FINAL REPORT OF THE JOINT COMMITTEE

IN COMPLIANCE WITH ORDER DATED 11/02/2019 IN THE HON'BLE NGT MATTER APPEAL NO. 122/2018, (PB) [(EARLIER APPEAL NO. 09/2014 (WZ)]

TITLED AS "ANIL THARTHARE VS THE SECRETARY, ENVIRONMENT DEPARTMENT, GOVT. OF MAHARASHTRA & ORS."

FOR SUBMISSION TO
THE HON'BLE NGT
WESTERN ZONE BENCH, PUNE

BY

CENTRAL POLLUTION CONTROL BOARD
REGIONAL DIRECTORATE, PUNE

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
WESTERN ZONE BENCH, PUNE

APPEAL NO. 122 OF 2018 (PB)

[EARLIER APPEAL NO. 09/2014 (WZ)]

IN THE MATTER OF:

ANIL THARTHARE — **APPELLANT(S)**

VERSUS

THE SECRETARY, ENVT. DEPT. GOVT. OF MAHARASHTRA & ORS. — **RESPONDENT(S)**

INDEX

S. No.	Particulars	Page No.
1.	Report of The Joint Committee In Compliance With Order Dated 11/02/2019 In The Matter Appeal No. 122/2018, (PB) [(Earlier Appeal No. 09/2014 (WZ)], Anil Tharthare Vs The Secretary, Environment Department, Govt. Of Maharashtra & Ors.	1-41
2.	**Annexure-1**: Copy of the Hon'ble NGT order dated 11/02/2019	
3.	**Annexure-2**: Copy of the Hon'ble Supreme Court order dated 08/03/2019	
4.	**Annexure-3**: Copy of the Hon'ble Supreme Court order dated 03/12/2019	
5.	**Annexure-4**: Copy of the Hon'ble NGT order dated 07/04/2022	
6.	**Annexure-5**: Copy of Environmental Clearance dated 02/05/2013 for redevelopment of Oriana Residential Project, Bandra	
7.	**Annexure-6**: Copy of Amended Environmental Clearance dated 13/03/2014 for redevelopment of Oriana Residential Project, Bandra	
8.	**Annexure-7**: Calculation of emission load due to building construction activities (area sources) and vehicular movement (line sources) during construction stage	
9.	**Annexure-8**: Calculation of emission load due to operation of DG set (point sources) during construction stage	
10.	**Annexure-9**: Calculation of emission load due to vehicular movement (line sources) and residential emission due to use of domestic fuel i.e. LPG in the household kitchens (area sources) during operation stage	
11.	**Annexure-10**: Copy of CAAQMS data of Bandra	
12.	**Annexure-11**: Copy of email dated 30/07/2022 from MCGM regarding water supply, wastewater and solid waste generation in Bandra	
13.	**Annexure-12**: Copy of email dated 21/09/2022 from MCGM regarding water supply connection of Oriana Residential Project, Bandra	
14.	**Annexure-13**: Water demand and supply calculation of Oriana Residential Project, Bandra	
15.	**Annexure-14**: Copy of CTO dated 01/07/2021 issued by MPCB for Bandra STP	
16.	**Annexure-15**: Copy of email dated 05/09/2022 from MPCB regarding analysis results of Bandra STP for the period July, 2021 to July, 2022	
17.	**Annexure-16**: Copy of email dated 02/09/2022 from MCGM regarding solid waste management at Oriana Residential Project, Bandra	
18.	**Annexure-17**: Copy of real time ambient noise data of Bandra	
19.	**Annexure-18**: Copy of email dated 21/09/2022 from MCGM regarding various building approvals of Oriana Residential Project, Bandra	
20.	**Annexure-19:** Copy of CTE dated 02/05/2013 issued by MPCB for Oriana	

	Residential Project, Bandra	
21.	**Annexure-20:** Copy of amended CTE dated 30/05/2015 issued by MPCB for Oriana Residential Project, Bandra	
22.	**Annexure-21:** Copy of CTO dated 08/09/2015 issued by MPCB for Oriana Residential Project, Bandra	
23.	**Annexure-22:** Copies of OM issued by MoEF&CC dated 07/07/2021 & 28/01/2022 – An Standard Operating Procedure (SoP) for identification and handling of violation cases under EIA Notification, 2006	

(Bharat K.Sharma)
Regional Director
CPCB, Regional Directorate – Pune

Date: December 02nd,2022
Place: Pune

REPORT OF THE JOINT COMMITTEE IN COMPLIANCE WITH ORDER DATED 11/02/2019 IN THE HON'BLE NGT MATTER APPEAL NO. 122/2018, (PB) [(EARLIER APPEAL NO. 09/2014 (WZ)], ANIL THARTHARE VS THE SECRETARY, ENVIRONMENT DEPARTMENT, GOVT. OF MAHARASHTRA & ORS.

1.0 Background

The Hon'ble National Green Tribunal (NGT) in the matter of Appeal No. 122 of 2018 (PB) [(Earlier Appeal No. 09/2014 (WZ)] titled as Anil Tharthare vs The Secretary, Envt. Dept. Govt. of Maharashtra & Ors. is about the appeal against order dated 13/03/2014 passed by the Principal Secretary, Environment-cum-Member Secretary, State Level Environment Impact Assessment Authority (SEIAA), State of Maharashtra. The said order dated 13/03/2014 'amendment' to the Environment Clearance (EC) dated 02/05/2013 was granted to M/s Resilience Realty Pvt. Ltd., (hereinafter referred as the project proponent) for proposed expansion of redevelopment of 'Oriana Residential Project' on plot bearing C.T.S. No. 646, 646 (Pt.) of village Bandra at Gandhinagar, Bandra East, Mumbai – 400050.

The Hon'ble NGT in the aforesaid matter passed order dated 11/02/2019 directing vide para 33 of the said order that a five-member Expert Committee comprising of two representatives of CPCB (one engineer and one scientist), one representative of NEERI and two members of SEAC (one engineer and one scientist) shall carry out carrying capacity study of the area for relevant environment parameters and impact of such expansion on already congested and stressed areas. The Committee may suggest remedial measures including action against violators of law who complete projects in violation of mandatory provisions making the situation irreversible, parameters for appraisal of such projects even if such projects are within FSI when cities are already highly congested with no sufficient space for traffic and open areas and the cost of restoration of environment. The expenses of the Committee shall be initially borne by the State Pollution Control Board which may be recovered from the project proponent who has violated the law. Copy of the Hon'ble NGT order dated 11/02/2019 is given at **Annexure-1** for kind reference.

Meanwhile, the project proponent (PP) filed Civil Appeal No(s). 2435/2019 titled Key Stone Realtors Versus Anil V. Tharthare & Ors. in the Hon'ble Supreme Court of India. The Hon'ble Supreme Court passed order dated 08/03/2019 that in the meantime, the order of the Hon'ble NGT dated 11/02/2019 shall remain stayed.

Thereafter, the Hon'ble Supreme Court vide order dated 03/12/2019 dismissed the appeal upholding the directions of the Hon'ble NGT and directed the committee to continue its evaluation of the appellant's project so as to bring its environmental impact as close as possible to that contemplated in the environmental clearance dated 02/05/2013 and also suggest the compensatory exaction to be imposed on the appellant. Copy of the aforesaid orders dated 08/03/2019 and dated 03/12/2019 of the Hon'ble Supreme Court of India are given at **Annexure-2** and **Annexure-3** respectively. The Hon'ble NGT vide its order dated 07/04/2022 directed to file report of the committee. Copy of Hon'ble NGT order dated 07/04/2022 is given at **Annexure-4.**

2.0 Approach

Subsequent to the aforesaid order dated 03/12/2019 of the Hon'ble Supreme Court, CPCB constituted five-member joint committee on 16/12/2019 in accordance with Hon'ble NGT order dated 11/02/2019 having the following officials:

i. Shri Nishchal C., Senior Environmental Engineer (Scientist 'D'), CPCB
ii. Shri K. N. Das, Scientist 'C', CPCB[#]
iii. Dr. Bharat Bhushan, Expert Member, SEAC-2*
iv. Shri Hiten Sethi, Expert Member, SEAC-2*
v. Dr. Ritesh Vijay, Scientist, NEERI

Earlier Shri K. N. Das, Scientist 'C' who superannuated from the service of CPCB on 31/08/2022 and subsequently replaced by Dr. C. K. Dixit, Scientist 'C' from CPCB.

* Dr. Bharat Bhushan, Expert Member, SEAC-2 and Shri Hiten Sethi, Expert Member, SEAC-2 were replaced by Dr. Rakesh Kumar, Chairman, SEAC-1 and Shri Ramesh Balkrishna Bambale, Expert Member, SEAC-2 in this joint committee subsequent to notification on reconstitution of SEAC, Maharashtra vide MoEF&CC Notification S. O. 107(E), dated 11/01/2021 & S.O. 3104 (E), dated 06/07/2022 and Env. & Climate Change Dept. letter no. SEIAA2022/CR-45/SEIAA, dated 20/07/2022.

The joint committee constituted earlier held its first meeting on 08/01/2020. Besides other discussions/decisions, the committee opined that in order to assess the desired carrying capacity, there may be requirement of various baseline data related to various environmental attributes and application of technical tools and, therefore, there is need to engage a reputed scientific organization/ academic institution in this regard. Accordingly, after delineating the objectives, scope and Terms of Reference (ToR); MPCB was requested on 31/01/2020 to engage a reputed scientific organization/ academic institution for executing the aforesaid study.

MPCB informed that IIT Bombay, CSIR NEERI, Pvt. consultant, etc. were immediately consulted for engaging them to execute the work with the scope of study as conveyed by the joint committee. However, award of work could not be materialized by MPCB. The joint committee also held its meeting on 05/06/2020 and also on 12/11/2020, wherein IIT Bombay was also invited for finalization of ToR. IIT Bombay didn't respond thereafter. The matter was also subsequently followed-up with MPCB on 10/10/2021 and 28/04/2022. Finally, Institute of Chemical Technology (ICT), Mumbai, was engaged by MPCB vide letter no. MPCB/220712FTS0106, dated 12/07/2022 with project duration of two months and scope of the study as conveyed by the joint committee.

Upon intimation of engagement of ICT Mumbai, the joint committee (present re-constituted committee) held its meeting on 18/07/2022. Representative from ICT-Mumbai also made presentation about their approach and methodology in accomplishing the study. MPCB also participated in the said meeting. During the meeting, it was deliberated that longer project duration may be required so as to consider seasonal environmental attributes in the carrying capacity study of the expanded project. The joint committee also deliberated on various data and information which will be required to carry out a systematic study of carrying capacity of the area. However, due to non-availability of such data and longer duration required for generating the same in such systematic carrying capacity study, the joint committee opined that carrying capacity and impacts of project expansion may be presented qualitatively with reasonable quantification (instead of comprehensive quantification) to

the Hon'ble NGT based on literature survey, available data, and reasonable parameters monitoring with an objective to accomplish the task as early as possible. Accordingly, the committee also revised the scope/methodology of the study in agreement with the ICT as below:

2.1 Scope/Methodology

(a) Collection and compilation of basic information about the residential project i.e. "Oriana Residential Project" at Gandhinagar, Bandra East, Mumbai:

- FSI/Non-FSI/Total Built up areas, configuration of the project, floors, nos. of dwelling units \and their types, amenities, parking area, green area, water supply sources, sewage generation & its management, solid waste generation & management, rain water harvesting system, solar panels, etc. in terms of both the phases i.e. pre and post expansion of the project including project surrounding features & infrastructures with maps.

(b) Carrying capacity and impact of project expansion from sanctioned total built-up area (BUA) of 32,395 m^2 to 40,480 m^2 in terms of the following environmental attributes:

a. Air environment

- Based on the availability of secondary data/historical data i.e. AAQM data of parameters viz. PM_{10} and $PM_{2.5}$ from the AAQM stations around the project site.
- Literature survey and emission factor based emission assessment during construction stage and after operation of the expanded project.

b. Water environment

- Source and quantification of water supply requirement, water supply demand & supply and their gap analysis in the project area, wastewater generation & their treatment, utilization & disposal of waste water, monitoring of waste water & treated waste water from

the project, connectivity to terminal STP & their performance (spare capacity, compliance with discharge standards, etc. of such STP), water quality in drains/rivers where terminal STP outlet is discharged, etc. including impacts on them due to project expansion.

c. Solid waste

- Solid waste generation & their management, environmental management & compliance of SLF where the solid waste from the project is disposed including impacts on them due to project expansion.

d. Noise environment

- Noise level monitoring & assessment in and around the project site and their compliance with the notified standards.

e. Traffic scenario

- Reconnaissance survey of roads near project site, traffic survey w.r.t. density and present scenario of congestion impact due to expanded project.

f. Remedial measures and their implementation

- Based on assessed impacts, remedial measures to be recommended including incorporating scope as suggested in the SEIAA approach paper dated 30/01/2019 titled “Approach for the said Assessment for Environmental Damage and Estimation of Remediation Costs For Building Construction Projects initiated without obtaining mandatory Environmental clearance (Violation Cases)”. Implementation plan may also be incorporated for such recommended remedial measures.

g. Cost of restoration of environment

Cost of restoration of environment may be assessed also taking into account of the aforesaid SEIAA approach paper and SOP for identification and handling of violation cases under the EIA

notification 2006 issued by MoEF&CC's OMs dated 07/7/2021 and 28/1/2022.

A site visit by members of the joint committee was also held on 26/07/2022 along with ICT-Mumbai and MPCB officials. Sampling of wastewater from inlet & outlet of STP was also carried out for its analysis.

ICT-Mumbai submitted its report on 02/09/2022 and meeting of the joint committee was held on 03/09/2022 through video conference to review the ICT-Mumbai's report.

The joint committee deliberated on the report submitted by ICT-Mumbai in association with its outsourced agency M/s Green Circle. It observed various shortcomings including that the report did not address the scope/methodology as suggested and agreed by the joint committee in its meeting held on 18/07/2022. The joint committee decided that taking into account the poor quality of report and in order to avoid further delay in compliance of the Hon'ble NGT order, the committee may itself prepare its report and submit to Hon'ble NGT in compliance to the order dated 11/02/2019. Observations/findings with conclusions & recommendations of this joint committee are presented in subsequent sections of this report.

3.0 About the project

The "Rustomjee Oriana" is located at CTS No. 646 (pt) of village Bandra at Gandhinagar, Bandra (E), Mumbai. The project site consists of total plot area of 4840 sq. m. M/s. Resilience Realty Pvt. Ltd. developed the construction project "Rustomjee Oriana". The project consists of two wings namely Wing A and Wing B (2 Basement + Ground + 2 Podium floors +Stilt+ 18 floors). The total construction area of the project is 40,480.88 sq.m.

The project received the environmental clearance (EC) in the year 2013 (Vide F. No. SEAC 2013/CR-215/TC-1 dated 02/05/2013) for construction of BUA 32,395.17 sq. m. (2 Basement + Ground + 2 Podium floors +Stilt (pt.)+ 1st (pt.) + 2nd (pt.) to 15th floors +

16th (pt.) floors)., later the Project Proponent (i.e. M/s. Resilience Realty Pvt. Ltd.) expanded the existing construction BUA from 32,395.17 sq. m. to 40,480.88 sq.m by adding additional two floors in existing building for which amendment in EC was granted by SEIAA Vide file no. SEAC-2013/CR.2015/TC-1 dated 13/03/2014. Copies of EC dated 02/05/2013 and amended EC dated 13/03/2014 is given at **Annexure-5 and 6** respectively.

The Hon'ble NGT vide its order dated 11/02/2019 pronounced that question for consideration is whether grant of EC to the expansion of the project by impugned order by treating it as 'amendment' is in violation of EIA Notification, 2006. In the process, no appraisal has been conducted by the State Level Expert Appraisal Committee (SEAC) which is mandatory for permitting 'expansion' of the project. The project proponent, sought EC without disclosing that more than half of the project had already been constructed. Later, built up area was increased from 32,395.17 sq.m to 40,480.88 sq.m. In the process, construction reached to about 15 floors. Expansion proposal was treated as 'amendment' and not considered by the SEAC as required but only by the SEIAA in its meeting on 27th – 28th January, 2014. It recommended the amended EC which was granted on 13.03.2014 and it was observed that the amendment was marginal and impact of environment was minimal.

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3.1 Basic details of the project including expanded project

Basic details of the project as per EC dated 02/05/2013 and amendment in EC dated 13/03/2014 is given in the below Table-1.

Table-1: Project details

S. No.	Description	As per EC dated 02/05/2013	As per amended EC dated 13/03/2014
1	FSI Area	14,346.32 sq.m	21,365.54 sq.m
2	Non FSI area	16,048.85 sq.m	19,115.34 sq.m
3	Total construction BUA	32,395.17 sq.m	40,480.88 sq.m
4	No. of tenements	Wing A: 64 Nos. Wing B: 61 Nos.	Wing A: 64 Nos. Wing b: 77 Nos.

S. No.	Description	As per EC dated 02/05/2013	As per amended EC dated 13/03/2014
5	Building configuration	2 Basements + Ground + 2 Podium + stilt (Pt) + 1st (Pt) +2nd to 15th floors + 16th (Pt) Floors	2 Basements + Ground + 2 Podium + stilt + 18th floors
6	Building height	59.30 meters	69.95 meters

The details of water requirement, solid waste generation, and other environmental services provided by the PP for both the scenarios are discussed in **Table-2.**

Table-2: Details of utilities requirement, sources and control equipment provided

S. No.	Description	As per EC dated 02/05/2013	As per EC dated 13/03/2014	Remarks
1	Total water requirement	98 KLD	109 KLD	Source: MCGM
	a) Domestic water	61 KLD	63 KLD	--
	b) Recycled water	39 KLD	42 KLD	--
	c) Waste water generated	76 KLD	84 KLD	Treated in STP, recycled back in flushing and gardening and excess is sent to MCGM sewer lines
	d) STP capacity	84 KLD	92 KLD	
2	Solid waste generation	282 Kg/day	353 Kg/day	Non- biodegradable wastes are sold to authorized vendors. Biodegradable wastes are treated in 2 no. of OWC to convert it into the manure. The manure is used in landscaping
3	Rain water harvesting system	41.44 KL	41.44 KL	Considering the avg. rainfall/day of the project area the adequate tank size of 1.75 days area provided
4	Solar panels	None	None	--
5	Greenbelt	RG area provided 1352.31 sq. m	RG area provided 1352.31 sq. m	--
6	DG sets	1*625 KVA	1*625 KVA	--
7	Parking details	157 Nos.	295 Nos.	Adequate parking space is provided

4.0 Carrying capacity and impact of project expansion from sanctioned total built-up area of 32,395.17 sq.m to 40,480.88 sq.m in terms of the various environmental attributes in the project area

4.1 Air environment

The impact on air environment due to the project activity can be divided broadly into two categories: (i) impact during project construction, which includes impact of temporal nature, and (ii) impact during operation phase of the project, which represents the recurring continual impact on the air environment due to the project activities. Impact on air environment during the project construction, broadly includes (a) emissions due to building construction activities i.e. area sources, (b) emissions due to vehicular movement i.e. line sources, and (c) emissions due to operation of DG sets i.e. point sources. Similarly, impact during operation phase of the project, which represents the continual emission, broadly includes (a) emissions due to daily vehicular movements i.e. line sources (b) residential emissions (caused due to use of domestic fuel i.e. LPG in the household kitchens, dusting/sweeping/etc.), and (c) emissions due to operation of DG sets i.e. point sources.

4.1.1 Emission load due to building construction activities (area sources) during construction stage

For estimating the air emission load caused due to project construction related activities, US Environment Protection Agency's Compilation of Air Pollutant Emission Factors AP 42 section 13.2.3.3 was referred, wherein the emission factor of 1.2 tons/acre/month of activity was used to estimate the TSP emission load. The TSP emission load to the recipient environment due to the project activity i.e. during construction up to 32,395.17 sq.m (as per 1st EC dated 02/05/2013) is estimated as 370 MT. The assumed parameters along with the estimation calculation are given at **Annexure-7** for kind reference.

Since the project expansion has resulted in additional construction of two floors (without any change in existing land use or additional land acquisition/layout sanctioned), TSP emission due to project construction activities viz. site preparation, excavation, road dust etc. doesn't arise. Though other activities such as handling & conveyance of

construction allied materials etc. too would have contributed the TSP load but the same could not be presented due lack of data and other limitations. Hence, the air emission load to the recipient environment due to the project expansion from sanctioned TBA of 32,395.17 sq.m to 40,480.88 sq.m (i.e. due to increase of TBA of 8,085.71 sq.m) is very insignificant (area disturbed for construction activity remains same, except material movement for expansion activities).

4.1.2 Emission load due to vehicular movement (line sources) within the project site during construction stage

Emission load due to vehicular movement was assessed by considering Emission Factors (gm/km) for Indian in-service vehicles and also various assumptions/factors such as type of vehicles used & its capacity, no. of trips made to the construction site and average distance travelled per trip. For estimating the vehicular emission load during the construction activities, the Automotive Research Association of India's (ARAI), 2018 data on Emission factor (gm/Km) for Indian in-service vehicles has been referred, wherein the emission factors for HCV Diesel Truck (of > 5000 cc BS III engine) was considered. The air emission load to the recipient environment due to vehicular movement during the construction activities i.e. during construction activities up to 32,395.17 sq.m (as per 1st EC dated 02/05/2013) is estimated as 9.6 Kg of PM load.

Similarly, the air emission load to the recipient environment due to vehicular movement during the construction activities of the project expansion from sanctioned TBA of 32,395.17 sq.m to 40,480.88 sq.m (i.e. due to increase of TBA of 8,085.71 sq.m) is estimated as 2.4 Kg of additional PM load, this is over and above an estimated 9.6 Kg of PM load which is already contributed to the recipient air environment due to vehicular movement during the construction activities of the project expansion as per the initial TBA of 1st EC dated 02/05/2013. The assumed parameters along with the estimation calculation are given at **Annexure-7** for kind reference.

4.1.3 Emission load due to operation of DG set (point sources) during construction stage

Emission load (point source) due to operation of DG set during construction stage was assessed by considering emission factor of PM (Kg/hr) and also various assumptions/factors such as DG set capacity, fuel consumed and avg. operating hours. As per EC dated 02/05/2013, during construction stage of the project the PP had power supply connection from M/s Tata Power with total connected load of 80 KW. Further, as per EC dated 02/05/2013 and CTE dated 20/11/2013, the PP has provided 01 no. of DG set of 625 KVA capacity for power back-up purpose. Considering avg. power failure of about 50 hr per year, emission load of PM emissions to the recipient environment due to operation of DG set during construction stage is estimated as 3.2 Kg of PM load (0.59 Kg of PM load per year x total duration of construction activities i.e. 0.59 x 5.42 years). The assumed parameters along with the estimation calculation are given at **Annexure-8** for kind reference. Since the expansion is about 25% from TBA of 32,395.17 sq.m to 40,480.88 sq.m, it may be estimated that 25% of the said 3.2 Kg PM i.e. 0.8 Kg of PM load may have been added to the environment due to operation of DG set for the said expansion construction of the project.

4.1.4 Emission load due to vehicular movement (line sources) within the project site during operation stage

Emission load due to vehicular movement was assessed by considering Emission Factors (gm/km) for Indian in-service vehicles and also various assumptions/factors such as type of vehicles & its capacity, no. of trips made to & fro from project site and average distance travelled to park the vehicle per trip. For estimating the vehicular emission load during the operation phase of the project, the Automotive Research Association of India's (ARAI), 2018 data on Emission factor (gm/Km) for Indian in-service Vehicles has been referred, wherein the emission factors for Passenger car Diesel (of 1600-2400 cc BSIII engine) was considered. The air emission load to the recipient environment due to vehicular movement of 215 no. of cars (as per 1st EC dated 02/05/2013, the PP has provided parking arrangement for 215 no. of cars) is estimated as 2.5 Kg of PM load per year within the project site

Similarly, the air emission load to the recipient environment due to vehicular movement of additional 80 no. of cars (as per amended EC dated 13/03/2014, the PP has provided parking arrangement for additional/increased 80 no. of cars) is estimated as 0.95 Kg of additional PM load per year within the project site, this is over and above an estimated 2.5 Kg of PM load per year which is already contributed to the recipient air environment due to vehicular movement of 215 no. of cars as per 1st EC dated 02/05/2013. The assumed parameters along with the estimation calculation are given at **Annexure-9** for kind reference.

4.1.5 Residential emission load due to use of domestic fuel i.e. LPG in the household kitchens (area sources) during operation stage

Residential emission load due to use of domestic fuel i.e. LPG in the household kitchens was assessed by considering emission factor of PM_{10} and $PM_{2.5}$ (g/Kg) and also various assumptions/factors such as average no. of cylinders consumed per households/flats per year, no. of households/flats and quantity of LPG per cylinder. For estimating the residential emission load during the operation phase of the project, emission factors from “SAFAR-High resolution emission inventory of mega city Delhi-2018” report by Indian Institute of tropical meteorology (IITM), Pune has been referred. Residential emissions of PM_{10} & $PM_{2.5}$ load to the recipient environment due to use of domestic fuel i.e. LPG in the household kitchens of 125 households/flats (as per 1st EC dated 02/05/2013) is estimated as 23.3 Kg of PM_{10} load per year and 3.66 Kg of $PM_{2.5}$ load per year.

Similarly, residential emissions of PM_{10} & $PM_{2.5}$ load to the recipient environment due to use of domestic fuel i.e. LPG in the household kitchens of additional 16 households/flats (as per amended EC dated 13/03/2014) is estimated as 2.98 Kg of PM_{10} load per year and 0.46 Kg of $PM_{2.5}$ load per year. The assumed parameters along with the estimation calculation are given at **Annexure-9** for kind reference.

4.1.6 Emission load due to operation of DG set (point sources) during operation stage

Emission load (point source) due to operation of DG set during operation stage was assessed by considering emission factor of PM (Kg/hr) and also various assumptions/factors such as DG set capacity, fuel consumed and avg. operating hours. As per EC dated 02/05/2013, during operation stage of the project the PP had power supply connection from M/s Tata Power with total connected load of 2369 KW. Further, as per EC dated 02/05/2013 and CTO dated 08/09/2015, the PP has provided 01 no. of DG set of 625 KVA capacity for power back-up purpose. Considering avg. power failure of about 50 hr per year, emission load of PM emissions to the recipient environment due to operation of DG set during operation stage is estimated as 1.88 Kg of PM load (0.59 Kg of PM load per year x total years of operation during operation stage i.e. 0.59 x 3.2 years). The assumed parameters along with the estimation calculation are given at **Annexure-8** for kind reference. Since the expansion is about 25% from TBA of 32,395.17 sq.m to 40,480.88 sq.m, it may be estimated that 25% of the said 1.88 Kg PM i.e. 0.47 Kg of PM load may have been added to the environment due to operation of DG set for the said expansion construction of the project.

4.1.7 Ambient air quality in the region prior to & during construction and during operation of the project in the area

The nearest operational Continuous Ambient Air Quality Monitoring Station (CAAQMS) to that of the project site is at Kherwadi, Bandra, which is about 1 Km from the project site. MPCB provided daily results of PM_{10} & $PM_{2.5}$ values for the period of 22/03/2007 to 31/12/2021 of the said CAAQMS vide email dated 05/09/2022 (copy of email dated 05/09/2022 along with the ambient air quality data of CAAQMS, Bandra is given at **Annexure-10** for kind reference). The project was given first plinth check certificate in June, 2010 followed by completion certificate in 2015. Details of exceedance of PM_{10} and $PM_{2.5}$ to that of the notified National Ambient Air Quality Standard in the said CAAQMS prior to & during construction and during operation of the project are as below Table-3.

Table-3: Details of exceedance of PM_{10} and $PM_{2.5}$ to that of the notified NAAQS in the said CAAQMS.

Sl. No.	Phases of the project	Nos. of monitored days/year	Nos. of days/year exceeded NAAQS		% Exceedance (days in year)	
			PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
1.	Pre-construction	1089* (361 – 366)	634 (204 – 216)	430 (123 – 163)	58.21	39.48
2.	During Construction	1818# (358 – 366)	933 (170 – 202)	421 (47 – 115)	51.32	23.15
3.	Operation of the project	2065@ (309 – 364)	723 (45 – 182)	322 (10 – 85)	35.01	15.60

*Year has been considered as June, 2007 – May, 2008; June, 2008 – May, 2009 and June, 2009 – May, 2010 since the first plinth check certificate was obtained in June, 2010

Year has been considered as July, 2010 – June, 2011; July, 2011 – June, 2012; July, 2012 – June, 2013; July, 2013 – June, 2014 and July, 2014 – June, 2015 as the completion certificate has been obtained in Nov, 2015

@ Year has been considered as Nov, 2015 – Oct, 2016; Nov, 2016 – Oct, 2017; Nov, 2017 – Oct, 2018; Nov, 2018 – Oct, 2019; Nov, 2019 – Oct, 2020; Nov, 2020 – Oct, 2021 as the completion certificate has been obtained in Nov, 2015.

4.2 Water environment

4.2.1 Water demand & supply and their gap analysis in the project area

As per the information provided by BMC vide email dated 30/07/2022 (copy of email dated 30/07/2022 is given at **Annexure-11** for kind reference) that the project falls under the H-E ward of BMC. The source of water is being met from BMC Bhandup Complex. As per the amended EC dated 13/04/2014 the project expansion from sanctioned TBA of 32,395.17 sq.m to 40,480.88 sq.m (i.e. due to increase of TBA of 8,085.71 sq.m) has resulted in an additional requirement of water from 98 KLD to 109 KLD i.e. 11 KLD of water. As per the information provided by Assistant Engineer (Water works H-E wards), BMC vide email dated 21/09/2022 (copy of email dated 21/09/2022 is given at **Annexure-12** for kind reference), a permanent water connection u/s 169 of MMC act is granted to the project, for a total water demand of 99 KLD (i.e. 49.995 KLD for wing A and 49.005 KLD for wing B). Considering the average demand data gathered from BMC, the project expansion has induced an additional water demand load of 11.23 KLD (i.e. considering increase of 16 nos. of flats). The water demand and supply calculation is given at **Annexure-13** for kind reference.

As per the information provided by BMC vide email dated 30/07/2022 (Copy of email dated 30/07/2022 is given at **Annexure-11** for kind reference), it is observed that total quantity of water supplied in entire H-East ward is approximately 119 MLD against the total water demand of entire H-East ward of 110 MLD. With regard to the project, against a total water demand of 99 KLD (i.e. 49.995 KLD for wing A and 49.005 KLD for wing B) the total water supplied to the project is 128 KLD (i.e. 65 KLD for wing A and 63 KLD for wing B). The project expansion has induced an additional water demand load of 11.23 KLD (i.e. considering increase of 16 nos. of flats). However, considering the average water supply data gathered from BMC, that water supply load of 14.52 KLD is being supplying to the project, which is more than the actual water demand load of 11.23 KLD. Therefore, it may be inferred that the water demand load induced by the project is being competently met by BMC without additional burden.

4.2.2 Wastewater generation, treatment, utilization & disposal including terminal STP.

A. Wastewater generation – treatment, utilization & disposal of wastewater

As per the amended EC dated 13/04/2014 the project expansion from sanctioned TBA of 32,395.17 sq.m to 40,480.88 sq.m (i.e. due to increase of TBA of 8,085.71 sq.m) has resulted in an additional generation of wastewater from 76 KLD to 84 KLD i.e. 8 KLD of increase in wastewater generation. Further, in order to accommodate the increased wastewater quantity, the installed capacity of STP was also increased from 84 KLD to 92 KLD. Accordingly, the PP has installed an STP of design capacity of 100 KLD based on FMBR technology. The treated wastewater after tertiary treatment through pressure sand filter, activated carbon filter & chlorination is being partly reused for toilet flushing, fire-fighting and gardening, for which the PP has provided dual piping arrangement and the excess treated wastewater is discharged into the municipal sewer, which ultimately connects to the terminal STP of Bandra. As per the conditions stipulated under CTO issued by MPCB dated 08/09/2015 under the Water Act, 1974 for discharge of treated effluent, 60% of the treated domestic effluent has to be recycled/reused. Record of waste water being discharged into sewer or being recycled/reused was not found being maintained. However, considering the above mentioned condition of CTO issued by MPCB, the project discharges about 33.6 KLD of treated wastewater into the municipal

sewer, out of which the apportioned quantity of wastewater discharge into the sewer due to the project expansion is estimated to be 3.81 KLD, the relevant calculation is given at **Annexure-13** for kind reference**.** Since the project does not have a valid CTO, the concentration of discharge parameters from the project STP outlet is compared with the earlier CTO dated 08/09/2015. The treated wastewater from the outlet of project STP was found having pH: 6.6, TSS: 10 mg/l, BOD: 22 mg/l and COD: 52 mg/l respectively. It is observed that concentration of all the monitored parameters are within the earlier consented discharge standards. Following Table depicts the analysis results of treated wastewater sample from the project STP and its comparison with the prescribed standards of terminal STP of Bandra.

S. no.	Parameters	Treated wastewater quality of the project STP outlet.*	MPCB prescribed discharge standards as per earlier CTO dated 08/09/2015
1.	pH	6.6	Not prescribed
2.	TSS	10 mg/l	50 mg/l
3.	BOD	22 mg/l	30 mg/l
4.	COD	52 mg/l	100 mg/l

Note: *Sample collected on 26/07/2022. Concentration of all monitored parameters is expressed in mg/L, except pH.

B. Terminal STP

As per the information provided by BMC vide email dated 30/07/2022 (copy of the email dated 30/07/2022 is given at **Annexure-11** for kind reference) that the total sewage generated in H-East ward & H-West ward (i.e. of which Bandra-East where the project is located, is a part) is approximately 224 MLD and is being ultimately treated at Bandra STP (having reported designed capacity of 797 MLD), which also receives sewage from different areas and wards (i.e. Nehru road drop shaft, Khar Drop shaft, Kherwadidrop shaft and Dharawi drop shaft.) of about 256 MLD. Whereas, the actual contribution attributable from the project & its expansion is very marginal i.e. about 38 KLD. As per CTO dated 01/07/2021 (valid till 31/12/2023) issued by MPCB, the treated wastewater from Bandra STP is being discharged into Arabian Sea through marine outfall. Copy of CTO dated 01/07/2021 issued by MPCB for the aforesaid Bandra STP is given at **Annexure-14** for kind reference. For evaluating the performance of Bandra STP w.r.t. its assimilative capacity of the sewage received & treated, performance data

of Bandra STP for the consented parameters viz. pH, SS, BOD, COD and Faecal coliform during the monitoring period July, 2021 to July, 2022 (monthly monitoring) as submitted by MPCB has been considered (copy of email communication from MPCB vide dated 05/09/2022 is given at **Annexure-15** for kind reference).

From the analysis results of monitored parameters during July, 2021 to December, 2021 and January, 2022 to July, 2022 & its comparison w.r.t. prescribed discharge standards of Bandra STP, it reveals that Bandra STP is consistently non-complied w.r.t. SS, BOD, COD and Fecal coliform respectively. Therefore, any additional wastewater load on the already non-complied terminal STP will further add load on performance of existing terminal STP w.r.t. achieving the prescribed discharge standards of STP.

4.3 Solid waste management

4.3.1 Solid waste generation & its management

As per the amended EC dated 13/04/2014 the project expansion from sanctioned TBA of 32,395.17 sq.m to 40,480.88 sq.m (i.e. due to increase of TBA of 8,085.71 sq.m) has resulted in an additional generation of solid waste from 282 Kg/day (biodegradable: 182 Kg/day & non-biodegradable: 100 kg/day) to 353 Kg/day (biodegradable: 212 Kg/day & non-biodegradable: 141 Kg/day) i.e. 71 Kg/day of increase in total solid waste generation. Out of the additional 71 Kg/day of solid waste generation, the apportioned quantity of wet waste & dry waste is estimated to be about 49 Kg/day and 22 Kg/day respectively.

As per the 1st EC dated 02/05/2013 and CTO dated 08/09/2015, the PP has to carry-out segregation of solid waste; biodegradable shall be processed in OWC & manure shall be used for landscaping/gardening and non-biodegradable waste shall be handed over to MCGM for recycling.

It is observed during joint committee visit and also as per the information provided by MCGM vide email dated 02/09/2022 (copy of email dated 02/09/2022 is given at **Annexure-16** for kind reference) and subsequent discussion with Executive Engineer,

SWM Dept. of MCGM that door to door collection of solid waste is being done at the project site and segregation of wet and dry waste is also being done at the source itself. Wet waste consisting of biodegradable matter is processed in the OWC of 02 nos. with capacity 250 Kg/day each and manure from OWC along with STP sludge is used for landscaping/gardening activities within the project site.

Whereas, dry waste such as inert/recyclable, plastics, glass, metals, rubber is segregated and stored at a proper designated area, disposed to MCGM authorized recycler i.e. M/s Shivsneh Samajik Pratishthan on weekly basis. Further, sorting activities are being carried-out at BKC court area i.e. sorting & transfer station of MCGM, wherein domestic hazardous waste & sanitary napkins etc. are being collected and processed separately at Dharavi, Andheri, Malad plants of MCGM, recyclable materials are further sold to downstream vendors for recycling and rejects from the sorting station is being collected & disposed into Kanjurmarg landfill facility of MCGM.

4.3.2 Environmental management of the Kanjurmarg landfill facility where the solid waste from the project is disposed including impacts due to project expansion

As per the information provided by MCGM vide email dated 30/07/2022 (copy of email dated 30/07/2022 is given at **Annexure-11** for kind reference) data collected from dry waste segregation center of H-E ward for the period of January, 2022 to March, 2022 was analysed. It is observed that the average total dry waste lifted by BMC from H-E ward is about 6,788 Kg/day. The dry waste collected is sorted at BKC court for recyclables, domestic hazardous wastes etc. The rejects from sorting is then finally processed/disposed at Kanjurmarg landfill facility, which has a total plant capacity of 7,500 Tons/day, having a total area of 141.7 hectares and has facilities for composting, bioreactor & waste to energy and secure landfilling (SLF). In view of the above it may be inferred that the additional solid waste generated due to the project expansion has added additional load (though very minimal load) on the existing solid waste facility.

4.4 Noise

4.4.1 Background Noise level analysis

Real Time Ambient Noise data from the operational Real time Ambient Noise Monitoring Station located at Bandra, was available for the period of January, 2017 to July, 2022 and the same was considered, analysed for variation & exceedance of noise levels, Leq dB(A) during day & night time. Based on the analysis of real time noise data during January, 2017 to July, 2022, it can be inferred that equivalent noise level during day time is 67.1 dB (A) and during night is 66.3 dB (A).

Since, the construction of project of TBA of 32,395.17 sq.m as per 1st EC dated 02/05/2013 and expanded project of TBA of 40,480.88 sq.m as per amended EC dated 13/03/2014 have been completed during November, 2015 (as per occupancy certificate obtained by PP from MCGM) for which ambient noise data are not available, analysis for variation & exceedance of noise levels, Leq dB(A) during day & night time and associated impact on noise environment during construction stage of the project couldn't be assessed.

Based on the aforesaid real time ambient noise data during January, 2017 to July, 2022; it is observed that ambient noise level Leq dB(A) during day time & night time exceeded the limits for 28 months and 65 months respectively against the total monitored 67months i.e. 41.79 % and 98.48 % of the monitored days during day time & night time respectively. The real time ambient noise data of Bandra is enclosed as **Annexure-17** for kind reference.

4.5 Traffic scenario

The main entrance of the project is located on the Nanasaheb Dharmadhikari Road, and is surrounded by Ramakant Patkar road and Sundar Mahadevi road. The project has entrance/exit road from Nanasaheb Dharmadhikari Road which also meets to the Ramakant Patkar road and Sundar Mahadevi road. These roads further give access to various road networks of Mumbai.

Mumbai is reportedly the most car congested city. This has resulted in huge traffic jams, pollution and unauthorized parking. In mid-2016, the car density in Mumbai was 430 cars per km, a figure that has gone up to 510 cars/km (road length of 2,000 Km) as reported in March 2019 in Times of India (https://timesofindia.indiatimes.com/city/mumbai/mumbai-indias-most-car-congested-city/articleshow/68554703.cms).

