,229.992	3,149,229.992	3,156,291.219	3,156,291.219	3,156,291.219
-	-	-	-	-	-	-	-	-
130,060.855	130,060.855	131,153.803	131,153.803	132,246.752	132,246.752	132,246.752	133,339.700	133,339.700
-	-	-	-	-	-	-	-	-

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60,658.634	60,112.160	60,112.160	60,112.160	60,112.160	60,112.160	60,112.160	63,937.479	63,937.479
- 14,918,790.199	- 16,006,219.170	- 16,006,219.170	- 16,533,457.459	- 16,533,457.459	- 16,533,457.459	- 16,570,528.901	- 16,570,528.901	- 16,570,528.901
- 682,819.488	- 682,819.488	- 688,557.467	- 688,557.467	- 694,295.446	- 694,295.446	- 694,295.446	- 700,033.425	- 700,033.425
- 318,457.828	- 315,588.839	- 315,588.839	- 315,588.839	- 315,588.839	- 315,588.839	- 315,588.839	- 335,671.765	- 335,671.765

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2039	2040	2041	2042	2043	2044	2045	2046	2047
1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005

2039	2040	2041	2042	2043	2044	2045	2046	2047
-	-	-	-	-	-	-	-	-
50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976	50,497,976
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
3,171,078	3,171,078	3,171,078	3,171,078	3,171,078	3,171,078	3,171,078	3,171,078	3,171,078
16,648,161	16,648,161	16,648,161	16,648,161	16,648,161	16,648,161	16,648,161	16,648,161	16,648,161
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051
2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017	2,577,017
-	-	-	-	-	-	-	-	-
7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051	7,731,051
-	-	-	-	-	-	-	-	-
5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142	5,606,142
11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284	11,212,284
17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909	17,350,909
56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419	56,061,419
-	-	-	-	-	-	-	-	-

CONFIDENTIAL © Analysys Mason

36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334	36,022,334
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622	1,205,622
361,687	361,687	361,687	361,687	361,687	361,687	361,687	361,687	361,687
2,391,150	2,391,150	2,411,244	2,411,244	2,411,244	2,431,338	2,431,338	2,431,338	2,431,338
36,169	36,169	36,169	36,169	36,169	36,169	36,169	36,169	36,169
-	-	-	-	-	-	-	-	-
56,262,356	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096
133,964	133,964	135,062	135,062	135,062	136,161	136,161	136,161	136,161
703,313	703,313	709,078	709,078	709,078	714,843	714,843	714,843	714,843
-	-	-	-	-	-	-	-	-
24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721	24,281,721
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
64,237	64,237	64,237	64,237	64,237	64,237	64,237	64,237	64,237
337,244	337,244	337,244	337,244	337,244	337,244	337,244	337,244	337,244
602,811	602,811	602,811	602,811	602,811	602,811	602,811	602,811	602,811
301,405	301,405	301,405	301,405	301,405	301,405	301,405	301,405	301,405
1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060	1,085,060
-	-	-	-	-	-	-	-	-
843,935	843,935	843,935	843,935	843,935	843,935	843,935	843,935	843,935
972,535	884,123	884,123	884,123	884,123	884,123	884,123	884,123	884,123
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
90,422	90,422	90,422	90,422	90,422	90,422	90,422	90,422	90,422
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
23,208,222	23,208,222	23,208,222	23,208,222	23,208,222	23,208,222	23,208,222	23,208,222	23,208,222
207,608,094	210,139,900	210,139,900	212,671,706	212,671,706	215,203,512	215,203,512	217,735,318	217,735,318
-	-	-	-	-	-	-	-	-
703,279	703,279	703,279	703,279	703,279	703,279	703,279	703,279	703,279
150,703	150,703	150,703	150,703	150,703	150,703	150,703	150,703	150,703

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11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534
4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740	4,018,740
60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096	60,281,096
49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562	49,229,562
-	-	-	-	-	-	-	-	-
37,676	37,676	37,676	37,676	37,676	37,676	37,676	37,676	37,676
-	-	-	-	-	-	-	-	-
32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824	32,129,824
9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044	9,874,044
110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515	110,515
2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731	2,357,731
7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222	7,585,222
-	-	-	-	-	-	-	-	-
793,299	793,299	793,299	793,299	793,299	793,299	793,299	793,299	793,299
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810	87,883,810
35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324	35,668,324
-	-	-	-	-	-	-	-	-
22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392	22,558,392
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
985,645	985,645	985,645	985,645	985,645	985,645	985,645	985,645	985,645
2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009	2,501,009
-	-	-	-	-	-	-	-	-
78,607	78,607	78,607	78,607	78,607	78,607	78,607	78,607	78,607
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
96,083,357	96,769,055	97,454,752	98,140,450	98,740,435	99,340,420	99,940,406	100,454,679	101,054,664
48,041,679	48,384,527	48,727,376	49,070,225	49,370,218	49,670,210	49,970,203	50,227,339	50,527,332
49,256,136	49,610,890	49,949,067	50,303,821	50,620,447	50,920,497	51,237,123	51,499,044	51,799,094
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CONFIDENTIAL © Analysys Mason

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-	-	-	-	-	-	-	-	-
1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117	1,034,117
2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812	2,841,812
-	-	-	-	-	-	-	-	-
22,505	22,505	22,505	22,505	22,505	22,505	22,505	22,505	22,505
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
44,306,605	44,306,605	44,306,605	44,306,605	44,306,605	44,306,605	44,306,605	44,306,605	44,306,605
134,027,482	134,027,482	134,027,482	134,027,482	134,027,482	134,027,482	134,027,482	134,027,482	134,027,482
8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100	8,385,100
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110	226,054,110
50,399,819	50,399,819	50,399,819	50,399,819	50,399,819	50,399,819	50,399,819	50,399,819	50,399,819
6,216,990	6,216,990	6,216,990	6,216,990	6,216,990	6,216,990	6,216,990	6,216,990	6,216,990
5,422,285	5,422,285	5,422,285	5,422,285	5,422,285	5,422,285	5,422,285	5,422,285	5,422,285
29,781,775	30,000,394	30,015,766	30,015,766	30,015,766	30,031,138	30,249,757	30,265,129	30,265,129
350,374	352,946	353,127	353,127	353,127	353,308	355,879	356,060	356,060
1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871	1,687,871
225,049	225,049	225,049	225,049	225,049	225,049	225,049	225,049	225,049
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
192,900	192,900	192,900	192,900	192,900	192,900	192,900	192,900	192,900
281,312	281,312	281,312	281,312	281,312	281,312	281,312	281,312	281,312
6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425	6,653,425
675,148	675,148	675,148	675,148	675,148	723,373	723,373	723,373	723,373
6,590,733	6,590,733	6,751,483	6,751,483	6,751,483	6,912,232	6,912,232	6,912,232	6,912,232
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
TRUE	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*	*TRUE*
18.96%	17.93%	16.97%	16.05%	15.19%	14.37%	13.59%	12.86%	12.17%
1,581,628,962	1,589,695,587	1,591,265,569	1,595,180,676	1,596,397,280	1,600,380,597	1,601,818,393	1,605,399,082	1,606,599,109
299,816,127.03	285,094,843.42	269,987,136.07	256,056,201.58	242,432,818.57	229,931,631.84	217,727,724.13	206,446,954.22	195,460,049.38
##############	##############	##############	##############	##############	##############	##############	##############	##############
450,441,029.81	##############	675,941,701.85	440,435,254.69	335,967,672.95	356,905,236.24	471,110,412.71	342,841,029.90	279,470,232.62
152,275,297,808	154,293,733,951	154,969,675,653	155,410,110,907	155,746,078,580	156,102,983,816	156,574,094,229	156,916,935,259	157,196,405,492
11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534	11,051,534
512,571,002	519,254,327	519,450,723	521,982,529	521,982,529	524,758,956	524,980,147	527,527,506	527,527,506
64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511	64,337,511
635,754,776	637,138,076	638,504,799	639,888,100	641,104,704	642,304,731	643,521,336	644,554,667	645,754,694
357,914,138	357,914,138	357,921,001	357,921,001	357,921,001	357,927,864	357,927,864	357,927,864	357,927,864
-	-	-	-	-	-	-	-	-
3,156,291.219	3,156,291.219	3,156,291.219	3,156,291.219	3,156,291.219	3,156,291.219	3,156,291.219	3,156,291.219	3,156,291.219
-	-	-	-	-	-	-	-	-
133,339.700	133,339.700	134,432.648	134,432.648	134,432.648	135,525.597	135,525.597	135,525.597	135,525.597
-	-	-	-	-	-	-	-	-

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63,937.479	63,937.479	63,937.479	63,937.479	63,937.479	63,937.479	63,937.479	63,937.479	63,937.479
- 16,570,528.901	- 16,570,528.901	- 16,570,528.901	- 16,570,528.901	- 16,570,528.901	- 16,570,528.901	- 16,570,528.901	- 16,570,528.901	- 16,570,528.901
- 700,033.425	- 700,033.425	- 705,771.404	- 705,771.404	- 705,771.404	- 711,509.382	- 711,509.382	- 711,509.382	- 711,509.382
- 335,671.765	- 335,671.765	- 335,671.765	- 335,671.765	- 335,671.765	- 335,671.765	- 335,671.765	- 335,671.765	- 335,671.765

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2048	2049	2050	
1.005	1.005	1.005	*Working_capital_uplift*

2048	2049	2050
-	-	-
50,497,976	50,497,976	50,497,976
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
3,171,078	3,171,078	3,171,078
16,648,161	16,648,161	16,648,161
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
7,731,051	7,731,051	7,731,051
2,577,017	2,577,017	2,577,017
-	-	-
7,731,051	7,731,051	7,731,051
-	-	-
5,606,142	5,606,142	5,606,142
11,212,284	11,212,284	11,212,284
17,350,909	17,350,909	17,350,909
56,061,419	56,061,419	56,061,419
-	-	-