Addition of 80 vehicles in the project expansion further compounds to traffic jams and pollution to the area/Mumbai.

5.0 Other observations/ findings of the joint committee

During the course of data/information collection & their analysis while performing the tasks assigned to the committee by the Hon'ble NGT vide its order dated 11/02/2019 w.r.t. carrying capacity study of the area for relevant environment parameters and impact of such expansion, remedial measures, etc.; the committee also noticed violations w.r.t. starting construction activities without obtaining prior EC from SEIAA, Maharashtra, and also without obtaining CTE from MPCB. The same have been detailed out in subsequent paragraphs.

5.1 Observations w.r.t Environmental Clearance (EC) and violations thereto, if any

As per the information provided by MCGM vide email dated 21/09/2022 (Copy of MCGM email dated 21/09/2022 is given at **Annexure-18**), it is observed that PP has obtained first plinth check certificate vide no. CHE/WS/0009/H/337 (NEW), dated 08/06/2010 for Building 'A' & 'B' Wing, which is as per layout sanctioned and building permission sanctioned dated 12/03/2010 with TBA of 39,914.23 sq.m (FSI: 20,798.41 sq.m & Non-FSI: 19,115.34 sq.m) granted by MCGM. It is observed from the aforesaid plinth check certificate that the TBA of aforesaid layout sanctioned plan vide dated 12/03/2010 is more than the 20,000 sq.m. The aforesaid layout sanctioned plan attracts prior EC requirements as per the provisions of EIA Notification, 2006. Also, it is observed from the aforesaid plinth checking certificate that the PP has started the construction of the project without obtaining prior EC which is required as per S. no. 2 of

the Notification no S.O. 1533 (E) dated 14/9/2006 related to the requirements of prior EC notified under the Environment (Protection) Act, 1986. The PP has not obtained prior EC and has violated provisions of the EIA Notification, 2006.

MCGM vide email dated 21/09/2022 provided the status of construction of completed building i.e. Wing-A&B comprising of 2 level basement & stilt + 3 podium for parking + 4th to 21st upper floors (18 floors), wherein the PP has obtained full completion certificate vide dated 07/11/2015. Also, it is mentioned that the total built-up area of the completed project i.e. aforesaid building is 40,480.88 sq.m and mentioned that the said TBA is as per the definition, defined under Notification no. S.O. 695 (E) dated 04/04/2011 issued by MOEF&CC.

5.2 Compliance of Consent required under the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981

PP has obtained Consent to Establish (CTE) from the MPCB on 20/11/2013 for total plot area of 4,840 sq.m and TBA of 32,395.17 sq.m (as per 1st EC dated 02/05/2013). Copy of CTE dated 02/05/2013 is given at **Annexure-19** for kind reference. Wherein it is observed that without obtaining CTE, the PP has started construction activities; as it is evident from plinth check certificate obtained by PP (please refer section 4.1.1, as above). Thereafter, the PP has obtained amended CTE from MPCB on 30/05/2015 for total plot area of 4,840 sq.m and TBA of 40,480.88 sq.m (as per amended EC dated 13/03/2014). Copy of amended CTE dated 30/05/2015 is given at **Annexure-20** for kind reference.

PP has obtained Consent To Operate (CTO) from the MPCB on 08/09/2015 for total plot area of 4,840 sq.m and TBA of 40,480.88 sq.m (as per amended EC dated 13/04/2014), which was valid till 31/03/2016. Copy of CTO dated 08/09/2015 is given at **Annexure-21** for kind reference. Further, it is observed that PP has not renewed the CTO after its expiry on 31/03/2016 till the Hon'ble NGT order dated 11/02/2019.

6.0 Remedial measures including action against violators of law for completing project in violation of mandatory provisions under the EIA notification

(A) An Standard Operating Procedure (SoP) for dealing with violation cases have been issued by the MoEF&CC vide Office Memorandum (OM) F. No. 22-21/2020-IA.III dated 07/07/2021 followed by subsequent OM F. No. 22-21/2020-IA.III (E 138949) dated 28/01/2022 (copy of the said two OMs is given at **Annexure-22** for kind reference). The said SOP outlines the penalties including closure of operations that are operating without prior environment clearance including demolition of projects. It also outlines a procedure for the grant of environmental clearance to projects that have come up without obtaining prior environment clearance required under the Environmental Impact Assessment (EIA) Notification, 2006 including Remediation Plan and Natural and Community Resource Augmentation Plan preparation and their quantification, bank guarantee and implementation thereto. As per the aforesaid SOP, approaches for dealing the violation cases are summarised as follows;

i. Closure or revision
   a. If the project proponent has not taken prior EC, then the action shall be initiated to close the operation.
   b. If the project proponent has taken prior EC for existing/old unit, then order to revert the activity/production to permissible limits.
   c. If the project doesn't require EC for earlier production level but required at present, then restricting activity/production to extent to which prior EC was not required.

ii. Action under section 15 read with section 19 of the E (P) A, 1986 shall be initiated against the violators.

iii. Appraisal under EIA Notification, 2006: The permissibility of the project shall be examined from the perspective of whether such activity/project was at all eligible for the grant of prior EC;
   a. **If not permissible**: If a project is under prohibited area notified by Central/State Govt., then the such project shall be ordered for the

demolition/closure after issuing show-cause notice and providing an opportunity of hearing.

b. **If permissible**, then such violation projects shall be issued with directions to complete the impact assessment studies and submit EIA report & EMP in a time bound manner. Also, such cases of violation shall be subject to appropriate: Damage Assessment, Remediation Plan and Community Augmentation Plan (to restore environmental damage caused including its social aspects).

   The competent authority shall issue directions u/s 5 of The Environment (Protection) Act, 1986 for mandating payment of such amount (based on polluter's pay principle), undertaking activities relating to aforesaid plans and its appraisal by the Central sectoral expert appraisal committee or the State/UT level expert appraisal committee, as the case may be. However, even though the project may be permissible but not environmentally sustainable in its present form/configuration/features then such projects shall be directed to be modified so that the project would be environmentally sustainable. Further, if the project is not considered appropriate to issue EC, such project shall be directed to be demolished/closed.

   The PP will be required to submit a bank guarantee equivalent to the amount of Remediation Plan and Natural and Community Resource Augmentation Plan with Central/State Pollution Control Board (depending on whether the project under reference is appraised at MoEF&CC or by SEIAA) prior to the grant of EC. The quantification of such liability will be recommended by EAC and finalized by the Regulatory Authority and the bank guarantee will be released after successful implementation of the Remediation Plan & Natural and Community Resource Augmentation Plan.

iv. Penalty provisions for violation cases and applications

a. For new projects;

- Where operation has not commenced: 1% of the total project cost incurred up to date of filing of application along with EIA/EMP report.
- When operations have commenced without EC: 1% of the total project cost incurred up to the date of filing application along with EIA/EMP report PLUS 0.25% of the total turnover during period of violation.

b. For expansion projects;

- When operation/production with expanded capacity has not commenced: 1% of the project cost, attributable to the expansion, incurred up to date of filing application along with EIA/EMP report.
- When operation/production with expanded capacity have commenced: 1% of project cost (attributable to the expansion activity) incurred up to the date of filing application along with EIA/EMP report PLUS 0.25% of the total turnover (attributable to the expanded activity/capacity) involved during the period of violation.

(B) Preparation of Remediation Plan and Natural and Community Resource Augmentation Plan

The Department of Environment (DoE), Govt. of Maharashtra, had decided to follow the “Approach for the said Assessment for Environmental Damage And Estimation of Remediation Costs For Building Construction Projects initiated without obtaining mandatory Environmental clearance (Violation Cases)” by the DoE and SEIAA Maharashtra vide SEIAA letter no. SEIAA-2018/CR-150/SEIAA dated 30/1/2019 which was prepared to evolve uniform guidelines to deal with the cases of violations by a committee (constituting Ex. Expert Member, NGT; members of SEIAA and SEAC for Maharashtra and advocate) under the chairmanship of Chairman, SEIAA, Maharashtra and after due consultation with stakeholders in a round table workshop. The said approach was prepared to deal with the cases of violations w.r.t. Notification no. SO 804(E) dated 14/03/2017 on procedure to be adopted for dealing with the prior Environmental Clearance (EC) violation cases issued by Ministry of Environment, Forest and Climate Change

(MoEF&CC) under the Environment (Protection) Act, 1986. Copy of the said "Approach for the Assessment for Environmental Damage And Estimation of Remediation Costs For Building Construction Projects initiated without obtaining mandatory Environmental clearance (Violation Cases)" is available at https://www.ecmpcb.in/login/download_ec_document/QjAwN0E4NkZDM0I2NDY4Mzk3QzUxOEVCQURGNzlGOTcucGRm

Salient features of the said Department of Environment (DoE) and SEIAA Maharashtra adopted approach paper are as below:

(i) Environmental damage cost assessment considering various project related attributes (air pollution, water pollution, soil environment, noise & vibration, green belt and Occupational Health & Safety) and their recurring & non-recurring cost.

(ii) Assessment of economic benefits derived due to violation inclusive of the following:

(a) costs saved or/and not taking appropriate environmental protection measures and also, the benefits derived by going ahead with project to gain commercial gains. The same have been considered as 10% of Ready reckoner cost of the construction under violation if it is already occupied (fully or partially) or reasonably in advance stage of completion (more than 50%). In case, the construction is still not in advance stage of completion (less than 50%) and no occupation is given, then the benefits can be taken as 5% of the Ready reckoner cost for the construction in violation;

(b) environmental track record of the project proponent of Rs. 10,00,000/- (Rs. Ten lakhs) for each of earlier or similar other environment clearance violation in other projects being developed by project proponent and/or any one of its directors.

(iii) Preparation of remediation plan and natural and community resource augmentation plan as Environmental management plan (EMP) equivalent to the above-mentioned environmental damage cost and economic benefits, as at (i) and (ii) above, or the amount equivalent to the CER amount as per the MOEF&CC's office Memorandum No: F NO 22-65/2017-IA-III dated 01/05/2018, whichever is higher. Areas identified for resource allocation through such EMP cost are as below:

S. No	Description Activity	% Allocation	Implementing Agency	Remarks
1	Afforestation (can include plantation garden development)	25	Social Forestry & Local Body	The afforestation can be either through social forestry or the Local body. Preferably within 50 km from project site
2	Water conservation program (Jalyuktshivar, etc)	25		Preferably within 50 km radius of project site
3	Urban environment and sanitation (can include swatccha Bharat, playground development, urban ground-water recharge schemes etc)	20	Local body	
4	Sewerage lines and STP, solid waste Management	20	Local Body	
5	Urban air/noise pollution control initiatives	10	Local Body	

(iv) The assessment of above-mentioned environmental damage cost and economic benefits and preparation of remediation plan and natural and community resource augmentation plan as environmental management plan (EMP) to be prepared as an independent chapter in the environment impact assessment report by the consultants duly recognised by NABET (National

Accreditation Board for Education and Training) while seeking grant of environmental clearance. The collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory duly notified under Environment (Protection) Act, 1986, or an environmental laboratory accredited by National Accreditation Board for Testing and Calibration Laboratories or a laboratory of a Council of Scientific and Industrial Research institution working in the field of environment.

The SEAC will prescribe a specific Terms of Reference for the project on assessment of the above plans.

(v) The amount quantification of the remediation plan and Natural and Community Resource Augmentation Plan will be recommended by SEAC Committee and finalized by SEIAA.

(vi) The Expert Appraisal Committee shall stipulate the implementation of Environmental Management Plan, comprising Remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefit.

(vii) With regard to implementation of the aforesaid plan, the project proponent will be required to deposit such approportionated funds of the plan with concerned authorities (besides deposition of the equivalent Bank Guarantee amount) and the confirmation of deposit of such funds will be the compliance of such EMP efforts at the project proponents end. Still however, he needs to get engaged with concerned departments to ensure that the amount is effectively spent in time bound manner.

The outer limit for execution of the projects could be maximum 2 years, and if any amount still remains unspent then the same will be reverted back to DoE by

concerned department which can conduct specific state level programs form such funds.

As per the aforesaid SoP dated 07/07/2021 issued by the MoEF&CC, the quantification of liability on such Remediation Plan & Natural and Community Resource Augmentation Plan is to be recommended by SEAC and finalized by the Regulatory Authority and the bank guarantee will be released after successful implementation of the same. For recommending and implementation of the same, the SEAC and SEIAA Maharashtra may follow the same aforesaid approach as earlier adopted vide SEIAA letter no. SEIAA-2018/CR-150/SEIAA dated 30/1/2019 or updating the same, as applicable.

7.0 Approach for penalty amount as damages (in addition to the environmental compensation as given at para 6.0) for contravening mandatory provisions of environmental laws

In the matter of Civil Appeal No. 10854 of 2016; M/s Goel Ganga Developers India Pvt. Ltd. Versus Union of India & Ors. the Hon'ble Supreme Court vide order dated 10/8/2018 upheld Rs. 05 crores on project proponent as levied by the Hon'ble NGT for contravening mandatory provision of Environment Laws and for not obtaining the consent from the Board. Vide para 57 of the said Hon'ble Supreme Court order, it has been directed that *"(…)The project proponent shall also pay a sum of Rs. 5 crores as damages, in addition to the above for contravening mandatory provisions of environmental laws."*

"Report of the CPCB In-house Committee on Methodology for Assessing Environmental Compensation and Action Plan to Utilize the Fund" outlines a formula for imposing environmental compensation on industrial units for violation of directions issued by regulatory bodies listing the instances for taking cognizance of cases fit for violation and levy environmental compensation. The same has also been referred by the Hon'ble NGT in its order (para 14 to 16) dated 28/8/2019 in the matter of Original Application No. 593/2017 titled Paryavaran Suraksha Samiti & Anr. Versus Union of India &Ors.

The instances considered for levying Environmental Compensation (EC) in the said report are:

a) Discharges in violation of consent conditions, mainly prescribed standards / consent limits.

b) Not complying with the directions issued, such as direction for closure due to non-installation of OCEMS, non-adherence to the action plans submitted etc.

c) Intentional avoidance of data submission or data manipulation by tampering the Online Continuous Emission / Effluent Monitoring systems.

d) Accidental discharges lasting for short durations resulting into damage to the environment.

e) Intentional discharges to the environment - land, water and air resulting into acute injury or damage to the environment.

f) Injection of treated/partially treated/ untreated effluents to ground water.

Though such listed instances may not be directly applicable in the current matter for arriving at the damages amount (in addition to the environmental compensation as given at para 6.0 of the report) for contravening mandatory provisions of environmental laws (w.r.t. starting construction without CTE & not possessing renewed CTO and also not applying for the same), an attempt is being made by this joint committee to assess penalty for the same using the formula prescribed in the said CPCB report which may be taken as damages amount for contravening mandatory provisions of environmental laws[1]. The formula takes into account of number of days violation took place, pollution index of unit, scale of operation, location factor based on population and an amount factor in Rupees.

Penalty amount as damages in Rupees as mentioned in the aforesaid CPCB report = PI x N x R x S x LF

Where,

EC is Environmental Compensation in Rupees

PI = Pollution Index of industrial sector/Project

[1] Such approach has also been concurred by the Hon'ble NGT in its judgment dated 01/09/2022 in OA no. 13/2021(WZ) in the matter of Shashikant Vithal Kamble vs M/s Key Stone Properties.

N = Number of days of violation took place

R = A factor in Rupees for EC

S = Factor for scale of operation

LF = Location factor

PI = Pollution Index of industrial sector/project

Considering the project under Orange category as per earlier CTE issued by MPCB vide dated 20/11/2013 and CTO issued by MPCB vide dated 08/09/2015. Hence, as per CTE & CTO of MPCB, PI = 50.

***N= Number of days of violation** took place for which violation took place is the period between the day of violation observed and the day of compliance verified by CPCB/SPCB.*

***R = A factor in Rupees, which** may be a minimum of 100 and maximum of 500. The aforesaid report also suggests to consider R as 250, as the Environmental Compensation in cases of violation. Hence, R = 250.*

S = Factor for scale of operation.

For small S = 0.5, For medium S = 1 and larger unit S = 1.5. The scale of operation was considered as 1.5, As per CTE issued by MPCB vide dated 20/11/2013 and CTO issued by MPCB vide dated 08/09/2015, the said project is LSI. Hence, S=1.5.

LF = Location factor.

It is based on the population of the city/town and location of the industrial unit on the location of the industrial unit. Since the population is more than 12 Million, LF=2.0 (As per provisional reports of Census India, population of Mumbai in 2011 is 12,442,373).

Considering the period when PP has started construction activities without obtaining CTE from MPCB i.e. as it is evident from the 1st plinth checking certificate issued vide dated 08/06/2010 by MCGM as per the Layout Sanctioned vide no. CHE/WS/0009/H/337 (NEW), dated 12/03/2010 for TBA of 39,914.23 sq.m (FSI: 20,798.41 sq.m & Non-FSI: 19,115.34 sq.m), which is beyond 20,000 sq-m till the date of obtaining CTE from MPCB i.e. till 20/11/2013. Besides considering the aforesaid period of violation for starting the construction activities without obtaining CTE from

MPCB(viz. 08/06/2010 to 19/11/2013), the joint committee recommends to consider the period of violation for not possessing valid/not applying for renewal of CTO also (viz. 01/04/2016 till the Hon'ble NGT order dated 11/02/2019). Accordingly, the total period of violation is tabulated as below;

S. no.	Period of violation		No. of days of violation	Remarks
1.	08/06/2010 (date of 1st PCC obtained from MCGM)	19/11/2013 (CTE obtained from MPCB on 20/11/2013)	1,261	Starting construction activities without obtaining valid CTE from MPCB.
2.	01/04/2016 (starting date of lapse of CTO, which was valid till 31/03/2016)	11/02/2019 (till date of Hon'ble NGT order dated, 11/02/2019)	1,046	Operation of the residential building project without valid CTO from MPCB.
Total no. of days of violation			**2,307**	

Based on consideration of above, the penalty amount is depicted as below.

Penalty amount as damages (EC) = PI*N*R*S*LF

PI	N	R	S	LF	**EC (in Rs.)**
50	2,307	250	1.5	2	**8,65,12,500**

Based on above, the penalty amount as damages for contravening provisions under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 i.e. without obtaining CTE & valid CTO from MPCB is worked-out to be Rs. 8,65,12,500/- (Rupees Eight Crore Sixty Five Lakhs Twelve Thousand Five Hundred Only).

8.0 Conclusions

i. Expansion of the residential building project "Rustomjee Oriana" at Plot bearing CTS No. 646 (pt.), Village Bandra, Gandhi Nagar, Bandra (E), Mumbai by M/s. Resilience Realty Pvt. Ltd., from the building configuration having 2 Basement + Ground + 2 Podium floors +Stilt (pt.)+ 1st (pt.) + 2nd (pt.) to 15th floors + 16th (pt.) floors) to the building configuration having 2 Basements + Ground + 2 Podium + stilt + 18 floors has been held in violation of EIA Notification, 2006 by the Hon'ble NGT vide order dated 11/02/2019.

ii. The said expansion has been carried out from BUA of 32,395.17 sq.m to 40,480.88 sq.m resulting into addition of 02 floors (from 16 floors to 18 floors), 16 flat units (from 125 flats to 141 flats), 80 vehicle parking's (from 215 parking's to 295 parking's), additional water demand of 11KLD (from 98 KLD to 109 KLD), sewage generation of 08 KLD (from 76 KLD to 84 KLD) and solid waste generation of 71 Kg/day (from 282 Kg/day to 353 Kg/day) respectively.

iii. Results of the nearest Continuous Ambient Air Quality Monitoring Station (CAAQMS) at Kherwadi, Bandra which is at about 1Km from the project site, exhibit that prior to start of the project construction in June, 2010, the area was already stressed with PM_{10} and $PM_{2.5}$ in ambient air. The available 03 years data (prior to start of the construction) of the said CAAQMS reveal that PM_{10} and $PM_{2.5}$ values in the ambient air exceeded 58.21% and 39.48% of the monitored days/year respectively to that of the prescribed National Ambient Air Quality Standards (NAAQS).

During construction of the project also (2010-2015), the PM_{10} and $PM_{2.5}$ values in the ambient air exceeded 51.32% and 23.15% of the monitored days/year respectively to that of the prescribed NAAQS.

Post construction and operation of the project (2015-2021), the PM_{10} and $PM_{2.5}$ values in the ambient air exceeded 35.01% and 15.60% of the monitored days/year respectively to that of the prescribed NAAQS.

The other monitored parameters at CAAQMS such as SO_2, NO_2, O_3 and CO mostly remained within the prescribed NAAQS.

[**For details please refer section 4.1.7 of the report**.]

iv. The above ambient air quality although shows the decreasing trend since prior to start of the project construction in June, 2010, however, such decreasing trend still shows that ambient air quality was not meeting the prescribed standards for

particulate matter (PM) for 51.32%-15.60% of the monitored days/year during construction and post-construction (i.e. operation) phase of the project. The ambient air, thus, was found to stressed (though with decreasing trend) prior to start of the project construction in June, 2010 and also during the construction and operation periods of the project.

The stressed air environment of the area (prior to start of the project construction in June, 2010) has further been contributed with particulate matter due to construction followed by operation of the project. Estimated such contributions due to illegal expansion of the project are as below:

Estimated particulate matter load to the environment due to permitted/illegal construction and operation of the project

Sl. No.	**Activities**	**Particulate Matter load from the project site**			
		During construction		**During operation (post construction)**	
		Permitted construction of BUA of 32,395.17 sq.m	**Expanded illegal construction (BUA of 8,085.71 sq.m)**	**Permitted construction of BUA of 32,395.17 sq.m**	**Expanded illegal construction (BUA of 8,085.71 sq.m.)**
1.	Various construction activities (site preparation, excavation, road dust etc.)	370 MT of TSP	--	--	--
2.	Vehicular emission during construction stage	9.6 Kg of PM	2.4 Kg of PM	--	--
3.	DG set operation during construction stage	3.2 Kg of PM	0.8 Kg of PM	--	--
4.	Vehicular emission during	--	--	2.5 Kg of PM/year for 215 vehicles	0.95 Kg of PM/year for additional 80

	operation stage				vehicles
5.	Residential emissions due to domestic fuel	--	--	23.3 Kg of PM_{10}/year & 3.66 Kg of $PM_{2.5}$/year for 125 flats	2.98 Kg of PM_{10}/year & 0.46 Kg of $PM_{2.5}$/year for additional 16 flats
6.	DG set operation during operation stage	--	--	1.88 Kg of PM	0.47 Kg of PM

Although the above contribution of PM, PM_{10} and $PM_{2.5}$ load may be very small but cumulative effect of such illegal construction activities and other uncontrolled/unsustainable activities/prevailing meteorological conditions in the area/Mumbai compounds further stress to the already stressed air environment.

The above activities (as given in the Table above) may have resulted into other pollutants load also such as SO_2, NO_2, etc. but the same have not been presented as ambient air quality has mostly remained within with the NAAQS w.r.t. such other monitored pollutants.

Other activities such as sweeping/dusting/repairing/painting/etc. too would have contributed the particulate matter load but the same could not be presented due lack of data and other limitations.

[**For details please refer section 4.1 i.e. 4.1.1 to 4.1.6 of the report**.]

v. Mumbai is reportedly the most car congested city. This has resulted in huge traffic jams, pollution and unauthorized parking. In mid-2016, the car density in Mumbai was 430 cars per km, a figure that has gone up to 510 cars/km (road length of 2,000 Km) as reported in March 2019 in Times of India. Addition of 80 vehicles in the project expansion further compounds to traffic jams and pollution to the area/Mumbai.

vi. The real time noise data (January, 2017 to July, 2022) reveals average noise level during day time is 67.1 dB (A) and during night is 66.3 dB (A) as measured at Real time Ambient Noise Monitoring Station located at Bandra Polytechnic Govt. College which is about 1.2 Km from the project site.

It is observed that ambient noise level Leq dB(A) during day time & night time exceeded the prescribed limits for 28 months (42%) and 65 months (98%) respectively against the total monitored 67months which exhibits that the area is stressed with noise.

Operation of the project too contributes noise associated with its activities such as maintenance/repair/vehicular movement/etc. Therefore, the illegal expansion of the project also compounds to already stressed noise environment in the area during construction as well as operation of the project.

[**For details please refer section 4.4 of the report**.]

vii. As per the information provided by MPCB/MCGM, there appears that infrastructures provided to meet water demand & supply; sewage treatment and municipal solid waste management are presently of sufficient capacity to manage the water demand, sewage and solid waste management of the project which also have its own sewage treatment facility, recycling of treated sewage and organic waste convertor for wet waste.

[**For details please refer section 4.2, 4.3 of the report**.]

viii. For remedial measures including action against violators of law for completing project in violation of mandatory provisions, the SoP issued by the MoEF&CC vide Office Memorandum (OM) dated 07/07/2021 followed by OM dated 28/01/2022 for dealing with violation cases may be followed. The said SOP outlines the penalties including closure of operations that are operating without prior environment clearance including demolition of projects. It also outlines a procedure for the grant of environmental clearance to projects that have come up or expanded without obtaining prior environment clearance required under the

Environmental Impact Assessment (EIA) Notification, 2006 including Remediation Plan and Natural and Community Resource Augmentation Plan preparation and their quantification, bank guarantee and implementation thereto. About quantification of liability on such Remediation Plan & Natural and Community Resource Augmentation Plan to be recommended by SEAC and finalized by the Regulatory Authority, as outlined in the aforesaid SoP, the SEAC and SEIAA Maharashtra may follow the "Approach for the Assessment for Environmental Damage And Estimation of Remediation Costs For Building Construction Projects initiated without obtaining mandatory Environmental clearance (Violation Cases)" as earlier adopted vide SEIAA letter no. SEIAA-2018/CR-150/SEIAA dated 30/1/2019 or updating the same, as applicable. The bank guarantee equivalent to said quantified liability will be released after successful implementation of the said plan.

[**For details please refer section 6.0 of the report**.]

ix. In addition to the aforesaid penalty and environmental compensation in terms of Remediation Plan & Natural and Community Resource Augmentation Plan, there may additional penalty amount applicable as damages for contravening provisions under the Water Act, 1974 & Air Act, 1981 i.e starting construction without obtaining mandatory CTE and operating the project without obtaining renewed CTO or making application for renewal of the CTO. The same has been worked out to be Rs. 8,65,12,500/- (Rupees Eight Crore Sixty Five Lakhs Twelve Thousand Five Hundred Only).

[**For details please refer section 7.0 of the report**.]

x. In compliance to the Hon'ble NGT order dated 11/02/2019 vide para 31, the PP has deposited Rupees One Crore with Central Pollution Control Board on 01/01/2020 towards interim cost of damage to the environment.

The Hon'ble NGT may therefore consider the penalty and environmental compensation in terms of remediation plan & natural and community resource

augmentation plan and cost thereto & implementation of the same (as per the aforesaid MoEF&CC's SOP) and additional penalty amount as damages for contravening provisions under the Water Act, 1974 & Air Act, 1981, as appropriate or other environmental compensation as appropriate.

9.0 Recommendations

The case has been examined based on the available and derived information as many data sets which may have been relevant for actual/real assessment are not available and scenario cannot be created.

Primarily, the violations noticed are:

a. Violation w.r.t. expansion of the residential building project from BUA of 32,395.17 sq.m to 40,480.88 sq.m and the expansion proposal was treated as 'amendment' and not considered by the SEAC as required but only by the SEIAA.

b. Prior EC violation i.e. the PP has started the construction of the project without obtaining prior EC which is required as per S. no. 2 of the Notification no S.O. 1533 (E) dated 14/9/2006 related to the requirements of prior EC notified under the Environment (Protection) Act, 1986 and starting construction without obtaining mandatory CTE and operating the project without obtaining renewed CTO or making application for renewal of the CTO, as noticed by the joint committee during the course of data collection from MCGM & MPCB.

The increased activity mainly related to about addition of 2 floors with BUA of 8085.71 sq.m are:

1- Increased period of construction and therefore construction related air pollution and noise
2- Operational period will have increased vehicles (80 nos.), increased energy use, increased water use & sewage generation (11 KLD & 8 KLD) and increased solid waste (71 Kg/day).

3- Construction period related impacts are for a limited period. Though the air quality of the region shows increasing better trend, the limited period when the activities were ongoing would have caused local (limited radius around the project) poor air quality.

4- Operational phase impacts are increased air pollution due to vehicles and increase in energy use due to domestic activities (cooking, etc); increased sewage generation and solid waste.

5- The overall impact during operation phase may not appear significant when compared to total pollution load due to multiple projects and activities undertaken in the region.

(I) In view of the violation for completing project in violation of mandatory provisions of EIA Notification, 2006:

(A) Remedial measures:

Primarily, at site no further remedy can be possible, however, for better air quality in the region (area around the project), the PP can do the following:

(a) Plant equivalent trees (based on their CO_2 footprint) as avenue plantation (if space is not available, it can do elsewhere within 3-5 km radius)

(b) Install Nature based solutions for air quality improvement (smart trees with solar energy etc.)

(c) Install air purifications inside their podium parking areas

(d) Use treated (by maintaining the best treatment for better quality water) effluent for road and pavement cleaning/washings.

(e) Install and maintain a community solid waste /recycling/ composting/vermi/others in association with MCGM.

The above remedial measures may be considered by SEAC/SEIAA, Maharashtra who are to recommend and finalize the Remediation Plan & Natural and Community Resource Augmentation Plan as outlined in para 6.0 above.

(B) Actions against the violations, penalty and environmental damage & the applicable liability of the amount to be recovered including cost of restoration of the environment

In accordance with the SoP issued by the MoEF&CC vide Office Memorandum (OM) dated 07/07/2021 followed by OM dated 28/01/2022 for dealing with violation cases:

(a) MPCB may take action under section 15 read with section 19 of the Environment (Protection) Act, 1986, against the project proponent i.e. M/s Resilience Realty Pvt. Ltd;

(b) SEIAA, Maharashtra may appraise the expansion under EIA notification with examination and recommendations of EIA/EMP report including the Remediation Plan & Natural and Community Resource Augmentation Plan by SEAC Maharashtra and amount relating to such plan.

For determining the amount relating to the Remediation Plan & Natural and Community Resource Augmentation Plan and their implementation, the SEAC and SEIAA Maharashtra may follow its "Approach for the Assessment for Environmental Damage And Estimation of Remediation Costs For Building Construction Projects initiated without obtaining mandatory Environmental clearance (Violation Cases)" as earlier adopted vide SEIAA vide letter no. SEIAA-2018/CR-150/SEIAA dated 30/1/2019 or updating the same, as appropriate.

[**For details please refer section 6.0 of the report**]

(c) MPCB may issue directions under section 15 read with section 19 of the Environment (Protection) Act, 1986, mandating payment of:

(i) the aforesaid amount and undertaking activities relating to the Remediation Plan & Natural and Community Resource Augmentation Plan

(ii) penalty of 01% of project cost (attributable to the expansion activity) incurred up to the date of filing application along with EIA/EMP

report PLUS 0.25% of the total turnover (attributable to the expanded activity/capacity) involved during the period of violation;

(iii) In addition to the above penalty of 01%, further penalty of 1% of the total project cost incurred up to the date of filing application along with EIA/EMP report PLUS 0.25% of the total turnover during period of violation for commencing the construction without obtaining the prior EC (viz. date of construction initiated on 08/06/2010).

[For details please refer para 12 of the MoEF&CC's SoP dated 07/07/2021 given at Annexure 22]

(II) The Rupees One Crore amount deposited by the project proponent with CPCB in compliance with Hon'ble NGT order dated 11/02/2019 may be adjusted in the aforesaid penalty/environmental compensation amounts.

(III) For contravening provisions under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981

In view of the violations of:

(a) Starting construction for the TBA for more than 20,000 sq-m., before obtaining CTE from MPCB as required under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981;

(b) Operating the project without obtaining renewed CTO or making application for renewal of the CTO from MPCB during the period 01/04/2016 till 11/02/2019 (till date of Hon'ble NGT order);

Rs. 05 Crore OR Rs. 8,65,12,500/- (Rupees Eight Crore Sixty Five Lakhs Twelve Thousand Five Hundred Only), as derived under para 6.0 of this report and as deemed fit by the Hon'ble NGT, may also be imposed by MPCB in addition to the penalty and amount relating to the Remediation Plan

& Natural and Community Resource Augmentation Plan and their implementation, as at para I(B) above, as damages for contravening provisions under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981.

[For details please refer section 7.0 of the report]

*****

(Nishchal C.)
Sc. D, CPCB, RD-Pune

(Dr. C. K. Dixit)
Sc. C, CPCB, Delhi

(Dr. Ritesh Vijay)
Scientist, NEERI, Nagpur

(Ramesh B. Bambale)
Expert Member, SEAC-2

(Dr. Rakesh Kumar)
Chairman, SEAC-1

Annexure-1

Item No. 01

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI
(Through Video Conferencing)

Appeal No. 122/2018
(Earlier Appeal No. 9/2014) (WZ)

Anil Tharthare Appellant(s)

Versus

The Secretary, Envt. Dept. Govt. of Maharashtra & Ors. Respondent(s)

Date of hearing: 11.02.2019

CORAM: HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON
HON'BLE MR. JUSTICE K. RAMAKRISHNAN, JUDICIAL MEMBER
HON'BLE DR. NAGIN NANDA, EXPERT MEMBER

For Appellant(s): Mr. Aditya Pratap, Advocate

For Respondent (s): Mr. D.M. Gupte, Advocate for R-1, 2&3
Ms. Niti Jain, Proxy Counsel Ms. Niti Jain, Proxy Counsel for Respondent no.6

ORDER

1. This appeal has been preferred against order dated 13.03.2014 passed by the Principal Secretary, Environment-cum-Member Secretary, State Level Environment Impact Assessment Authority (SEIAA), State of Maharashtra granting 'amendment' to the Environment Clearance (EC) dated 02.05.2013 for proposed expansion of redevelopment of 'Oriana Residential Project' on plot bearing C.T.S. No. 646, 646 (Pt.) of village Bandra at Gandhinagar, Bandra East, Mumbai – 400050 by M/s Resilience Realty Pvt. Ltd. This appeal was filed on 10.04.2014 and has been pending for the last about five years.

2. Question for consideration is whether grant of EC to the expansion of the project by impugned order by treating it as 'amendment' is in violation of EIA Notification, 2006. In the process, no appraisal has been conducted by the State Level

Expert Appraisal Committee (SEAC) which is mandatory for permitting 'expansion' of the project. If the EC is held to be illegal, further question is the remedial measures to be now taken.

3. The appellant claims to be an original resident of the area in question. According to the appellant, by redevelopment of the area as per sanction by the Municipal Corporation under the provisions of Development Control Regulations of Greater Mumbai, 1991 (DCR), volume of the new building will increase by 8 to 10 times. Under the scheme of development, a part of new construction has to be used by the developers to give free flats to original residents while the rest of it can be sold in the open market. Construction started in the year 2010 as shown by the Google Earth Images dated 25.01.2010 and 01.04.2011.

4. As per the provisions of EIA Notification, 2006 and under the provisions of Environment (Protection) Act, 1986, EC is required for new project as well as expansion where the extent of construction is more than 20,000 sq.m. It has been clarified by Notification dated 04.04.2011 that extent of construction covers Floor Space Index (FSI) area as well as non-FSI area.

5. Respondent No.6, the project proponent, sought EC without disclosing that more than half of the project had already been constructed. The SEAC - II in its 10th Meeting dated 14th – 16th March, 2013 appraised the project and recommended EC. Accordingly, EC was granted on 02.05.2013.

6. Later, built up area was increased from 32,395 sq.m to 40,480 sq.m. In the process, construction reached about 15 floors. Expansion proposal was treated as 'amendment' and not

considered by the SEAC as required but only by the SEIAA in its meeting on 27th – 28th January, 2014. It recommended the EC which was granted on 13.03.2014.

7. Before going into the merits, we may note that this Tribunal considered two applications of the project proponent against maintainability of the appeal and rejected the same vide the order dated 04.05.2016. The said order was a composite order in the present case and in the connected appeal. It was held that there was no merit in the objection about the *locus standi* of the appellant. Nor the appeal could be held to be barred by limitation with reference to the impugned order dated 13.03.2014.

8. According to the appellant, an independent appraisal by EAC was required which had not been done as per paragraph 7(ii) of the 2006 Notification. The present case was a case of 'expansion'. It is also submitted that the present project was Category B-I project for which procedure to be followed was screening, scoping and then evaluation. It has been taken as Category B-II project on the ground that the area was less than 1.5 lakh sq.m. Infact, the entire area should have been taken into account and not merely a particular building. It should be taken as B-I Category as the environment impact was on the whole area. The project was part of the main project of Gandhinagar lay out which involved construction in the area of 2.16 lakhs sq.m. Taking every building as a separate project defeats the requirement of environment law of which sustainable development and precautionary principles are inherent components. Even as B-II Category project, procedure of evaluation has not been followed treating the matter to be

only of 'amendment' of earlier EC instead of expansion which required fresh EIA. The concerned authorities thus, acted to contrary to the Public Trust Doctrine.

9. Alternatively, it is submitted that as construction started prior to EC, it attracted Notification dated 12.12.2012, requiring d*e novo* procedure to be followed.

10. Expansion of the project required submission of fresh Form I and Form IA. Additional construction sought by amendment was also completed prior to the amended EC in violation of Office Memorandum dated 12.12.2012 and 27.06.2013 issued by Ministry of Environment, Forest and Climate Change (MoEF&CC). The FSI of 4.14 was used illegally against FSI of 2.5 as stipulated in Rule 33(5) of Development Control Regulation (DCR).

11. In their reply, the Authorities of the State of Maharashtra, respondent No. 1 to 3 have supported the impugned order by submitting that extent of project was less than 1.5 lakh sq.m. The original EC was granted on 02.05.2013. Amendment was sought on 24.09.2013, which was granted on 13.03.2014 as it was case of only 'amendment' and not 'expansion'. It was observed that the amendment was marginal and impact of environment was minimal. The amendment allowed is as follows:-

"

Description	As per EC dated 2nd May, 2013	Amendment
FSI area	16,346.32 sq.m.	21,365.54 sq.m.
Non FSI area	16,048.85 Sq.m.	19,115.34 Sq.m.
Total construction	32,395.17 Sq.m.	40,480.88 Sq.m.

area				
No. of Tenements	Members: 64 Sale: 61		Members: 64 Sale: 77	
Building configuration	Member	2 Basements + Ground + 2 Podium + stilt + 16 floors	Member	2 Basements + Ground + 2 Podium + stilt + 18 floors
	Sale	2 Basements + Ground + 2 Podium + stilt (Pt) + 1st (Pt) +2nd to 15th floors + 16th (Pt) Floors	Sale	2 Basements + Ground + 2 Podium + stilt + 18 floors
Building Height	59.30 m		69.95 m	
Total water requirement	98 KLD		109 KLD	
a) Domestic water	61 KLD		63 KLD	
Recycled water	39 KLD		42 KLD	
Waste water	76 KLD		84 KLD	
STP capacity	84 KLD		92 KLD	
Solid waste generation	282 Kg/day		353/day	
Total capital cost for EMP	Rs. 250 Crores		-	
Parking details	Required : 157 Nos. Provided : 512 Nos.		Required : 295 Nos. Provided : 295 Nos.	

"

12. The project proponent has also filed reply stating that construction commenced in the year 2010. The plot was initially developed in 1962 as part of larger lay out referred to as Gandhinagar. Respondent No. 4, Maharashtra Housing and Area Development Authority, initiated scheme for formation

and registration of cooperative societies. Each of the societies had absolute possession of respective plots. The present plot was initially combined with another adjoining plot but in 1997, payment was made for additional FSI. In 2002 a separate society was formed i.e. respondent No. 7, Model Co-operative Housing Society Ltd. Lease deed and Sale deed dated 10.08.2007 were executed in favour of respondent No. 7. Scheme for redevelopment was formulated under Rule 33(5) of the DCR for which enhanced FSI of 2.5 was allowed. Thus, redevelopment was as per Rules and NOC for redevelopment was given under DCR 33(5) on 31.05.2010. Commencement certificate was issued on 06.06.2010. Members of respondent No. 7 Cooperative Society were living in temporary alternative accommodation, awaiting construction. The project proponent halted construction and recommenced after 02.05.2013. After additional FSI was allowed on 21.10.2013, the project proponent, in anticipation, sought amendment of the EC by letter dated 23.08.2013. Since it was a minor amendment, as per consistent practice amendment was allowed. The expansion cannot be held to be a new project nor expansion.

13. We have heard the learned counsel for the parties.

14. As already noted, the question for consideration is whether the impugned order treating the expansion as 'an amendment in EC' is valid in law in view of requirements of Clause 2 of the 2006 Notification providing that prior EC is required for any project or activity in respect of 'new projects' as well as 'expansion' of the project mentioned in the schedule. Item 8(a) of the Schedule refers to building and construction projects having built up area of more than 20,000 sq.m. and less than 1.5 lakhs sq.m.

15. The plea taken by the respondents is that there is consistent practice of treating expansion as minor amendment.

16. We are of the clear view that there is no legal sanction for such alleged consistent practice in view of express provision of the EIA Notification, 2006. No project can be set up or expanded without prior EC. Such requirement cannot be nullified by terming 'expansion' as 'amendment'. Para 2 of the EIA Notification dated 14.09.2006 is as follows:-

> **"***2. Requirements of prior Environmental Clearance (EC):- The following projects or activities shall require prior environmental clearance from the concerned regulatory authority, which shall hereinafter referred to be as the Central Government in the Ministry of Environment and Forests for matters falling under Category 'A' in the Schedule and at State level the State Environment Impact Assessment Authority (SEIAA) for matters falling under Category 'B' in the said Schedule, before any construction work, or preparation of land by the project management except for securing the land, is started on the project or activity:*
> *(i) All new projects or activities listed in the Schedule to this notification;*
> *(ii) Expansion and modernization of existing projects or activities listed in the Schedule to this notification with addition of capacity beyond the limits specified for the concerned sector, that is, projects or activities which cross the threshold limits given in the Schedule, after expansion or modernization;*
> *(iii) Any change in product - mix in an existing manufacturing unit included in Schedule beyond the specified range***."**

17. Entry 8(a) of the Schedule to the notification is as follows:

"

Building/construction projects/ Area Development projects and Townships			
8(a)	Building and Construction projects	≥20000 sq.mtrs and *<1,50,000 sq. mtrs of built-up area#*	*(The built-up area for the purpose of this notification is defined as "the built-up or covered area on all the floors*

			put together including basement(s) and other service areas, which are proposed in the building /construction projects)

"

18. Paragraph 7(ii) of the notification is as under:

> ***"**7(ii). Prior Environmental Clearance (EC) process for Expansion or Modernization or Change of product mix in existing projects: All applications seeking prior environmental clearance for expansion with increase in the production capacity beyond the capacity for which prior environmental clearance has been granted under this notification or with increase in either lease area or production capacity in the case of mining projects or for the modernization of an existing unit with increase in the total production capacity beyond the threshold limit prescribed in the Schedule to this notification through change in process and or technology or involving a change in the product –mix shall be made in Form I and they shall be considered by the concerned Expert Appraisal Committee or State Level Expert Appraisal Committee within sixty days, who will decide on the due diligence necessary including preparation of EIA and public consultations and the application shall be appraised accordingly for grant of environmental clearance.**"**

19. Thus, the impugned order dated 13.03.2014 cannot be sustained and is liable to be quashed. Since the statutory procedure for grant of EC to the expansion of the project has not been followed, the relevant factors, including the carrying capacity of the area, having regard to the impact of expansion on the recipient environment, specifically water and air quality have not been examined by the SEAC.

20. Though vide the order dated 02.05.2013 while granting EC, a condition was imposed under para 3 (iii) that Consent to Establish shall be obtained from the Maharashtra Pollution Control Board under the Air (Prevention and Control of

Pollution Act, 1981 and Water (Prevention and Control of Pollution Act, 1974, whether or not such consent has been obtained is not clear. Since construction has already been completed even before the amended EC was granted, question is what remedial steps are to be taken for violation of law restoring the environment.

21. We note the submission that area is already highly congested and with the expansion of the project, there is adverse impact on the environment, including the air quality, and the water quality because of added municipal waste including sewage and because of further congestion including traffic.

22. Our approach is to be informed by the ground situation of environment. As per WHO list, out of the 10 most polluted cities in the world, 9 are in India.[1] Almost 7 million deaths were caused by household and outdoor pollution in the year 2016.[2] Large number of people suffer diseases such as lung and heart diseases. As per official figures, there are 102 "non attainment cities" in India where air quality exceeds the prescribed norms which issue has been subject matter of order of this Tribunal dated 08.10.2018 in Original Application No. 681/2018, *"News Item Published In 'The Times of India' Authored by Shri. Vishwa Mohan Titled "NCAP with Multiple Timelines to Clear Air in 102 Cities to be released around August 15".* As per some studies, according to Sustainable Cities Index, 2015, Mumbai is one of the least sustainable cities in the world[3].

[1] https://www.cnbc.com/2018/05/03/here-are-the-worlds-10-most-polluted-cities--9-are-in-india.html
[2] https://www.indiatoday.in/education-today/gk-current-affairs/story/14-worlds-most- polluted-15-cities -india-kanpur- tops-who-list-1224730-2018-05-02
[3] Https://s3.amazonaws.com/arcadis-whitepaper/arcadis-sustainable-cities-index-report.pdf

23. Conscious of the threat posed to limited natural resources due to their overuse, this Tribunal in *Metro Transit Pvt. Ltd Vs. South Delhi Municipal Corporation & Ors.*[4] directed the Ministry of Transport to take initiative to assess the number of vehicles to be permitted proportionate to the capacity of the roads in the city in the larger interest of environment. This Tribunal has also directed in *SPOKE Vs. M/s. Kasauli Glaxie Resorts and other connected matters*[5] to frame guidelines with respect to Carrying Capacity assessment for similarly placed hill stations as Kasauli and Eco-Sensitive Zone (ESZ) notified by MoEF&CC to check hazards of unregulated development threatening the fragile ecology. In *D.V. Girish v. Union of India & Ors.*[6] this Tribunal has directed the Ministry of Urban Development and MOEF& CC to conduct detailed Carrying Capacity study to assess the impact of factors such as construction of resorts, new civil structures, availability of water resources, power lines, soil erosion, extraction of ground water, waste generation and handling, road traffic and pollution and evolve a management plan for preservation of Chikkmangaluru district. Further, in *Social Action for Forest and Environment (SAFE) & Ors. v. Union of India and Ors.*[7] it was observed that the relevance of the concept of Carrying Capacity to the concept of sustainability adds to its value for organizing the management framework.

[4] Order dated 23.10.2018 in OA No. 773/2018
[5] Order dated 05.10.2018 in O.A. No. 218/2017
[6] Order dated 30.07.2018 in O.A. No. 462/2018
[7] Order dated 10.12.2015 in O.A. No. 87/2015

24. Bombay is highly congested city and any further constructions must be strictly legal. Any illegal construction must be visited with permissible adverse legal action.

25. Carrying capacity is integral to the principles of Sustainable Development and Polluter Pays principle. As a yardstick of sustainability, urban carrying capacity is an important conceptual underpinning that must guide a welfare state in promoting sustainable urban development. "Urban disease" frequently besetting the cities such as traffic congestion, housing shortage, lack of amenity, pose actual challenges and impediments to sustainable development. Severely straining and degrading the available natural resources of a particular area without regard to capacity assessment is causing irreversible damage to the ecology in terms of pollution of air, water and earth. In light of serious threat, this Tribunal in Original Application No. 568 of 2016, *Ajay Khera Vs. Container Corporation of India Limited & Ors.* vide order dated 26.10.2018, posed the following questions:

(a) What would happen to the traffic flow if all roads become parking?

(b) What happens to the road travelers, if there is no adequate oxygen in the air on account of excessive vehicles and congestion?

(c) How would unlimited housing be provided to people if the land resources are exhausted at particular place?

(d) How will waste water and solid waste disposal needs be met, if there is unplanned population

density in a particular city? These questions require serious consideration.

26. Natural resources have got to be tapped for the purposes of social development but one cannot forget at the same time that tapping of resources have to be done with realistic approach to capacity of a city or area so that environment may not be affected in any serious way. It has always to be remembered that both the air and water as resource are not without limitation.

27. It is pointed out that 16 additional flats which have being constructed by way of expansion have been sold at the cost of Rs. 6 crores per flat.

28. As regards the question whether EIA is mandatorily required, it may be noted that EIA has been recognised as the most valuable, inter-disciplinary and objective decision-making tool with respect to alternate routes for development, process technologies and project sites. It is considered an ideal anticipatory mechanism allowing measures that ensure environmental compatibility in our quest for socio-economic development. In fact, the whole concept is based on jurisprudential principle of 'Sustainable Development' and 'Precautionary Principle' though statutory basis has been provided to the same for effective enforcement.

29. The projects covered by the Notification dated 14.09.2006 cannot be undertaken without environmental clearance. This may invite prosecution and punishment under section 15 of the Environment (Protection) Act, 1986 or other provisions. Mere fact that a project is not covered by the said notification is not

conclusive to negate such requirement if impact on environment justifies it. One cannot ignore that impact assessment in all cases of potential impact is by itself a part of concept of sustainable development, which in turn is part of Article 21. Thus, even where notification does not require EIA, such requirement may apply by virtue of Article 21, if there is potential of impact on environment. In such a case the Court or Tribunal concerned with enforcement of principle of sustainable development can require this to be done, as mandatory condition, for continuing a project. In our jurisprudence, the protection of environment is fully ingrained. It is not only a part of Directive Principles under Article 48A and Fundamental Duties under Article 51A(g), but also inherent in the Fundamental Right under Article 21 of the Constitution. Principles of Sustainable Development, Precautionary Principle, and Intergenerational Equity are not only part of our jurisprudence, in terms of case law but also incorporated in Section 20 of National Green Tribunal Act, 2010. Needs for development have to be fulfilled consistent with these principles. There can be no development at the cost of environment.[8]

30. Environmental laws are required to be read into every activity adversely impacting environment. Grant of any permission or sanction by any authority has always to be read as subject to inherent limitation of the environment norms being maintained. Once pollution is being created, mere permission/

[8] Intellectuals Forum Vs. State of A.P - (2006) 3 SCC 549, Bombay Dyeing & Mfg. Co. Ltd. - (2006) 3 SCC 434, M.C. Mehta v. Union of India - (2004) 12 SCC 118, Tirupur Dyeing Factory Owners Assn. v. Noyyal River Ayacutdar Protection Assn - (2009) 9 SCC 737, T.N. Godavarman Thirumulpad v. Union of India - (2000) 10 SCC 606, Narmada Bachao Andolan v. Union of India - (2000) 10 SCC 664, Vellore Citizens Welfare Forum Vs. Union of India and Ors. (1996) 56 SCC 647, N.D. Jayal and Ors. Vs. Union of India and Ors. (2004) 9 SCC 362, Lafarge Umiam Mining (P) Ltd., Vs. Union of India and Ors. (2011) 7 SCC 338, and G. Sundarrajan Vs. Union of India and Ors. (2013) 6 SCC 620

sanction by itself is no defense. While absence of a sanction may by itself be violation of law, even grant of sanction is never to be treated as unconditional and does not obviate the requirement to maintain environment norms. Adverse impact on environment is actionable in all situations. Accordingly, if there is an impact to the environment, there must be an Environment Impact Assessment. The fact remains that flats may have been allotted in which case it may be difficult to disturb or penalize such occupants who may not be party to violations. Still, the Tribunal cannot be mute spectator as far as the project proponent, respondent No. 6 is concerned. In this light, to uphold the Rule of Law, it is necessary that the violators are required to compensate for their illegal acts which may also act as a deterrent against those project proponents who circumvent the law to suit their convenience. This is also in conformity with 'Polluter Pays' principle.

31. By way of an interim arrangement, let the project proponent deposit a sum of Rs. 1 crore with the CPCB within one month towards interim cost of damage to the environment. The Committee which we propose may suggest the amount which should be recovered for such violation so that the amount can be deterrent and dissuade violaters of law and also to cover the cost of restoration of the environment.

32. Our experience shows that present is not the only case of illegal construction. Such activity is rampant posing serious challenge to environment. It appears to be necessary to obtain a report from experts on factual situation and approach to be adopted in handling such issues when construction is made without valid EC.

33. We constitute a five member Expert Committee comprising of two representatives of Central Pollution Control Board (CPCB) (one engineer and one scientist), one representative of NEERI and two members of SEAC (one engineer and one scientist) to carry out Carrying Capacity study of the area for relevant environment parameters and impact of such expansion on already congested and stressed areas. The Committee may suggest remedial measures including action against violaters of law who complete projects in violation of mandatory provisions making the situation irreversible, parameters for appraisal of such projects even if such projects are within FSI when cities are already highly congested with no sufficient space for traffic and open areas and the cost of restoration of environment. The Committee may furnish its report to this Tribunal by e-mail at ngt.filing@gmail.com on or before 30.04.2019.

34. We observe that while evaluating matters of similar nature SEAC/SEIAA may take into account the impact of expansion activity in a holistic manner rather than treating such activity on standalone basis or as an isolated component as has been done in the present case.

35. The expenses of the Committee shall be initially borne by the State Pollution Control Board which may be recovered from the project proponent who has violated the law. The nodal agency will be the CPCB for coordination and compliance of this order. A copy of this order be sent to CPCB by e-mail.

36. We permit the parties to give their respective representations and relevant documents to the CPCB within two weeks.

List for further consideration on 16.05.2019.

Adarsh Kumar Goel, CP

K. Ramakrishnan, JM

Dr. Nagin Nanda, EM

February 11, 2019
Appeal No. 122/2018
(Earlier Appeal No. 9/2014) (WZ)
A

ITEM NO.22 COURT NO.11 SECTION XVII

S U P R E M E C O U R T O F I N D I A
RECORD OF PROCEEDINGS

Civil Appeal No(s). 2435/2019

KEYSTONE REALTORS PVT. LTD. Appellant(s)

VERSUS

ANIL V. THARTHARE & ORS. Respondent(s)

(IA No.38352/2019-EXEMPTION FROM FILING C/C OF THE IMPUGNED JUDGMENT and IA No.38351/2019-EX-PARTE STAY and IA No.38354/2019-PERMISSION TO FILE SYNOPSIS AND LIST OF DATES)

Date : 08-03-2019 This appeal was called on for hearing today.

CORAM :
HON'BLE DR. JUSTICE D.Y. CHANDRACHUD
HON'BLE MR. JUSTICE HEMANT GUPTA

For Appellant(s)
Mr. Mukul Rohatgi, Sr. Adv.
Mr. Shyam Divan, Sr. Adv.
Mr. Kunal Tandon, Adv.
Mr. Pranaya Goyal, Adv.
Mr. Nikhil Rohatgi, Adv.
Mr. Abhishek Sharma, Adv.
Ms. Niti Jain, Adv.
Ms. Richa, Adv.
Mr. Yash Bidkur, Adv.
Mr. Aman Raj Gandhi, AOR

For Respondent(s)
Mr. Chirag M. Shroff, Adv.
Ms. Neha Sangwan, Adv.

UPON hearing the counsel the Court made the following
O R D E R

Mr. Mukul Rohatgi, learned senior counsel submitted that Clause 2(ii) of the Notification dated 14 September 2006 (Annexure

Signature Not Verified
Digitally signed by MANISHA SETHI
Date: 2019.03.09 13:07:50 IST
Reason:

A-21) provides for a prior environmental clearances for expansion of existing projects listed in the Schedule envisaging the creation of additional capacity, beyond the threshold limits specified for the

concerned sector.

Item 8(a) of the Schedule sets out limits of 20,000 sq. mtrs. or more but not exceeding 1,50,000 sq. mtrs. of built up area for building/construction projects.

It has been submitted that the expansion in built up area in the present case, as evident from the tabular chart set out in paragraph 11 of the impugned decision, was from 32,395.17 sq. mtrs. to 40,480.88 sq. mtrs and therefore, within the threshold limits.

Issue notice, returnable in six weeks.

In the meantime, the order of the National Green Tribunal dated 11 February 2019 shall remain stayed.

(MANISH SETHI)
COURT MASTER (SH)

(SAROJ KUMARI GAUR)
BRANCH OFFICER

Annexure-3

REPORTABLE

IN THE SUPREME COURT OF INDIA
CIVIL APPELLATE JURISDICTION

Civil Appeal No. 2435 OF 2019

Keystone Realtors Pvt. Ltd. **…Appellant**

Versus

Shri Anil V Tharthare & Ors. **…Respondents**

J U D G M E N T

Dr Dhananjaya Y Chandrachud, J

1. The present Civil Appeal arises from an order dated 11 February 2019 of the Principal Bench of the National Green Tribunal[1]. In its order, the NGT held that the increase in the total construction area of the appellant's project was an "expansion" under a notification (bearing number S.O. 1533) dated 14 September 2006[2] of the Ministry of Environment and Forests. The NGT found that the appellant had undertaken an "expansion" as set out in Paragraph 2 of the EIA

[1] NGT
[2] EIA Notification

Notification without complying with the regulatory procedure prescribed. The appellant was directed to deposit an amount of Rupees one crore with the Central Pollution Control Board[3]. Noting that the construction at the project site had been completed, the NGT appointed a five-member expert committee to study the impact of the appellant's expanded project and to suggest remedial measures.

The facts

2. The appellant is the project proponent of a residential redevelopment, called 'Oriana Residential Project' situated at CTS no 646, 646 (Pt) Gandhinagar, Bandra (East), Mumbai 400050. On 8 June 2010 the appellant received a Commencement Certificate to carry out the development and erect a building situated at the project property. The appellant began construction. When the construction commenced, the total construction area was 8,720.32 square metres. The ambit of the project was expanded, and the constructed area was increased to 32,395.17 square metres. Under the EIA Notification, an Environmental Clearance[4] was necessary if the total construction area exceeded 20,000 square metres. Hence, the appellant applied for an EC under the EIA Notification.

3. The fourth respondent, the State Level Expert Appraisal Committee for Maharashtra[5] recommended the grant of an EC for the project. On 2 May 2013 the third respondent, the State Level Environment Impact Assessment Authority

[3] CPCB
[4] EC
[5] SEAC

for Maharashtra[6], based on the recommendations of the SEAC granted an EC. It is not in dispute that at the time when the EC dated 2 May 2013 was granted, the total construction area of the project was 32,395.17 square metres. The grant of the EC was conditional on the appellant obtaining a 'consent for establishment' from the Maharashtra Pollution Control Board under the Air (Prevention and Control of Pollution) Act 1981 and the Water (Prevention and Control of Pollution) Act 1974.

4. By a letter dated 24 September 2013, the appellant informed the Environment Department of the Government of Maharashtra, the second respondent, that the construction area was being further increased by 8,085.71 square metres, as a result of which the total construction area of the project would stand enhanced to 40,480.88 square metres. In its letter, the appellant sought an 'amendment' to the EC dated 2 May 2013 by the third respondent to reflect the increase in the total construction area. On 13 March 2014, the third respondent granted an 'amendment' to the EC dated 2 May 2013 on the ground that there was only a "marginal increase in built up and construction area". The third respondent noted the changes in the specification of the project as follows:

Description	**As per EC dated 2 May 2013**		**Amendment**	
FSI area	16,346.32 sq mts		21,365.54 sq mts	
Non FSI area	16,048.85 sq mts		19,115.34 sq mts	
Total Construction area	32,395.17 sq mts		40,480.88 sq mts	
Nos of tenements	Members 64	Sale 61	Members 64	Sale 77

[6] SEIAA

Building Configuration	Member	2 Basement	Member	2 Basement

5. The first respondent, claiming to be a resident of MIG Colony, Gandhinagar, Bandra East, Mumbai, challenged the grant of the amended EC dated 13 March 2014 before the Pune Bench of the NGT. In response, the appellant filed two applications, challenging the standing of the first respondent and contending that the challenge was barred by limitation. By an order dated 4 May 2016, the Pune Bench of the NGT rejected the applications questioning the maintainability of the proceedings and setting up the bar of limitation. The appellant filed a writ petition before the High Court of Judicature at Bombay to challenge the decision of the Pune Bench of the NGT. The Bombay High Court, allowing the writ petition held by an order dated 12 August 2016, that the appeal was not maintainable at the behest of the first respondent, and the challenge against the grant of the amended EC dated 13 March 2014 was barred by limitation. By an administrative order dated 31 July 2018, the dispute was transferred from the Pune Bench of the NGT to the Principal Bench which heard the parties and delivered the impugned order.

Relevant clauses of the EIA Notification

6. The present dispute raises important questions regarding the interpretation the EIA Notification. The EIA Notification seeks to ensure the protection and preservation of the environment during the execution of new projects and the expansion or modernisation of existing projects. It imposes restrictions on the execution of new projects and on the expansion of existing projects, until their

potential environmental impact has been assessed and approved by the grant of an EC. Paragraph 2 of the EIA Notification reads thus:

> "**2. Requirement for prior Environmental Clearance (EC): -** The following projects or activities shall require prior environmental clearance from the concerned regulatory authority, which shall hereinafter be referred to as the Central Government in the Ministry of Environment and Forests for matters falling under Category 'A' in the Schedule and at State level the State Environment Impact Assessment Authority (SEIAA) for matters falling under Category 'B' in the said Schedule, before any construction work, or preparation of land by the project management except for securing the land, is started on the project or activity:
>
> (i) All new projects or activities listed in the Schedule to this notification;
>
> (ii) **Expansion and modernisation of existing projects or activities listed in the Schedule to this notification with addition of capacity beyond the limits specified for the concerned sector, that is, projects or activities which cross the threshold limits given in the Schedule after expansion or modernisation;**
>
> (iii) Any change in product – mix in an existing manufacturing unit included in Schedule beyond the specified range."
>
> (Emphasis supplied)

The Schedule to the EIA Notification classifies potential projects into Category 'A' and Category 'B' based on their size and potential environmental impact. Category 'A' projects require project proponents to secure an EC from the Ministry of Environment, Forests and Climate Change. Category 'B' projects require project proponents to secure an EC from the SEIAA, based on the recommendations of the SEAC. Where a project falls within the parameters stipulated in the Schedule, paragraph 2 of the EIA Notification provides that no construction work shall begin unless an EC is granted in regard to three types of activity: (i) new projects or activities provided in the Schedule, (ii) expansion or

modernisation of existing projects or activities provided in the Schedule, and (iii) changes in the product mix in existing manufacturing units provided in the Schedule beyond the specified range. The present dispute raises questions as to how the second type of activity, the "expansion" of existing projects, should be construed under the EIA Notification.

7. In order to secure an EC, the project proponent must submit an application in the manner set out in Form 1 and Supplementary Form 1A (if applicable) of the EIA Notification. Under paragraph 7(i) of the EIA Notification, the project proponent must also submit a pre-feasibility report. However, in the case of projects under item 8 of the Schedule, only a conceptual plan is required to be submitted. Paragraph 7(ii) of the EIA Notification states that:

> "**7(ii) Prior Environmental Clearance (EC) process for Expansion or Modernisation of Change of product mix in existing projects:**
>
> **All applications seeking prior environmental clearance for expansion with increase in the production capacity beyond the capacity for which prior environmental clearance has been granted under this notification or with increase in either lease area** or production capacity in the case of mining projects or for the modernisation of an existing unit with increase in the total production capacity beyond the threshold limit prescribed in the Schedule to this notification through change in process and or technology or involving a change in the product mix **shall be made in Form 1 and they shall be considered by the concerned Expert Appraisal Committee or State Level Expert Appraisal Committee within sixty days, who will decide on the due diligence necessary including preparation of EIA and public consultation** and the application shall be appraised accordingly for grant of environmental clearance."
>
> (Emphasis supplied)

Clause (ii) of paragraph 2 of the EIA Notification requires the project proponent to secure an EC from the relevant regulatory authority prior to undertaking any "expansion" of an existing project. Paragraph 7(ii) further stipulates that all applications for an EC in cases of "expansion" resulting in the increase of production capacity or lease area beyond the capacity/area stipulated in the previous EC shall be made in the manner set out in Form 1 or 1A (as applicable).

8. The appellant's application in Form 1 acknowledges that the project fell under entry 8(a) of Schedule 1 of the EIA Notification. Entry 8 deals with 'Building and Construction projects having a built-up area of or greater than 20,000 square metres but less than 1,50,000 square metres.' Entry 8 of the Schedule to the EIA Notification is as follows:

8 – Building / Construction projects / Area Development projects and Townships			
8(a)	Building and Construction projects	≥20,000 sq mts and <1,50,000 sq mts of built-up area	Built-up area for covered construction: in the case of facilities open to the sky, it will be the activity area
8(b)	Townships and Area Development projects	Covering an area ≥ 50 ha and or built up area ≥1,50,000 sq mts	All projects under item 8(b) shall be appraised as Category B1

Issue

9. In applying for the original EC, the appellant submitted an application in Form 1 as required under the provisions of the EIA Notification. The total construction area identified in the appellant's Form 1 was 32,395.17 square metres. However, in September 2013 the appellant informed the second respondent of an increase by 8,085.71 square metres as a result of which the total construction area of the project would be 40,480.88 square metres. In seeking an 'amendment' to the EC dated 2 May 2013 the appellant did not submit an updated Form 1. Further, the 'amendment' to the EC was granted by the SEIAA without the recommendations of the SEAC. The issue before this Court is whether the 'amended' EC dated 13 March 2014 granted by the SEIAA without following the procedure stipulated in paragraph 7(ii) of the EIA Notification is valid.

Submissions

10. Mr Mukul Rohatgi, learned Senior Counsel appearing on behalf of the appellant submitted that:

(i) When construction began, the total construction area of the appellant's project was 8,720.32 square metres. As the EIA Notification requires projects with a total built up area of or more than 20,000 square metres to procure an EC prior to the start of construction, no EC was required before construction of the appellant's project commenced;

(ii) Pursuant to the first increase, when the appellant's project crossed the 20,000 square metre threshold provided for in the EIA Notification, the appellant submitted a Form 1 and was granted a valid EC dated 2 May 2013 by the third respondent;

(iii) Pursuant to the second increase, the built up area of the appellant's project only marginally increased by 8,085.71 square metres to a total construction area of 40,480.88 square metres, which is within the upper limit of 1,50,000 square metres prescribed by entry 8(a) of the Schedule to the EIA Notification. Therefore, the second increase was not an "expansion" within the meaning of clause (ii) of paragraph 2 of the EIA Notification and no fresh Form 1 or EC was required at the time of the second increase;

(iv) Clause (ii) of paragraph 2 only applies to situations where the project crosses the lower or upper threshold limits stipulated in the Schedule. Any increase in production capacity or construction area within the limits set out in the Schedule would not constitute an "expansion" within the meaning of Clause (ii) of paragraph 2 and does not require compliance with the procedure under paragraph 7(ii) of the EIA Notification;

(v) The increase in the appellant's project is only marginal and does not have an adverse impact on the environment;

(vi) The SEIAA applied its mind to the appellant's request for an 'amendment'; noted that the increase in construction area was only

marginal and issued an amendment to the original EC dated 2 May 2013; and

(vii) The NGT had no basis to impose the fine of Rupees one crore on the appellant.

11. Joining issue with the above submissions, Mr Aditya Pratap, learned counsel appearing on behalf of the first respondent submitted that:

(i) Under clause (ii) of paragraph 2 read with paragraph 7(ii) of the EIA Notification, any expansion beyond the "threshold limit" requires a fresh EC. The appellant's project had crossed the threshold limit of 20,000 square metres and the second increase of 8,085.71 square metres constituted an 'expansion beyond the threshold limit' and hence required a fresh EC;

(ii) Once a project breaches the lower threshold limit set out in the Schedule to the EIA Notification, any expansion or modernisation, even within the upper threshold set out in the Schedule, will require the submission of a fresh Form 1 and the matter to be placed before the Expert Appraisal Committee or the SEAC, as applicable in accordance with paragraph 7(ii) of the EIA Notification;

(iii) Adopting the appellant's interpretation of clause (ii) of paragraph 2 would defeat the object and purpose of the EIA Notification as a whole. It would allow project proponents to incrementally increase

the construction area and over time significantly impinge on the environmental impact of the project without seeking a fresh EC;

(iv) If the law prescribes an act to be done in a particular manner, it must be done only in that manner and no other. Under paragraph 7(ii) of the EIA Notification, it was incumbent on the SEIAA to place the matter before the SEAC for appraisal and recommendations; and

(v) The EIA Notification is an operationalisation of the precautionary principle, which forms a part of the environmental law of India. The EIA Notification must be read in a manner which gives effect to the precautionary principle.

Interpreting paragraphs 2 and 7

12. The central controversy between the parties to the present dispute is the manner in which paragraphs 2 and 7 of the EIA Notification should be interpreted. Clause (ii) of paragraph 2 of the EIA Notification stipulates that a project proponent shall require an EC prior to the start of construction in the case of an "expansion". Clause (ii) uses the phrase "expansion…beyond the limits specified for the concerned sector". The first respondent sought to lay emphasis on this construction to argue that any expansion beyond the lower limit stipulated in the Schedule would attract the requirement of a prior EC under paragraph 2. However, the above language in clause (ii) is further qualified by the phrase "that is, projects or activities which cross the threshold limits given in the Schedule

after expansion or modernisation." A plain reading of the second half of clause (ii) would indicate that it applies to cases where a project was initially below the threshold limits stipulated in the Schedule but after the proposed expansion, would breach the threshold limits. Clause (ii) of paragraph 2 of the EIA Notification therefore would not appear to cover a case where a project had already crossed the lower threshold limit set out in the Schedule and the expansion does not cross the upper limit stipulated by the Schedule.

13. However, clause (ii) of paragraph 2 must be read with paragraph 7(ii) of the EIA Notification. Paragraph 7(ii) lays down the exact procedure to be followed by a project proponent in the case of an expansion. Two crucial points must be noted with respect to paragraph 7(ii). First, it uses the phrase, "expansion with increase in production capacity beyond the capacity for which prior environment clearance has been granted". Second, the qualifying language referring to breaching the threshold limits "after expansion" is absent. An "expansion" can occur even after the grant of an EC when the project first crossed the lower limit stipulated in the threshold and it is not necessary for the project to breach the upper limit after the expansion. Therefore, a close reading of paragraph 7(ii) would support the interpretation put forth by the first respondent – that even after obtaining an EC if the project is expanded beyond the limits for which the prior EC was obtained, a fresh application would need to be made even if the expansion is within upper the limit prescribed in the Schedule.

14. The dangers effectively articulated by the learned counsel for the first respondent are real. If clause (ii) of paragraph 2 does not cover a case where the expansion is within the limits stipulated by the Schedule, a project proponent may incrementally keep increasing the size of the project area over time resulting in a significant increase in the project size without an assessment of the environmental impact resulting from the expansion. Such an outcome would defeat the entire scheme of the EIA Notification which is to ensure that any new or additional environmental impact is assessed and certified by the relevant regulatory authorities. In the present case, the lower limit of Entry 8(a) of the Schedule is a built up area of 20,000 square metres and the upper limit is 1,50,000 square metres. It cannot be doubted that the environmental impact of a construction of 1,50,000 square metres is drastically more than construction of 20,000 square metres. If the appellant's argument is accepted in totality, a project proponent could potentially secure an EC for constructing 20,000 square metres and by 'amendment' steadily increase the area of construction up to 1,50,000 square metres without submitting an updated Form 1 or any substantive review by the SEAC.

15. We note that subsequent to the EIA Notification being published in 2006, a draft notification was issued on 19 January 2009.[7] The draft notification proposed the following amendment:

> "in para 2 [of the EIA Notification], after sub-para (iii), the following shall be inserted; namely:-

[7] Notification S.O. 195 (E) dated 19 January 2009.

> However modernisation or expansion proposals without any increase in pollution load, and, or without any additional water and or land requirement are exempted from the provisions of this Notification:
>
> Provided that, a self certification, stating that the proposals shall not involve any additional pollution load, waste generation or water requirement, be submitted to the regulatory authority by the project proponent."

Prior to adopting the draft notification, hearings were conducted and written comments were solicited from various stakeholders including: (i) Central Ministries and Departments, (ii) State Governments and their Agencies, (ii) Industries and their Associations and (iv) Civil Society including NGOs. A committee was constituted by the Ministry of Environment and Forests, Government of India which published a report in October 2009. The committee specifically recommended against the adoption of the above amendment, noting:

> "The amendments propose to exempt modernisation and expansion of projects based on a self certification by project authorities that there is no increase in pollution load. **It is totally unacceptable that the modernisation and expansion of projects be removed from the environmental clearance regime, with or without the requirement of self certification.** There are several industries operating in critically polluted areas or are in violation of their environmental clearance conditions, which need to be considered before the expansion of a project is considered. What is to be considered is not just whether there is an increase in pollution load but also the current impact of the project and its compliance with environmental clearance conditions. We can provide clear examples wherein the non-compliance of the clearance conditions has not been considered while granting clearance for expansion which includes adding new components to the existing industrial operations etc. This has allowed several projects to continue their activities and expand despite blatant non compliance. Finally, it is only with industrial, thermal power and other such related operations that one can decide on parameters of pollution. **Development projects like highways, airports and other infrastructure projects which seek to expand might have a detrimental impact due to factors such as**

> **change in land use (i.e. construction over a wetland, grassland or agricultural land etc).** Despite this, the project proponent can certify that there is no change in pollution load and hence expansion is to be allowed. **The current process seeks a detailed EIA report to determine whether impacts can be mitigated. If the amendment is brought into force, it will simply do away with this critical and necessary step in the environmental clearance process.** Therefore, this amendment should not be allowed.
>
> …
>
> The draft notification takes a myopic view of environmental and social impact of modernisation and expansion. **Any modernisation/expansion projects will necessarily entail increase in production, increase in transportation, increase in pressure on the local infrastructure and local natural resources and increase in the pollution load during the construction phase.** So, even if a modernisation/expansion does not lead to an increase in the pollution load or water or land requirement within the factory premises during the operation phase, it will lead to an increase in environmental and social impact outside the premise."
>
> (Emphasis supplied)

The draft amendment was not adopted in subsequent amendments to the EIA Notification. We find considerable merit in the observations of the committee that the requirement of an EC at the time of expansion forms a critical step in the environmental clearance regime. According to the committee, it assists officials not just in evaluating and mitigating any adverse impact caused by the expansion but also in assessing whether the project proponent is in compliance with their existing obligations. Crucially, any form of expansion necessarily puts a strain on the local environment and infrastructure and needs to be carefully evaluated in a holistic manner.

16. In a case where the text of the provisions requires interpretation, this Court must adopt an interpretation which is in consonance with the object and purpose of the legislation or delegated legislation as a whole. The EIA Notification was adopted with the intention of restricting new projects and the expansion of new projects until their environmental impact could be evaluated and understood. It cannot be disputed that as the size of the project increases, so does the magnitude of the project's environmental impact. This Court cannot adopt an interpretation of the EIA Notification which would permit, incrementally or otherwise, project proponents to increase the construction area of a project without any oversight from the Expert Appraisal Committee or the SEAC, as applicable. It is true that there may exist certain situations where the expansion sought by a project proponent is truly marginal or the environmental impact of such expansion is non-existent. However, it is not for this Court to lay down a bright-line test as to what constitutes a 'marginal' increase and what constitutes a material increase warranting a fresh Form 1 and scrutiny by the Expert Appraisal Committee. If the government in its wisdom were to prescribe that a one-time 'marginal' increase (e.g. 5% or 10%) in project size, within the threshold limit stipulated in the Schedule, could be subject to a lower standard of scrutiny without diluting the urgent need for environmental protection, conceivably this Court may give effect to such a provision. This would be subject to any challenge on the ground of their being a violation of the precautionary principle. However, as the EIA Notification currently stands, an expansion within the limits prescribed by the Schedules would be subject to the procedure set out in paragraph 7(ii).

17. At the time of the second increase, the total construction area of the appellant's project was enlarged from 32,395.17 square metres to 40,480.88 square metres. As a result of the expansion, the appellant constructed sixteen additional flats which were sold at the prevailing market rate. The appellant did not comply with the procedure set out under paragraph 7(ii) of the EIA Notification but rather sought an 'amendment' to the EC. The third respondent did not require the appellant to submit an updated Form 1 nor was the proposal processed and evaluated by the fourth respondent. The 'amendment' to the EC dated 13 March 2014 does not discuss the potential environmental impact of the increase in construction area, but merely records that the construction area now stands at 40,480.88 square metres. The procedure set out under paragraph 7(ii) of the EIA Notification exists to ensure that where a project is expanded in size, the environmental impact on the surrounding area is evaluated holistically considering all the relevant factors including air and water availability and pollution, management of solid and wet waste and the urban carrying capacity of the area. This was not done in the case of the appellant's project. It was not open to the third respondent to grant an 'amendment' to the EC without following the procedure set out in paragraph 7(ii) of the EIA Notification.

18. We further note that as on the date of the impugned order construction at the project site had already been completed. A core tenet underlying the entire scheme of the EIA Notification is that construction should not be executed until ample scientific evidence has been compiled so as to understand the true environmental impact of a project. By completing the construction of the project,

the appellant denied the third and fourth respondents the ability to evaluate the environmental impact and suggest methods to mitigate any environmental damage. At this stage, only remedial measures may be taken. The NGT has already directed the appellant to deposit Rupees one crore and has set up an expert committee to evaluate the impact of the appellant's project and suggest remedial measures. In view of these circumstances, we uphold the directions of the NGT and direct that the committee continue its evaluation of the appellant's project so as to bring its environmental impact as close as possible to that contemplated in the EC dated 2 May 2013 and also suggest the compensatory exaction to be imposed on the appellant.

19. The appeal is dismissed. There shall be no order as to costs.

20. Pending application(s), if any, shall stands disposed of.

…….....J
[Dr Dhananjaya Y Chandrachud]

…….....J
[Ajay Rastogi]

New Delhi;
December 3, 2019.

Annexure-4

Item No. 01 (Pune Bench)

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

(By Video Conferencing)

Appeal No.122/2018 (PB)
(Earlier Appeal No. 09/2014 (WZ))

Anil Tharthare Applicant

Versus

The Secretary Environment Deptt. Govt. of Maharashtra & Ors. Respondent(s)

Date of hearing: 07.04.2022

CORAM: HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON
HON'BLE MR. JUSTICE SUDHIR AGARWAL, JUDICIAL MEMBER
HON'BLE MR. JUSTICE ARUN KUMAR TYAGI, JUDICIAL MEMBER
HON'BLE PROF. A. SENTHIL VEL, EXPERT MEMBER
HON'BLE DR. VIJAY KULKARNI, EXPERT MEMBER
HON'BLE DR. AFROZ AHMAD, EXPERT MEMBER

Applicant(s): Mr. Aditya Pratap, Advocate

Respondent(s): Mr. D.M. Gupte, Advocate for SEIAA
Ms. Niti Jain, Advocate for R-6

ORDER

1. This appeal has been preferred against order dated 13.03.2014 passed by the Principal Secretary, Environment-cum-Member Secretary, State Level Environment Impact Assessment Authority (SEIAA), State of Maharashtra granting 'amendment' to the Environment Clearance (EC) dated 02.05.2013 for proposed expansion of redevelopment of 'Oriana Residential Project' on plot bearing C.T.S. No. 646, 646 (Pt.) of village Bandra at Gandhinagar, Bandra East, Mumbai – 400050 by M/s Resilience Realty Pvt. Ltd. This appeal was filed on 10.04.2014 and has been pending.

2. The matter was earlier considered by this Tribunal vide order dated 11.02.2019. It was held that expansion without prior EC was illegal. Amendment of EC instead of EC for expansion of the project was not permissible. The Tribunal also held that since the area was highly congested, expansion of the project could be considered only if there was carrying capacity to sustain the expansion. Accordingly, the Tribunal constituted a five Member Committee having representatives of SEAC, CPCB and NEERI. The Project Proponent preferred an Appeal against the order dated 11.02.2019 which was dismissed by the Hon'ble Supreme Court by Judgement reported in *Keystone Realtors Pvt. Ltd. Vs. Anil V. Tharthare & Ors., (2020) 2 SCC 66*. Concluding part of the judgement of the Hon'ble Supreme Court is:

> "**In view of these circumstances, we uphold the directions of NGT and direct that the committee continue its evaluation of the appellant's project so as to bring its environmental impact as close as possible to that contemplated in EC dated 2-5-2013 and also suggest the compensatory exaction to be imposed on the appellant."**

3. However, we find that the report of the Committee has not been furnished though reasons for the same are not known. Accordingly, the matter has to be deferred to await such report with a direction that the report be now filed positively within two weeks. CPCB and State PCB will be nodal agency for compliance of order of this Tribunal dated 11.02.2019, as affirmed by the Hon'ble Supreme Court.