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36,022,334	36,022,334	36,022,334
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1,205,622	1,205,622	1,205,622
361,687	361,687	361,687
2,431,338	2,451,431	2,451,431
36,169	36,169	36,169
-	-	-
60,281,096	60,281,096	60,281,096
136,161	137,259	137,259
714,843	720,608	720,608
-	-	-
24,281,721	24,281,721	24,281,721
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
64,237	64,237	64,237
337,244	337,244	337,244
602,811	602,811	602,811
301,405	301,405	301,405
1,085,060	1,085,060	1,085,060
-	-	-
843,935	843,935	843,935
884,123	884,123	884,123
-	-	-
-	-	-
-	-	-
-	-	-
90,422	90,422	90,422
-	-	-
-	-	-
23,208,222	23,208,222	23,208,222
220,267,124	220,267,124	222,798,930
-	-	-
703,279	703,279	703,279
150,703	150,703	150,703

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11,051,534	11,051,534	11,051,534
4,018,740	4,018,740	4,018,740
60,281,096	60,281,096	60,281,096
49,229,562	49,229,562	49,229,562
-	-	-
37,676	37,676	37,676
-	-	-
32,129,824	32,129,824	32,129,824
9,874,044	9,874,044	9,874,044
110,515	110,515	110,515
2,357,731	2,357,731	2,357,731
7,585,222	7,585,222	7,585,222
-	-	-
793,299	793,299	793,299
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
87,883,810	87,883,810	87,883,810
35,668,324	35,668,324	35,668,324
-	-	-
22,558,392	22,558,392	22,558,392
-	-	-
-	-	-
-	-	-
-	-	-
985,645	985,645	985,645
2,501,009	2,501,009	2,501,009
-	-	-
78,607	78,607	78,607
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
101,568,937	102,168,922	102,683,195
50,784,469	51,084,461	51,341,598
52,061,015	52,377,641	52,639,563
-	-	-

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-	-	-
1,034,117	1,034,117	1,034,117
2,841,812	2,841,812	2,841,812
-	-	-
22,505	22,505	22,505
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
44,306,605	44,306,605	44,306,605
134,027,482	134,027,482	134,027,482
8,385,100	8,385,100	8,385,100
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-	-	-
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-	-	-
-	-	-
-	-	-
226,054,110	226,054,110	226,054,110
50,399,819	50,399,819	50,399,819
6,216,990	6,216,990	6,216,990
5,422,285	5,422,285	5,422,285
30,265,129	30,280,501	30,731,403
356,060	356,241	361,546
1,687,871	1,687,871	1,687,871
225,049	225,049	225,049
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192,900	192,900	192,900
281,312	281,312	281,312
6,653,425	6,653,425	6,653,425
723,373	723,373	723,373
6,912,232	7,072,982	7,072,982
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TRUE	*TRUE*	*TRUE*	*Network_expenses_by_category*
11.51%	10.89%	10.30%	
1,610,164,246	1,611,584,109	1,615,605,454	
185,329,977.88	175,490,448.62	166,441,197.18	
#############	#############	2,025,234,864.00	
247,795,259.18	262,445,641.44	208,641,605.26	
157,444,200,751	157,706,646,392	157,915,287,998	*Cumulative_discounted_expenditures*
11,051,534	11,051,534	11,051,534	
530,059,312	530,255,708	533,243,721	
64,337,511	64,337,511	64,337,511	
646,788,025	648,004,629	649,037,960	
357,927,864	357,934,727	357,934,727	
-	-	-	
3,156,291.219	3,156,291.219	3,156,291.219	
-	-	-	
135,525.597	136,618.545	136,618.545	
-	-	-	

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63,937.479	63,937.479	63,937.479
- 16,570,528.901	- 16,570,528.901	- 16,570,528.901
- 711,509.382	- 717,247.361	- 717,247.361
- 335,671.765	- 335,671.765	- 335,671.765

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Total costs saved due to trench sharin

Costs saved due to trench sharing are passed to the access model

Level of trench sharing	Cost covered by core	1991	1992	1993	1994
0km	50%				

Total annual capex - zero trench sharing

Network element	Category	1991	1992	1993	1994
AN-Common: Site rental for core - PSTN	Accommodatior	-	-	-	-
spare	0	-	-	-	-

Total annual capex - trench sharing scenario

Network element	Category	1991	1992	1993	1994
AN-Common: Site rental for core - PSTN	Accommodatior	-	-	-	-
spare	0	-	-	-	-

Total annual capex - trench cost to be transferred

Network element	Category	1991	1992	1993	1994
AN-Common: Site rental for core - PSTN	Accommodatior	-	-	-	-
spare	0	-	-	-	-

Category totals - capex

Category	1991	1992	1993	1994
Accommodation: civils	-	-	-	-
Accommodation: power systems	-	-	-	-
Voice platform	-	-	-	-
Broadband platform	-	-	-	-
Converged platform	-	-	-	-
Data network	-	-	-	-
Transmission trenching, ducting and cabling	-	-	-	-
Other core platforms	-	-	-	-
Transmission active equipment	-	-	-	-
Access trenching and ducting	-	-	-	-
Access network cabling	-	-	-	-
Other access	-	-	-	-
Other	-	-	-	-
Overheads	-	-	-	-
n/a	-	-	-	-
CPE	-	-	-	-

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Cost_cat30		-	-	-	-
Are all costs categorised?	TRUE	TRUE	TRUE	TRUE	TRUE