List for further consideration on 21.07.2022.

A copy of this order be forwarded to CPCB and State PCB by e-mail for compliance.

Adarsh Kumar Goel, CP

Sudhir Agarwal, JM

Arun Kumar Tyagi, JM

Prof. A. Senthil Vel, EM

Dr. Vijay Kulkarni, EM

Dr. Afroz Ahmad, EM

April 07, 2022
Appeal No.122/2018 (PB)
SN

Government of Maharashtra

SEAC 2013/CR-215/TC-1
Environment department,
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai 400 032
Date: 2nd May, 2013

To,

M/s. Resilience Realty Pvt. Ltd
702, Natraj, M.V. Road, Western
Express Highway, Andheri (E),
Mumbai- 400 069.

Subject: Environmental clearance for redevelopment of " Oriana" Residential Project located at plot bearing CTS No. 646(pt) of village Bandra at Gandhinagar, Bandra(East), Mumbai by M/s. Resilience Realty Pvt. Ltd - Environmental clearance regarding.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-II, Maharashtra in its 10th meeting decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 58th Meeting.

2. It is noted that the proposal is for grant of Environmental Clearance for proposed redevelopment of " Oriana" Residential Project located at plot bearing CTS No. 646(pt) of village Bandra at Gandhinagar, Bandra(East), Mumbai. SEAC considered the project under screening category 8(a) B2 as per EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of the Project	Proposed Redevelopment of "Oriana – Residential project"			
Project Proponent	M/s.Resilience Realty Pvt.Ltd			
Consultant	Enviro Analyst & Engineering Pvt. Ltd			
Type of Project:	Redevelopment project.			
Location of the project	Plot bearing C.T.S No. 646(pt) of village Bandra at Gandhinagar, Bandra (East) Mumbai - 400018.			
Total plot area (Sq.m.)	Sr. no	Particulars	Area in Sq.m	
Deductions	1	Area of Plot	4840.0	
Net Plot Area	4	Net Plot Area	4840.0	
Permissible FSI	2.729			
Proposed Built Up Area(FSI & Non FSI)	FSI Area (Sq.mt)	Non-FSI Area (Sq.mt)	Total Construction Area (Sq.mt)	
	16,346.326	16,048.85	32,395.17	
Ground Coverage Area	Total Ground Coverage	2873.80 Sq. mt	59.37 %	

Estimated Cost of the project	Rs. 250 Crores.
Number of Buildings & configuration(s)	The above ground structures will comprise of:

Building	No. of Wings	Configuration
Rehab bldg	1	Common 2 Basements + Ground + 2 Podium + stilt + 16 floors
Sale bldg	1	Common 2 Basements + Ground + 2 Podium + Stilt (Pt) + 1st (Pt) + 2nd to 15th floors + 16th (Pt) Floor.'

Number of tenants and shops		Rehab	Sale	Total
	No. of Tenements	64	61	125

Number of expected residents/users	No of Users	Rehab	Sale	Total
	Residential	320	305	625
	Shop	--	--	--
	TOTAL	320	305	625

Tenant density per hector	258 / hectare

Height of Building(s)	Building	Height
	Rehab Building	59.30 m
	Sale Building	59.30 m

Right of way	24 m wide road at south abutting the project site.
Turning radius	Roads on all three sides.
Total Water Requirement	Dry Season: Fresh water & source: 61 KLD by MCGM Recycled water : 39 KLD (From STP) Total Water Requirement : 98 KLD Swimming pool make up (Cum): 2 cum Fire fighting (UG Tanks) = 275 Cum OH Tanks = 30 cum Wet Season: Fresh Water & Source: 35 KLD(MCGM + 26 KLD (RWH tanks) Recycled Water : 29 KLD (STP treated water) Total Water Requirement : 88 KLD (Including water from RWH Tank) Swimming pool make up : 2 cum Fire fighting (UG Tanks) = 275 Cum OH Tanks = 30 Cum
Rain Water Harvesting (RWH)	Level of the ground water table : 2.5 m – 5.0 m Size and no of RWH tank(s) and quantity: 1 No of tank

Size of the tank	Capacity of the tank
3.5m X 3m X 3m	30 m^3

Size, no. of recharge pits and quantity: No recharge pits provided since water table is at 2.5 m- 5 m.

Total rain water harvested: 26 m^3 / day.

<table>
<tr><td></td><td>Budgetary allocation (capital cost and O&M cost)
Capital cost: Rs. 3 lakhs .
O & M Cost : Rs. 0.12 lakhs</td></tr>
<tr><td>Strom water drainage</td><td>Natural water drainage pattern :
Quantity of storm water: 540 m^3 / hr
Size of SWD: SWD of size 450 mm X 450 mm slope of 1:300</td></tr>
<tr><td>Sewage & Waste Water</td><td>Sewage generation: 76 m^3/day
Capacity of STP: 84 m^3/day
DG Sets (during emergency):
DG set will be provided for backup power to emergency facilities.
For Entire Project - 1 No. of 625 kVA.
Budgetary allocation (capacity cost and O&M cost):
Capital cost : 20 lakhs
O & M Cost : 1.6 lakhs</td></tr>
<tr><td>Solid Waste Management</td><td>Waste generation in the operation phase:
Dry waste (Kg/day):
Rehab:- 65 Kg/Day
Sale :- 62 Kg/Day
Total- 127 Kg/Day

Wet waste (Kg/day):
Rehab :- 79 Kg/Day
Sale:- 76 Kg/Day
Total – 155 Kg/Day
STP sludge: 4.75 kg/day.
Mode of Disposal of Waste:
Dry waste: Will be handed over to MCGM for recycling
Wet Waste: Will be processed in the OWC for manure for landscaping/ gardening
STP Sludge (Dry Sludge): Use as a manure
Budgetary allocation (capital cost and O&M cost)
Capital Cost : Rs. 15 lakhs O & M Cost : Rs. 1.0 lakhs</td></tr>
<tr><td>Energy</td><td>Power Supply: Tata Power / Reliance Energy.
Construction Phase: 80 kW.
Operation Phase:
<table>
<tr><th>Sr. No.</th><th>Description</th><th>Details</th><th>Source</th></tr>
<tr><td>1</td><td>Connected Load (kW)</td><td>2369 kW</td><td rowspan="3">Tata Power / Reliance Energy.</td></tr>
<tr><td>2</td><td>Maximum demand</td><td>958 kW</td></tr>
<tr><td>3</td><td>D.G sets (for essential services)</td><td>1 D.G set of 625 kVA.</td></tr>
</table>
Energy saving by non-conventional method:

<u>ENERGY CONSERVATION MEASURES</u>:
• 100% of external lighting for the RG areas is on solar & other external lighting are on timer circuits to achieve the maximum savings.</td></tr>
</table>

<table>
<tr><td></td><td>

All lifts & Pumps shall be on VFD drives which results in 18% saving in consumption.
All Ventilation fans are controlled with CO sensor which results in 18% saving in consumption.
All internal common area are proposed to work on high energy efficient lamps (T5) with electronic blast as specified in bureau of energy efficieney, which again results in saving by 18% in general consumption.
Also total lighting to be proposed on 25% stages operation with automatic switch on and timer based. Also presence and photo sensors are proposed at critical junctions.
Average saving by adopting energy saving methods shall be 24 %.

Budgetary allocation (capital cost and O&M cost)
For Solar Energy system :
Capital Cost :Rs.6 lakhs
O & M Cost :Rs. 0.6 lakhs
Type of fuel used: HSD.
</td></tr>
<tr><td>Traffic Management</td><td>
No of the junction to the main road & design of confluence:
Entries & Exits : 1 Vehicular Entries & Exits
Roads: 24 m wide Road.
Parking Details:
<table>
<tr><td>Particulars</td><td>Area</td><td>Numbers</td></tr>
<tr><td>Basement Area</td><td>2798.35 Sq. mt</td><td>2</td></tr>
<tr><td>Ground Area</td><td>1226.22 Sq. mt</td><td>–</td></tr>
<tr><td>Podium Area</td><td>3367.58 Sq. mt</td><td>2</td></tr>
<tr><td>Total</td><td colspan="2">7392.15 Sq. Mt</td></tr>
<tr><td>Area per Car</td><td colspan="2">34.38 Sq. Mt</td></tr>
</table>
4 - Wheeler's:- 215 No's.
Width of all Internal roads (m): 6.00 m wide internal roads.
</td></tr>
<tr><td>Environmental Management plan Budgetary Allocation</td><td>
Construction phase
<table>
<tr><td>Sr. No.</td><td>Pollution Control Measures</td><td>Capital Cost (Rs. Lakhs)</td><td>Recurring Cost Per Annum (Rs. Lakhs)</td></tr>
<tr><td>1.</td><td>STP Cost</td><td>20</td><td>1.6</td></tr>
<tr><td>2.</td><td>Solid Waste Management</td><td>15</td><td>1.0</td></tr>
<tr><td>3.</td><td>Green Belt development</td><td>25</td><td>3</td></tr>
<tr><td>4.</td><td>Rain water harvesting</td><td>3.0</td><td>0.12</td></tr>
<tr><td>5.</td><td>Energy</td><td>27</td><td>0.27</td></tr>
</table>
</td></tr>
</table>

	Efficient equipments		
6.	Environmental monitoring	5 (Monitoring charges for air, water, waste water, soil, DG stack, noise etc.)	MOEF approved agency for monitoring
	Total	90.0	11.5

Quantum and generation of Corpus fund and commitment:

3. The proposal has been considered by SEIAA in its 58th meeting decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :-

(i) This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SEIAA) approved the proposed land use.

(ii) The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.

(iii) "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.

(iv) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.

(v) Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.

(vi) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and First Aid Room etc.

(vii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.

(viii) The solid waste generated should be properly collected and segregated. dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material

(ix) Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this.

(x) Arrangement shall be made that waste water and storm water do not get mixed.

(xi) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.

(xii) Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.

(xiii) Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.

(xiv) Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

(xv) Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.

(xvi) Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.

(xvii) Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.

(xviii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.

(xix) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.

(xx) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.

(xxi) Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.

(xxii) Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).

(xxiii) Ready mixed concrete must be used in building construction.

(xxiv) The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of fire fighting equipments etc. as per National Building Code including measures from lighting.

(xxv) Storm water control and its re-use as per CGWB and BIS standards for various applications.

(xxvi) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

(xxvii) The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.

(xxviii) The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Discharge of this unused treated affluent, if any should be discharge in the sewer line. Treated effluent emanating from STP shall be recycled/refused to the maximum extent possible. Discharge of this unused treated affluent, if any should be discharge in the sewer line. Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP.

(xxix) Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.

(xxx) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.

(xxxi) Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.

(xxxii) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.

(xxxiii) Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.

(xxxiv) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement

(xxxv) Energy conservation measures like installation of CFLs /TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid or on conventional energy source as source of energy.

(xxxvi) Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.

(xxxvii) Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.

(xxxviii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.

(xxxix) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement

(xl) The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation

(xli) Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.

(xlii) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.

(xliii) Six monthly monitoring reports should be submitted to the Department and MPCB.

(xliv) A complete set of all the documents submitted to Department should be forwarded to the MPCB

(xlv) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.

(xlvi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

(xlvii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.

(xlviii) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in.

(xlix) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.

(l) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

(li) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO_2, NOx (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

(lii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.

(liii) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project

proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environmental Clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this environmental clearance shall lie with the National Green Tribunal, Van Vigyan Bhawan, Sec- 5, R.K. Puram, New Delhi – 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

(Valsa R Nair Singh)
Secretary, Environment
department & MS, SEIAA

Copy to:

1. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEIAA, 'Jugnu' Kottaram Road, Calicut - 673 006 Kerla.
2. Shri. Ravi Bhushan Budhiraja, Chairman, SEAC-II, 5-South, Dilwara Apartment, Cooperage, M.K.Road, Mumbai 400021
3. Additional Secretary, MOEF, 'Paryavaran Bhawan' CGO Complex, Lodhi Road, New Delhi – 110510
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.

5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar Bhopal- 462 016). (MP).

6. Regional Office, MPCB, Mumbai.

7. Collector, Mumbai.

8. Commissioner, Municipal Corporation Greater Mumbai (MCGM)

9. IA-Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.

10. Select file (TC-3).

Annexure-6

Government of Maharashtra

SEAC-2013/CR.215/TC-1
Environment department,
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai 400 032
Date: 13th March, 2014

To,
M/s. Resilience Reality Pvt Ltd
702, Natraj, M.V. Road,
Western Express Highway,
Andheri (E), Mumbai- 400069

Subject: - Amendment in Environment clearance for proposed Expansion of redevelopment of oriana-Residential Project" on plot bearing C.T.S.No.646, 646(Pt) of village Bandra at gandhinagar, Bandra East, Mumbai-400 050 by M/s. Resilience realty Pvt. Ltd

Reference- Even number environment clearance letter dated 2nd May, 2013

Sir,

This has reference to your communication on the above mentioned subject.

2. It is noted that, the proposal earlier considered by SEAC in its 10th meeting and recommended to SEIAA. SEIAA in its 58th meeting decided to accord grant of EC to the project. Accordingly EC has been issued to the project vide letter no SEAC-2013/CR.215/TC-1 dated 2nd May, 2013. The amendment proposed in the EC letter is due to marginal increase in built up & construction area. Considering the marginal changes and minimal impact on environment SEIAA in its 66th meeting decided to grant the amendment of EC as below-

Description	As per EC dated 2nd May, 2013	Amendment
FSI aera	16,346.32 sq.m	21,365.54 sq.m
Non FSI area	16048.85 Sq.mt	19115.34 Sq. mt
Total construction area	32,395.17 Sq.mt	40480.88 Sq. mt
No. of Tenements	Members: 64 Sale: 61	Members: 64 Sale: 77
Building configuration	Member 2 Basements	Member 2 Basements

		+ Ground + 2 Podium + stilt + 16 floors		+ Ground + 2 Podium + stilt + 18 floors
	Sale	2 Basements + Ground + 2 Podium + Stilt (Pt) + 1st (Pt) + 2nd to 15th floors + 16th (Pt) Floor	Sale	2 Basements + Ground + 2 Podium + stilt + 18 floors
Building Height	59.30 m		69.95 m	
Total water requirement	98 KLD		109 KLD	
a) Domestic water	61 KLD		63 KLD	
Recycled water	39 KLD		42 KLD	
Waste water	76 KLD		84 KLD	
STP capacity	84 KLD		92 KLD	
Solid waste generation	282 Kg/day		353/day	
Total capital cost for EMP	Rs. 250 Crores		-	
Parking details	Required :- 157 Nos Provided: 215 Nos.		Required :- 295Nos Provided: 295Nos.	

Terms and conditions stipulated in even number environment clearance letter dated 2nd May, 2013 remains the same.

(R.A. Rajeev)
Principal Secretary,
Environment department &
MS, SEIAA

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere. Bhulabhai desai road, Breach candy, Mumbai- 400026.
2. Shri. Ravi Bhushan Budhiraja, Chairman, SEAC-II, 5-South, Dilwara Apartment, Cooperage, M.K.Road, Mumbai 400021
3. Additional Secretary, MOEF, 'Paryavaran Bhawan' CGO Complex, Lodhi Road, New Delhi – 110510

4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.

5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).

6. Regional Office, MPCB, Mumbai.

7. Collector, Mumbai

8. Commissioner, Municipal Corporation Greater Mumbai (MCGM)

9. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.

10. Select file (TC-3)

(EC uploaded on 15 March, 2014)

During construction

1. Building costruction activities emission (inclusive of road resuspension fugitive dust)

Nature: **Area source ; temporary**

Parameters

(a) construction area as per 1st EC (in acres)		8.005		
(b) illegal construction area as per EC amendment (in acres)		1.998		
(c) estimated construction duration as per 1st EC (in months)		38.56		
(d) Estimated Construction duration for as per EC amendment (in months)		19.89		
TSP emission as per 1st EC (in Kgs)	=	1200 X (a) X ©	=	370,407.4

2. Vehicular emission (IC Engine exhaust) during costruction activities:

Nature: **Line source ; temporary**

Parameters

(a) Type of vehicle (wrt engine capacity for EF calculation)	=	HCV Diesel Truck > 5000 cc BSIII
(b) No. of vehicles/trips used/made during construction activities as per 1st EC	=	2404
(c) No. of vehicles/trips used/made during construction activities Wrt additional		600
construction (d) Avg. distance travelled per trip (in KMs)	=	10

PM emission as per 1st EC (in Kgs)	=	0.000399 X (b) X (d)	=	**9.59196**
PM emission wrt project expansion (in Kgs)	=	0.000399 X (d) X (c)	=	2.394

Building construcion activities

As per 1st EC: In the absence of actual date of start of construction activities, starting month of activity is considered based on 1st PCC obtained on 08/06/2010 till 23/08/2013, when the PP has applied for expansion EC from exiting 32,395.17 m2 to 40,480.88 m2 to SEIAA. Hence total 38.56 months.

February, 2011

Air quality monitoring, emission inventory and source apportionment study for Indian cities

National Summary Report

www.cpcb.nic.in

Central Pollution Control Board

S. No.	Source/Activity	Common Emission Factor	Reference/Remarks
		TOC=0.022 (For All Process Type) CH_4=0.006(For All Process Type) VOC=0.016(For All Process Type) **(Unit: kg /Mg)**	
30	Glass Manufacturing	TSP=0.7 SO_2=1.7 NO_X=3.1 CO=0.1 VOC=0.1 **(Unit: kg /Ton)**	WHO 1993, Rapid Techniques In Environmental Pollution Part 1 By Alexander P. Economopoulos
31	Lead Oxide And Pigment Production	TSP=7 SO_2=NA NO_X= NA CO= NA VOC= NA Pb=7 **(Unit: kg /Ton)**	WHO 1993, Rapid Techniques In Environmental Pollution Part 1 By Alexander P. Economopoulos
32	Construction (Building)	TSP=1.2 **(Unit: Tons/Acre/ Month Of Activity)**	For Details Refer AP-42 Section 13.2.3.3 Use suitable EF pertinent to the city & 2x2 grid depending upon construction activity
33	Construction Roads (A)	TSP=1.2 **(Unit: Tons/Acre/ Month Of**	For Details Refer AP-42 Section 13.2.3.3 Use suitable EF pertinent to the city & 2x2 grid depending upon construction

Emission Factors (gm/km) for Indian in-service vehicles

Type of Vehicle	PM	Nox	CO	HC	CO2
	g/km	g/km	g/km	g/km	g/km
Moped (4 Stroke) <100 CC BSII	0.0485	0.2600	4.3600	1.1800	30.4200
Scooter (4 Stroke) >100 CC BSII	0.0070	0.2150	1.8150	0.6750	42.3150
Scooter (4 Stroke) >100 CC BSIII	0.0065	0.2320	1.8280	0.4315	38.8830
Motorcycle (4 s) 100 - 200 CC BSII	0.0050	0.2633	1.9000	0.8500	33.2000
Motorcycle (4 s) 100 - 200 CC BSIII	0.0023	0.1993	1.3153	0.5877	32.8660
Motorcycle (4 s) >200 CC BSII	0.0075	0.1650	2.8600	0.5000	46.4200
Motorcycle (4 s) >200 CC BSIII	0.0055	0.3070	0.3930	0.2525	48.1045
Three Wheeler Diesel <500 CC BSII	0.4343	0.8767	3.2667	0.3333	123.9900
Three Wheeler Diesel <500 CC BSIII	0.1403	0.7170	0.3963	0.1380	102.1830
Three Wheeler CNG OEM 4S <200 CC BSII	0.5670	0.1740	1.1068	6.9688	47.0503
Three Wheeler CNG OEM 4S <200 CC BSIII	0.0788	0.9793	0.8685	4.3558	52.1653
Passenger Cars (Gasoline) <1600 CC BSIII	0.0010	0.0395	0.9838	0.0948	138.9405
Passenger Cars (Gasoline) <1600 CC BSIV	0.0021	0.0683	0.8253	0.0790	113.7857
Passenger Cars (Diesel) <1600 CC BSIII	0.0213	0.5483	0.3837	0.0753	137.6147
Passenger Cars (Diesel) <1600 CC BSIV	0.0228	0.4113	0.2988	0.0575	139.8605
Passenger Cars (Diesel) 1600-2400cc BSIII	0.0325	0.2920	0.3490	0.0630	152.4645
Passenger Cars (Diesel) 1600-2400cc BSIV	0.0080	0.3525	0.1510	0.0350	163.6050
Passenger Cars (CNG) <1600 CC BSIII	0.0007	0.7863	3.4340	0.6790	135.7137
Passenger Cars (CNG) <1600 CC BSIV	0.0007	0.0340	1.0205	0.1880	101.5885
MUV Diesel < 3000 CC BSIII	0.0577	0.6400	0.5927	0.1003	196.7147
MUV Diesel < 3000 CC BSIV	0.0493	0.4787	0.4740	0.0493	222.2923
MUV CNG < 3000 CC BSIV	0.0015	0.4070	1.3447	0.4273	132.7353
LCV Diesel < 5000 CC BSIII	0.1207	1.6923	1.4350	0.3013	238.2633
LCV Diesel < 5000 CC BSIV	0.0572	0.9610	0.3964	0.0458	180.8130
HCV Diesel Bus >5000 CC BSIII	0.4820	5.1715	4.7345	0.2118	711.1170
HCV CNG Bus >5000 CC BSIII	0.0225	15.1555	9.2210	7.8015	632.5695
HCV Diesel Truck >5000 CC BSIII	0.3990	8.3530	4.8570	6.1350	822.9397

Annexure-8

DG set capacity (in KVA)	625
Fuel rate (in KG/hr) of diesel	116.6575
PM emission rate(in Kg/hr)	0.011666
average power failure duration(in hrs per annum)	50

using exponential regresssion

PM emission load = 0.583287 kgs of PM per annum

In the absence of actual date of utilization of DG set during construction stage, starting date is considered based on 1st PCC obtained on 08/06/2010 till completion certificate obtained by the PP on 07/11/2015 for full potential as per amended EC. Hence total 5.42 years.

In the absence of actual date of utilization of DG set during operation stage, starting date is considered based on completion certificate obtained by the PP on 07/11/2015 till date of Hon'ble NGT order i.e. 11/02/2019. Hence total 3.2 years.

533

Capacity (kVA)	L/hr	kg/hr = L*(0.85 kg/L)
125	26	22.1
250	52	44.2
500	104	88.4
750	208	176.8
1000	416	353.6

		Diesel	
	SO2, w/w %	0.05	[0.035 - 0.05]
	NOx w/w %	0.8	
	PM w/w %	0.01	

	Fuel per hrs	kg/hrs
125	FOR 125 KVA	22.1
250	FOR 250 KVA	44.2
500	FOR 500 KVA	88.4
750	FOR 750 KVA	176.8
1000	FOR 1000 KVA	353.6

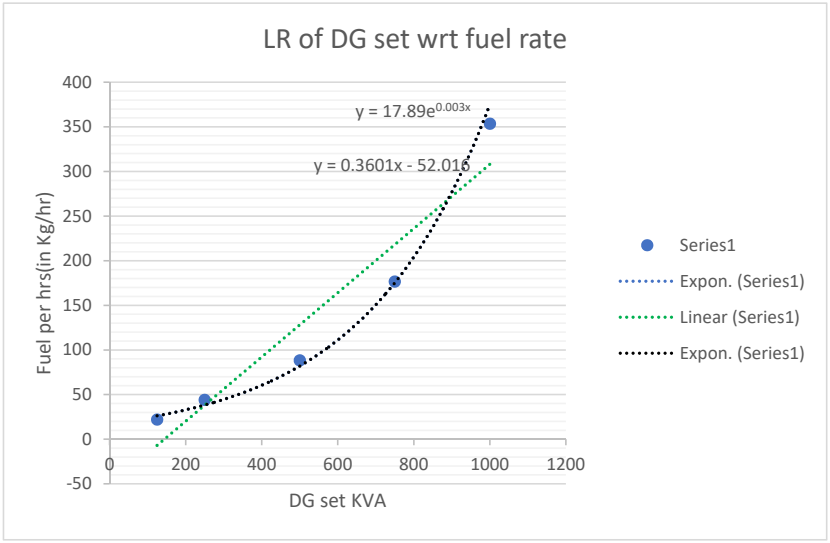
	Sulpher content	kg/hr	g/sec	
125	FOR 125 KVA	0.0111	0.0031	0.0012
250	FOR 250 KVA	0.0221	0.0061	0.0025
500	FOR 500 KVA	0.0442	0.0123	0.0049
750	FOR 750 KVA	0.0884	0.0246	0.0098
1000	FOR 1000 KVA	0.1768	0.0491	0.0196

	Nitrogen content	kg/hr	g/sec	
125	FOR 125 KVA	0.1768	0.0491	0.0196
250	FOR 250 KVA	0.3536	0.0982	0.0393
500	FOR 500 KVA	0.7072	0.1964	0.0786
750	FOR 750 KVA	1.4144	0.3929	0.1572
1000	FOR 1000 KVA	2.8288	0.7858	0.3143

	Particulate Matter	kg/hr	g/sec	
125	FOR 125 KVA	0.0022	0.0006	0.0002
250	FOR 250 KVA	0.0044	0.0012	0.0003
500	FOR 500 KVA	0.0088	0.0025	0.0007
750	FOR 750 KVA	0.0177	0.0049	0.0014
1000	FOR 1000 KVA	0.0354	0.0098	0.0027

KVA	Fuel per hrs (in kg/hrs)
125	22.1
250	44.2
500	88.4
750	176.8
1000	353.6

linear regresssion	625	173.0465
exponential regresssion	625	116.657454



Annexure-9

During Operation

1. Vehicular emission of Inhabitants

Nature: **Line source ; continuous**

Parameters

(a) Type of vehicle (wrt engine capacity for EF calculation)	=	Passenger car Diesel 1600-2400 cc BSIII	
(b) Avg. No. of trips made by the earier inhabitant per day wrt 1st EC flats/households	=	215 X 2	
(c) Avg. No. of trips made by the inhabitant per day wrt new flats/households	=	80 X 2	
(d) Avg. distance travelled per trip (in KMs)	=	0.5	(considering 2 trips per vehicle)

Total PM emission as per 1st EC per day (in Kgs)	=	0.0000325 X (b) X (d)	=	**0.0070**
Total PM emission as per 1st EC per annum (in Kgs)	=	0.0000325 X (b) X (d) X 365	=	**2.5504**
Total PM emission wrt new construction per day (in Kgs)	=	0.0000325 X (d) X (c)	=	**0.0026**
Total PM emission wrt new construction per annum (in Kgs)	=	0.0000325 X (d) X (c)X 365	=	**0.9490**

2. Residential emissions (through use of LPG in kitchen)

Nature: **Point source ; continuous**

Parameters

(a) Avg. no. of LPG cylinders consumed per household per annum	=	6.25
(b) Quantity of LPG per cylinder (in Kgs)	=	14.2
(c) Emission factor for PM_{10} wrt LPG (in gram/Kg of LPG)	=	2.1
(d) Emission factor for $PM_{2.5}$ wrt LPG (in gram/Kg of LPG)	=	0.33
(e) No. of households as per 1st EC	=	125
(f) No. of households increased after per EC amendment	=	16

Total PM_{10} emission as per 1st EC (Kgs per annum)		=	(a) X (b) X (c) X (e)	=	23.296875
Total PM_{10} emission wrt the increased no. of households after per EC amendment (Kgs per annum)		=	(a) X (b) X (c) X (f)	=	2.982

Total PM2.5 emission as per 1st EC (Kgs per annum)		=	(a) X (b) X (d) X (e)	=	3.6609375
Total PM2.5 emission wrt the increased no. of households after per EC amendment (Kgs per annum)		=	(a) X (b) X (d) X (f)	=	0.4686

Annexure-10

Fwd: MPCB Bandra CAAQMS Data (carring capacity of bandra)

From : romumbai@mpcb.gov.in Mon, Sep 05, 2022 11:14 AM

Subject : Fwd: MPCB Bandra CAAQMS Data (carring capacity of bandra) 1 attachment

To : NISHCHAL C <nischal.cpcb@nic.in>, sromumbai2@mpcb.gov.in

Cc : jdair@mpcb.gov.in

Sir

Submitting herewith the data for MPCB Bandra CAAQMS for the period 22-March-2007 to 31-December-2021 for your ready reference
Get Outlook for Android

From: Christopher D <christopher.d@chemtrols.com>
Sent: Monday, September 5, 2022, 10:37 AM
To: SRO Mumbai 2 <sromumbai2@mpcb.gov.in>; RO Mumbai <romumbai@mpcb.gov.in>
Cc: Kumar S.J <kumar.sj@chemtrols.com>; Rudresh Singh <rudresh.singh@chemtrols.com>; Sachin Anilkumar <sachin.anilkumar@chemtrols.com>
Subject: MPCB Bandra CAAQMS Data

Dear Sir,

Attached is the data for MPCB Bandra CAAQMS for the period 22-March-2007 to 31-December-2021 for your reference.

Regards

Christopher D'souza

Disclaimer

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Espouse the cause of nature. Save paper by printing only when needed.

MPCB_BANDRA_2007_2021_24Hr.xls
1 MB

SiteReport - Site Bandra Report : TimeBeginning

DateAndTime	PM10	PM2.5
	µg/m3	µg/m3
22/03/2007 00:00	153.6	42
23/03/2007 00:00	197.7	76.7
24/03/2007 00:00	185.8	56.7
25/03/2007 00:00	156.6	62.7
26/03/2007 00:00	235	91.9
27/03/2007 00:00	199	82.2
28/03/2007 00:00	191.5	88
29/03/2007 00:00	152.5	71.3
30/03/2007 00:00	136.2	68.1
31/03/2007 00:00	128.8	71.8
01/04/2007 00:00	131	71
02/04/2007 00:00	213.8	70.4
03/04/2007 00:00	195.9	66.5
04/04/2007 00:00	215	84.9
05/04/2007 00:00	247	105.5
06/04/2007 00:00	123.6	63.4
07/04/2007 00:00	96.5	45.3
08/04/2007 00:00	117.7	39.5
09/04/2007 00:00	143.7	46.9
10/04/2007 00:00	131.7	39.8
11/04/2007 00:00	137.3	39.7
12/04/2007 00:00	104.9	31.7
13/04/2007 00:00	100.1	32
14/04/2007 00:00	123.2	37.3
15/04/2007 00:00	117.8	32.1
16/04/2007 00:00	144	44.2
17/04/2007 00:00	140.7	36
18/04/2007 00:00	111.3	28.9
19/04/2007 00:00	106.4	30
20/04/2007 00:00	133.4	43.6
21/04/2007 00:00	109.8	27
22/04/2007 00:00	68.1	18.2
23/04/2007 00:00	84.7	24.3
24/04/2007 00:00	98.6	31.9
25/04/2007 00:00	133.3	33.4
26/04/2007 00:00	142	36.8
27/04/2007 00:00	100.4	23.1
28/04/2007 00:00	92.1	24.1
29/04/2007 00:00	86.1	22.4
30/04/2007 00:00	59.4	18.7
01/05/2007 00:00	48.8	16.9
02/05/2007 00:00	88.5	30.7
03/05/2007 00:00	46	20.3
04/05/2007 00:00	53.1	23.4
05/05/2007 00:00	52.4	21.7
06/05/2007 00:00	66.3	25.6
07/05/2007 00:00	70.3	33
08/05/2007 00:00	78.2	35.5

539

09/05/2007 00:00	91.6	33
10/05/2007 00:00	81.2	29.9
11/05/2007 00:00	72.3	27
12/05/2007 00:00	71.2	25.2
13/05/2007 00:00	65.1	38.3
14/05/2007 00:00	58.4	33.6
15/05/2007 00:00	73.2	28.3
16/05/2007 00:00	59.8	22.3
17/05/2007 00:00	56.3	19.3
18/05/2007 00:00	72.7	22.5
19/05/2007 00:00	63.1	21.6
20/05/2007 00:00	45.2	17
21/05/2007 00:00	44.6	18
22/05/2007 00:00	41.4	17
23/05/2007 00:00	51.8	21.2
24/05/2007 00:00	64.1	20.4
25/05/2007 00:00	63.5	20.9
26/05/2007 00:00	68.8	22.7
27/05/2007 00:00	73.3	21.3
28/05/2007 00:00	82.7	23.7
29/05/2007 00:00	79.1	23.5
30/05/2007 00:00	88.4	25.2
31/05/2007 00:00	95.2	26.9
01/06/2007 00:00	91.9	35.4
02/06/2007 00:00	105.3	35.3
03/06/2007 00:00	105.6	39
04/06/2007 00:00	69.2	21.7
05/06/2007 00:00	53.7	18
06/06/2007 00:00	38	13.4
07/06/2007 00:00	45.4	19.5
08/06/2007 00:00	39.6	16.9
09/06/2007 00:00	50.9	18.3
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11/06/2007 00:00	47.9	17
12/06/2007 00:00	64.5	24.3
13/06/2007 00:00	53.6	18.9
14/06/2007 00:00	53.9	21.5
15/06/2007 00:00	77.6	28.7
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17/06/2007 00:00	56.7	23.8
18/06/2007 00:00	65.3	27.4
19/06/2007 00:00	68.3	25.2
20/06/2007 00:00	52.9	21.3
21/06/2007 00:00	66.9	25.3
22/06/2007 00:00	74.2	37.6
23/06/2007 00:00	52.8	27.1
24/06/2007 00:00	37.7	8.1
25/06/2007 00:00	87.2	17.6
26/06/2007 00:00	70.6	16
27/06/2007 00:00	67	20.1
28/06/2007 00:00	49	19.2
29/06/2007 00:00	47.3	32.8

540

30/06/2007 00:00	73.9	29
01/07/2007 00:00	68.3	24.9
02/07/2007 00:00	94	28.4
03/07/2007 00:00	66.7	26.8
04/07/2007 00:00	67.2	23.7
05/07/2007 00:00	64.4	24.3
06/07/2007 00:00	72.8	25.7
07/07/2007 00:00	71.2	25.1
08/07/2007 00:00	71.8	23.7
09/07/2007 00:00	73	24.9
10/07/2007 00:00	74.2	28
11/07/2007 00:00	67.7	27.3
12/07/2007 00:00	62.6	16.2
13/07/2007 00:00	66.7	15.2
14/07/2007 00:00	70.7	15.5
15/07/2007 00:00	73	16.6
16/07/2007 00:00	82.1	18.1
17/07/2007 00:00	83	17.1
18/07/2007 00:00	71.1	19.4
19/07/2007 00:00	48	19.5
20/07/2007 00:00	58.1	23.1
21/07/2007 00:00	49.2	20.6
22/07/2007 00:00	69.1	22.7
23/07/2007 00:00	60.3	24.3
24/07/2007 00:00	59.7	31.6
25/07/2007 00:00	52.9	23.9
26/07/2007 00:00	53.7	23.9
27/07/2007 00:00	44.3	19.1
28/07/2007 00:00	44.3	21.1
29/07/2007 00:00	46	21.8
30/07/2007 00:00	49.4	30
31/07/2007 00:00	44.1	22.4
01/08/2007 00:00	52.5	26.8
02/08/2007 00:00	49	31.8
03/08/2007 00:00	34.8	18.1
04/08/2007 00:00	34.7	11.1
05/08/2007 00:00	46.1	13.8
06/08/2007 00:00	39.7	13.6
07/08/2007 00:00	30.9	11
08/08/2007 00:00	42.5	14
09/08/2007 00:00	46.7	16.2
10/08/2007 00:00	60.6	16.7
11/08/2007 00:00	52	15
12/08/2007 00:00	41.5	12.6
13/08/2007 00:00	42.1	13.3
14/08/2007 00:00	39.2	12.3
15/08/2007 00:00	39.1	13.5
16/08/2007 00:00	40.9	13.1
17/08/2007 00:00	38.4	13.1
18/08/2007 00:00	36.6	13
19/08/2007 00:00	27.9	9.9
20/08/2007 00:00	31.9	12.1

541

21/08/2007 00:00	43.6	13.4
22/08/2007 00:00	49.3	16.5
23/08/2007 00:00	52.8	19
24/08/2007 00:00	52.2	24.3
25/08/2007 00:00	46.6	23.3
26/08/2007 00:00	41.2	18.7
27/08/2007 00:00	31.2	16.4
28/08/2007 00:00	25.5	12.5
29/08/2007 00:00	35.8	22.9
30/08/2007 00:00	30.8	16.7
31/08/2007 00:00	40.7	18.9
01/09/2007 00:00	44.4	23.3
02/09/2007 00:00	46	28.9
03/09/2007 00:00	52.3	31.8
04/09/2007 00:00	48.4	30.1
05/09/2007 00:00	52	23.8
06/09/2007 00:00	45	13.3
07/09/2007 00:00	53.5	23.5
08/09/2007 00:00	69.2	28.3
09/09/2007 00:00	77.8	36
10/09/2007 00:00	71	39.9
11/09/2007 00:00	78	47.7
12/09/2007 00:00	82.6	41.5
13/09/2007 00:00	86.2	40
14/09/2007 00:00	69.4	31.2
15/09/2007 00:00	64.5	25.4
16/09/2007 00:00	63.7	30.4
17/09/2007 00:00	70.1	39.4
18/09/2007 00:00	49.6	24.3
19/09/2007 00:00	46	26.8
20/09/2007 00:00	29.6	17.4
21/09/2007 00:00	57.7	33.8
22/09/2007 00:00	64.2	36.9
23/09/2007 00:00	54.5	30.3
24/09/2007 00:00	60.3	29.9
25/09/2007 00:00	59.1	19.9
26/09/2007 00:00	76.1	28.5
27/09/2007 00:00	62.1	28.1
28/09/2007 00:00	79.3	35.7
29/09/2007 00:00	89.9	34.1
30/09/2007 00:00	92.7	35.9
01/10/2007 00:00	101.7	44.7
02/10/2007 00:00	118.3	46.6
03/10/2007 00:00	118.5	44.1
04/10/2007 00:00	104.5	41.3
05/10/2007 00:00	116.1	38.6
06/10/2007 00:00	166.2	58.4
07/10/2007 00:00	173.7	60.5
08/10/2007 00:00	158.5	45.1
09/10/2007 00:00	168.9	59.3
10/10/2007 00:00	175.5	64.6
11/10/2007 00:00	192.5	105.6

542

12/10/2007 00:00	206.7	114.2
13/10/2007 00:00	196.4	99.4
14/10/2007 00:00	164.9	77.4
15/10/2007 00:00	186.2	87.1
16/10/2007 00:00	164.4	100.9
17/10/2007 00:00	171.9	98.2
18/10/2007 00:00	177.3	107.6
19/10/2007 00:00	198.9	114.9
20/10/2007 00:00	188.8	110.3
21/10/2007 00:00	186.8	131.6
22/10/2007 00:00	199.5	120
23/10/2007 00:00	196.7	89.7
24/10/2007 00:00	189.7	98.5
25/10/2007 00:00	198.1	105.5
26/10/2007 00:00	184.1	97.4
27/10/2007 00:00	175.5	105.7
28/10/2007 00:00	177.3	100.8
29/10/2007 00:00	190.2	102.4
30/10/2007 00:00	203.2	103.7
31/10/2007 00:00	140.1	67.4
01/11/2007 00:00	85.1	40.4
02/11/2007 00:00	150.7	79.6
03/11/2007 00:00	186.8	94.1
04/11/2007 00:00	162.9	76.5
05/11/2007 00:00	172.6	81.1
06/11/2007 00:00	143.4	69
07/11/2007 00:00	119.7	65.2
08/11/2007 00:00	224.6	123.8
09/11/2007 00:00	327.8	194.4
10/11/2007 00:00	357.9	212.8
11/11/2007 00:00	291.8	157.8
12/11/2007 00:00	331.9	177.4
13/11/2007 00:00	264.7	123
14/11/2007 00:00	240.7	103.2
15/11/2007 00:00	234.6	92.8
16/11/2007 00:00	260.9	97.8
17/11/2007 00:00	224.5	87.3
18/11/2007 00:00	196.6	81.4
19/11/2007 00:00	235.3	95.5
20/11/2007 00:00	239.2	98.4
21/11/2007 00:00	228.1	98.4
22/11/2007 00:00	275	121.8
23/11/2007 00:00	281.4	123.5
24/11/2007 00:00	217.5	98.8
25/11/2007 00:00	229.2	101.9
26/11/2007 00:00	283.2	123.1
27/11/2007 00:00	294.1	123.2
28/11/2007 00:00	240.4	99.6
29/11/2007 00:00	258.4	109.2
30/11/2007 00:00	292.2	116.5
01/12/2007 00:00	281.5	124.6
02/12/2007 00:00	259.5	114.8

543

03/12/2007 00:00	255.9	113.9
04/12/2007 00:00	226.6	101
05/12/2007 00:00	333.2	155.6
06/12/2007 00:00	323	160.2
07/12/2007 00:00	274.1	143.6
08/12/2007 00:00	290.9	155.1
09/12/2007 00:00	296.1	150.8
10/12/2007 00:00	263.2	131.9
11/12/2007 00:00	289.3	129.9
12/12/2007 00:00	219.4	105.3
13/12/2007 00:00	211.8	94.1
14/12/2007 00:00	226.5	112.4
15/12/2007 00:00	247.8	129.3
16/12/2007 00:00	280.5	134.2
17/12/2007 00:00	283	133.3
18/12/2007 00:00	230.3	112.8
19/12/2007 00:00	248.2	112.8
20/12/2007 00:00	260	120.1
21/12/2007 00:00	197.8	94.5
22/12/2007 00:00	234.1	113.4
23/12/2007 00:00	263.4	128
24/12/2007 00:00	300.9	134.7
25/12/2007 00:00	276.3	140.6
26/12/2007 00:00	203	88.2
27/12/2007 00:00	234.3	112.4
28/12/2007 00:00	225.7	95.8
29/12/2007 00:00	231.4	94
30/12/2007 00:00	233.1	107.7
31/12/2007 00:00	265.9	136.3
01/01/2008 00:00	271.1	128.4
02/01/2008 00:00	230.5	107.9
03/01/2008 00:00	285.7	135.3
04/01/2008 00:00	382.7	183.2
05/01/2008 00:00	445.9	184
06/01/2008 00:00	363	155.1
07/01/2008 00:00	371	151.1
08/01/2008 00:00	351	147.5
09/01/2008 00:00	320.4	136.1
10/01/2008 00:00	325.7	141.6
11/01/2008 00:00	228.4	97.9
12/01/2008 00:00	303.9	115.9
13/01/2008 00:00	355.9	152.2
14/01/2008 00:00	287.6	139.6
15/01/2008 00:00	326.8	153.7
16/01/2008 00:00	329.2	134.6
17/01/2008 00:00	325.8	135.2
18/01/2008 00:00	153.3	65.3
19/01/2008 00:00	112.1	40.5
20/01/2008 00:00	115.8	60.2
21/01/2008 00:00	186.9	98.2
22/01/2008 00:00	256.4	101.1
23/01/2008 00:00	183.1	72.8

544

24/01/2008 00:00	181	78.1
25/01/2008 00:00	172.3	71.1
26/01/2008 00:00	132.8	62.9
27/01/2008 00:00	161.6	73.5
28/01/2008 00:00	224.4	95.5
29/01/2008 00:00	158.2	108.4
30/01/2008 00:00	244.7	81.5
31/01/2008 00:00	178.9	68.1
01/02/2008 00:00	313.3	143.2
02/02/2008 00:00	257.5	146.8
03/02/2008 00:00	273.8	129.6
04/02/2008 00:00	220.7	86.1
05/02/2008 00:00	204	85.3
06/02/2008 00:00	244.1	108.6
07/02/2008 00:00	232.2	69.4
08/02/2008 00:00	180.1	74.1
09/02/2008 00:00	179.9	94.5
10/02/2008 00:00	191.5	90.1
11/02/2008 00:00	224.1	115.8
12/02/2008 00:00	262.2	121.9
13/02/2008 00:00	318.4	133.6
14/02/2008 00:00	327.4	142.4
15/02/2008 00:00	293.3	133
16/02/2008 00:00	257.3	114
17/02/2008 00:00	213.5	99.3
18/02/2008 00:00	162.8	76.3
19/02/2008 00:00	199.2	82.8
20/02/2008 00:00	164.6	73.8
21/02/2008 00:00	228	106.2
22/02/2008 00:00	189.9	111.4
23/02/2008 00:00	112.9	53.6
24/02/2008 00:00	434.9	147.2
25/02/2008 00:00	285.6	120.4
26/02/2008 00:00	282.5	175.4
27/02/2008 00:00	255.5	175.2
28/02/2008 00:00	264.3	169.6
29/02/2008 00:00	249.4	152.3
01/03/2008 00:00	224.4	119.1
02/03/2008 00:00	230.3	110.1
03/03/2008 00:00	128.5	55.4
04/03/2008 00:00	145.2	66.8
05/03/2008 00:00	148.6	60.7
06/03/2008 00:00	170.8	69
07/03/2008 00:00	223.1	103
08/03/2008 00:00	230.7	99.8
09/03/2008 00:00	248	108.7
10/03/2008 00:00	163.9	66.4
11/03/2008 00:00	154.6	63.4
12/03/2008 00:00	169.2	55.8
13/03/2008 00:00	179.4	70.2
14/03/2008 00:00	184	90.6
15/03/2008 00:00	183.6	88.8

545

16/03/2008 00:00	177.9	85
17/03/2008 00:00	148.5	66.1
18/03/2008 00:00	131.6	54.1
19/03/2008 00:00	124	34.7
20/03/2008 00:00	127.2	34.4
21/03/2008 00:00	211.8	81
22/03/2008 00:00	142.6	50.4
23/03/2008 00:00	142.2	53.4
24/03/2008 00:00	169.7	40.2
25/03/2008 00:00	165.1	41.7
26/03/2008 00:00	133.3	34.5
27/03/2008 00:00	117.7	30.9
28/03/2008 00:00	129.4	50.5
29/03/2008 00:00	105.3	39
30/03/2008 00:00	107.4	38.9
31/03/2008 00:00	87.9	31.2
01/04/2008 00:00	99.9	41
02/04/2008 00:00	113.8	41.8
03/04/2008 00:00	111.2	42.2
04/04/2008 00:00	89.3	31.7
05/04/2008 00:00	106.5	33.9
06/04/2008 00:00	111.3	36.5
07/04/2008 00:00	145.9	52.6
08/04/2008 00:00	189.4	77.5
09/04/2008 00:00	181.7	75
10/04/2008 00:00	157.3	61.3
11/04/2008 00:00	129.9	54.8
12/04/2008 00:00	149.2	46.8
13/04/2008 00:00	142.4	35
14/04/2008 00:00	158.6	44
15/04/2008 00:00	136.7	33.5
16/04/2008 00:00	152.6	31.9
17/04/2008 00:00	173.4	34.3
18/04/2008 00:00	205.4	72.5
19/04/2008 00:00	193.3	65.3
20/04/2008 00:00	156.7	53
21/04/2008 00:00	173.1	61.4
22/04/2008 00:00	127.9	47
23/04/2008 00:00	148.9	49
24/04/2008 00:00	201.4	58.6
25/04/2008 00:00	185.3	45.1
26/04/2008 00:00	145.8	40.7
27/04/2008 00:00	131.2	31.6
28/04/2008 00:00	124.3	26.2
29/04/2008 00:00	150.1	33.3
30/04/2008 00:00	178.2	35.5
01/05/2008 00:00	161.1	34.7
02/05/2008 00:00	137.2	29.4
03/05/2008 00:00	120.1	28.4
04/05/2008 00:00	83.1	28.9
05/05/2008 00:00	69.8	32.7
06/05/2008 00:00	53	25.5

546

07/05/2008 00:00	78.7	34.8
08/05/2008 00:00	76.4	29.7
09/05/2008 00:00	81.4	27.5
10/05/2008 00:00	81.6	22.5
11/05/2008 00:00	83.7	33.2
12/05/2008 00:00	84.2	34.6
13/05/2008 00:00	63.7	30.4
14/05/2008 00:00	57.2	24.5
15/05/2008 00:00	54.7	33.3
16/05/2008 00:00	61.6	37.4
17/05/2008 00:00	50	27
18/05/2008 00:00	55	34.7
19/05/2008 00:00	54.7	29.7
20/05/2008 00:00	51	31.5
21/05/2008 00:00	49.2	25.5
22/05/2008 00:00	55.3	27.1
23/05/2008 00:00	51.5	24.5
24/05/2008 00:00	51.3	20.2
25/05/2008 00:00	61	29.1
26/05/2008 00:00	55.6	27.7
27/05/2008 00:00	58.5	24.6
28/05/2008 00:00	53.1	24.7
29/05/2008 00:00	61.2	24.8
30/05/2008 00:00	52.2	24.2
31/05/2008 00:00	58.6	20.7
01/06/2008 00:00	66.3	26.2
02/06/2008 00:00	63.8	23
03/06/2008 00:00	68.2	23.9
04/06/2008 00:00	68.1	31.1
05/06/2008 00:00	66.7	29.8
06/06/2008 00:00	61.9	30.8
07/06/2008 00:00	39.1	25.5
08/06/2008 00:00	37.1	20.4
09/06/2008 00:00	51.3	27.1
10/06/2008 00:00	62.3	32.1
11/06/2008 00:00	58.4	23.8
12/06/2008 00:00	103.9	39.1
13/06/2008 00:00	113.9	41.9
14/06/2008 00:00	77	24.6
15/06/2008 00:00	82.1	25.1
16/06/2008 00:00	75.2	26.3
17/06/2008 00:00	71.5	23.8
18/06/2008 00:00	66.2	19.8
19/06/2008 00:00	63.1	21.5
20/06/2008 00:00	65	19.6
21/06/2008 00:00	70.6	24.2
22/06/2008 00:00	62.8	25.1
23/06/2008 00:00	68.6	24.2
24/06/2008 00:00	70.3	27.9
25/06/2008 00:00	66.2	27.2
26/06/2008 00:00	59.9	24
27/06/2008 00:00	50	17.7

547

28/06/2008 00:00	45.6	16.6
29/06/2008 00:00	36.7	13.6
30/06/2008 00:00	44.4	15.2
01/07/2008 00:00	44	16
02/07/2008 00:00	48.8	16.2
03/07/2008 00:00	47.3	17.5
04/07/2008 00:00	40	14.1
05/07/2008 00:00	45.5	15.6
06/07/2008 00:00	57.2	18.1
07/07/2008 00:00	53.6	19.7
08/07/2008 00:00	40.3	19.8
09/07/2008 00:00	31.3	17.3
10/07/2008 00:00	29.5	15.9
11/07/2008 00:00	25.4	16.6
12/07/2008 00:00	27.5	14.7
13/07/2008 00:00	29.8	17.3
14/07/2008 00:00	31.3	17.7
15/07/2008 00:00	45.6	24.9
16/07/2008 00:00	35.5	20.9
17/07/2008 00:00	35.3	18.1
18/07/2008 00:00	37.8	20.2
19/07/2008 00:00	38.2	19
20/07/2008 00:00	40.4	20.3
21/07/2008 00:00	44.2	22.6
22/07/2008 00:00	39.7	18.8
23/07/2008 00:00	39.5	18.8
24/07/2008 00:00	54.3	29.9
25/07/2008 00:00	37.7	19.4
26/07/2008 00:00	34.3	13.1
27/07/2008 00:00	37	14.7
28/07/2008 00:00	29.2	12.3
29/07/2008 00:00	36.6	16.2
30/07/2008 00:00	41.1	17
31/07/2008 00:00	49.6	18.7
01/08/2008 00:00	68.2	21.7
02/08/2008 00:00	56.4	18.1
03/08/2008 00:00	48.6	18.5
04/08/2008 00:00	51.1	17.9
05/08/2008 00:00	38.4	18.8
06/08/2008 00:00	36	18.9
07/08/2008 00:00	48.7	20.5
08/08/2008 00:00	46.2	15.9
09/08/2008 00:00	44.6	17.7
10/08/2008 00:00	37.7	13.3
11/08/2008 00:00	41.3	13.3
12/08/2008 00:00	40.6	15.7
13/08/2008 00:00	38.2	14.9
14/08/2008 00:00	45.6	20.7
15/08/2008 00:00	40.2	15.2
16/08/2008 00:00	40	17.2
17/08/2008 00:00	45.7	18.1
18/08/2008 00:00	56.3	17.6

548

19/08/2008 00:00	53.2	20.7
20/08/2008 00:00	63	24.8
21/08/2008 00:00	64.2	25.6
22/08/2008 00:00	61.5	20.7
23/08/2008 00:00	60.1	21.5
24/08/2008 00:00	40	16.8
25/08/2008 00:00	65.4	27.8
26/08/2008 00:00	51.4	17.6
27/08/2008 00:00	86.5	27.8
28/08/2008 00:00	80.6	25.7
29/08/2008 00:00	111	35.8
30/08/2008 00:00	88	26.5
31/08/2008 00:00	89.4	35.5
01/09/2008 00:00	90.8	38.5
02/09/2008 00:00	83.4	36.3
03/09/2008 00:00	92.2	47.6
04/09/2008 00:00	99.9	47.9
05/09/2008 00:00	99.2	52.4
06/09/2008 00:00	68.3	37.8
07/09/2008 00:00	58.8	27.5
08/09/2008 00:00	68.4	32.7
09/09/2008 00:00	58	33.8
10/09/2008 00:00	97.8	59
11/09/2008 00:00	104.7	62.3
12/09/2008 00:00	62.4	25.2
13/09/2008 00:00	41.9	17.4
14/09/2008 00:00	46.4	17.6
15/09/2008 00:00	49	19.3
16/09/2008 00:00	45.8	14
17/09/2008 00:00	57.9	15.1
18/09/2008 00:00	60.8	16.2
19/09/2008 00:00	57	16.9
20/09/2008 00:00	73	38.8
21/09/2008 00:00	73.4	18.9
22/09/2008 00:00	110.6	39.3
23/09/2008 00:00	147.5	39.8
24/09/2008 00:00	143.5	51.1
25/09/2008 00:00	134.2	40.5
26/09/2008 00:00	106.7	33.4
27/09/2008 00:00	123.9	52.9
28/09/2008 00:00	99	42
29/09/2008 00:00	100.5	39.1
30/09/2008 00:00	109.3	45.8
01/10/2008 00:00	96.6	40.5
02/10/2008 00:00	109.8	44.7
03/10/2008 00:00	123.7	50.8
04/10/2008 00:00	145.2	61.1
05/10/2008 00:00	134.8	60.8
06/10/2008 00:00	90.8	40.5
07/10/2008 00:00	138.3	61.9
08/10/2008 00:00	124.3	59.2
09/10/2008 00:00	112.4	50.6

549

10/10/2008 00:00	132.1	71
11/10/2008 00:00	123.1	53.6
12/10/2008 00:00	180	88.4
13/10/2008 00:00	182.3	91.8
14/10/2008 00:00	225.5	102.8
15/10/2008 00:00	254.1	114.9
16/10/2008 00:00	246.1	111.6
17/10/2008 00:00	264.9	119
18/10/2008 00:00	209.5	91.8
19/10/2008 00:00	210.8	99.6
20/10/2008 00:00	194.6	86.8
21/10/2008 00:00	200.5	88.3
22/10/2008 00:00	208.1	97.8
23/10/2008 00:00	181.4	86.1
24/10/2008 00:00	201.5	95
25/10/2008 00:00	224.4	108.6
26/10/2008 00:00	279.7	137.1
27/10/2008 00:00	303.2	155.2
28/10/2008 00:00	262.1	147.8
29/10/2008 00:00	285	161.5
30/10/2008 00:00	338.6	194.6
31/10/2008 00:00	261.9	127.6
01/11/2008 00:00	220.4	96
02/11/2008 00:00	232.7	103.1
03/11/2008 00:00	209.5	92.4
04/11/2008 00:00	227.1	96.4
05/11/2008 00:00	240.5	105
06/11/2008 00:00	202	89.1
07/11/2008 00:00	271.3	121.5
08/11/2008 00:00	289.7	122.9
09/11/2008 00:00	248.5	115.2
10/11/2008 00:00	233.2	112.8
11/11/2008 00:00	246.6	121.8
12/11/2008 00:00	243.7	116.7
13/11/2008 00:00	205.3	102.9
14/11/2008 00:00	218.1	103.5
15/11/2008 00:00	255.4	124.9
16/11/2008 00:00	209.7	103.8
17/11/2008 00:00	213.2	92.5
18/11/2008 00:00	131.5	64
19/11/2008 00:00	154.3	73.3
20/11/2008 00:00	194.2	98.1
21/11/2008 00:00	181.7	88.1
22/11/2008 00:00	176.5	85.4
23/11/2008 00:00	169.1	81.1
24/11/2008 00:00	177.7	82.6
25/11/2008 00:00	196.9	94.5
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05/12/2008 00:00	254.6	116.4
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07/12/2008 00:00	216.9	96
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21/12/2008 00:00	189	126.4
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03/03/2010 00:00	89	36
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05/03/2010 00:00	87.9	35.3
06/03/2010 00:00	98.7	36.2
07/03/2010 00:00	126.2	38.1
08/03/2010 00:00	158.3	51.4
09/03/2010 00:00	230.2	94.1
10/03/2010 00:00	296.7	126.3
11/03/2010 00:00	211.1	88
12/03/2010 00:00	227.7	97.9
13/03/2010 00:00	252.1	109.4

559

14/03/2010 00:00	142.8	60.6
15/03/2010 00:00	93.5	28.3
16/03/2010 00:00	113.5	37.4
17/03/2010 00:00	110.7	38.7
18/03/2010 00:00	165.3	69.1
19/03/2010 00:00	151.2	64.3
20/03/2010 00:00	103.7	41.7
21/03/2010 00:00	149.3	65.7
22/03/2010 00:00	155.3	62.4
23/03/2010 00:00	125.8	42.1
24/03/2010 00:00	103.6	34.4
25/03/2010 00:00	122.5	33.7
26/03/2010 00:00	138.8	31.5
27/03/2010 00:00	179.4	38.5
28/03/2010 00:00	170.6	38.8
29/03/2010 00:00	161.7	37.3
30/03/2010 00:00	168.3	41.6
31/03/2010 00:00	119.4	24.5
01/04/2010 00:00	86	19.5
02/04/2010 00:00	112.2	22.2
03/04/2010 00:00	150.7	45.6
04/04/2010 00:00	181.1	57.1
05/04/2010 00:00	154.4	48.5
06/04/2010 00:00	128.8	35.7
07/04/2010 00:00	136.8	40.1
08/04/2010 00:00	160	53
09/04/2010 00:00	99.3	25.6
10/04/2010 00:00	75.1	26.2
11/04/2010 00:00	62.7	26.1
12/04/2010 00:00	97.4	30.8
13/04/2010 00:00	122.9	26.3
14/04/2010 00:00	113.7	25.5
15/04/2010 00:00	108.1	25.3
16/04/2010 00:00	116.7	33.6
17/04/2010 00:00	90	24.3
18/04/2010 00:00	84.2	23.4
19/04/2010 00:00	74.9	17
20/04/2010 00:00	70.1	24.3
21/04/2010 00:00	81.8	23.2
22/04/2010 00:00	74.7	20
23/04/2010 00:00	143.3	40.1
24/04/2010 00:00	139.5	35.9
25/04/2010 00:00	110.2	26.6
26/04/2010 00:00	93.3	24.9
27/04/2010 00:00	91	23.2
28/04/2010 00:00	104.2	21.9
29/04/2010 00:00	107.5	20.4
30/04/2010 00:00	118.6	29.6
01/05/2010 00:00	80.7	19.4
02/05/2010 00:00	81.3	22.4
03/05/2010 00:00	75.8	25.3
04/05/2010 00:00	102.7	33.3

560

05/05/2010 00:00	72.4	38.1
06/05/2010 00:00	87.7	36.7
07/05/2010 00:00	112.1	36.4
08/05/2010 00:00	93.7	33.6
09/05/2010 00:00	118	40.2
10/05/2010 00:00	108.3	32.5
11/05/2010 00:00	82.5	24.9
12/05/2010 00:00	87.7	27
13/05/2010 00:00	77.6	26
14/05/2010 00:00	78	25.4
15/05/2010 00:00	78.2	26
16/05/2010 00:00	69.9	22.7
17/05/2010 00:00	76.8	26.8
18/05/2010 00:00	80.8	28.3
19/05/2010 00:00	81	30.6
20/05/2010 00:00	102.5	33.4
21/05/2010 00:00	98.2	31.2
22/05/2010 00:00	87.5	28.4
23/05/2010 00:00	85.3	25.2
24/05/2010 00:00	84.3	31.7
25/05/2010 00:00	45.9	26.5
26/05/2010 00:00	52.4	24.2
27/05/2010 00:00	50.2	20.5
28/05/2010 00:00	41.6	22.4
29/05/2010 00:00	41.7	17.5
30/05/2010 00:00	48.2	24.8
31/05/2010 00:00	54.1	23
01/06/2010 00:00	45.4	16.7
02/06/2010 00:00	57.8	22.9
03/06/2010 00:00	52.3	26.3
04/06/2010 00:00	52.7	21.2
05/06/2010 00:00	48.4	18.4
06/06/2010 00:00	45.3	14.3
07/06/2010 00:00	75.9	27.1
08/06/2010 00:00	80.3	30.4
09/06/2010 00:00	96.9	38.1
10/06/2010 00:00	97.1	34.5
11/06/2010 00:00	93.5	41.3
12/06/2010 00:00	109.2	46.2
13/06/2010 00:00	82.1	35.3
14/06/2010 00:00	62.9	26.9
15/06/2010 00:00	64.1	27.2
16/06/2010 00:00	34.3	16.5
17/06/2010 00:00	56.8	27.7
18/06/2010 00:00	71.8	30.3
19/06/2010 00:00	72.8	34.2
20/06/2010 00:00	50	21.2
21/06/2010 00:00	51.7	18.9
22/06/2010 00:00	50	18
23/06/2010 00:00	36.4	15.3
24/06/2010 00:00	40.1	19.2
25/06/2010 00:00	44.5	19

561

26/06/2010 00:00	50.3	18.2
27/06/2010 00:00	40.4	17.1
28/06/2010 00:00	59.4	21.7
29/06/2010 00:00	85.2	29.1
30/06/2010 00:00	94.2	26.1
01/07/2010 00:00	53.5	22.4
02/07/2010 00:00	49.8	30.6
03/07/2010 00:00	42.7	24.1
04/07/2010 00:00	42.6	21.3
05/07/2010 00:00	38	19.2
06/07/2010 00:00	30.2	12
07/07/2010 00:00	49.6	24.9
08/07/2010 00:00	48.2	21.3
09/07/2010 00:00	52.5	24.6
10/07/2010 00:00	60.8	35.3
11/07/2010 00:00	56	23
12/07/2010 00:00	51.3	19.6
13/07/2010 00:00	53.3	18.4
14/07/2010 00:00	52.6	14.6
15/07/2010 00:00	68	24
16/07/2010 00:00	50.6	21.6
17/07/2010 00:00	45.7	18.5
18/07/2010 00:00	43.4	14
19/07/2010 00:00	35.5	12.6
20/07/2010 00:00	36.5	10.6
21/07/2010 00:00	41.6	13.9
22/07/2010 00:00	67.3	12.1
23/07/2010 00:00	73.6	10.2
24/07/2010 00:00	68	11.3
25/07/2010 00:00	80.9	14.4
26/07/2010 00:00	65.2	12.4
27/07/2010 00:00	77.1	19.9
28/07/2010 00:00	59.7	17.5
29/07/2010 00:00	70.7	24.4
30/07/2010 00:00	62	20
31/07/2010 00:00	38.9	11.4
01/08/2010 00:00	54.8	9.7
02/08/2010 00:00	44.8	9
03/08/2010 00:00	40.9	15.7
04/08/2010 00:00	52.6	18.7
05/08/2010 00:00	70.3	26.6
06/08/2010 00:00	51.8	20.5
07/08/2010 00:00	84.1	35.4
08/08/2010 00:00	114.5	49.3
09/08/2010 00:00	87.3	30.3
10/08/2010 00:00	40.6	16.7
11/08/2010 00:00	72.8	39.3
12/08/2010 00:00	63.5	38.6
13/08/2010 00:00	86.1	41.2
14/08/2010 00:00	37.4	12.6
15/08/2010 00:00	41.6	20.5
16/08/2010 00:00	46.9	25.7

562

17/08/2010 00:00	49	28
18/08/2010 00:00	43.7	19.4
19/08/2010 00:00	62	34.6
20/08/2010 00:00	63.9	36.6
21/08/2010 00:00	49.4	22
22/08/2010 00:00	48.6	22.2
23/08/2010 00:00	44.4	13
24/08/2010 00:00	48.6	15.9
25/08/2010 00:00	48.7	13.6
26/08/2010 00:00	59.5	25
27/08/2010 00:00	55.9	24.6
28/08/2010 00:00	61.4	23.4
29/08/2010 00:00	33	11.6
30/08/2010 00:00	32.2	9.7
31/08/2010 00:00	35	9
01/09/2010 00:00	48	12.2
02/09/2010 00:00	44.1	11
03/09/2010 00:00	49.7	11.4
04/09/2010 00:00	48.9	12.2
05/09/2010 00:00	29	8.5
06/09/2010 00:00	38.2	9.9
07/09/2010 00:00	39.6	11.5
08/09/2010 00:00	25.3	8.3
09/09/2010 00:00	36.9	13.7
10/09/2010 00:00	62.8	16.7
11/09/2010 00:00	65.7	16.4
12/09/2010 00:00	64.2	15
13/09/2010 00:00	63.9	15.6
14/09/2010 00:00	66.3	16.8
15/09/2010 00:00	73.2	20.5
16/09/2010 00:00	60.4	15.6
17/09/2010 00:00	71.8	19.7
18/09/2010 00:00	107.5	29
19/09/2010 00:00	49.8	13.4
20/09/2010 00:00	64.7	20.2
21/09/2010 00:00	87.7	27.5
22/09/2010 00:00	103.6	33.4
23/09/2010 00:00	85	28
24/09/2010 00:00	82.5	22.5
25/09/2010 00:00	72.5	24
26/09/2010 00:00	75.6	20.7
27/09/2010 00:00	53.6	20.4
28/09/2010 00:00	55.3	23.3
29/09/2010 00:00	64.8	22.3
30/09/2010 00:00	91	32.8
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02/10/2010 00:00	139.9	53.5
03/10/2010 00:00	138.9	55.9
04/10/2010 00:00	68.2	23.7
05/10/2010 00:00	123.2	27
06/10/2010 00:00	128.6	25
07/10/2010 00:00	145.4	63.7

563

08/10/2010 00:00	125.9	57.9
09/10/2010 00:00	114.4	42.1
10/10/2010 00:00	85	28.8
11/10/2010 00:00	74.9	28.4
12/10/2010 00:00	101.8	37.9
13/10/2010 00:00	126.4	45.4
14/10/2010 00:00	100.4	28.4
15/10/2010 00:00	78.4	23.7
16/10/2010 00:00	107.2	37.5
17/10/2010 00:00	98.6	47.2
18/10/2010 00:00	104.5	47.2
19/10/2010 00:00	111.5	39.7
20/10/2010 00:00	106.1	41.2
21/10/2010 00:00	87.7	21.8
22/10/2010 00:00	123.4	16.1
23/10/2010 00:00	142.2	14.9
24/10/2010 00:00	120.7	14
25/10/2010 00:00	124.2	15.5
26/10/2010 00:00	159.6	17.4
27/10/2010 00:00	139.8	17.2
28/10/2010 00:00	160.9	17.9
29/10/2010 00:00	179.4	47.8
30/10/2010 00:00	185.8	65.9
31/10/2010 00:00	201.3	72.8
01/11/2010 00:00	204.7	70.5
02/11/2010 00:00	193	69.3
03/11/2010 00:00	162.1	63.9
04/11/2010 00:00	161.6	65.9
05/11/2010 00:00	179.1	98.8
06/11/2010 00:00	137.1	71.4
07/11/2010 00:00	209.6	110.3
08/11/2010 00:00	170.2	78.7
09/11/2010 00:00	90.9	36.5
10/11/2010 00:00	100	38.4
11/11/2010 00:00	98.1	46.3
12/11/2010 00:00	94.7	40.6
13/11/2010 00:00	84.5	33.2
14/11/2010 00:00	106.3	41.1
15/11/2010 00:00	92.4	37.4
16/11/2010 00:00	93.2	38.5
17/11/2010 00:00	107.2	39.6
18/11/2010 00:00	94.5	40.8
19/11/2010 00:00	104.8	45.1
20/11/2010 00:00	97.6	42.9
21/11/2010 00:00	95.9	41.9
22/11/2010 00:00	116.6	37.8
23/11/2010 00:00	99.2	35.9
24/11/2010 00:00	100.9	42.6
25/11/2010 00:00	95.4	38.9
26/11/2010 00:00	96.7	37.3
27/11/2010 00:00	116.3	56.8
28/11/2010 00:00	91.7	57.3

564

29/11/2010 00:00	113.4	56.9
30/11/2010 00:00	109.7	48.6
01/12/2010 00:00	101.7	43.1
02/12/2010 00:00	108.2	53.6
03/12/2010 00:00	121.9	52
04/12/2010 00:00	126.9	49.5
05/12/2010 00:00	107.5	46.4
06/12/2010 00:00	117.6	54.5
07/12/2010 00:00	114.7	46.1
08/12/2010 00:00	122.5	59.7
09/12/2010 00:00	147.6	63.6
10/12/2010 00:00	122.1	50.1
11/12/2010 00:00	176.6	65.4
12/12/2010 00:00	155.8	56.1
13/12/2010 00:00	168	57.6
14/12/2010 00:00	214	76.7
15/12/2010 00:00	210.4	73.3
16/12/2010 00:00	190.6	66.9
17/12/2010 00:00	221	89.5
18/12/2010 00:00	192.4	70.7
19/12/2010 00:00	210.7	75.3
20/12/2010 00:00	186.6	70
21/12/2010 00:00	176.1	71.6
22/12/2010 00:00	161.1	62.4
23/12/2010 00:00	125.6	48.3
24/12/2010 00:00	139.7	56.9
25/12/2010 00:00	137.6	69.2
26/12/2010 00:00	139.2	66
27/12/2010 00:00	131.5	63.5
28/12/2010 00:00	146	67.3
29/12/2010 00:00	123.2	52
30/12/2010 00:00	145.5	59.3
31/12/2010 00:00	139	49.9
01/01/2011 00:00	131	50
02/01/2011 00:00	139.7	58.7
03/01/2011 00:00	150.5	61.9
04/01/2011 00:00	145.9	59.9
05/01/2011 00:00	163.4	62.7
06/01/2011 00:00	152.6	59.2
07/01/2011 00:00	151.9	58.7
08/01/2011 00:00	154	61.6
09/01/2011 00:00	164.3	59.2
10/01/2011 00:00	164.4	61.7
11/01/2011 00:00	167.5	61.2
12/01/2011 00:00	169.6	69.8
13/01/2011 00:00	170.5	71.1
14/01/2011 00:00	175.5	72.6
15/01/2011 00:00	163	57.9
16/01/2011 00:00	161.6	62.2
17/01/2011 00:00	164.8	65.8
18/01/2011 00:00	163.3	69.5
19/01/2011 00:00	174.5	64.5

565

20/01/2011 00:00	171.7	62.3
21/01/2011 00:00	168.5	66.1
22/01/2011 00:00	168.1	68.7
23/01/2011 00:00	171.8	63.3
24/01/2011 00:00	199.6	89.7
25/01/2011 00:00	316.2	133.2
26/01/2011 00:00	229.4	88.9
27/01/2011 00:00	236.6	99.7
28/01/2011 00:00	287.5	126.1
29/01/2011 00:00	230	95.4
30/01/2011 00:00	222.9	90.4
31/01/2011 00:00	226.1	89.3
01/02/2011 00:00	323.2	129.1
02/02/2011 00:00	334.8	133.1
03/02/2011 00:00	299.1	113.5
04/02/2011 00:00	256.8	98
05/02/2011 00:00	271.4	103.6
06/02/2011 00:00	288.2	113.8
07/02/2011 00:00	167.8	59.7
08/02/2011 00:00	164	50.1
09/02/2011 00:00	190.3	53.7
10/02/2011 00:00	210.5	69.9
11/02/2011 00:00	337.1	124
12/02/2011 00:00	217	81.8
13/02/2011 00:00	253.9	91.1
14/02/2011 00:00	118.3	44.4
15/02/2011 00:00	109.5	37.3
16/02/2011 00:00	120.8	32.3
17/02/2011 00:00	137.4	42.6
18/02/2011 00:00	127.3	46
19/02/2011 00:00	145.8	49.9
20/02/2011 00:00	129	41.8
21/02/2011 00:00	173.7	63.4
22/02/2011 00:00	172.5	62.8
23/02/2011 00:00	192.5	72.4
24/02/2011 00:00	157.3	61.9
25/02/2011 00:00	221.7	79.2
26/02/2011 00:00	224.2	70.7
27/02/2011 00:00	231.9	70.5
28/02/2011 00:00	218	75.1
01/03/2011 00:00	275.6	101
02/03/2011 00:00	233.2	79.8
03/03/2011 00:00	204.8	73.8
04/03/2011 00:00	153.3	51
05/03/2011 00:00	137.8	59.2
06/03/2011 00:00	197	72.5
07/03/2011 00:00	247.2	86.6
08/03/2011 00:00	189.4	57.8
09/03/2011 00:00	132.7	41
10/03/2011 00:00	133.9	41.2
11/03/2011 00:00	208.8	71.3
12/03/2011 00:00	201.1	70.3

566

13/03/2011 00:00	241.8	84.7
14/03/2011 00:00	245.8	93.5
15/03/2011 00:00	249.4	88.1
16/03/2011 00:00	201.7	69.2
17/03/2011 00:00	257.5	96.4
18/03/2011 00:00	202.2	71.6
19/03/2011 00:00	115.7	47.9
20/03/2011 00:00	127.2	45.7
21/03/2011 00:00	100.9	21.1
22/03/2011 00:00	108.3	19
23/03/2011 00:00	93.5	24.4
24/03/2011 00:00	99.8	26.8
25/03/2011 00:00	127	36.4
26/03/2011 00:00	131.1	40.8
27/03/2011 00:00	154.6	50.5
28/03/2011 00:00	132.8	48.8
29/03/2011 00:00	151	42.2
30/03/2011 00:00	267.5	57.9
31/03/2011 00:00	294.4	48.1
01/04/2011 00:00	199.5	28.4
02/04/2011 00:00	231.6	29.6
03/04/2011 00:00	149.4	20.7
04/04/2011 00:00	118.6	27.4
05/04/2011 00:00	120.9	32.5
06/04/2011 00:00	106.3	35.6
07/04/2011 00:00	113.4	28.7
08/04/2011 00:00	106.5	29.9
09/04/2011 00:00	119.6	31.6
10/04/2011 00:00	126.6	30.6
11/04/2011 00:00	103.9	30.9
12/04/2011 00:00	103.9	28.6
13/04/2011 00:00	141.8	34.2
14/04/2011 00:00	105.7	24.5
15/04/2011 00:00	110.8	24.8
16/04/2011 00:00	109.5	39.2
17/04/2011 00:00	109.1	38.1
18/04/2011 00:00	117.7	35.2
19/04/2011 00:00	157.7	50
20/04/2011 00:00	157.8	46.9
21/04/2011 00:00	144.8	42.2
22/04/2011 00:00	133.4	34
23/04/2011 00:00	137	41.1
24/04/2011 00:00	113	31.4
25/04/2011 00:00	101.4	26.3
26/04/2011 00:00	113.6	28.5
27/04/2011 00:00	107.1	27.6
28/04/2011 00:00	97.5	29.1
29/04/2011 00:00	96.2	28.5
30/04/2011 00:00	102.8	27.4
01/05/2011 00:00	63.3	17.8
02/05/2011 00:00	77	22
03/05/2011 00:00	62.6	18.5

567

04/05/2011 00:00	57.7	17.9
05/05/2011 00:00	59.5	16.2
06/05/2011 00:00	91.9	20.2
07/05/2011 00:00	159.8	27.7
08/05/2011 00:00	145.8	30.7
09/05/2011 00:00	151.5	25.4
10/05/2011 00:00	161.5	25.6
11/05/2011 00:00	212.5	44
12/05/2011 00:00	120.5	26.2
13/05/2011 00:00	69.3	23.7
14/05/2011 00:00	67.2	20.6
15/05/2011 00:00	69	23.3
16/05/2011 00:00	104.2	32.2
17/05/2011 00:00	82.9	26.2
18/05/2011 00:00	82	22.7
19/05/2011 00:00	75.3	22.6
20/05/2011 00:00	84.9	22.9
21/05/2011 00:00	68.5	17.2
22/05/2011 00:00	49.8	17.7
23/05/2011 00:00	41.4	16.2
24/05/2011 00:00	46.3	19.7
25/05/2011 00:00	54.1	22.5
26/05/2011 00:00	68.9	24.4
27/05/2011 00:00	74.4	19.7
28/05/2011 00:00	68.1	21
29/05/2011 00:00	52	19.6
30/05/2011 00:00	51.82	27.49
31/05/2011 00:00	49.68	25.13
01/06/2011 00:00	54.2	23
02/06/2011 00:00	74	30.3
03/06/2011 00:00	95.6	44.1
04/06/2011 00:00	79.7	38.9
05/06/2011 00:00	91.7	39.8
06/06/2011 00:00	88.3	33.3
07/06/2011 00:00	101.5	34.6
08/06/2011 00:00	93.5	36.5
09/06/2011 00:00	68	29.6
10/06/2011 00:00	52.8	24.9
11/06/2011 00:00	40.6	19.1
12/06/2011 00:00	41.8	24.8
13/06/2011 00:00	42.7	23.2
14/06/2011 00:00	81.3	40.1
15/06/2011 00:00	68.8	31.4
16/06/2011 00:00	70.6	28.1
17/06/2011 00:00	82.4	34.6
18/06/2011 00:00	105.1	32.7
19/06/2011 00:00	95.1	23
20/06/2011 00:00	108.6	31.1
21/06/2011 00:00	88.7	27.9
22/06/2011 00:00	99.5	29.9
23/06/2011 00:00	83.7	29.9
24/06/2011 00:00	95.2	29.7

25/06/2011 00:00	78.8	28.8
26/06/2011 00:00	81.7	26.3
27/06/2011 00:00	70.6	30.1
28/06/2011 00:00	69.9	33.1
29/06/2011 00:00	76.8	31.3
30/06/2011 00:00	78.1	28
01/07/2011 00:00	67.9	23.8
02/07/2011 00:00	59.3	26.8
03/07/2011 00:00	68.4	25.9
04/07/2011 00:00	108.3	39.2
05/07/2011 00:00	136.5	42.7
06/07/2011 00:00	127.5	40.8
07/07/2011 00:00	85.6	32.3
08/07/2011 00:00	47.4	23.7
09/07/2011 00:00	53.5	19.9
10/07/2011 00:00	63.3	21.6
11/07/2011 00:00	65.4	21.8
12/07/2011 00:00	49.4	17.6
13/07/2011 00:00	51.2	19.9
14/07/2011 00:00	38.8	21.3
15/07/2011 00:00	48.3	28.2
16/07/2011 00:00	49.6	21.7
17/07/2011 00:00	43.3	14.3
18/07/2011 00:00	39.9	15.5
19/07/2011 00:00	34.4	15.5
20/07/2011 00:00	71	32.2
21/07/2011 00:00	74.4	34.6
22/07/2011 00:00	77.5	27.3
23/07/2011 00:00	103.1	31.4
24/07/2011 00:00	113.6	29.9
25/07/2011 00:00	65.1	27.7
26/07/2011 00:00	80.8	36.4
27/07/2011 00:00	43.5	26.4
28/07/2011 00:00	69.3	26.8
29/07/2011 00:00	46.3	24.6
30/07/2011 00:00	45.1	29.4
31/07/2011 00:00	29.9	19.5
01/08/2011 00:00	35.8	24.2
02/08/2011 00:00	33.9	23.3
03/08/2011 00:00	52.8	34.1
04/08/2011 00:00	51.5	33.3
05/08/2011 00:00	55.5	36.3
06/08/2011 00:00	74.4	51
07/08/2011 00:00	74.4	57.3
08/08/2011 00:00	82.7	52.7
09/08/2011 00:00	74	48
10/08/2011 00:00	75.9	47.3
11/08/2011 00:00	75.7	49
12/08/2011 00:00	70.3	45.5
13/08/2011 00:00	63.1	39.1
14/08/2011 00:00	68.8	44.6
15/08/2011 00:00	75.2	45