Total annual opex - zero trench sharing

Network element	Category	1991	1992	1993	1994
AN-Common: Site rental for core - PSTN	Accommodation	-	30,750,258	30,750,258	30,772,819
spare	0	-	-	-	-

Total annual opex - trench sharing scenario

Network element	Category	1991	1992	1993	1994
AN-Common: Site rental for core - PSTN	Accommodation	-	30,750,258	30,750,258	30,772,819
spare	0	-	-	-	-

Total annual opex - trench cost to be transferred

Network element	Category	1991	1992	1993	1994
AN-Common: Site rental for core - PSTN	Accommodation	-	-	-	-
spare	0	-	-	-	-

Category totals - opex

Category		1991	1992	1993	1994
Accommodation: civils		-	-	-	-
Accommodation: power systems		-	-	-	-
Voice platform		-	-	-	-
Broadband platform		-	-	-	-
Converged platform		-	-	-	-
Data network		-	-	-	-
Transmission trenching, ducting and cabling		-	-	-	-
Other core platforms		-	-	-	-
Transmission active equipment		-	-	-	-
Access trenching and ducting		-	-	-	-
Access network cabling		-	-	-	-
Other access		-	-	-	-
Other		-	-	-	-
Overheads		-	-	-	-
n/a		-	-	-	-
CPE		-	-	-	-
Cost_cat30		-	-	-	-
Are all costs categorised?	TRUE	TRUE	TRUE	TRUE	TRUE

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1995	1996	1997	1998	1999	2000	2001	2002	2003

1995	1996	1997	1998	1999	2000	2001	2002	2003
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1995	1996	1997	1998	1999	2000	2001	2002	2003
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1995	1996	1997	1998	1999	2000	2001	2002	2003
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1995	1996	1997	1998	1999	2000	2001	2002	2003
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TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

1995	1996	1997	1998	1999	2000	2001	2002	2003
30,772,819	30,772,819	30,772,819	30,772,819	31,109,374	29,886,082	28,713,392	28,192,924	27,434,240
-	-	-	-	-	-	-	-	-

1995	1996	1997	1998	1999	2000	2001	2002	2003
30,772,819	30,772,819	30,772,819	30,772,819	31,109,374	29,886,082	28,713,392	28,192,924	27,434,240
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1995	1996	1997	1998	1999	2000	2001	2002	2003
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1995	1996	1997	1998	1999	2000	2001	2002	2003
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TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

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2004	2005	2006	2007	2008	2009	2010	2011	2012

2004	2005	2006	2007	2008	2009	2010	2011	2012
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2004	2005	2006	2007	2008	2009	2010	2011	2012
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2004	2005	2006	2007	2008	2009	2010	2011	2012
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2004	2005	2006	2007	2008	2009	2010	2011	2012
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TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

2004	2005	2006	2007	2008	2009	2010	2011	2012
27,003,120	26,559,635	25,803,714	25,448,336	24,318,363	23,580,891	22,177,428	21,451,168	20,774,922
-	-	-	-	-	-	-	-	-

2004	2005	2006	2007	2008	2009	2010	2011	2012
27,003,120	26,559,635	25,803,714	25,448,336	24,318,363	23,580,891	22,177,428	21,451,168	20,774,922
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2004	2005	2006	2007	2008	2009	2010	2011	2012
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2004	2005	2006	2007	2008	2009	2010	2011	2012
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TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

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2013	2014	2015	2016	2017	2018	2019	2020	2021

2013	2014	2015	2016	2017	2018	2019	2020	2021
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2013	2014	2015	2016	2017	2018	2019	2020	2021
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2013	2014	2015	2016	2017	2018	2019	2020	2021
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2013	2014	2015	2016	2017	2018	2019	2020	2021
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TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

2013	2014	2015	2016	2017	2018	2019	2020	2021
17,331,250	14,974,340	12,391,278	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

2013	2014	2015	2016	2017	2018	2019	2020	2021
17,331,250	14,974,340	12,391,278	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

2013	2014	2015	2016	2017	2018	2019	2020	2021
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2013	2014	2015	2016	2017	2018	2019	2020	2021
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2022	2023	2024	2025	2026	2027	2028	2029	2030
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2022	2023	2024	2025	2026	2027	2028	2029	2030
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2022	2023	2024	2025	2026	2027	2028	2029	2030
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2022	2023	2024	2025	2026	2027	2028	2029	2030
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2022	2023	2024	2025	2026	2027	2028	2029	2030
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2022	2023	2024	2025	2026	2027	2028	2029	2030
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2031	2032	2033	2034	2035	2036	2037	2038	2039
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2031	2032	2033	2034	2035	2036	2037	2038	2039
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2031	2032	2033	2034	2035	2036	2037	2038	2039
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2031	2032	2033	2034	2035	2036	2037	2038	2039
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2031	2032	2033	2034	2035	2036	2037	2038	2039
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2031	2032	2033	2034	2035	2036	2037	2038	2039
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TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

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2040	2041	2042	2043	2044	2045	2046	2047	2048

2040	2041	2042	2043	2044	2045	2046	2047	2048
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

2040	2041	2042	2043	2044	2045	2046	2047	2048
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