16/08/2011 00:00	63.7	41.7
17/08/2011 00:00	60.2	38.2
18/08/2011 00:00	63.1	40.2
19/08/2011 00:00	77.1	49.9
20/08/2011 00:00	76.1	51.3
21/08/2011 00:00	83.2	53.9
22/08/2011 00:00	82.3	52.7
23/08/2011 00:00	68.6	44.3
24/08/2011 00:00	61.1	39.6
25/08/2011 00:00	50.7	32.8
26/08/2011 00:00	50.6	32.8
27/08/2011 00:00	27.8	17.8
28/08/2011 00:00	27.9	18.1
29/08/2011 00:00	23.7	15.7
30/08/2011 00:00	42.6	29.5
31/08/2011 00:00	64.9	42.2
01/09/2011 00:00	50.3	28.4
02/09/2011 00:00	41	25.6
03/09/2011 00:00	38.4	22.4
04/09/2011 00:00	51.2	31.3
05/09/2011 00:00	66.8	41.4
06/09/2011 00:00	73.2	45.1
07/09/2011 00:00	74	46.2
08/09/2011 00:00	70.9	46
09/09/2011 00:00	72.6	47
10/09/2011 00:00	71.3	46.2
11/09/2011 00:00	52.7	34.2
12/09/2011 00:00	66.3	43
13/09/2011 00:00	84.4	47.3
14/09/2011 00:00	48.1	17.3
15/09/2011 00:00	54.9	28.3
16/09/2011 00:00	71.4	25.9
17/09/2011 00:00	61.3	25.9
18/09/2011 00:00	75.7	20.3
19/09/2011 00:00	64.2	26.8
20/09/2011 00:00	64.3	34.3
21/09/2011 00:00	104.9	46.4
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23/09/2011 00:00	89.5	25.2
24/09/2011 00:00	87.1	33.5
25/09/2011 00:00	87	30.9
26/09/2011 00:00	81.8	32
27/09/2011 00:00	89.2	48
28/09/2011 00:00	88.4	45.4
29/09/2011 00:00	89.1	39.5
30/09/2011 00:00	100	42.4
01/10/2011 00:00	94.6	46.5
02/10/2011 00:00	88.2	38.3
03/10/2011 00:00	72.5	33
04/10/2011 00:00	88	40.1
05/10/2011 00:00	101.1	45.9
06/10/2011 00:00	109.5	65.9

570

07/10/2011 00:00	94.8	44.9
08/10/2011 00:00	94.8	40.9
09/10/2011 00:00	92.6	41.3
10/10/2011 00:00	85.8	44.6
11/10/2011 00:00	84.5	40.4
12/10/2011 00:00	81.1	38.3
13/10/2011 00:00	78.7	34.8
14/10/2011 00:00	74	32.9
15/10/2011 00:00	64.5	27.1
16/10/2011 00:00	72.7	28.3
17/10/2011 00:00	80.8	35.7
18/10/2011 00:00	80.9	33.4
19/10/2011 00:00	85.4	38.6
20/10/2011 00:00	83.9	38
21/10/2011 00:00	81.9	38.9
22/10/2011 00:00	112.8	46.9
23/10/2011 00:00	110.3	57.5
24/10/2011 00:00	140.7	64.3
25/10/2011 00:00	233.1	106.5
26/10/2011 00:00	358.5	201.7
27/10/2011 00:00	364.2	194
28/10/2011 00:00	251.4	127.1
29/10/2011 00:00	198.9	101.2
30/10/2011 00:00	164.3	80.1
31/10/2011 00:00	202.2	102
01/11/2011 00:00	207.2	114.2
02/11/2011 00:00	233.2	111.3
03/11/2011 00:00	286.1	130
04/11/2011 00:00	233.4	95.5
05/11/2011 00:00	178.9	83.5
06/11/2011 00:00	165.2	77.2
07/11/2011 00:00	141	62.6
08/11/2011 00:00	134.4	57.1
09/11/2011 00:00	117.3	45.6
10/11/2011 00:00	124	45.1
11/11/2011 00:00	159.4	63.2
12/11/2011 00:00	178.5	73.9
13/11/2011 00:00	178.3	70.9
14/11/2011 00:00	181.6	78.8
15/11/2011 00:00	186.3	84.3
16/11/2011 00:00	140.1	58.5
17/11/2011 00:00	139.9	59
18/11/2011 00:00	151.5	57.3
19/11/2011 00:00	167.2	64.7
20/11/2011 00:00	156.3	62.5
21/11/2011 00:00	136.2	56.1
22/11/2011 00:00	157.8	63.8
23/11/2011 00:00	151.9	56.2
24/11/2011 00:00	170.7	69
25/11/2011 00:00	203.2	78.4
26/11/2011 00:00	145.4	58.6
27/11/2011 00:00	125.1	49.4

571

28/11/2011 00:00	138.7	49.1
29/11/2011 00:00	80	26.9
30/11/2011 00:00	110.7	35.5
01/12/2011 00:00	117.3	44.3
02/12/2011 00:00	150.2	59.2
03/12/2011 00:00	157.8	59.3
04/12/2011 00:00	201	70.8
05/12/2011 00:00	217.3	83.9
06/12/2011 00:00	197.2	79.2
07/12/2011 00:00	199.1	71.1
08/12/2011 00:00	182	67.1
09/12/2011 00:00	215.1	75.3
10/12/2011 00:00	180.3	63.1
11/12/2011 00:00	135.4	48.2
12/12/2011 00:00	184.3	66.7
13/12/2011 00:00	184.8	64.7
14/12/2011 00:00	164.9	57
15/12/2011 00:00	191.3	66.9
16/12/2011 00:00	191.9	64.4
17/12/2011 00:00	184.6	63.2
18/12/2011 00:00	194.9	66.4
19/12/2011 00:00	216.1	71.9
20/12/2011 00:00	211.6	73.1
21/12/2011 00:00	232.9	79.3
22/12/2011 00:00	223.2	84.5
23/12/2011 00:00	241.5	81.5
24/12/2011 00:00	232.2	80.4
25/12/2011 00:00	239	82.3
26/12/2011 00:00	234.5	79.3
27/12/2011 00:00	160.6	50
28/12/2011 00:00	221.8	72.6
29/12/2011 00:00	219.7	77.7
30/12/2011 00:00	238.7	80.8
31/12/2011 00:00	202.2	70.9
01/01/2012 00:00	160	55.7
02/01/2012 00:00	208.1	74.1
03/01/2012 00:00	230.2	81.1
04/01/2012 00:00	185.9	63.2
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06/01/2012 00:00	233.6	77.4
07/01/2012 00:00	189	60.3
08/01/2012 00:00	140.8	42.3
09/01/2012 00:00	156.7	47.2
10/01/2012 00:00	180.9	54.7
11/01/2012 00:00	165.3	48.2
12/01/2012 00:00	137.2	41.6
13/01/2012 00:00	166.5	49.2
14/01/2012 00:00	190.5	58.2
15/01/2012 00:00	208.2	64.6
16/01/2012 00:00	154.7	48.8
17/01/2012 00:00	115.5	30.1
18/01/2012 00:00	94.5	20.1

572

19/01/2012 00:00	94.9	21.1
20/01/2012 00:00	127.7	36.3
21/01/2012 00:00	235.5	62.9
22/01/2012 00:00	159.4	45.1
23/01/2012 00:00	161	46.2
24/01/2012 00:00	243.9	68.2
25/01/2012 00:00	141.8	37.7
26/01/2012 00:00	145	36.5
27/01/2012 00:00	163.9	43.4
28/01/2012 00:00	147.7	38.7
29/01/2012 00:00	157.5	48
30/01/2012 00:00	231.5	69.4
31/01/2012 00:00	256.3	76.3
01/02/2012 00:00	196.1	53.5
02/02/2012 00:00	201.3	56
03/02/2012 00:00	263.3	70.4
04/02/2012 00:00	220.7	55.9
05/02/2012 00:00	173.1	46.8
06/02/2012 00:00	184.9	44.3
07/02/2012 00:00	146.8	39.7
08/02/2012 00:00	140.8	42.6
09/02/2012 00:00	177.4	54
10/02/2012 00:00	215.3	78.1
11/02/2012 00:00	266.1	89.2
12/02/2012 00:00	255.5	80.5
13/02/2012 00:00	212.2	60.9
14/02/2012 00:00	186.8	47.9
15/02/2012 00:00	176.5	44.2
16/02/2012 00:00	182.4	42.1
17/02/2012 00:00	187.2	55.3
18/02/2012 00:00	197.5	71.3
19/02/2012 00:00	178.5	73.6
20/02/2012 00:00	185.3	69.2
21/02/2012 00:00	191.7	66.7
22/02/2012 00:00	185.4	96.6
23/02/2012 00:00	171	68.7
24/02/2012 00:00	194.4	62.5
25/02/2012 00:00	208.1	74.5
26/02/2012 00:00	192.5	65.9
27/02/2012 00:00	200.1	71.3
28/02/2012 00:00	178.3	68.1
29/02/2012 00:00	165.5	52.8
01/03/2012 00:00	190.2	65.7
02/03/2012 00:00	202.1	87.6
03/03/2012 00:00	206.9	57
04/03/2012 00:00	165.6	47.2
05/03/2012 00:00	195.5	60.4
06/03/2012 00:00	169.1	53.5
07/03/2012 00:00	159.1	39.5
08/03/2012 00:00	174.6	65
09/03/2012 00:00	198.5	54.7
10/03/2012 00:00	229.9	64.7

573

11/03/2012 00:00	204.3	76.5
12/03/2012 00:00	176	51.7
13/03/2012 00:00	182.8	62.3
14/03/2012 00:00	188.7	86.2
15/03/2012 00:00	189.8	83.1
16/03/2012 00:00	181.4	67
17/03/2012 00:00	169.6	44.9
18/03/2012 00:00	166.9	51.7
19/03/2012 00:00	117.6	49
20/03/2012 00:00	139.3	56.2
21/03/2012 00:00	793.4	194
22/03/2012 00:00	727.6	147
23/03/2012 00:00	299.3	90.9
24/03/2012 00:00	313.2	109.9
25/03/2012 00:00	247.8	90.6
26/03/2012 00:00	189.4	43.2
27/03/2012 00:00	206.6	34.5
28/03/2012 00:00	207.3	41.6
29/03/2012 00:00	203	36.7
30/03/2012 00:00	190.8	35.8
31/03/2012 00:00	146	30.1
01/04/2012 00:00	143.2	36.5
02/04/2012 00:00	126.4	30.9
03/04/2012 00:00	128.6	42.9
04/04/2012 00:00	129.2	43
05/04/2012 00:00	97.2	38.1
06/04/2012 00:00	134.6	54.5
07/04/2012 00:00	100.1	39.1
08/04/2012 00:00	133.7	50.6
09/04/2012 00:00	130.1	55.1
10/04/2012 00:00	141.6	43.4
11/04/2012 00:00	154.4	46.5
12/04/2012 00:00	121.8	41.4
13/04/2012 00:00	106.6	41.3
14/04/2012 00:00	111.9	50.5
15/04/2012 00:00	128.7	44.4
16/04/2012 00:00	136.5	56.4
17/04/2012 00:00	152.5	51.3
18/04/2012 00:00	131.6	39.6
19/04/2012 00:00	122.7	41
20/04/2012 00:00	148.7	49.6
21/04/2012 00:00	187.9	53.1
22/04/2012 00:00	98.3	22
23/04/2012 00:00	135.4	36.6
24/04/2012 00:00	96.5	15.8
25/04/2012 00:00	102.1	18.5
26/04/2012 00:00	177.6	34.8
27/04/2012 00:00	175.7	41.7
28/04/2012 00:00	114.4	21.7
29/04/2012 00:00	97.7	19.1
30/04/2012 00:00	100.5	14.4
01/05/2012 00:00	100.6	29.7

574

02/05/2012 00:00	116.4	45.4
03/05/2012 00:00	114.9	41.1
04/05/2012 00:00	98.9	33.3
05/05/2012 00:00	95.4	33.6
06/05/2012 00:00	97.3	37
07/05/2012 00:00	76	42.2
08/05/2012 00:00	93.2	27.4
09/05/2012 00:00	77.6	36.6
10/05/2012 00:00	78.1	34.3
11/05/2012 00:00	76.3	31.9
12/05/2012 00:00	77.3	33
13/05/2012 00:00	83.6	35.8
14/05/2012 00:00	82.3	35.2
15/05/2012 00:00	101.5	44.9
16/05/2012 00:00	97.2	46.9
17/05/2012 00:00	93.2	47
18/05/2012 00:00	103.7	46
19/05/2012 00:00	90.9	38.2
20/05/2012 00:00	89.5	49.7
21/05/2012 00:00	121.7	55.1
22/05/2012 00:00	100.7	49.5
23/05/2012 00:00	94.8	45.1
24/05/2012 00:00	102.2	54.3
25/05/2012 00:00	93.4	47
26/05/2012 00:00	87.2	46.4
27/05/2012 00:00	77.5	36
28/05/2012 00:00	79.6	40.4
29/05/2012 00:00	74.2	34.1
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31/05/2012 00:00	68.5	32.8
01/06/2012 00:00	77.4	36
02/06/2012 00:00	75.4	36.8
03/06/2012 00:00	73.7	37.1
04/06/2012 00:00	82.3	43.8
05/06/2012 00:00	79.4	46.9
06/06/2012 00:00	77.7	42.6
07/06/2012 00:00	68.8	40.8
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11/06/2012 00:00	67.5	40.3
12/06/2012 00:00	65.4	36.8
13/06/2012 00:00	67.5	34.6
14/06/2012 00:00	73.9	43.1
15/06/2012 00:00	60.4	31.5
16/06/2012 00:00	69	33.3
17/06/2012 00:00	69.7	40.8
18/06/2012 00:00	62.4	31.5
19/06/2012 00:00	58.6	31.5
20/06/2012 00:00	59.1	31.7
21/06/2012 00:00	57.2	35
22/06/2012 00:00	52.5	33.2

575

23/06/2012 00:00	51.3	26.2
24/06/2012 00:00	51.7	33
25/06/2012 00:00	52.8	28.9
26/06/2012 00:00	62.8	36.8
27/06/2012 00:00	52.2	28.6
28/06/2012 00:00	58.1	33.6
29/06/2012 00:00	56.7	33.2
30/06/2012 00:00	56.9	32.3
01/07/2012 00:00	54.4	33.6
02/07/2012 00:00	58.5	34.3
03/07/2012 00:00	52.3	31.5
04/07/2012 00:00	48.6	27.8
05/07/2012 00:00	46.6	29.1
06/07/2012 00:00	45.3	31.1
07/07/2012 00:00	46.2	31.7
08/07/2012 00:00	47.2	32.6
09/07/2012 00:00	49.4	33.3
10/07/2012 00:00	48.6	33.4
11/07/2012 00:00	43.7	29.3
12/07/2012 00:00	39.2	24.1
13/07/2012 00:00	38.1	21.4
14/07/2012 00:00	41.6	22.1
15/07/2012 00:00	42.5	22.6
16/07/2012 00:00	40.3	19.8
17/07/2012 00:00	45.7	24
18/07/2012 00:00	38.9	20.4
19/07/2012 00:00	46	23.2
20/07/2012 00:00	50.2	31
21/07/2012 00:00	57	31.2
22/07/2012 00:00	51.5	22.9
23/07/2012 00:00	46.7	24.9
24/07/2012 00:00	46.5	26.4
25/07/2012 00:00	46.3	24.5
26/07/2012 00:00	35.1	19.3
27/07/2012 00:00	44	24.5
28/07/2012 00:00	30.4	18.5
29/07/2012 00:00	54.4	28.7
30/07/2012 00:00	38	23.3
31/07/2012 00:00	38.6	22.4
01/08/2012 00:00	32.1	21.7
02/08/2012 00:00	34.5	22.4
03/08/2012 00:00	36.6	22.7
04/08/2012 00:00	34	16.3
05/08/2012 00:00	56	27.5
06/08/2012 00:00	48	18.7
07/08/2012 00:00	58.3	24
08/08/2012 00:00	71.4	19.8
09/08/2012 00:00	70.7	16.3
10/08/2012 00:00	74	17.9
11/08/2012 00:00	74.1	18.2
12/08/2012 00:00	77.5	20.1
13/08/2012 00:00	84.5	22.2

576

14/08/2012 00:00	80.5	21.7
15/08/2012 00:00	89.7	26.8
16/08/2012 00:00	42.2	25.2
17/08/2012 00:00	83.9	24.2
18/08/2012 00:00	39.2	24.6
19/08/2012 00:00	34.8	17.8
20/08/2012 00:00	31.8	19.1
21/08/2012 00:00	36.3	21
22/08/2012 00:00	37.2	20.6
23/08/2012 00:00	37.5	23.7
24/08/2012 00:00	34.8	18.8
25/08/2012 00:00	35.7	18.6
26/08/2012 00:00	43.2	18
27/08/2012 00:00	45.4	12.3
28/08/2012 00:00	55.9	17.9
29/08/2012 00:00	65.3	21.2
30/08/2012 00:00	67.4	23.6
31/08/2012 00:00	96	31.7
01/09/2012 00:00	75.4	25
02/09/2012 00:00	43.1	16.5
03/09/2012 00:00	45.9	14.5
04/09/2012 00:00	44.4	14.8
05/09/2012 00:00	55.4	17.2
06/09/2012 00:00	44.8	15.5
07/09/2012 00:00	50.8	19
08/09/2012 00:00	55.7	19.8
09/09/2012 00:00	56.2	18.7
10/09/2012 00:00	55.2	19.3
11/09/2012 00:00	57.3	20.5
12/09/2012 00:00	65.7	23.1
13/09/2012 00:00	70.8	24.3
14/09/2012 00:00	55.8	20.1
15/09/2012 00:00	65.2	22.4
16/09/2012 00:00	58.2	21.2
17/09/2012 00:00	55.5	20.6
18/09/2012 00:00	84.3	28.1
19/09/2012 00:00	129.7	39.9
20/09/2012 00:00	137.3	41.9
21/09/2012 00:00	129.9	40.8
22/09/2012 00:00	138	42.1
23/09/2012 00:00	119.8	37.3
24/09/2012 00:00	123	38.2
25/09/2012 00:00	102.2	35.7
26/09/2012 00:00	105.2	42.6
27/09/2012 00:00	106.1	43.6
28/09/2012 00:00	96	38.9
29/09/2012 00:00	123.3	48.7
30/09/2012 00:00	176.1	67.5
01/10/2012 00:00	108.5	45.1
02/10/2012 00:00	96.5	39.6
03/10/2012 00:00	59.8	26.7
04/10/2012 00:00	73.2	31.4

577

05/10/2012 00:00	92.2	38
06/10/2012 00:00	99	40.3
07/10/2012 00:00	69.2	30
08/10/2012 00:00	135.2	53.2
09/10/2012 00:00	93.1	38.9
10/10/2012 00:00	81.6	36.2
11/10/2012 00:00	99.5	43.2
12/10/2012 00:00	110.3	46.2
13/10/2012 00:00	116.7	50.1
14/10/2012 00:00	124.4	49.3
15/10/2012 00:00	106	45.9
16/10/2012 00:00	118.7	41.2
17/10/2012 00:00	121.8	48.9
18/10/2012 00:00	141.3	52.7
19/10/2012 00:00	132.1	46.9
20/10/2012 00:00	140	49
21/10/2012 00:00	155.7	56.3
22/10/2012 00:00	132.8	54.1
23/10/2012 00:00	119.85	37.34
24/10/2012 00:00	123.03	38.17
25/10/2012 00:00	114.2	43.6
26/10/2012 00:00	71.7	31.4
27/10/2012 00:00	76.4	31.5
28/10/2012 00:00	67.2	28.2
29/10/2012 00:00	84.8	53
30/10/2012 00:00	79.6	34.5
31/10/2012 00:00	71.6	35
01/11/2012 00:00	83.2	36.6
02/11/2012 00:00	73.6	34.5
03/11/2012 00:00	67.5	28.4
04/11/2012 00:00	59.5	20.8
05/11/2012 00:00	64.7	26.1
06/11/2012 00:00	58.5	23
07/11/2012 00:00	63.4	24.6
08/11/2012 00:00	60.8	24.4
09/11/2012 00:00	88.2	37.1
10/11/2012 00:00	161.3	86.7
11/11/2012 00:00	264.1	153.2
12/11/2012 00:00	226.7	125.1
13/11/2012 00:00	280	142.1
14/11/2012 00:00	319	180.9
15/11/2012 00:00	280.4	150.2
16/11/2012 00:00	210.5	97.3
17/11/2012 00:00	134.2	53.7
18/11/2012 00:00	115.8	46.3
19/11/2012 00:00	156.9	62.7
20/11/2012 00:00	154.8	61.9
21/11/2012 00:00	171.1	68.5
22/11/2012 00:00	199.3	79.6
23/11/2012 00:00	177.2	70.9
24/11/2012 00:00	198.7	79.5
25/11/2012 00:00	230.8	92.3

578

26/11/2012 00:00	217.8	87.1
27/11/2012 00:00	185.3	74.1
28/11/2012 00:00	173.9	69.6
29/11/2012 00:00	212	84.8
30/11/2012 00:00	184.5	73.8
01/12/2012 00:00	191.4	76.6
02/12/2012 00:00	200	80
03/12/2012 00:00	203.8	81.5
04/12/2012 00:00	214.7	85.9
05/12/2012 00:00	189.6	75.9
06/12/2012 00:00	167.1	66.8
07/12/2012 00:00	190.5	76.2
08/12/2012 00:00	223.6	89.4
09/12/2012 00:00	187.5	75
10/12/2012 00:00	103.6	41.4
11/12/2012 00:00	92	36.8
12/12/2012 00:00	122	50.5
13/12/2012 00:00	100.9	51.3
14/12/2012 00:00	105.1	54.4
15/12/2012 00:00	188.6	68.1
16/12/2012 00:00	224.4	74.8
17/12/2012 00:00	185.2	80.5
18/12/2012 00:00	185.1	84.4
19/12/2012 00:00	156.4	62.5
20/12/2012 00:00	163	53
21/12/2012 00:00	196	61.7
22/12/2012 00:00	213.3	58.1
23/12/2012 00:00	230.4	85.5
24/12/2012 00:00	223.2	107.6
25/12/2012 00:00	199.5	69.1
26/12/2012 00:00	150.7	52.9
27/12/2012 00:00	173.2	56.9
28/12/2012 00:00	206.9	62.2
29/12/2012 00:00	230.4	69
30/12/2012 00:00	247.5	104.9
31/12/2012 00:00	245.7	134.2
01/01/2013 00:00	202.98	101.93
02/01/2013 00:00	191.64	88.9
03/01/2013 00:00	177.5	64.1
04/01/2013 00:00	216.1	92.1
05/01/2013 00:00	191.5	79.6
06/01/2013 00:00	180.6	51
07/01/2013 00:00	208.8	63.3
08/01/2013 00:00	226.9	59.8
09/01/2013 00:00	284.5	84.8
10/01/2013 00:00	232.8	102.1
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12/01/2013 00:00	201.7	66.2
13/01/2013 00:00	210.8	74.2
14/01/2013 00:00	195.3	67.5
15/01/2013 00:00	204.9	58.7
16/01/2013 00:00	286.2	77.6

579

17/01/2013 00:00	259.7	91.6
18/01/2013 00:00	124.8	35.1
19/01/2013 00:00	147.9	46.4
20/01/2013 00:00	205.2	54.5
21/01/2013 00:00	225.8	62.5
22/01/2013 00:00	176.9	58.7
23/01/2013 00:00	174.6	65.8
24/01/2013 00:00	230.5	88.4
25/01/2013 00:00	194.2	78.7
26/01/2013 00:00	163.7	66.9
27/01/2013 00:00	222.4	89.3
28/01/2013 00:00	212.8	84.8
29/01/2013 00:00	174.5	65.9
30/01/2013 00:00	145.7	57.6
31/01/2013 00:00	172.5	62.3
01/02/2013 00:00	175.1	69
02/02/2013 00:00	196.9	73.3
03/02/2013 00:00	171.3	66.2
04/02/2013 00:00	152.9	56.4
05/02/2013 00:00	136.6	48.8
06/02/2013 00:00	142.5	52.6
07/02/2013 00:00	150.2	54
08/02/2013 00:00	152.4	54.6
09/02/2013 00:00	170.9	67.3
10/02/2013 00:00	214.4	84.2
11/02/2013 00:00	261	80.6
12/02/2013 00:00	165.2	63.4
13/02/2013 00:00	158.4	51.8
14/02/2013 00:00	148.8	54.4
15/02/2013 00:00	147	49.3
16/02/2013 00:00	92.8	32.1
17/02/2013 00:00	114.6	39.5
18/02/2013 00:00	134.3	47.2
19/02/2013 00:00	142.5	49.7
20/02/2013 00:00	172.6	65.7
21/02/2013 00:00	193.2	70.7
22/02/2013 00:00	160.4	56.7
23/02/2013 00:00	110.9	32.3
24/02/2013 00:00	136.3	41.9
25/02/2013 00:00	192	64.6
26/02/2013 00:00	145.4	46.8
27/02/2013 00:00	96.7	31.3
28/02/2013 00:00	121.9	35.2
01/03/2013 00:00	178.4	61.6
02/03/2013 00:00	167.5	66
03/03/2013 00:00	180.3	61.7
04/03/2013 00:00	178.6	42.6
05/03/2013 00:00	217.1	75.6
06/03/2013 00:00	162.62	62.08
07/03/2013 00:00	204.9	74.5
08/03/2013 00:00	184.4	68.4
09/03/2013 00:00	232.2	82.5

580

10/03/2013 00:00	79.4	37.6
11/03/2013 00:00	109.7	46.5
12/03/2013 00:00	153.2	59.3
13/03/2013 00:00	86.9	39.8
14/03/2013 00:00	81.7	38.2
15/03/2013 00:00	93.1	41.6
16/03/2013 00:00	93.7	41.8
17/03/2013 00:00	102.2	43.9
18/03/2013 00:00	122.9	50.4
19/03/2013 00:00	115.1	48.1
20/03/2013 00:00	128.9	47.6
21/03/2013 00:00	107.9	46
22/03/2013 00:00	85.7	39.5
23/03/2013 00:00	75.5	33.4
24/03/2013 00:00	59.2	20.7
25/03/2013 00:00	84.7	29.6
26/03/2013 00:00	111.9	39.2
27/03/2013 00:00	69.9	24.4
28/03/2013 00:00	71.4	25
29/03/2013 00:00	80.7	28.3
30/03/2013 00:00	130.8	45.8
31/03/2013 00:00	97.3	35.5
01/04/2013 00:00	99.8	40.4
02/04/2013 00:00	81.4	37.6
03/04/2013 00:00	73.7	25.8
04/04/2013 00:00	92.8	29.8
05/04/2013 00:00	107.7	37.7
06/04/2013 00:00	102.5	35.9
07/04/2013 00:00	103.6	36.3
08/04/2013 00:00	89.6	31.4
09/04/2013 00:00	91.4	32
10/04/2013 00:00	252.4	84.4
11/04/2013 00:00	154.7	64.5
12/04/2013 00:00	121.4	31.6
13/04/2013 00:00	140.8	30.6
14/04/2013 00:00	139.1	30.4
15/04/2013 00:00	111.4	28.4
16/04/2013 00:00	111.8	36.6
17/04/2013 00:00	99.8	30
18/04/2013 00:00	91.4	27.4
19/04/2013 00:00	90.8	27.2
20/04/2013 00:00	77	23.1
21/04/2013 00:00	69.6	20.9
22/04/2013 00:00	87.1	26.1
23/04/2013 00:00	110	33.4
24/04/2013 00:00	109.3	32.8
25/04/2013 00:00	108.9	32.7
26/04/2013 00:00	125.9	40.2
27/04/2013 00:00	153	45.9
28/04/2013 00:00	111.6	33.5
29/04/2013 00:00	78.3	23.5
30/04/2013 00:00	78.1	23.4

581

01/05/2013 00:00	83.7	25.1
02/05/2013 00:00	133	39.9
03/05/2013 00:00	78.3	27.8
04/05/2013 00:00	79.2	27.7
05/05/2013 00:00	88.4	30.9
06/05/2013 00:00	97.1	34
07/05/2013 00:00	99.9	35
08/05/2013 00:00	112	41.3
09/05/2013 00:00	131.1	45.9
10/05/2013 00:00	134.4	47.1
11/05/2013 00:00	100	35
12/05/2013 00:00	170.3	59.6
13/05/2013 00:00	140.2	49.1
14/05/2013 00:00	97.3	34.1
15/05/2013 00:00	90.7	31.8
16/05/2013 00:00	93.8	32.9
17/05/2013 00:00	85.7	30
18/05/2013 00:00	88.3	30.9
19/05/2013 00:00	97.5	34.1
20/05/2013 00:00	102.9	36
21/05/2013 00:00	88.3	30.9
22/05/2013 00:00	67.5	23.6
23/05/2013 00:00	63.6	22.3
24/05/2013 00:00	57.2	20
25/05/2013 00:00	42.7	15
26/05/2013 00:00	32.3	11.3
27/05/2013 00:00	39.9	14
28/05/2013 00:00	48.4	17.5
29/05/2013 00:00	71.7	26.4
30/05/2013 00:00	146.2	52.5
31/05/2013 00:00	94.6	34.4
01/06/2013 00:00	87	31.7
02/06/2013 00:00	58.8	21.9
03/06/2013 00:00	74	27.5
04/06/2013 00:00	54.5	20.4
05/06/2013 00:00	73.2	26.9
06/06/2013 00:00	57.4	21.4
07/06/2013 00:00	52.5	19.3
08/06/2013 00:00	45.5	16.1
09/06/2013 00:00	40.9	13.9
10/06/2013 00:00	53.6	18.4
11/06/2013 00:00	161.4	56.1
12/06/2013 00:00	170.3	59.2
13/06/2013 00:00	136.4	47.4
14/06/2013 00:00	99.3	34.5
15/06/2013 00:00	78.5	27.2
16/06/2013 00:00	36.2	12.4
17/06/2013 00:00	29.3	10.4
18/06/2013 00:00	39.2	13.2
19/06/2013 00:00	71.7	23.3
20/06/2013 00:00	75.6	24.7
21/06/2013 00:00	85.1	28

582

22/06/2013 00:00	70.2	22.8
23/06/2013 00:00	65.8	21.2
24/06/2013 00:00	63.8	20.9
25/06/2013 00:00	66.8	22.4
26/06/2013 00:00	67.5	22.6
27/06/2013 00:00	63.4	21.6
28/06/2013 00:00	63.7	22.2
29/06/2013 00:00	60.7	21.1
30/06/2013 00:00	71.2	25.2
01/07/2013 00:00	68.6	23.7
02/07/2013 00:00	58.5	19.5
03/07/2013 00:00	82.7	26
04/07/2013 00:00	82.8	29.7
05/07/2013 00:00	85.9	27.7
06/07/2013 00:00	83.1	25.2
07/07/2013 00:00	79	23.8
08/07/2013 00:00	77.5	25
09/07/2013 00:00	76	25.4
10/07/2013 00:00	69.2	23.5
11/07/2013 00:00	84.9	29.8
12/07/2013 00:00	87.69	30.99
13/07/2013 00:00	101.3	35.6
14/07/2013 00:00	101.1	35.8
15/07/2013 00:00	102.5	35.3
16/07/2013 00:00	106.1	34.4
17/07/2013 00:00	88	27.6
18/07/2013 00:00	86.5	27
19/07/2013 00:00	93.3	29.3
20/07/2013 00:00	64.7	23.8
21/07/2013 00:00	63.4	26.5
22/07/2013 00:00	63.2	26.4
23/07/2013 00:00	50.5	21.8
24/07/2013 00:00	51.7	22.2
25/07/2013 00:00	63.1	26.3
26/07/2013 00:00	74.3	30.2
27/07/2013 00:00	63.8	26.7
28/07/2013 00:00	59.5	25.1
29/07/2013 00:00	67.4	27.9
30/07/2013 00:00	68.7	28.4
31/07/2013 00:00	71.7	29.4
01/08/2013 00:00	70	28.8
02/08/2013 00:00	71.3	29.3
03/08/2013 00:00	78.7	31.8
04/08/2013 00:00	78.6	31.8
05/08/2013 00:00	82.2	33.1
06/08/2013 00:00	75.7	30.8
07/08/2013 00:00	60.3	25.4
08/08/2013 00:00	61.7	25.9
09/08/2013 00:00	57	24.2
10/08/2013 00:00	59.8	25.2
11/08/2013 00:00	60.1	25.3
12/08/2013 00:00	72.2	31.5

583

13/08/2013 00:00	79.5	35.3
14/08/2013 00:00	85.8	37.6
15/08/2013 00:00	85.9	37.5
16/08/2013 00:00	83.1	36.6
17/08/2013 00:00	79.4	35.3
18/08/2013 00:00	91.4	39.5
19/08/2013 00:00	101.2	42.9
20/08/2013 00:00	94.4	40.5
21/08/2013 00:00	87.7	38.2
22/08/2013 00:00	87.3	38.1
23/08/2013 00:00	87.4	38.1
24/08/2013 00:00	87.3	38.1
25/08/2013 00:00	79.1	35.2
26/08/2013 00:00	81.56	36.05
27/08/2013 00:00	47.15	21.28
28/08/2013 00:00	48.2	20.5
29/08/2013 00:00	31.4	14.1
30/08/2013 00:00	36.4	15.9
31/08/2013 00:00	57	23.8
01/09/2013 00:00	72.2	29.6
02/09/2013 00:00	68.2	28.1
03/09/2013 00:00	39.4	17.1
04/09/2013 00:00	40.4	14.4
05/09/2013 00:00	32.9	15.8
06/09/2013 00:00	34	14.8
07/09/2013 00:00	39	16.6
08/09/2013 00:00	65.3	26.4
09/09/2013 00:00	69.6	28
10/09/2013 00:00	69.2	27.8
11/09/2013 00:00	49.4	20.5
12/09/2013 00:00	66.6	26.8
13/09/2013 00:00	85	33.7
14/09/2013 00:00	68.3	27.5
15/09/2013 00:00	40.1	17
16/09/2013 00:00	36.5	15.7
17/09/2013 00:00	48.1	20
18/09/2013 00:00	49.3	20.4
19/09/2013 00:00	47.5	19.7
20/09/2013 00:00	52.3	21.5
21/09/2013 00:00	62.3	25.3
22/09/2013 00:00	38.4	16.4
23/09/2013 00:00	39.8	16.9
24/09/2013 00:00	36.5	15.7
25/09/2013 00:00	45.7	19.1
26/09/2013 00:00	37.9	16.2
27/09/2013 00:00	40.3	15.5
28/09/2013 00:00	50.8	19.5
29/09/2013 00:00	50.9	22.4
30/09/2013 00:00	65.4	28.3
01/10/2013 00:00	74.7	32
02/10/2013 00:00	66.8	28.8
03/10/2013 00:00	71.1	30.6

584

04/10/2013 00:00	65.4	28.3
05/10/2013 00:00	53.1	23.4
06/10/2013 00:00	84.7	35.9
07/10/2013 00:00	58.4	25.5
08/10/2013 00:00	49	23.5
09/10/2013 00:00	40.6	20.5
10/10/2013 00:00	49.9	19.8
11/10/2013 00:00	72.5	28.4
12/10/2013 00:00	49	20.5
13/10/2013 00:00	71.4	31
14/10/2013 00:00	50.2	21
15/10/2013 00:00	98.8	43.9
16/10/2013 00:00	100.6	44.8
17/10/2013 00:00	104.6	46.7
18/10/2013 00:00	101.4	43.5
19/10/2013 00:00	96.5	38.7
20/10/2013 00:00	106.1	42.8
21/10/2013 00:00	107.6	45
22/10/2013 00:00	108.7	43.9
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24/10/2013 00:00	84.2	33.5
25/10/2013 00:00	94.1	37.7
26/10/2013 00:00	62.9	24.5
27/10/2013 00:00	47.9	18.1
28/10/2013 00:00	50	19
29/10/2013 00:00	77.6	30.7
30/10/2013 00:00	123.2	45
31/10/2013 00:00	162.8	48.7
01/11/2013 00:00	172.3	51.4
02/11/2013 00:00	179.5	53.5
03/11/2013 00:00	174.2	66.2
04/11/2013 00:00	135.8	57.1
05/11/2013 00:00	135.3	49.5
06/11/2013 00:00	171.1	55.2
07/11/2013 00:00	159	47.6
08/11/2013 00:00	143.3	43.1
09/11/2013 00:00	150.8	45.3
10/11/2013 00:00	125	37.9
11/11/2013 00:00	144.2	43.4
12/11/2013 00:00	160.2	47.9
13/11/2013 00:00	176.6	52.6
14/11/2013 00:00	188.6	56.1
15/11/2013 00:00	181	55
16/11/2013 00:00	143.2	43.1
17/11/2013 00:00	129.3	39.1
18/11/2013 00:00	127.9	38.7
19/11/2013 00:00	142.2	42.8
20/11/2013 00:00	152.4	48.3
21/11/2013 00:00	177.2	52.8
22/11/2013 00:00	172.3	51.4
23/11/2013 00:00	147.2	44.2
24/11/2013 00:00	160.6	51.2

585

25/11/2013 00:00	105.5	32.3
26/11/2013 00:00	133.6	40.3
27/11/2013 00:00	100.8	33.3
28/11/2013 00:00	159.9	47.9
29/11/2013 00:00	132.1	39.9
30/11/2013 00:00	126.2	38.2
01/12/2013 00:00	139.8	42.1
02/12/2013 00:00	122.1	37.1
03/12/2013 00:00	129.7	39.2
04/12/2013 00:00	144.9	43.6
05/12/2013 00:00	121	36.7
06/12/2013 00:00	134.5	40.6
07/12/2013 00:00	131.9	39.9
08/12/2013 00:00	143.6	43.2
09/12/2013 00:00	147.3	44.3
10/12/2013 00:00	180.4	53.7
11/12/2013 00:00	175.3	57.8
12/12/2013 00:00	150.5	45.2
13/12/2013 00:00	137	41.3
14/12/2013 00:00	166.9	49.9
15/12/2013 00:00	187.6	55.8
16/12/2013 00:00	174.3	52
17/12/2013 00:00	195.3	58
18/12/2013 00:00	197.2	58.5
19/12/2013 00:00	201.7	63.5
20/12/2013 00:00	157.9	47.3
21/12/2013 00:00	176.9	52.7
22/12/2013 00:00	170.2	50.8
23/12/2013 00:00	197	58.5
24/12/2013 00:00	159	47.6
25/12/2013 00:00	167.4	50
26/12/2013 00:00	192.2	57.1
27/12/2013 00:00	158.2	47.4
28/12/2013 00:00	122.5	37.2
29/12/2013 00:00	155.3	46.5
30/12/2013 00:00	131.8	39.8
31/12/2013 00:00	128.9	39
01/01/2014 00:00	171.3	51.1
02/01/2014 00:00	185.7	55.2
03/01/2014 00:00	173.7	51.8
04/01/2014 00:00	143.8	43.3
05/01/2014 00:00	108.5	33.2
06/01/2014 00:00	141.9	42.7
07/01/2014 00:00	185.9	55.6
08/01/2014 00:00	169.9	51.4
09/01/2014 00:00	112.9	34.4
10/01/2014 00:00	128.7	39
11/01/2014 00:00	96.3	29.7
12/01/2014 00:00	165.5	50
13/01/2014 00:00	142.1	42.8
14/01/2014 00:00	134.4	40.6
15/01/2014 00:00	130.4	39.4

586

16/01/2014 00:00	125.3	38
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18/01/2014 00:00	131.2	39.6
19/01/2014 00:00	134.1	40.5
20/01/2014 00:00	173.8	53
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22/01/2014 00:00	106.8	32.7
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28/01/2014 00:00	105.9	32.4
29/01/2014 00:00	147.2	44.2
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01/02/2014 00:00	179.9	53.7
02/02/2014 00:00	156.4	47.3
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07/02/2014 00:00	128.5	40.8
08/02/2014 00:00	93.8	48.3
09/02/2014 00:00	85.2	47
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13/02/2014 00:00	124.3	40
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22/02/2014 00:00	99.1	36.8
23/02/2014 00:00	130	52.9
24/02/2014 00:00	209.9	87.4
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28/02/2014 00:00	74.4	22.4
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03/03/2014 00:00	128.6	57
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07/03/2014 00:00	135.8	41.9
08/03/2014 00:00	155.6	50.6

587

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21/03/2014 00:00	116.2	66.4
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28/04/2014 00:00	63.12	11.19
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08/05/2014 00:00	41.74	12.55
09/05/2014 00:00	43.85	12.11
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12/05/2014 00:00	55.42	12.93
13/05/2014 00:00	59.42	13.44
14/05/2014 00:00	58.89	13.22
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17/05/2014 00:00	58.89	13.08
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02/06/2014 00:00	59.89	14.19
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07/06/2014 00:00	59.76	15.01
08/06/2014 00:00	59.86	14.9
09/06/2014 00:00	59.84	15.42
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14/06/2014 00:00	59.43	15.59
15/06/2014 00:00	59.36	15.48
16/06/2014 00:00	59.51	16.05
17/06/2014 00:00	60.03	15.77
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589

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27/07/2014 00:00	37.55	24.61
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590

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591

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18/10/2014 00:00	116	62.22
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27/11/2014 00:00	166.41	74.59
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22/12/2014 00:00	146.81	77.14
23/12/2014 00:00	146.51	79.71
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12/01/2015 00:00	119.33	62.24
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14/01/2015 00:00	137.5	70.44

593

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25/01/2015 00:00	122.83	57.45
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27/01/2015 00:00	98.76	51.91
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22/02/2015 00:00	114.82	52.49
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27/02/2015 00:00	91.88	41.76
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594

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14/03/2015 00:00	101.82	59.08
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603

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609

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610

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03/08/2017 00:00	28.9	10
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05/08/2017 00:00	66.2	20.5
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07/08/2017 00:00	58.9	21

611

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16/08/2017 00:00	57.2	17.4
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19/08/2017 00:00	43.2	12.4
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25/08/2017 00:00	31.5	10.6
26/08/2017 00:00	37.7	13.3
27/08/2017 00:00	40.6	11.9
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614

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619

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620

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30/12/2018 00:00	166.1	83.4
31/12/2018 00:00	180.2	79.2
01/01/2019 00:00	217.4	79.2
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07/01/2019 00:00	166.7	52.3
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621

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626

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29/12/2019 00:00	112	43.9
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628

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629

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630

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631

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635

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636

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637

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638

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03/07/2021 00:00	104.5	45.4
04/07/2021 00:00	104.5	44.7
05/07/2021 00:00	104.9	47.5
06/07/2021 00:00	60.9	32.1
07/07/2021 00:00	44.4	18.2
08/07/2021 00:00	48.5	18.2
09/07/2021 00:00	42.8	17
10/07/2021 00:00	47.8	18.2
11/07/2021 00:00	34.5	13.6
12/07/2021 00:00	104.3	38
13/07/2021 00:00	104.3	38
14/07/2021 00:00	104.3	38
15/07/2021 00:00	104.3	38
16/07/2021 00:00	111.9	45.6
17/07/2021 00:00	103.1	37.7
18/07/2021 00:00	101.4	38
19/07/2021 00:00	104.3	38
20/07/2021 00:00	95	38
21/07/2021 00:00	104.3	38
22/07/2021 00:00	104.3	38
23/07/2021 00:00	104.3	38
24/07/2021 00:00	104.3	38
25/07/2021 00:00	105	38
26/07/2021 00:00	104.3	38
27/07/2021 00:00	104.4	38
28/07/2021 00:00	105.5	38
29/07/2021 00:00	105.5	38
30/07/2021 00:00	104.3	38
31/07/2021 00:00	105.2	38
01/08/2021 00:00	104.3	38
02/08/2021 00:00	45.4	11.6

639

03/08/2021 00:00	44.9	11.5
04/08/2021 00:00	51.3	18.3
05/08/2021 00:00	50.9	12.8
06/08/2021 00:00	51.8	11.1
07/08/2021 00:00	63.4	31.6
08/08/2021 00:00	104.7	62.8
09/08/2021 00:00	48.9	12.2
10/08/2021 00:00	43.2	27.9
11/08/2021 00:00	51.9	31.1
12/08/2021 00:00	44.8	23
13/08/2021 00:00	41.9	22.6
14/08/2021 00:00	62.5	24.1
15/08/2021 00:00	66	25.4
16/08/2021 00:00	39	13
17/08/2021 00:00	32.7	22.9
18/08/2021 00:00	25.8	16.4
19/08/2021 00:00	29.4	20.5
20/08/2021 00:00	90.8	46.6
21/08/2021 00:00	80.2	41.1
22/08/2021 00:00	97.2	49.8
23/08/2021 00:00	99.5	51
24/08/2021 00:00	34.5	18.1
25/08/2021 00:00	45	27
26/08/2021 00:00	34.9	17.4
27/08/2021 00:00	38.4	19.2
28/08/2021 00:00	44.1	18.4
29/08/2021 00:00	45	18.8
30/08/2021 00:00	59.7	29.3
31/08/2021 00:00	37.4	22.5
01/09/2021 00:00	39.1	23.9
02/09/2021 00:00	49.2	29.5
03/09/2021 00:00	38.5	26.1
04/09/2021 00:00	40.2	18.3
05/09/2021 00:00	47	15.3
06/09/2021 00:00	44.4	18.5
07/09/2021 00:00	38	14.3
08/09/2021 00:00	37.2	16.6
09/09/2021 00:00	32.7	19.6
10/09/2021 00:00	42.3	29.4
11/09/2021 00:00	27.4	10.5
12/09/2021 00:00	24	9.4
13/09/2021 00:00	42.2	16.9
14/09/2021 00:00	62.2	24.9
15/09/2021 00:00	83	33.2
16/09/2021 00:00	69.2	27.7
17/09/2021 00:00	46.4	17.9
18/09/2021 00:00	39.6	15.2
19/09/2021 00:00	46.1	17.7
20/09/2021 00:00	26.5	13.2
21/09/2021 00:00	85.9	43
22/09/2021 00:00	75.5	37.8
23/09/2021 00:00	90.9	45.5

640

24/09/2021 00:00	58	29
25/09/2021 00:00	69.7	34.8
26/09/2021 00:00	56.5	28.2
27/09/2021 00:00	32.3	12.9
28/09/2021 00:00	34.9	17.5
29/09/2021 00:00	33	16.5
30/09/2021 00:00	51.8	25.9
01/10/2021 00:00	35.4	17.7
02/10/2021 00:00	108.9	65.4
03/10/2021 00:00	90.4	54.3
04/10/2021 00:00	112.2	48.2
05/10/2021 00:00	60.7	30.4
06/10/2021 00:00	104.9	68.2
07/10/2021 00:00	65.6	32.8
08/10/2021 00:00	87.8	43.9
09/10/2021 00:00	43.4	19.7
10/10/2021 00:00	57.3	26
11/10/2021 00:00	73.8	29.5
12/10/2021 00:00	80.3	43.5
13/10/2021 00:00	82.5	44
14/10/2021 00:00	36	14.5
15/10/2021 00:00	51.9	14.7
16/10/2021 00:00	35.4	13.5
17/10/2021 00:00	80.8	42.6
18/10/2021 00:00	84.4	20.9
19/10/2021 00:00	83.5	46
20/10/2021 00:00	173.5	46.4
21/10/2021 00:00	151.4	43.1
22/10/2021 00:00	77	38.9
23/10/2021 00:00	76.7	42.3
24/10/2021 00:00	82.5	28
25/10/2021 00:00	80.8	20
26/10/2021 00:00	80.3	43.4
27/10/2021 00:00	71.2	50.1
28/10/2021 00:00	75.5	26.9
29/10/2021 00:00	85.5	42.8
30/10/2021 00:00	72.2	28.4
31/10/2021 00:00	108.6	78.6
01/11/2021 00:00	73.8	36.8
02/11/2021 00:00	115.2	44.9
03/11/2021 00:00	121	52.1
04/11/2021 00:00	174.5	104.4
05/11/2021 00:00	127	54.7
06/11/2021 00:00	119.8	83.2
07/11/2021 00:00	148	56.3
08/11/2021 00:00	213.2	101.7
09/11/2021 00:00	176.7	89.3
10/11/2021 00:00	160.6	77.4
11/11/2021 00:00	179.3	86.8
12/11/2021 00:00	175.4	82.3
13/11/2021 00:00	200.5	98.3
14/11/2021 00:00	239.4	141.9

641

15/11/2021 00:00	105.7	38.8
16/11/2021 00:00	73.8	29.5
17/11/2021 00:00	122.3	73.4
18/11/2021 00:00	124.9	62.4
19/11/2021 00:00	129.4	64.7
20/11/2021 00:00	102.9	45.6
21/11/2021 00:00	90	50
22/11/2021 00:00	79.8	44.3
23/11/2021 00:00	93.1	51.7
24/11/2021 00:00	83.8	34.6
25/11/2021 00:00	95.8	47.9
26/11/2021 00:00	104.4	67
27/11/2021 00:00	83.8	41.9
28/11/2021 00:00	132.1	65.9
29/11/2021 00:00	112.3	56.1
30/11/2021 00:00	109.1	65.2
01/12/2021 00:00	41.5	31.6
02/12/2021 00:00	49.2	37.4
03/12/2021 00:00	56.2	42.7
04/12/2021 00:00	55	41.8
05/12/2021 00:00	47.3	35.3
06/12/2021 00:00	55.2	41.8
07/12/2021 00:00	46.5	35.3
08/12/2021 00:00	40.2	28.8
09/12/2021 00:00	39	29.2
10/12/2021 00:00	45.9	34.2
11/12/2021 00:00	46.9	34.4
12/12/2021 00:00	49.4	37.5
13/12/2021 00:00	45.5	34.6
14/12/2021 00:00	43.7	33.2
15/12/2021 00:00	50.6	38.5
16/12/2021 00:00	42.5	32.3
17/12/2021 00:00	45.2	34.3
18/12/2021 00:00	49.6	37.7
19/12/2021 00:00	61.4	46.5
20/12/2021 00:00	51	38.8
21/12/2021 00:00	53.9	40.9
22/12/2021 00:00	60.5	46
23/12/2021 00:00	59.2	45
24/12/2021 00:00	53.2	40.4
25/12/2021 00:00	55.2	42
26/12/2021 00:00	68.5	52
27/12/2021 00:00	47.8	36.4
28/12/2021 00:00	45.9	34.9
29/12/2021 00:00	40.8	31
30/12/2021 00:00	54.6	41.5
31/12/2021 00:00	61.9	47

642

SO2	NOX	CO	OZONE	WS
µg/m3	µg/m3	mg/m3	µg/m3	m/s
4.6	34.4	0.39	261.3	0.9
3.8	52.2	1.28	99.6	0.6
1.8	58.8	1.42	16	0.5
0.9	59	1.82	42.8	0.5
2.9	55	2.41	61.5	0.6
2.6	87.1	2.98	64.3	0.7
2.6	72.9	3.12	121.7	0.5
2.5	49.2	2.71	107.5	0.4
3.3	60.1	2.94	83.4	0.4
2.7	46.3	2.96	78.3	0.2
1.8	51	3.47	75.4	0.3
1.9	66.8	3.9	94.2	0.4
2.4	72.5	4.07	116.6	0.3
2.3	98.5	4.72	118.4	0.3
2.7	114.1	4.99	80.9	0.2
2.2	24.7	1.88	35.2	0.3
3.5	13.3	1.76	37.5	0.4
3.1	<Samp	1.76	33.6	0.3
3	<Samp	2.41	39.9	0.4
3.5	83.8	2.31	39.9	0.4
3.7	65.2	2.46	34.1	0.4
3.9	33.7	2.56	14.1	0.4
3.5	21.9	2.62	21.8	0.4
4.6	28.7	2.99	14.7	0.4
4.1	21.4	3.14	16.2	0.4
3.7	65.4	3.85	20.8	0.4
4.3	48.4	3.47	24.7	0.4
3.4	19.9	3.4	22.9	0.4
3.4	22.9	3.69	30.4	0.4
4.5	18	3.95	31	0.4
5.6	8.3	3.86	30	0.3
5.1	13.9	3.69	31.5	0
4.6	25.8	4.19	29.3	0.3
4.7	25.1	4.18	25.3	0.4
4.5	25	2.91	25.7	0.4
5	37.7	3.21	23	0.5
3.9	25.7	2.19	26.7	0.5
1.8	11.8	0.53	33.5	0.4
1.6	11.8	0.47	39.3	0.4
2.9	12.5	0.77	40.3	0.3
2.3	10.3	0.68	41.5	0.4
3.1	32.5	1.2	28.5	0.3
2.7	20.6	0.92	28.3	0.3
2.9	26.3	1.09	26.7	0.3
3.4	28.6	1.07	33.4	0.3
5.6	44.8	1.14	35.8	0.3
7.5	47.6	1.3	29.9	0.4
6.1	30.6	1.39	32.6	0.5

643

4.8	18.6	1.52	36.3	0.5
4.5	15	1.59	34.8	0.4
4.1	13.1	1.4	36.5	0.3
4.5	12.6	1.1	33.3	0.4
5.1	12.8	0.85	45.1	0.2
4.2	11.2	0.99	40.7	0.5
4.1	12.3	1.31	39.3	0.4
7.5	11.8	1.28	31.5	0.4
5.9	11.5	1.38	25.3	0.5
8.2	12.2	1.58	32.1	0.3
10.4	11.6	1.65	30.9	0.4
5.3	9.7	1.75	28.5	0.3
6.6	9.8	1.79	27.6	0.4
4.5	6.6	1.27	34.2	0.3
5.1	6.7	0.87	45.6	0.3
5.3	7.1	0.99	60.2	0.3
5.7	7.2	1.05	69.7	0.3
6.6	7.1	1.17	65.2	0.4
4.1	6.1	1.2	64.4	0.3
5.2	4.9	1.34	47.6	0.3
4.3	13.9	1.45	44.1	0.4
6.8	15.5	1.41	45.1	0.4
3	26.3	1.28	49	0.4
2.6	47.8	1.21	33.7	0.4
3.1	64.3	1.48	27.6	0.5
3.9	69	1.55	61	0.5
4.7	22.4	1.05	19	0.7
5	26.4	0.97	23.4	0.6
3.9	12.6	0.81	19.2	0.5
4.5	19.2	0.88	19	0.3
5.3	7.5	0.85	22.7	0.2
3.8	6	0.86	18	0.3
3.5	5.4	0.9	16.6	0.3
5.8	5.6	0.91	20.8	0.4
4.9	6.6	0.88	20.5	0.3
3.3	14.5	0.97	22.5	0.3
5	31.1	1.35	11.8	0.4
5.2	48.5	1.53	15.6	0.5
6.1	43.5	1.44	12	0.7
6.4	43.1	1.55	11	0.7
5.2	33.9	1.39	19.7	0.4
4.3	30.8	1.36	17.9	0.3
9.5	32.2	1.15	14.2	0.4
13.6	33	1.28	14.5	0.3
15.6	34.8	1.42	15.8	0.1
20	31.8	1.26	45.3	0.4
21.6	34.2	0.99	45.7	1.1
18.8	33.9	1.06	35.3	1
18.3	39.1	1.11	35.4	0.6
17	34.4	1.24	39	0.4
16	32.7	1.49	39.5	0.2
17.2	34.2	2.03	36.5	0

644

12.6	31.6	1.59	38.9	0.2
15.7	30	1.51	50.8	0.4
15.3	31.7	1.52	46.3	1.1
21.5	34	1.13	36.2	0.6
16.7	32.5	0.61	24.1	0.5
19.4	35.1	1.05	25.5	0.5
18.4	31.9	1.07	24	0.5
17.7	34.3	1.11	24	0.5
21.5	37.8	1.11	24.5	0.4
17.2	33.6	1.11	22.7	0.5
18.5	32.7	1.09	20.8	0.4
18.6	34.7	1.09	21.5	0.4
18.7	35	1.11	22.2	0.5
18.1	31.3	1.12	23.4	0.6
19.2	34.8	1.18	23.3	0.5
19.1	35.5	1.2	24.5	0.5
18.9	31.9	1.22	21.5	0.3
19.1	34.2	1.21	23	0.3
19.5	32.9	1.28	19.2	0.3
18.8	32.5	1.22	14.8	0.1
17.6	31.5	1.3	16.3	0.1
17.5	32.1	1.22	22.7	0.2
21.7	52.9	1.41	12.8	0.2
18.5	56.4	1.45	11.5	0.3
19.8	57.1	1.52	13.5	0.2
17.7	46.7	1.45	14.4	0.1
18.4	50	1.51	11.4	0.1
17.5	44.1	1.52	13	0.1
17.4	46.2	1.55	11.1	0.1
16.6	39.8	1.83	12.2	0.1
17.7	43.7	1.94	9	0.1
16.8	37	1.7	11.3	0.1
15.2	41.8	1.99	8.9	0
15.3	65.3	2.06	8.6	0
16.4	40.1	1.73	14.4	0.2
16.6	33.3	1.45	28.3	0.3
17.6	37.9	1.37	28.4	0.4
15.6	36.1	1.4	23.8	0.3
15.3	31.7	1.41	34.4	0.3
16.8	33.7	1.43	29.7	0.6
16.4	34.1	1.44	31	0.7
17.2	33.8	1.46	24.2	0.4
18	36.3	1.49	24.2	0.3
19.2	35.1	1.51	25.5	0.4
17.5	30.4	1.52	28	0.5
16.2	33	1.57	24.9	0.4
17.5	34.7	1.58	24.9	0.3
16.7	32.2	1.6	21.1	0.2
16.1	40.4	1.64	21.5	0.2
17.2	32.3	1.66	16.8	0.2
18.6	33.8	1.71	15	0.1
19.2	36.3	1.74	16.8	0.1

18.6	33.7	1.77	18.2	0.1
19.5	31.5	1.81	18.9	0.1
17.9	32.2	1.97	16	0.2
19.4	34.3	1.8	15.6	0.1
19.7	34.6	1.75	16.6	0.1
18.3	33.5	1.78	17.7	0
19.3	36.3	1.58	16.4	0
19.5	34.3	1.6	19.7	0
20.3	32.8	1.99	17.5	0
18.3	31.4	1.62	26.6	0.2
19	32.4	1.63	32.2	0.1
22.2	33	1.83	24.2	0
24.9	41.2	1.94	18.2	0.1
24.4	40.5	2.03	15.4	0.1
22.9	36.8	1.57	14.4	0.1
21.5	33.7	1.41	27.4	0.1
22.8	36.1	1.42	35.2	0.2
18.6	35.3	1.52	19.8	0.1
20.4	34.7	1.35	22.4	0
17.8	31.7	1.42	22.8	0
21.4	37.1	1.55	22.1	0
21	34.6	1.89	25	0
20.6	35.9	1.66	18.7	0
20.1	36.3	1.72	22.9	0.1
22.2	35.9	1.52	19.7	0
19.5	34.7	1.31	20.2	0.1
18.3	35.6	1.58	21.1	0
19.6	36.2	1.68	22.4	0
21.2	38.4	1.41	24.8	0
23.1	39	1.6	25.4	0
20.1	38.6	1.43	30.8	0
24.6	64.4	2.12	29.7	0
21.7	70.6	2.09	25.4	0.2
17.2	53.8	1.63	22.8	0.4
20.9	57.5	1.66	12.7	0.3
26.4	39.1	1.18	40.1	0.2
22.2	49.3	1.23	24.3	0.1
20.3	39.9	1.03	17.9	0.1
18.8	44.9	1.25	13.1	0.1
17.8	47.4	1.17	20.2	0.1
14.8	30.1	1.03	32.6	0.2
15.1	37.5	1.18	33.5	0.1
15.2	34	1.21	32.9	0
27.3	49.5	1.18	33.5	0
24.3	43.8	1.15	44.2	0.1
16.8	39.6	0.84	42.6	0.1
22.7	45.2	0.67	38.8	0
17.7	46.4	0.84	33.6	0.1
15.5	47.8	0.69	33	0
16.5	102.2	1.04	20.3	0
15.1	54.6	0.93	50.9	0.1
15.2	68.1	1.22	58.3	0

18.9	92	1.54	43.3	0
16.8	66.9	1.37	44.7	0
17.4	87.4	1.3	39.5	0
14.4	92.4	1.32	45.9	0.1
17.5	87.3	1.33	34.7	0.1
16.6	64.1	3.17	40.9	0.1
16.9	57.3	1.62	38.2	0.1
36.7	25.7	1.4	38	0.1
20.2	34.7	1.4	70.4	0
15.2	29.4	1.68	50.6	0.1
17.5	37.7	1.7	56.2	0.1
23	46.9	1.56	45.4	0.1
24.9	65.2	1.42	61.4	0.1
17.7	46.7	1.62	54.2	0.1
22.5	36.5	1.31	69.4	0.1
15.3	57.7	1.28	66.4	0.1
20.7	77.2	1.4	74.6	0
16.5	89.6	1.88	68.4	8.9
9.2	49.4	2.29	28.7	0
18.3	56.5	1.39	35.7	0
17.2	52.9	0.94	23.6	0
17.2	52.6	1.11	53	0.1
18.5	87.5	1.21	55.5	0
19.5	51.1	1.07	70	0
18.7	58.6	1.2	36.4	0
17.5	37.6	0.85	70.4	0
16.5	32.8	0.66	82.8	0.1
18.9	46.7	0.93	90.1	0.1
31.1	61.7	1.26	70.8	0
23.9	41.6	1.14	53.1	0
20.3	38.1	1.19	75.8	0.1
30.8	51	1.55	79.4	0.1
30.5	59.5	1.62	84.6	0
31.4	68.6	1.59	63.8	0
29.5	71.5	1.37	62.3	0.1
17.8	78.9	1.41	59.5	0.1
45.9	83	1.26	49.4	0.1
29.1	64.2	1.1	66.9	0.1
27.9	67.7	1.3	46.6	0
16.2	76.4	1.4	30.7	0.1
25.1	70.6	1.31	35.3	0.1
40	90.6	1.57	35.9	0.1
28	103.8	1.8	25.8	0.1
30.8	79	1.51	48.1	0.1
28.2	65.9	1.52	53.7	0.1
18.8	87.4	1.93	47	0.1
45.7	86.9	2.01	56.5	0.1
17.4	74.6	1.77	47.9	0.2
17.5	78.1	2.02	65.9	0.1
19.3	69.4	1.95	47.1	0.1
21.9	77.1	1.77	22.6	0.3
17.7	70.8	1.62	70.5	0.1

647

20.1	76.6	1.7	46.4	0.2
20.3	75	1.57	30.9	0.3
17.7	97.7	1.9	25.2	0.4
20.4	95.4	1.92	21.9	0.4
19	73	1.63	56.1	0.1
17.1	69.9	1.79	77.1	0.1
15.7	59.3	1.8	74.2	0.1
19	60	1.87	54.5	0.2
20	87	2.12	42.3	0.1
18.9	44.7	1.49	44.1	0.2
15.6	39	1.26	56	0.2
18.6	37.2	1.36	50.2	0.2
22.3	37.3	1.52	37.3	0.2
21.8	53.5	1.95	31.6	0.2
19.7	82	2.05	18.5	0.3
17.9	75.7	1.66	17.7	1
18.5	78.2	1.69	15	0.2
28.7	59.4	1.52	21	0.1
21.9	46.7	1.14	25.7	0.1
23.6	48.1	1.33	28.5	0.2
20.1	71.7	1.67	30.1	0.1
16.4	92.7	1.93	45.1	0.1
17	75	1.81	58.4	0.2
15.1	67.3	1.23	51.8	0.2
17.1	73.3	1.42	65.3	0.2
22.7	81.3	1.35	68.1	0.2
12.3	68.7	1.33	62.6	0.3
15.8	59.8	1.33	64.4	0.3
17.4	53.4	1.44	73.4	0.2
19.4	68.3	1.58	91.9	0.4
17.7	70.8	1.4	91.8	0.3
20.9	73.5	1.71	70.8	0.2
17.9	98.7	2.26	48.4	0.1
25.9	140.7	2.65	64.4	0.1
30.7	129	2.45	41.4	0.2
19.4	123.2	2.47	34.7	0.2
18.1	95.1	2.19	39.9	0.2
16.6	68.6	1.9	54.7	0.2
22.8	70.3	1.93	52.7	0.3
14.2	41.7	1.27	51	0.3
17.3	68.1	1.86	77.2	0.2
15.4	73.5	2.65	97.8	0.2
17.3	60.8	2.75	85.4	0.2
15.1	72.1	2.66	102.6	0.1
18.8	81.7	2.48	98.7	0.2
16.2	80.5	2.27	67.9	0.2
12.3	26.2	1.19	46.6	0.4
9.1	26.2	0.98	50.7	0.3
10.4	41.4	1.22	74	0.3
22.8	47.4	1.57	69	0.2
12	64	1.82	60.6	0.3
13.4	64.9	1.59	58.5	0.4

648

16.5	59	1.53	78	0.7
16.1	131.5	1.3	31.9	0.4
21.7	129	1.06	18.6	0.4
21	119.1	1.08	21.9	1.2
25.1	102.4	1.62	19	0.2
23	108.6	2.08	22.5	0.3
21.3	111.6	1.43	16.2	0.2
16.5	128.4	1.12	21.8	0.5
39.2	163.1	1.67	25.7	0.2
35.3	133	2.51	20.1	0.2
21.7	91.8	1.23	12.8	0.5
22.1	64	0.79	20.2	0.5
23.4	104.2	1.12	7.2	0.5
27.7	125.8	1.42	24.9	0.6
20.9	62.8	0.87	17.2	0.7
28.2	81	1.02	14.1	0.7
42.4	93.9	1.32	8.6	0.5
34.5	84.7	1.47	10.3	0.4
26.7	97.1	1.9	30	0.3
27.3	106.9	2	8.3	0.3
28.4	110.8	1.99	18.9	0.2
35	128.3	2.08	52.3	0.2
28.2	127.1	1.76	37.9	0.3
25	113.5	1.5	61.8	0.3
21.4	125.8	1.39	65.4	0.3
11.6	42.7	0.87	102.1	0.3
16	85	1.12	17	0.2
18.3	70.1	1.04	50.3	0.2
21.1	93.8	1.17	22.9	0.3
16.5	89.9	1.24	19.9	0.3
15.8	27.7	0.69	16.9	0.4
14.5	43.2	0.98	20.9	0.4
17.6	53.6	0.85	37.1	0.5
22	156.6	1.76	38.8	0.3
26.6	141	2.05	39.9	0.3
29.8	146.7	2	45.2	0.3
19.9	133.2	1.71	51.1	0.3
16.1	101	1.53	36.4	0.3
18.3	125.3	1.59	29.4	0.3
15.3	37.9	0.93	19.4	0.3
15.8	51.4	0.99	21.3	0.3
15.6	48.5	0.95	26.8	0.3
16.2	55.8	1.03	28	0.2
18.4	99.8	1.49	36.3	0.3
19.1	111.6	1.53	49	0.3
17.6	102.7	1.73	38.8	0.2
15.5	53.2	1.19	25.1	0.2
15.1	36.5	1.09	17.6	0.2
15.8	46.6	1.37	20.3	0.2
16.6	50.9	1.44	20.4	0.1
19.3	84.9	2.07	29	0.1
17.3	53.3	1.82	30.8	0.2

649

17	95.1	1.95	26.5	0.3
16.6	49.3	1.4	32.9	0.4
17.1	48.8	1.38	31.3	0.4
20.9	30.4	1.04	24.4	0.3
19.8	42.9	1.21	17.4	0.3
16.6	75.5	1.99	33.5	0.2
19.3	30.9	1.85	24.2	0.2
18.7	40.3	1.93	23	0.3
19.2	45.9	2.2	19.5	0.3
17.2	51.2	2.26	16.2	0.2
17.9	41.1	2.17	18	0.2
16.5	44.6	2.1	16.9	0.2
17.1	49.2	2.27	20.6	0.2
15.4	26	2.11	19.2	0.2
16.5	52.7	2.15	22.9	0.3
20.3	43.6	2.04	21.1	0.2
18.9	47.2	2.26	20.2	0.4
16.8	44.8	2.38	20.5	0.4
16	58.6	2.47	18.5	0.3
17.6	43.6	2.25	16.9	0.4
18.2	55.9	2.41	13.7	0.3
23.7	44.2	2.33	24.3	0.5
18.7	38.7	2.72	28.6	0.2
17.1	63.1	3.13	29.1	0.2
16.4	78.3	3.26	27.8	0.3
15.2	47	2.47	33.6	0.4
23.7	44.9	2.71	39.9	0.4
15.5	58.8	2.9	21.9	0.3
15.6	39.2	2.6	20.2	0.3
15.4	57.1	2.79	20.3	0.2
15.5	45.8	2.55	14.7	0.2
15	40.9	2.58	13.6	0.2
15.1	54.6	2.7	13.4	0.2
16	47	2.67	21.8	0.2
15.8	57.4	2.8	22.2	0.1
16.1	55.8	2.94	27.6	0.2
18.3	68.6	2.99	32.3	0.3
19.4	47.2	2.84	36.1	0.2
19.2	73.6	2.85	28.5	0.3
18.8	52.8	2.87	39.7	0.3
18.5	44.1	2.79	22.1	0.2
18.4	24.4	2.6	18.7	0.1
19.5	38.7	2.66	14	0.2
17.9	28.9	2.42	15.7	0.3
16.3	51	2.77	15.3	0.2
17.8	72.4	2.77	15.3	0.2
15.2	73.1	2.91	16.7	0.2
15.1	53.9	2.74	13.6	0.2
16	55.5	2.73	12.1	0.3
18.1	53.8	2.78	15.6	0.2
17.5	38.9	2.69	13.2	0.2
15.4	34.6	3.15	12	0.3

650

15.6	30.1	3.54	12.3	0.3
15.1	32.9	3.23	10.7	0.3
20.4	34.5	3.69	9.7	0.2
18	27.5	3.02	13.1	0.3
16.8	36.8	3.62	15.2	0.2
16	37.2	3.31	15.9	0.2
17.4	41	2.96	15.7	0.3
15.7	37.9	2.63	20.1	0.3
20.6	41.5	2.31	22.9	0.3
16.7	41.7	1.37	16.1	0.3
17.3	33.5	1.5	21.4	0.2
18.5	41.7	2.07	18.1	0.4
19.1	45.6	1.7	17.9	0.4
16.9	40	1.66	20.1	0.3
18.4	38.1	1.74	22.3	0.3
21.1	46.3	1.52	19.3	0.3
20.9	35.6	1.58	19.1	0.3
19.2	33.1	1.61	18.4	0.3
18.5	41.2	1.74	18.7	0.3
20.3	34.1	1.92	15.8	0.3
17.5	37.9	2.03	16.4	0.4
16.5	32.2	1.76	15.7	0.3
15.2	33.2	1.8	16.1	0.2
18.5	37.8	1.52	19.9	0.3
14	35.1	1.6	15.8	0.3
12.2	35	2.08	15.9	0.3
15	45.1	2.13	17.4	0.3
20	43.8	2.01	14	0.3
21.4	35.4	1.93	26	0.6
20	30	1.53	27.8	0.6
19.5	34.7	2.1	16.4	0.3
18.4	28.4	1.9	24.1	0.1
19.2	34.2	1.64	21.3	0.2
11.5	22.5	1.71	10.4	0.2
11	24.6	1.7	7.5	0.2
11	27.4	1.64	6.6	0.2
9.7	26.3	1.43	7.7	0.1
11.8	27.9	1.03	10.4	0.3
11.4	37.8	1	9.1	0.5
14.8	31.2	0.76	10.9	0.7
10.5	31.9	1.07	10.7	0.7
10.8	33	1.06	9.4	0.6
12.1	35.6	1.01	10.3	0.6
11.7	36.4	1.14	9.8	0.5
13.1	43.7	1.16	11.6	0.4
12	33.1	1.14	12.3	0.3
11.2	45.4	1.21	12.6	0.3
14.4	41.7	1.31	12.9	0.4
12.6	32.9	1.37	12.2	0.3
12.5	35.4	1.24	11.9	0.1
12.1	40.7	1.15	12	0.2
11.6	34.7	1	11	0.4

651

11.2	33.3	1.12	10.4	0.4
12	40.4	0.88	9.5	0.4
10.5	34.8	1.06	9.1	0.5
11	30.3	0.98	9.3	0.3
12	30.3	1.05	10.7	0.4
12.6	34	1.21	11.8	0.4
10.7	35.7	1.27	9.9	0.3
11.3	36.3	1.24	10.3	0.2
12.3	41.2	1.24	10.7	0.3
10.6	38.4	1.14	9.6	0.3
11	39.7	1.13	9.3	0.2
10.9	38.5	1.29	9.2	0.2
8.9	35.2	1.12	7.4	0.2
9.5	33.4	1.14	9.2	0.3
10.3	34.2	1.11	10.2	0.4
9.9	32.4	1.17	9.3	0.3
10.5	35.1	1.18	10	0.2
11.5	44.5	1.18	10.1	0
12.9	43.4	1.31	10.9	0
11.2	40.8	1.14	10.4	0.1
12.2	31.6	1.16	11.2	0.1
13	38.8	1.25	10.3	0.1
12	32.7	1.09	10.8	0.3
11.6	32.2	1.07	11.2	0.2
14.5	40.2	1.17	10.7	0.1
13.3	42.1	1.28	9.5	0.1
16.3	74.2	1.69	7	0
11.9	47.2	1.32	8.3	0.1
10	27.5	1.02	8.5	0
9.5	28.3	1.09	7	0
9.9	30.8	1.2	8.7	0.2
10.9	34.9	1.11	8.6	0.2
11.9	39.3	1.08	9.8	0.1
13.5	38.5	1.22	10.3	0.1
11.5	31.4	1.24	12	0.2
11.8	49.6	1.31	12.9	0.1
12.3	37.9	1.32	12.1	0.1
11.5	32.8	1.26	14.1	0.1
10.7	48.7	1.39	12.6	0
12.1	53.7	1.34	16.4	0
11.8	35.6	1.44	13.9	0.1
11.7	37.6	1.46	14.5	0.2
12	31.1	1.28	13.6	0.2
10.5	28.5	1.19	13.1	0.2
11.2	32.6	1.39	11	0.4
13.2	38.9	1.34	11.6	0.3
11.1	35.5	1.52	10.6	0.1
10	30.5	1.12	11.2	0.1
11	41.3	1.05	10.7	0.1
12.8	39.2	1.25	12.3	0.1
10.2	35.4	1.34	13.3	0.1
11.3	38.9	1.31	14	0

11.9	36.6	1.04	15.1	0
12	35.4	1.21	14.5	0
12.9	28.7	1.19	16	0
10.4	32.2	1.02	10.8	0
9.9	38	1.03	11	0
8.9	32	1.18	12.3	0
10.8	37.7	1.23	10.5	0.1
10.4	30.1	1.32	12.9	0
12.4	43.9	1.11	11.8	0
8.8	40.9	1.23	13.6	0
13.7	49.7	1.39	14.5	0
11.5	50.7	1.06	18.7	0
12	59	1.18	13.8	0
11.6	64.3	1.27	11.7	0
10.6	47.7	1.14	10.6	0
11.5	45.8	1.36	15.4	0
10.7	49.8	1.3	12	0.2
10.2	97.5	1.77	8.9	0
8.6	67.3	1.23	6.7	0
8.7	46.9	1	12.5	0
10.7	44.7	0.93	11.8	0
8.7	81.7	1.29	11.5	0.1
12.6	128.6	1.72	12.5	0.1
11.1	90.7	1.73	18.6	0
9.2	69.3	1.19	10.6	0.1
10.3	41.8	1.02	14.6	0
12.3	39.3	1	16.1	0.2
8.5	31.2	0.86	18.1	0.1
7.5	47.4	0.76	16.9	0.1
7.7	45.7	0.77	12.6	0.2
6.9	20.1	0.78	14.1	0.4
7.2	20.3	0.82	11.2	1.4
7.4	22.2	0.9	9	0.1
8.1	19.6	0.88	12.3	0.1
8.9	27.1	1.03	12.4	0.1
9.1	45.6	1.12	15	0.1
14.7	70.7	1.53	13.7	0.2
20.3	60.1	1.2	16.3	0.1
20.5	54.1	1.07	21.1	0.1
20.9	67	1.26	23.7	0.1
20.4	62.9	1.32	22.1	0.1
20.6	62.7	1.25	20.6	0.2
19.1	65.6	1.3	19.3	0.2
21	51.2	1.14	15.5	0.1
20.5	66.4	1.18	17.7	0.1
20.3	94.1	1.4	17.2	0.1
25.1	121.2	1.64	22.3	0.1
20.6	96.4	1.48	30.6	0.2
19.3	69.3	1.25	21.5	0.1
21.3	109.7	1.6	22.8	0.1
19.9	99.5	1.56	23.2	0.1
20.4	103.7	1.51	24.8	0.1

653

21.1	74.1	1.58	23	0.2
21.3	77	1.61	26.3	0.3
25.9	76.7	1.87	24.2	0.2
24.4	74.6	1.86	42.1	0.2
27	71.7	2.01	28.3	0.3
32.1	79.4	2.11	29.7	0.3
31.9	76.2	1.98	19.2	0.3
29.5	88.6	2.3	10.8	0.3
29.3	79.9	2.15	25.4	0.3
31.8	56.3	1.97	53.6	0.2
31.1	69.7	2.11	48.8	0.2
37.4	71.2	2	48.7	0.3
40.9	82.6	2.21	34.5	0.2
38.6	80.3	2.14	28.3	0.2
48	85	2.22	26	0.3
44.2	73.5	2.3	34.5	0.2
41.2	73.7	2.46	53.1	0.1
32.1	70.4	2.57	40	0.2
27.9	50.1	2.15	33.5	0.2
29.6	61.2	2.29	41	0.2
27.8	63	2.54	38.3	0.2
33.2	79.3	2.63	30.8	0.2
27.5	71.3	2.75	39.4	0.1
32.3	79.7	2.89	39	0.1
36.9	74.9	2.82	36.6	0.2
36.5	66.8	2.88	43.6	0.2
36	78.7	3.18	40.5	0.2
32.4	74.4	3.13	42.9	0.7
33.2	80.6	3.55	35.8	0.1
38.4	80.5	3.4	48.3	0.2
40.2	78.8	3.28	44.4	0.1
44.2	79.4	3.21	43.1	0.3
41.3	78.9	3.48	46.6	0.2
26.3	80.6	3.61	38.6	0.2
30.9	78.4	3.35	44.6	0.1
29	76.4	3.53	36.5	0.1
30.4	81.3	3.83	31	0.2
39	75.2	3.59	32	0.1
30.8	79	4.06	10.3	0.2
24.6	65.5	3.44	24.2	0.1
16.9	70.7	3.57	31.9	0.2
17.2	63.9	3.7	61	0.2
17	70.5	3.74	47.6	0.2
19.9	83.8	3.87	40.7	0.2
30.7	92.5	3.84	31.9	0.2
37.6	103.9	3.83	35.5	0.3
43.8	117.6	3.99	48.5	0.3
53.7	147	4.1	47.7	0.2
58.2	153.9	3.89	26.8	0.2
42.7	131.5	3.76	18.8	0.2
22.6	114.1	4.04	4.2	0.3
22	90.9	4.09	9	0.2