2040	2041	2042	2043	2044	2045	2046	2047	2048
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

2040	2041	2042	2043	2044	2045	2046	2047	2048
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

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-	-	-	-	-	-	-	-	-
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

2040	2041	2042	2043	2044	2045	2046	2047	2048
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

2040	2041	2042	2043	2044	2045	2046	2047	2048
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

2040	2041	2042	2043	2044	2045	2046	2047	2048
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

2040	2041	2042	2043	2044	2045	2046	2047	2048
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

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2049	2050

2049	2050
-	-
-	-

Network_investment_by_element.Trench_zero

2049	2050
-	-
-	-

Network_investment_by_element.Trench_scen

2049	2050
-	-
-	-

Network_investment_by_element.Trench_transfer

2049	2050
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

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-	-
TRUE	TRUE

2049	2050
-	-
-	-

Network_expenses_by_element.Trench_zero

2049	2050
-	-
-	-

Network_expenses_by_element.Trench_scen

2049	2050
-	-
-	-

Network_expenses_by_element.Trench_transfer

2049	2050
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
TRUE	TRUE

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Output for charts

	Source	Note	Period	Units	Check	2000	2001	2002	2003
C1 MSAN deployment profiles									
Access Node (< 500 buildings)									
Access Node (< 1000 buildings)									
Access Node (< 2000 buildings)									
Access Node (< 5000 buildings)									
Access Node (< 15000 buildings)									
C2 Traffic migration profiles									
Voice traffic migration profile									
Data traffic migration profile									
C3 BHE loading									
TDM Access switching						247,723	243,126	219,631	205,570
TDM Distribution switching						242,435	238,501	215,794	202,322
TDM Core switching						180,638	190,025	180,672	178,320
C4 BHGbps loading, all IP traffic									
IP Access transmission						0	3	30	4,886
IP Distribution transmission						0	3	30	4,745
IP Core transmission						-	-	-	1,629
C5 BHGbps loading, data connecticity services									
Data services (sublocal VPN, contended)						-	-	-	20
Data services (local VPN, contended)						-	-	-	75
Data services (regional VPN, contended)						-	-	-	695
Data services (national VPN, contended)						-	-	-	1,580
C6 BHGbps loading, xDSL									
xDSL (direct, contended)						0	2	26	84
xDSL (indirect, contended)						-	-	-	42
C7 TDM Distribution E1s									

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TDM Distribution transmission for voice (E1s)	14,616	14,328	12,960	12,168
TDM Distribution transmission for leased lines services (E1 equivalents)	44,957	48,306	43,830	39,130

C8 TDM Interconnection E1s

Incoming traffic ports	-	-	-	3,200
Outgoing traffic ports	-	-	-	4,480

C9 STM1 Trunk Gateways units

Assuming 5 PoIs
Assuming 13 PoIs

C10 Accomodation costs to PSTN platform

Accomodation costs to PSTN platform				
Access node	61%	59%	57%	54%
Distribution node	65%	64%	62%	60%
Core node	-%	-%	-%	64%

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2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
						0%	0%	0%	0%	0%
						0%	0%	0%	0%	0%
						0%	0%	0%	0%	0%
						0%	0%	0%	0%	0%
						0%	0%	0%	0%	0%
						0.0%	0.0%	0.0%	73.0%	79.6%
						0.0%	0.0%	0.0%	71.4%	78.4%
179,906	152,225	126,788	106,848	88,778	67,040	58,701	49,335	41,841	9,344	5,929
177,367	150,152	125,100	105,447	87,609	66,152	57,949	48,742	41,359	9,240	5,868
164,998	142,216	120,422	103,050	86,746	66,489	58,852	50,254	42,514	8,829	5,701
19,965	40,545	55,837	64,733	90,821	126,181	174,274	233,720	316,917	432,243	573,179
19,561	40,717	58,672	72,971	110,722	164,125	246,450	353,565	503,266	705,441	953,455
6,655	15,505	23,653	28,968	45,703	67,213	103,981	148,453	210,636	293,901	397,161
66	108	120	105	112	115	111	92	72		
246	407	440	389	418	430	417	345	272		
2,907	4,252	4,365	4,442	4,418	5,090	4,598	4,185	3,589		
6,436	14,302	19,699	19,743	24,741	28,178	30,751	27,734	23,599		
398	1,099	2,364	5,359	8,538	14,291	19,335	29,333	42,014	56,603	
199	1,099	3,546	8,038	17,075	28,582	48,338	73,332	105,036	141,508	

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10,432	9,128	7,824	6,520	5,868	4,564	3,912	3,912	3,260	1,304	652
43,985	52,365	51,582	40,374	43,061	52,238	53,033	55,564	50,697	50,253	55,797
3,200	3,200	2,560	2,560	2,560	1,920	1,920	1,920	1,920	640	640
4,480	3,840	3,840	3,200	2,560	2,560	1,920	1,920	1,920	640	640
						5	18	21	27	29
						13	21	25	34	34
52%	50%	48%	46%	43%	41%	40%	40%	40%	34%	30%
59%	58%	58%	58%	57%	57%	57%	57%	56%	56%	56%
64%	63%	63%	63%	63%	63%	62%	62%	60%	35%	36%

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2015	2016	2017	2018	2019	2020
0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%
86.1%	92.7%	100.0%	100.0%	100.0%	100.0%
85.3%	92.2%	100.0%	100.0%	100.0%	100.0%
3,410	1,582	-	-	-	
3,378	1,568	-	-	-	
3,353	1,581	-	-	-	
744,047	943,202	1,157,386	1,367,152	1,588,578	
1,250,487	1,595,245	1,961,256	2,322,939	2,702,952	
520,888	664,498	817,092	967,836	1,126,241	

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652	-	-	-	-	
62,596	-	-	-	-	
640	-	-	-	-	
640	-	-	-	-	
31	31	32	34	35	
34	34	38	38	38	
25%	-%	-%	-%	-%	-%
56%	-%	-%	-%	-%	-%
35%	-%	-%	-%	-%	-%

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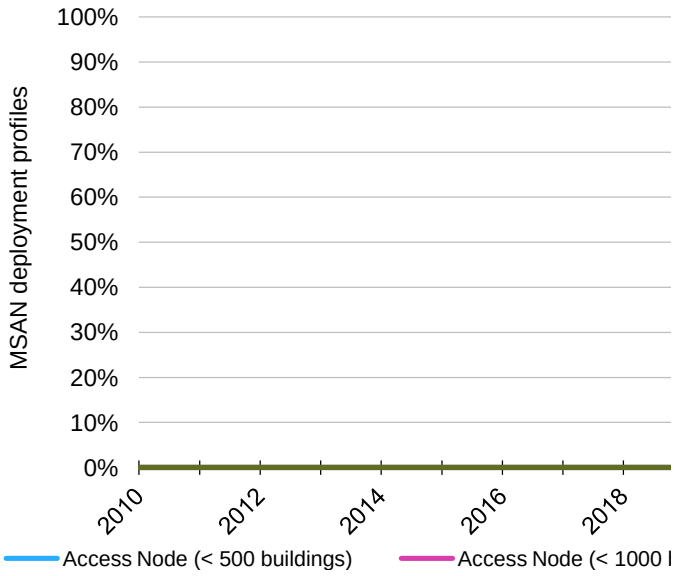
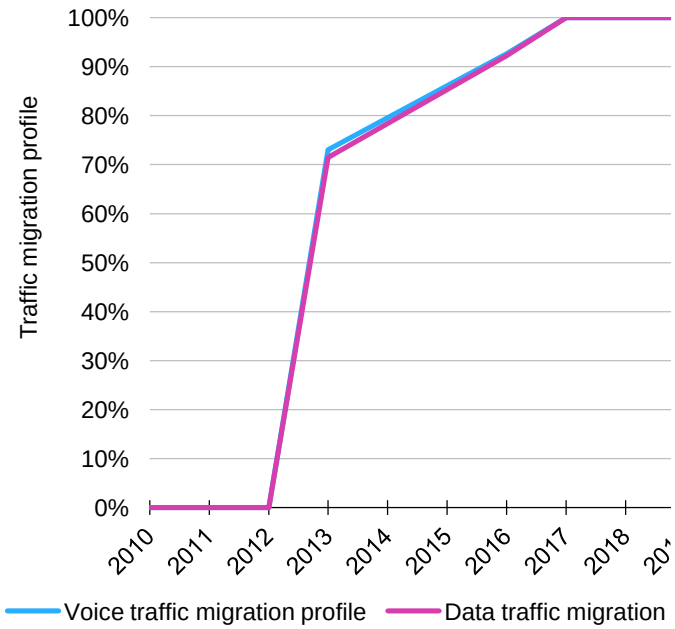
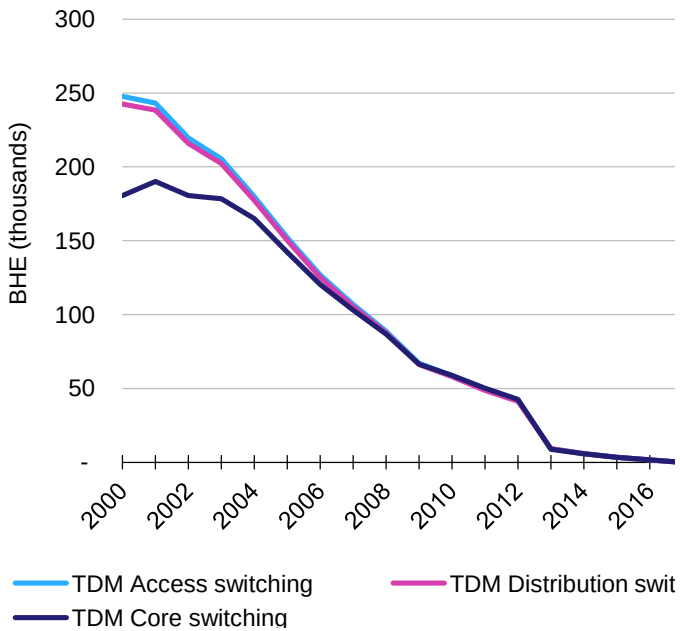
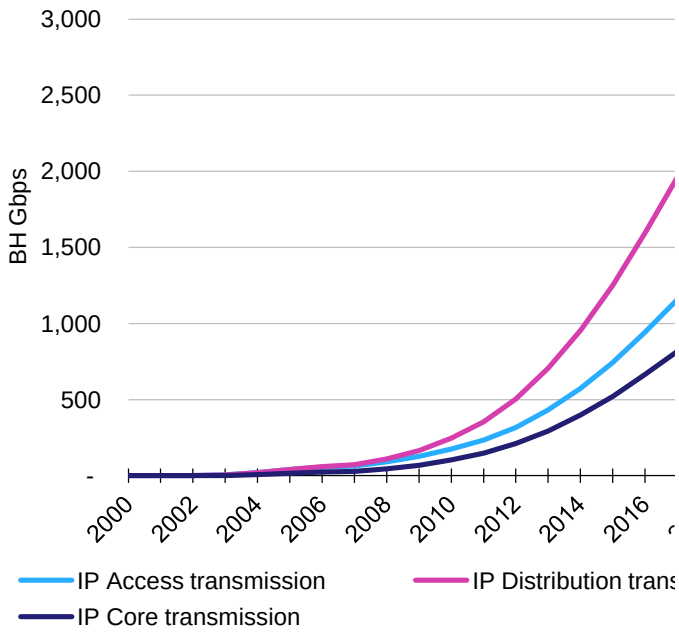
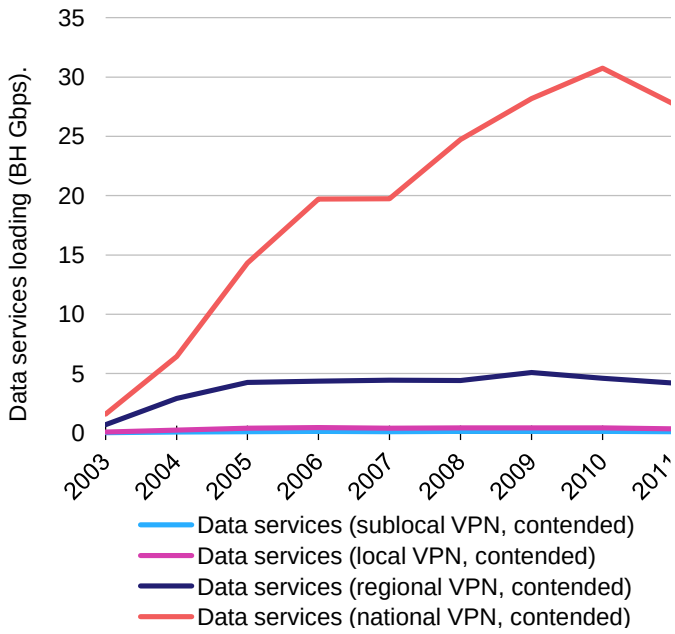
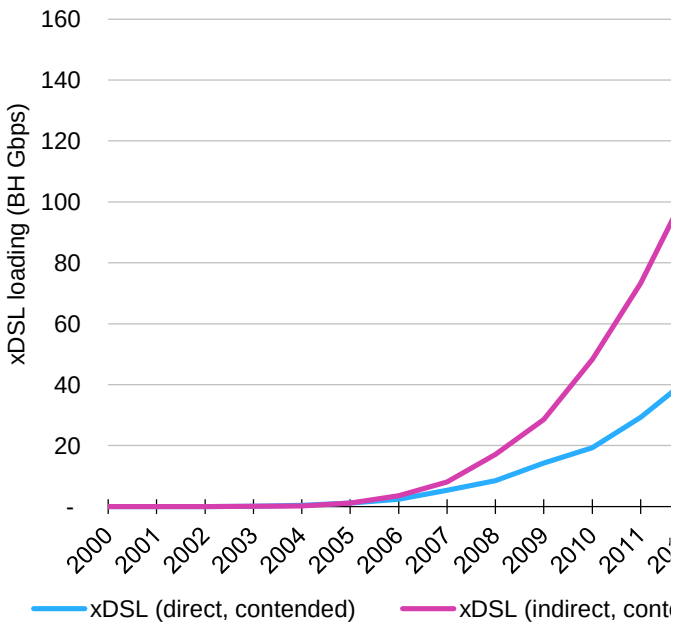

MSAN deployment profiles
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
2010
2012
2014
2016
2018
Access Node (< 500 buildings)
Access Node (< 1000 l

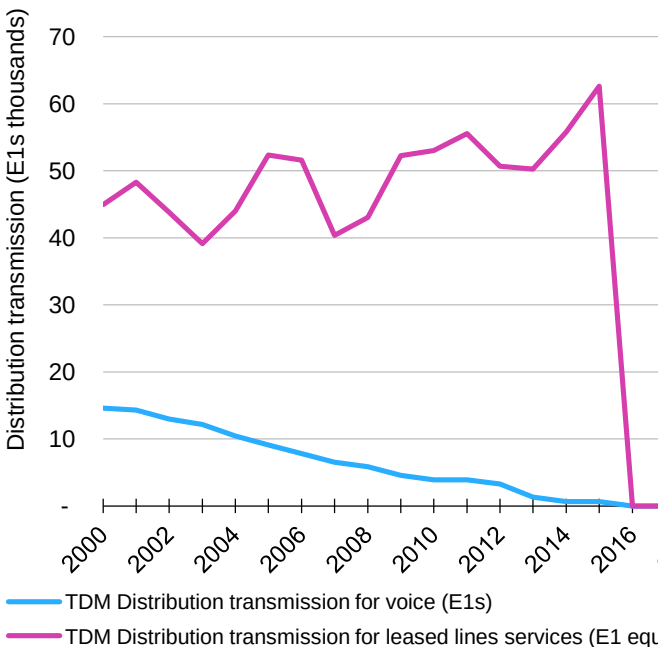

Traffic migration profile
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
2010
2011
2012
2013
2014
2015
2016
2017
2018
Voice traffic migration profile
Data traffic migration

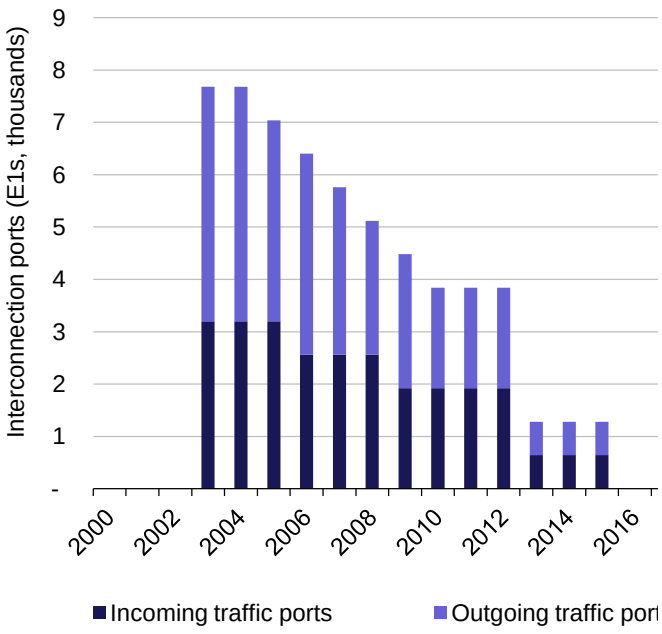

300
250
200
150
100
50
-
BHE (thousands)
2000
2002
2004
2006
2008
2010
2012
2014
2016
TDM Access switching
TDM Distribution swit
TDM Core switching

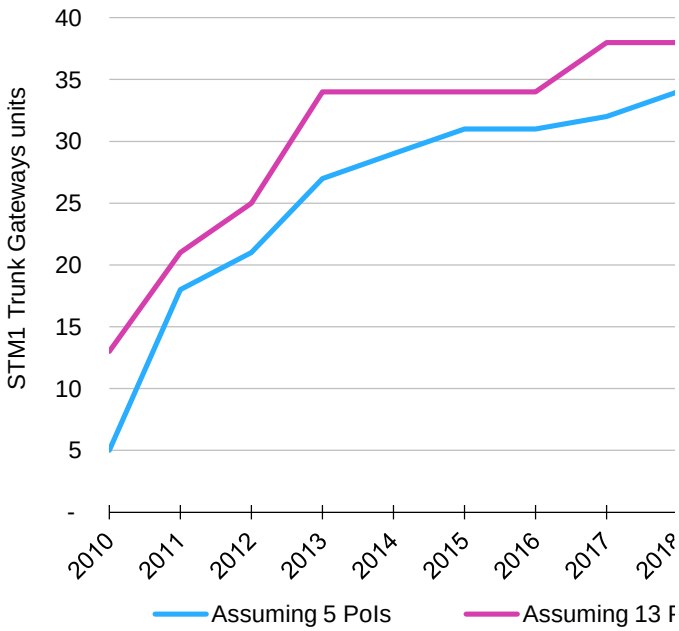

3,000
2,500
2,000
1,500
1,000
500
-
BH Gbps
2000
2002
2004
2006
2008
2010
2012
2014
2016
IP Access transmission
IP Distribution trans
IP Core transmission


Data services loading (BH Gbps).
35
30
25
20
15
10
5
0
2003
2004
2005
2006
2007
2008
2009
2010
2011
Data services (sublocal VPN, contended)
Data services (local VPN, contended)
Data services (regional VPN, contended)
Data services (national VPN, contended)


160
140
120
100
80
60
40
20
-
xDSL loading (BH Gbps)
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
xDSL (direct, contended)
xDSL (indirect, cont


Distribution transmission (E1s thousands)
70
60
50
40
30
20
10
-
2000
2002
2004
2006
2008
2010
2012
2014
2016
TDM Distribution transmission for voice (E1s)
TDM Distribution transmission for leased lines services (E1 equ


Interconnection ports (E1s, thousands)
9
8
7
6
5
4
3
2
1
-
2000
2002
2004
2006
2008
2010
2012
2014
2016
Incoming traffic ports
Outgoing traffic port


STM1 Trunk Gateways units
40
35
30
25
20
15
10
5
-
2010
2011
2012
2013
2014
2015
2016
2017
Assuming 5 PoIs