16.3	122.1	3.66	13.8	0.1
18.4	126.6	1.15	31.7	0.2
16.1	128	1.47	63.2	0.2
20.4	134.6	1.59	38.6	0.2
24.7	90.7	2.23	39.1	0.2
44.1	87.6	1.9	44.9	0.2
45.1	86.3	2.12	60.1	0.1
43.2	104.3	2.34	74.3	0.1
48.6	101.4	2.49	90.6	0.2
33.8	102.7	2.99	94.2	0.1
23.7	84.8	2.62	79.1	0.1
21.9	68.4	2.41	77.1	0.1
22.2	82.4	2.55	54.6	0.1
25.8	87.4	2.63	46.6	0.3
24.8	91.5	2.95	25.3	0.2
37.9	91	2.56	22.7	0.2
46.3	108.1	2.64	35.2	0.2
45.8	96.2	2.95	37.8	0.2
63.5	99.7	2.85	41.8	0.2
46.9	105.3	2.93	18.4	0.2
40.3	69.9	2.45	37.2	0.3
29.7	71.2	2.8	35.7	0.2
40.7	103.2	3.4	32.1	0.1
45.3	121.3	3.85	42.6	0.2
43.8	111.1	3.47	43.7	0.1
41.7	104.8	3.67	36	0.1
25.3	99.7	3.61	43.4	0.1
25.6	72.3	2.83	46.4	0.3
35.6	90.9	3.25	47.9	0.1
29.3	98.7	3.8	45.4	0.4
30.6	99.1	3.43	52.9	0.2
26.5	99.9	4.11	51.2	0.2
30.9	113.6	4.78	55.2	0.1
26.7	81.1	4.22	34.9	0.1
19.8	66.8	3.62	48.7	0.1
14	74.1	2.09	16.1	0.2
14	75.4	1.09	19.1	0.5
14.3	62.2	1.29	25.8	0.2
16.3	80.8	2.02	28.6	0.2
9.84	77.6	2.31	2.86	0.05
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
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7.78	90.21	2.59	15.5	<Samp
16.5	73.3	2.35	21.1	0.3
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19.2	61.6	2.41	25.1	0.2
17.3	52.1	2.96	27.3	0.2
19.5	58.1	2.56	24.4	0.3
23.8	78.9	2.91	30.8	0.2
28.4	75.6	2.81	36	0.1

655

24.7	69.4	2.45	29	0.2
24.1	75.5	2.78	19.8	0.2
26.1	79	2.81	24.6	0.2
15.8	69.8	2.6	26	0.2
10.8	47.8	2	28.5	0.2
15.1	51.6	1.98	32.4	0.2
21.4	75.1	2.41	23.4	0.2
30.8	63.3	2.71	32.7	0.2
27.9	73.8	2.84	29.2	0.2
29.3	79	2.57	36	0.2
27	82.6	2.54	37.6	0.1
17.7	59.8	2.59	31.2	0.1
15.4	73.4	2.82	31	0.2
11.3	66.4	2.55	30.1	0.2
11.1	57.8	2.74	23.8	0.2
11.8	63.3	2.31	26.7	0.2
21.9	74.9	2.83	24.8	0.1
16	64.7	2.91	37.6	0.2
14.2	62.6	2.76	39.1	0.1
8.5	44.7	2.36	30.2	0.2
12.9	53.5	2.55	30.5	0.3
21.2	58.4	2.61	29.3	0.2
9.4	41.4	3.1	25.1	0.1
12.6	63.6	2.55	26.7	0.2
12	40.3	2.32	33.8	0.3
24.1	76.3	3.02	31	0.2
20	93.9	3.52	31.5	0.1
14.3	94.3	3.65	26.7	0.2
20.7	69.6	3.51	37.1	0.2
24.6	88	2.45	28.6	0.2
18.8	98.4	2.35	48.3	0.2
13.4	72.7	2.58	62.9	0.1
10.4	72.8	2.34	37.9	0.1
11.5	60.6	2.05	30.2	0.2
7.9	48.2	2.02	29	0.2
10.8	45.2	1.98	34.6	0.2
13.1	58.2	2.6	58.3	0.2
10.1	67	2.32	55.7	0.3
7.7	65.4	2.6	72	0.2
15.4	63.2	2.77	81.1	0.2
12.3	49.5	2.73	72.7	0.2
7.6	40.3	2.64	62.2	0.2
10.8	42.1	2.47	42.5	0.3
11.2	35.8	2.47	43.8	0.3
8.4	32.6	2.85	34	0.3
6.8	37	2.63	42.8	0.2
11.2	70.2	3.12	52.2	0.2
18.3	60.1	3.3	66	0.1
11.1	100	3.39	61.6	0.1
13.4	88.4	2.59	52.2	0.2
10.6	81.1	2.76	44.9	0.2
11.6	87.9	2.76	30.9	0.2

656

13.5	57.6	2.48	40.8	0.2
9.7	37.1	3.26	31.4	0.2
10	43.5	3.56	41.9	0.2
10	39.1	3.43	46	0.3
9.6	35.4	3.51	40.4	0.2
9.3	38.7	3.53	33.7	0.2
12.4	49.4	3.72	31.9	0.2
13	43.8	4.22	27.4	0.4
7.9	31.3	4.67	47.9	0.2
8.9	47.3	4.75	31.4	0.2
10.9	32.3	4.69	29.1	0.2
11.7	40.2	3.25	37.3	0.2
11.6	45.2	3.57	22.2	0.2
9.5	44.4	3.64	27.7	0.3
11.1	48.6	3.89	36.9	0.2
10.8	43.9	3.87	54.9	0.2
11	33	3.73	40.6	0.1
11.1	40.4	3.46	36.9	0.1
11.3	34.2	3.38	40.8	0.1
10.5	38.1	3.65	47.4	0.1
11.3	31.3	3.36	26	0.2
12.5	66.8	2.17	40.8	0.1
12	66.1	2.28	45.7	0.3
10.4	59.5	2.83	64.5	0.4
11.9	34.9	2.62	38.9	0.3
10.4	57.6	3.02	56.4	0.3
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10.2	71.8	3.93	73.1	0.2
9.4	49.6	3.44	102.7	0.3
8	41.2	3.18	47.6	0.3
8.6	28.8	2.93	32.2	0.2
9.4	39.3	3.17	27.5	0.3
9.1	37.1	3.15	45.1	0.3
9.5	35	3.21	31.7	0.2
9.4	58.8	3.32	33.1	0.2
9.9	45.3	3.16	38.5	0.2
9.6	37.5	3.09	20.8	0.3
10.6	33.8	3.01	19.9	0.2
10.5	36.4	3.17	23.1	0.2
9.7	53.5	3.17	30.5	0.2
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8	57.6	3.35	43.1	0.3
9.9	61.4	3.34	34.1	0.2
9.8	49.1	3.16	27.5	0.1
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9.3	42.3	3.16	22.2	0.2
9.8	39	3.12	20.3	0.2
9.2	27.2	3.03	17.8	0.2
9.6	31.5	2.81	21.7	0.1
9.8	32	2.92	21.5	0
10.1	55.1	3.12	24.2	0
8.9	50.3	3	24.1	0.2

6.8	26.7	2.94	24.8	0.1
7.1	41	3.02	28.9	0.2
8.5	25.2	3.03	36.2	0.1
9	28.9	2.91	36.6	0
8.5	33.5	3	34.8	0
10.8	31.9	3.06	37.2	0.3
10.6	37.5	2.89	40.5	0.1
15.1	37.3	3.03	30.7	0.2
12.1	34.9	2.75	28.9	0.3
10.5	41.3	2.72	22.8	0.4
10.7	32.7	2.18	18.2	0.4
9.3	33.6	1.82	18.1	0.3
10.8	28.6	1.78	22.2	0.3
11.7	28.3	1.96	22.5	0.3
11	33.8	1.93	25.6	0.2
10.3	32.7	2.04	23.5	0.2
10.1	24.7	1.77	24.1	0.3
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10.5	31.3	1.95	30.7	0.4
10.5	24.9	2.02	32.7	0.4
11	25.3	1.86	29	0.4
11.4	26.1	1.81	26.3	0.4
11.3	32.2	1.99	24.2	0.4
11.3	34.7	2.06	31.2	0.3
11.1	22.7	2.05	33.5	0.4
10.4	23.5	1.89	28.5	0.3
11.3	20.4	1.98	28.2	0.4
11.1	24.2	1.95	23.9	0.3
11.3	26.8	1.88	25.2	0.3
11.6	35.8	1.99	28.4	0.4
11.7	24.4	1.82	27.4	0.2
12.1	29.3	2.18	31.3	0.2
11.6	25.7	1.76	36.4	0.2
9.2	24	1.76	33.9	0.2
13.1	25.3	1.93	36.1	0.2
8.9	11.5	1.9	37.9	0.2
12	22.5	1.93	34.6	0.2
11.1	15.8	1.93	33.3	0.2
13	18	2.17	28	0.2
12.9	17.8	1.9	28.2	0.2
13.3	19.8	1.78	27.8	0.2
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17.2	25.9	1.75	36.6	0.2
15.5	24.3	1.79	34.9	0.2
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18.3	43	2.11	36.7	0.3
16.9	61.4	2.29	23	0.1
19.4	80.7	2.17	21	0.2
20	60.8	1.94	27	0.5
16.7	77	2.12	22.2	0.3
16.8	83.4	2.25	20.1	0.3
16.7	90.7	2.43	30.9	0.3

15.9	59.8	1.99	51.3	0.5
16.9	46.9	1.82	41	0.4
18.1	102	2.29	33.1	0.4
18.4	62.8	1.92	31.5	0.5
19.8	76.2	1.75	25.6	0.5
19.1	61.9	0.6	14	0.5
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18.6	83.4	1.19	13.7	0.2
17.8	59.7	0.98	27.4	0.3
15.4	43.9	0.77	57.3	0.2
14.2	56	0.9	34	0.3
13.4	75.7	1.02	28.2	0.4
12	29.8	0.66	37	0.6
14.8	23.1	0.6	45.2	0.9
14	24.1	0.64	45.5	0.9
14.2	28.9	0.68	34.5	0.8
13.2	28.2	0.72	21.7	0.8
13.8	28.7	0.78	20.1	0.8
14	29.5	0.76	33	1.1
13.4	28.6	0.76	45.1	1.1
14.6	23.4	0.73	44.6	0.9
13.9	26.2	0.75	48.4	0.8
14.9	24.9	4.26	38.2	0.7
17.8	23.6	6.69	42	1
17.9	23.7	6.58	48.4	1.2
14.4	24.7	4.69	44.6	1.3
7.4	24.9	0.86	37.8	1
7.5	24.6	0.98	41.2	0.8
7.5	24	1.02	40.4	0.9
7.5	25.2	1.07	33.1	0.9
8.2	27	1.05	23.4	0.8
10.6	27.5	1.02	20.8	0.6
10.1	25.7	0.98	20.5	0.4
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9.5	24.3	0.94	23.1	0.6
14	34.4	1.33	22.8	0.7
14.7	36.9	1.51	27.6	0.8
11.8	41.5	1.38	24.9	0.8
17.9	39.3	1.64	23.6	0.8
13	37.5	1.38	27.6	0.8
12.6	29.5	1.2	27.8	0.7
12.1	33	1.14	29.3	0.7
17.2	42.6	1.32	27.5	0.5
16.4	35.3	1.25	28.7	0.4
20.5	45.3	1.26	16.6	0.2
13.6	34.9	1.28	28.8	0.2
9.5	29.8	1.16	24.3	0.2
10.5	32.4	1.14	30.9	0.3
12.7	37.8	1.07	28.8	0.2
12.7	35.5	1.4	33.7	0.1

659

24.8	57.4	1.47	20.2	0.1
30.9	55	1.55	22.3	0.3
24.6	83.8	2.15	24.5	0.1
9.5	86.5	2.47	18.4	0
12.9	33.5	1.72	12.5	0
12.8	32.4	1.7	10.3	0.1
11	26.5	1.55	12.2	0.1
9.3	26.9	1.5	21.3	0.1
8.7	30.5	1.61	26.2	0.1
8.2	9.7	1.33	22.1	0.2
7.9	10.5	1.4	22.1	0.2
7.8	11.5	1.47	24.2	0.2
8.1	11.1	1.49	22.3	0.4
7.5	12.6	1.57	18.4	0.1
8.4	30.9	1.82	17	0.1
8.5	36.9	1.88	13.8	0.1
8.7	37.6	1.97	8.1	0.1
8.3	17.8	1.64	7.9	0.1
7.4	11.3	1.48	15.4	0.1
8.8	44	2.11	13.7	0.1
9.8	78.1	2.65	8.1	0
7.2	39.7	1.75	14.6	0
7	35.2	1.63	18.3	0
9	68.5	1.59	16.8	0.1
9.4	84.5	1.61	24.6	0.1
11.8	122.9	0.57	7.8	0.1
9.9	115.3	1.4	24.7	0
9.2	99.3	1.31	20.8	0.2
9.5	71.9	1.19	17.3	0.2
9	77.6	1.28	16.6	0.2
7.7	68.8	1.2	23.2	0.3
8.4	60.1	1.15	33.9	0.3
7.9	45.5	0.97	45.8	0.3
7.9	21.9	0.8	25.5	0.4
7.6	39.4	1.09	26.4	0.3
8.6	84.4	1.58	30.1	0.2
7.7	76.7	1.43	31.1	0.1
8.2	87.2	1.5	28.3	0.1
7.5	53.5	1.18	21.7	0.1
6	44.7	0.91	12.7	0.2
8.4	120.4	1.09	9.3	0.2
5.7	97.1	1.03	6.9	0.2
5.8	31.6	0.66	13.7	0.3
5.9	25.2	0.61	14.4	0.3
7.3	64.9	1.02	16.8	0.2
7.4	86.1	1.33	11.3	0.1
7.2	90.6	1.27	6.2	0.1
7.1	133.5	1.14	8.2	0
7	45.7	0.99	8.8	0
7.8	109.9	1.38	9.1	0
6.3	73	0.98	9.9	0.1
5.3	69.9	0.85	11.6	0.1

660

5.6	91.9	0.89	12.9	0.1
7.1	125.8	1.18	29.1	0.1
6.6	116.5	1.34	38.9	0.2
8.1	167.8	1.88	44	0.1
7.2	152.5	1.89	28.6	0.1
8.6	160.2	2.14	33.2	0.1
8.8	175.4	2.17	24.8	0.1
11.2	248.7	3.51	53.9	0.1
12.8	180.6	3.09	130.4	0.1
17	176.4	2.07	118.6	0.1
22.9	155	1.7	91.6	0.1
28.8	199.5	1.9	88.9	0.1
26.3	165	2.14	77.7	0
36	275.3	2.02	69.5	0.1
32.6	243.5	2.03	102.9	0.1
24.5	248.1	2.12	95.5	0.1
28	229.9	2.03	121	0
31.3	284.8	2.65	83	0.1
62.4	338.2	2.83	69.6	0.2
52.1	311.4	2.96	104.5	0.1
27.5	284.1	2.73	135.4	0.1
22	320.9	3.12	108.3	0.1
25.8	307.9	2.55	82.9	0.1
19	299.2	2.54	78.8	0.1
24.7	351.5	2.55	59	0.1
21.3	259.1	2.21	46.2	0.1
23.5	110.9	1.77	45.2	0.1
21.8	137.4	1.76	57	0.1
12.9	109.6	1.7	54.5	0.1
11.9	130.9	1.99	68.3	0.1
12.2	115.5	1.41	82.5	0.2
11	103	1.24	39.2	0.1
10.9	81.5	1.14	24.5	0.1
15.2	70.5	0.74	20.1	0.4
18.3	40.5	1.29	36.5	0.1
19.5	98.8	1.96	54.7	0.2
19.7	122.9	2.54	70.6	0.1
18.8	86.5	1.62	77.6	0.1
19.9	83	1.58	82.9	0
19.5	73	1.29	69.6	0.1
20	96.3	1.58	77.8	0.1
20.2	116.9	1.8	77.5	0.1
19.8	108.2	1.31	85.2	0.3
19.4	122.3	1.78	90.1	0.1
21	105.3	2.17	117.2	0.1
21	111.8	2.66	141.1	0.1
20.7	122.6	2.51	111.8	0.1
19.9	95.5	2.32	112.8	0.2
21	112.2	2.85	129.9	0.1
22.9	124.3	1.81	94.2	0.1
25.8	108.1	2.55	109.9	0.1
23.2	103.2	2.2	95.4	0.1

661

28.3	147.8	2.35	87.9	0.2
26.1	162.2	2.33	88	0.1
22	153.8	2.18	94.1	0
25.4	150.2	2.39	117.9	0.1
23.8	149.3	2.36	111	0.1
23.3	130.5	2.46	127.8	0.1
23	109.1	2.53	103.7	0
25.1	136.7	2.83	112.7	0
29.1	165.4	2.13	92.8	0
27.1	146	2.83	43.1	0.1
30	175.8	2.83	51.5	0
30.9	176.8	3.11	41.7	0.1
25.5	146.9	1.98	41.7	0.1
26.6	147.6	2	36.2	0
27.9	161.4	1.89	48.9	0.1
25	142.2	1.78	46.7	0.1
24.6	146.2	2.36	48.3	0
24.7	130.6	1.67	53.3	0.1
19.8	94.2	1.19	46	0.1
24.7	117.5	1.18	27.4	0.1
24.3	129.3	1.29	31.8	0.1
28.4	153	1.35	23.5	0.1
35.4	189.5	1.32	11.9	0.2
31.4	153.2	1.04	24.6	0.2
30.2	171.9	1.79	29.4	0.1
30.2	172.1	1.75	27.7	0.1
24.3	147.6	1.88	38.8	0
27.6	159	2.07	42.8	0.1
24.7	146.2	1.34	42.4	0.1
24.5	145	1.35	30	0.1
25.5	181.6	1.32	30.9	0.2
27.8	179.5	1.95	32.3	0.1
29.7	149.2	1.89	36.2	0.1
28.6	131.2	1.69	23.1	0.1
19.2	86.5	1.48	35.2	0.1
20.8	62	1.42	34.3	0.2
16.3	92.2	1.6	46.1	0.1
16.8	153.9	1.87	45.9	0.1
14.9	141.9	1.37	36.3	0.2
18.8	144.7	1.2	61.6	0.1
11.6	159.8	1.42	44	0.1
5.6	154.3	1.64	38.5	0
12.2	167	2.25	43.6	0
11.2	36.2	2.2	45	0.1
15.1	102.9	2.2	48.9	0.2
14.8	178.2	2.56	49.4	0.1
16.3	222.1	3.23	34.7	0.1
19.4	193.1	3.25	33.8	0.1
15.6	187.4	3.15	27.8	0.2
16.8	81.5	2.43	50.2	0.2
19.1	214.5	3.67	35	0.1
19.2	229.7	3.26	36.2	0.1

21.9	210.8	3.06	44.2	0.1
21.5	222.5	3.39	58.8	0
17.7	200.1	2.62	48.9	0
19.6	114.9	2.01	58.4	0.1
20.1	213.6	2.58	46.2	0.1
19.6	195.2	2.83	39.2	0.1
20.1	223.9	3.37	47.4	0.1
22.4	180.3	3.52	42.7	0.1
24	232.6	4.43	49.5	0.1
19.1	189.1	2.99	37.3	0.1
16	237.6	2.07	23.1	0
17.1	148.8	1.51	42	0.1
20	81.3	1.52	45.2	0.1
19.7	97.9	1.8	30.1	0.2
15.6	126.9	2.32	24.1	0.1
17.1	121.7	1.93	38.1	0.1
18.6	157.1	1.92	39.2	0.1
16.8	201	2.15	29.1	0.1
17.8	151.4	1.89	32.8	0.1
17.5	99.3	1.39	11.1	0.1
15.6	74.4	0.96	34	0.2
19.3	72.3	0.95	30.1	0.1
17.4	95.4	1.3	27.3	0.1
16.5	120.8	1.43	54.6	0.2
17.8	129.4	1.45	57.9	0.2
20.6	113	1.54	55.5	0.2
23.1	112.3	1.84	81.7	0.3
23.8	93.5	1.58	88.8	0.3
20.8	134.9	2.3	64.7	0.1
21	138.3	2.29	71.6	0.1
28.6	105.2	2.04	75.5	0
28.8	63.5	1.75	63.9	0
24.7	61.6	1.38	51.6	0.2
21.9	80.1	1.32	44.2	0.2
24.2	80.5	1.18	45.1	0.1
23.4	88.4	1.31	54.7	0.2
22.8	92.9	1.88	89.5	0.1
24.5	217.6	3.1	66.4	0.1
33.1	220.5	3.03	45	0.1
31.9	131.2	4.19	66.7	0.1
27	46.3	1.19	50.7	0.1
23.3	40.1	0.84	37.7	0.1
25.1	43.3	0.75	44.6	0.1
24	50.5	0.68	38.2	0.1
25.1	59.7	0.75	21.5	0.1
23.3	50.4	0.62	48.2	0.3
25.4	61.8	0.77	51.6	0.3
25.9	90.9	1.46	75.6	0.1
23.8	132.3	2.23	38.2	0.1
22.1	104.8	1.46	28.9	0.1
24.3	149.8	1.86	57.2	0.1
26.9	65.7	2.1	63.1	0.1

26.7	100.3	1.28	61.7	0
22.9	63.4	1.16	58.8	0.1
24.5	77.3	1.35	79.8	0.1
26.2	61.1	1.21	84	0.1
26.4	88.2	1.52	97.6	0
25.6	69.3	1.38	113.9	0.1
24.2	51.6	0.99	111.5	0.1
25.4	69.5	1.19	122.1	0.1
25.1	130.6	2.04	99.8	0.1
25.4	122.7	2.23	84.9	0.1
25.6	72	1.54	92.9	0
25	71.4	1.14	90.7	0
24.5	60.6	0.98	98.6	0.1
24.8	80.9	3.85	73.6	0.1
24.5	77.6	2.34	85.2	0.1
25	84.4	0.94	72.8	0.1
26.8	113.6	1.15	45.3	0
23.4	40.8	0.75	60.1	0.1
14.9	20.4	0.69	66.4	0.1
17.4	33.2	0.88	58	0.1
18.7	96	1.49	46.4	0.1
18.7	186.6	1.88	33.1	0.1
19.8	85.8	1.4	56.6	0.1
16.7	77.6	1.25	46.9	0.1
15.9	77.2	1.35	30.3	0.1
18.9	89.8	1.58	29.8	0
34.4	37.8	1.58	48.3	0.1
36.8	37.2	2.11	16.4	0
40.3	77.1	2.31	5.4	0.1
42.7	129.5	2.31	10.4	0.1
39.5	74.4	2.02	9.7	0.1
25.2	85.1	1.76	11.3	0.1
22.6	71.3	1.67	15.6	0.1
17.9	95.2	2	23.8	0.1
15	60.2	1.75	21	0
11.1	56.5	1.71	10	0.1
8.7	64	1.68	6	0.2
6.8	63.6	1.62	6.4	0.1
21.9	77.9	1.74	9.7	0.1
29.3	75.4	1.63	12.7	0.2
27.9	120.8	2.27	35.9	0.1
35.6	79.1	1.74	42.5	0.1
69.2	85.8	1.71	25	0.1
44.7	84.9	1.69	22	0.1
55.8	75.9	1.74	17	0.1
23	94	1.93	11.5	0
22.7	57.8	1.93	14.4	0.1
39.6	85.2	2.02	24.1	0.1
51.7	42.4	1.72	28.2	0.1
34.3	57.2	1.88	28.6	0.1
28.1	74.2	1.96	23.4	0.1
19.9	118.3	2.18	27	0.1

664

14.6	52	1.34	21.3	0.1
21.8	49.9	0.7	23.3	0.1
17.8	83.6	1.07	33.1	0.2
10.8	63.9	0.91	35.4	0.1
5.3	90	1.29	31	0.1
11	66.8	1.28	30.7	0.1
18.3	42.6	0.88	41.6	0.2
14.4	70.5	1.05	29.6	0.1
38.8	32.5	0.81	33.8	0.1
28.2	35.9	0.8	24	0.1
27.7	39.3	0.78	26.3	0.1
27.5	54.2	0.81	22.9	0
26.3	39.6	0.23	27.7	0.1
24.6	66.2	0.52	27.5	0.2
22.3	45.8	0.57	23.3	0.1
18.9	40.1	0.5	29.6	0.1
14.3	38.3	0.85	26.5	0.1
15.9	36.7	1.11	19.3	0.1
16.7	35.3	1.04	14.3	0.1
14	37.9	1.04	24.5	0.1
9.6	39.1	0.91	41	0.1
9.1	38.9	0.83	36.2	0.1
8	37.9	0.86	37.3	0.1
16	39.7	0.58	44.4	0.1
24.2	41.6	0.83	57.7	0.1
44.3	44.5	1.17	56.5	0.1
59.9	82.6	1.61	45.7	0.2
65.7	97	1.71	41.1	0.4
78.6	125.7	2.01	27	0.2
93.1	55.4	1.56	31.1	0.1
95.5	48.5	1.46	33.9	0.1
51.8	136.9	1.45	35.1	0.1
38	128.2	1.43	49.8	0.2
31.4	168.2	2.54	26.5	0.2
21.7	212.4	2.83	14	0.1
30	193.3	2.62	15.7	0.2
34.7	178.2	1.94	25.8	0.1
30.9	153.7	2.92	29.6	0.2
28.2	101.2	2.75	23.8	0
29.3	90.7	1.8	17.9	0
28.2	68.4	1.9	19	0.2
29.1	69.5	2.03	54.5	0.1
26.5	35.1	0.69	70.7	0.4
22.3	67.2	3.18	19.3	0.1
19.3	46.9	2.49	20.2	0.2
19.7	68.8	2.9	13.7	0.1
18.7	40.5	1.75	20.5	0.2
17.3	33.8	1.44	17.2	0.1
16.3	28.9	1.28	24	0.2
15.5	46	2.05	22	0
16	54.6	2.6	24.3	0.1
21.3	63.4	2.21	19	0.1

665

19.3	50.9	1.51	20.6	0.2
17.6	40.4	1.64	20.7	0.2
19.1	40	1.6	18	0.1
23.5	46.9	1.75	17.4	0.1
30.3	44.8	1.56	19.6	0
23.1	11.4	0.78	22.2	0.2
20.6	50.4	2.25	21.7	0.1
18.1	54.2	1.94	17.6	0.1
13.9	36.8	1.31	26.3	0.2
11.2	22.2	0.83	22.8	0.3
12	47.5	1.69	17.5	0.3
11.4	60.3	2.33	27.3	0.3
19.4	75	2.66	18.8	0.2
18.8	63.5	2.46	22.3	0.2
17	105.3	4.95	21.1	0.1
17.7	32.6	2.33	27.1	0.1
15.3	13.2	1.56	30.1	0.3
11.4	20.2	1.93	27.9	0.3
8.5	12.7	1.56	27.7	0.3
6.9	61.1	3.18	20	0.1
12.8	52	2.64	26.8	0.1
13.4	56.6	3.11	35.6	0.2
8	41	2.53	70	0.3
9.1	29.1	2.34	60	0.1
12.2	24	2.21	62.5	0.3
11.1	24.4	1.92	52.6	0.1
11.9	14.6	1.21	70.5	0.3
12.3	16.5	1.21	67.9	0.3
14.3	19.5	1.46	65.4	0.2
15.1	13.2	1.21	76.1	0.4
15.4	14.6	1.54	60	0.6
17.8	14.3	1.41	42.6	0.6
13.5	19.8	1.55	30.5	0.3
12.4	48.4	2.65	31.5	0.1
15.8	62.2	2.45	21.5	0.1
14.5	23.1	0.96	31.9	0.3
12.5	16	0.62	38.9	0.6
10.3	17.8	0.61	66.8	0.5
11.9	21.8	0.41	77.7	0.4
5.4	19.8	0.56	80.3	0.3
16.2	30	1.11	58.5	0.2
44.7	23.6	1.62	46.6	0.1
30.5	36.4	1.85	27.6	0
31.3	33.6	1.81	36.7	0.1
22.1	35.5	1.83	37.7	0.1
12.4	28.8	2.18	30.2	0.1
25.3	40.1	2.18	38.6	0.1
36.1	93.2	2.78	34.7	0
33.8	47.8	2.86	25.1	0
11.2	60.1	3.63	44.7	0
12	40.4	3	57.5	0
16.4	75.4	3.63	38	0

666

8.5	66.8	1.97	26.8	0.1
18.9	40	1.5	42.7	0.1
14.1	76.3	1.47	35.5	0.1
10.5	87.4	2	45.1	0.1
20.1	65.4	1.67	44.7	0
17.6	56.7	1.5	24.2	0
18.4	21	1.26	21.6	0.1
16.1	39.3	1.43	16.1	0.1
16	26.4	1.3	26.3	0.1
13.1	42.1	1.48	52.9	0.1
10.5	58.9	1.28	28	0
17.4	54.2	1.6	30.8	0.2
20.1	26.4	1.18	24.4	0.3
14.1	22.3	1.1	24.9	0.4
7.3	21.1	0.96	22.3	0.4
6.8	23.1	1.05	26.1	0.3
11.3	27.4	1.03	50.7	0.2
11.6	29.1	1	56.9	0.2
10.3	32.9	1.01	52.9	0.2
11.3	34.2	1	53.7	0.3
8.9	32.1	1.13	44.6	0.1
7.4	32.3	1.31	41.4	0.1
10.1	33.7	1.17	43.8	0.1
9.3	35.7	1.35	34.7	0.1
8.9	42.8	1.43	40.4	0.1
6.4	43.8	1.36	38.9	0.2
5.3	25.8	1.31	48.3	0.1
4.6	26.6	1.42	39.8	0
4.8	27.8	1.46	32	0.1
7.5	43.6	1.52	32.4	0.1
8	27.7	1.51	25	0
5.4	29.9	1.63	26	0.1
9.8	34.8	1.47	38.9	0.1
7.2	44.1	1.57	33.1	0
9.6	46.4	1.44	35.1	0.1
6.6	24.7	1.21	19.8	0.1
9.1	28.8	1.22	17	0.1
9	35.8	1.32	18.9	0.1
8.5	42.1	1.61	25	0.1
7.9	45.3	1.51	57.6	0.1
8.3	43.9	1.57	46.2	0.1
9.1	44.6	1.51	38.2	0.5
9.4	42	1.53	35.1	0.4
8.5	44.6	1.6	37.9	0.1
11	69.3	1.69	45.8	0.2
9.3	67.6	1.97	55.2	0.2
8.2	50.6	1.88	64.7	0.3
7.5	38.2	1.85	74.7	0.1
6.4	22.3	1.55	50.3	0.1
7.7	62.5	1.98	20	0.2
9.9	38.7	1.79	49.6	0.1
9	44.3	1.85	62.2	0.1

11.8	30.9	1.49	64.9	0
6.6	25.7	1.39	53.5	0
7.2	24.7	1.3	53.1	0
5.9	61.4	1.64	25.8	0.1
4.7	46.8	1.54	37.4	0.1
7.7	51.6	1.64	36.4	0.1
11.4	32.2	1.49	40.1	0
10.3	15.9	1.12	46.8	0
9.3	17	1.04	51.3	0
5.9	12.4	1.02	14.9	0
8.9	16.6	1.12	23.8	0
10.1	20.2	1.25	23.5	0.1
12.2	19.3	1.27	26.8	0.1
10.6	18.4	1.19	30.8	0
4.9	20.6	1.32	26.6	0
5.4	20.7	1.53	35.1	0
5.2	18.2	1.37	26.3	0
7	22.3	1.68	31.7	0
12.6	24.3	1.82	33.6	0.1
14.7	24.6	1.34	31.8	0.3
16.5	27.3	1.21	35.3	0.1
17.5	51.3	1.11	40.3	0
11.4	53.4	1.18	43.5	0
5.7	111.8	1.22	35.4	0.1
18.9	60	1.28	27.5	0.1
10.2	56.9	1.37	28.1	0.1
15.3	48.6	1.15	35.2	0.2
7.2	63.3	1.28	29.7	0.1
8.6	48.9	1.01	34.8	0
13.5	38.9	0.94	41.4	0.1
13.3	74.1	1.21	20.5	0.1
13.6	67.3	1.16	23.7	0
13.3	59	1.19	15.3	0.2
12.2	54	1.39	22.2	0.1
11.3	29.3	0.99	35.1	0.1
14.8	36.9	1.23	59.8	0
15.4	37.7	0.93	37.2	0
19	45.7	1	32.3	0
20.3	44.4	1.02	28.5	0.1
19.5	48.9	1.11	32.7	0.1
20.7	43.8	1.26	58.7	0.1
21.6	50.6	1.09	45.2	0.2
21.6	53	1.2	55.4	0.1
21.3	47.4	1.11	39.5	0.1
21.4	49.9	1.17	39.6	0.2
23.5	61.9	1.21	29.1	0.2
22.9	60.9	0.98	23	0.3
21.9	41.5	0.9	28.7	0.1
24.9	47.2	1.01	34.3	0.1
21.7	48.7	1.01	43.9	0.1
23.2	44.5	1	54.8	0.1
24.5	66.2	1.19	43.7	0.1

25.4	71.2	1.22	30.7	0.1
23.8	68.5	1.04	27.6	0.1
25.6	53.5	1.31	40.8	0.1
25.4	52.5	1.38	38.9	0
22.8	45.4	1.54	46.9	0.1
22.1	32	1.42	40	0.1
25.3	29	1.33	40	0.2
18.9	28.5	1.46	23.6	0.2
11.6	30.4	1.24	37.4	0.1
13.2	24.7	1.34	61.9	0.1
17.7	57.5	1.16	53.6	0.1
25	35.4	1.37	63.1	0.3
18.9	56.5	1.41	56.9	0.1
15.4	53.8	1.44	55.5	0.1
15.4	40.6	1.53	31.8	0.1
16.1	35.4	1.79	35.1	0
19.2	38	1.9	18.8	0.2
21.4	34.2	1.82	27.4	0.2
19.4	31.8	1.92	43.8	0.1
17.9	29.3	1.83	32.2	0.2
25.6	31.4	1.91	33	0.1
24.7	37.7	1.95	41.1	0.1
26.4	35.4	1.99	32.8	0.1
23.6	45	2.25	51.7	0.1
26.7	29.5	2.16	50.8	0.1
26	30	1.86	43.5	0
25.5	35.9	2.03	44.4	0
26.4	41.3	1.8	43.5	0
29.3	15	1.62	47.1	0
28.4	16	1.42	35.6	0.1
28.7	20.7	1.54	43.2	0.1
28.8	24.9	1.33	37.5	0.1
28.4	23	1.2	41.4	0.2
28.3	22.6	1.41	39.7	0.1
27.9	22.4	1.35	42.1	0.1
24.1	30.9	1.62	30.6	0.1
20.1	38	1.52	36.5	0.1
20.7	43.9	1.63	27.5	0.1
20.1	41.9	1.47	35.1	0.2
21.2	41.1	1.53	33.7	0.2
21.5	42.7	1.82	34.8	0.1
21.4	40.1	1.93	25.3	0.1
20.9	37.9	1.68	39.4	0.1
20.2	36.1	1.67	34	0.1
21.2	38.7	1.89	35.9	0.1
21.6	40.3	1.52	37.7	0.1
21.6	33.6	1.75	39.4	0.1
21.2	39.6	1.5	40.1	0.2
21.7	35	1.51	42.9	0.1
21.3	37.7	1.72	38.1	0.1
22	36.6	1.72	31.3	0.1
21.2	36.1	1.92	34.4	0.1

20.7	39.3	1.81	33.6	0.2
21	37.6	1.91	32.8	0
21	45	1.92	35.4	0.1
21.3	40.6	1.61	21.6	0.1
21.4	34.7	1.67	40.3	0.1
21.5	38.9	1.45	49.5	0.4
21.9	36.1	1.4	41.4	0.4
21.3	46.8	1.74	47.2	0.2
21.7	50.2	1.72	53.2	0.2
21	58.8	1.66	47.6	0.3
20.7	51.8	1.28	46.1	0.6
20.8	60.8	1.42	40.1	0.3
21.7	54.6	2.01	42.9	0.2
19.3	56.5	1.97	37.6	0.3
18.5	46.3	1.61	48	0.7
25.7	62.5	2.08	29.8	0.3
26.1	64.4	2.24	32.3	0.3
24.1	63.5	2.56	30.5	0.1
17.8	26.1	1.48	21.1	0.3
17.3	27.3	1.36	33.2	0.6
17.6	31.8	1.43	39	0.5
18	32.8	1.67	49.4	0.2
22.4	58.7	2.71	61.9	0.9
21.6	47.1	2.37	46.2	0.2
21.8	57	2.43	38.9	0.5
16.6	20.3	1.26	30.5	0.5
17.4	25.5	1.36	23.4	0.2
16.9	22.9	1.26	21.5	0.6
17.7	43.4	1.43	31.8	0.5
17	55.6	1.39	34.3	0.5
17	51.9	1.57	43.2	1
16.3	27.7	1.43	36.6	1.5
17.5	39	1.78	43	0.8
18	39.4	2.12	35.5	0.5
17	33.6	1.91	44.5	0.2
17.1	35.8	1.81	33	0.2
17.6	47.4	1.86	40.1	0.5
17.9	50.7	1.9	36	0.7
17.7	50	2.02	29.2	0.5
18.3	42	2.2	25.9	0.3
19	60	2.34	24.5	0.3
18.5	42.3	2.32	25.5	0.3
17.4	42.5	2.01	20	0.3
17.8	35.3	2.11	20.7	0.6
17.3	44.9	1.7	26.8	0.2
17.4	36.6	2.11	45.2	0.3
18.3	33.2	2.41	40.8	0.2
17.3	14.5	1.82	31.8	0.4
16.3	23	1.72	31.5	0.4
16.5	31.4	1.8	38.5	0.9
17.5	64.2	2.43	37.5	0.5
17.5	68.2	2.43	43.3	0.6

670

18.2	92	3	39	0.3
17.7	55.7	3.16	44.1	0.2
17.8	64.8	2.96	51	0.3
18.6	65.5	3.19	28	0.9
19.4	78.2	3.34	42.1	0.1
18.5	81.2	3.43	32.2	0.2
16.6	37	2.29	25	0.1
17.2	37.1	2.66	19.8	0.1
16.9	54	2.05	13.9	1
16.8	33.8	1.93	15.4	0.2
17	36.5	2.01	16.1	0.7
16.9	37.4	1.98	20.3	0.7
17.2	42.8	2.16	22.2	0.2
16.7	37.7	2.11	27	0.3
16.9	38.1	2.28	38.4	0.1
17	40.5	2.13	25.3	0.4
17.1	39.5	2.17	27.4	0.4
16.7	32.6	2.33	31.4	0.4
16.9	32	2.03	37.1	0.6
16.9	33.5	1.92	20.5	0.4
17.2	37.4	1.96	22.2	0.3
17	32.5	1.88	26.7	0.2
18	33.5	2.14	24.6	0.2
18.2	35.9	2.33	25.9	0.2
18.2	34.3	2.19	26.4	0.3
17.5	34.7	2.25	23.8	0.3
16.7	33.6	2.19	37	0.2
16.8	37.7	2.2	39	0.3
16.7	38.3	2.17	40.2	0.3
16.8	35.5	2.05	35.8	0.3
16.8	33.9	2.1	39.6	0.2
17.1	35.9	2.2	38.6	0.1
16.5	37.7	2.1	27.3	0.2
17.5	38.8	1.96	20.1	0.2
18.7	38.7	2.02	27.7	0.3
18.6	37.9	2.1	29.2	0.2
19.2	36.4	2.01	23.2	0.3
19.7	37.9	2.14	30.5	0.4
19.6	38.3	2.19	32.1	0.4
19.1	37.9	2.21	32.8	0.2
19.4	36.1	2.23	24.2	0.4
19.6	36.6	2.19	32.7	0.1
19.5	36.2	2.15	25.2	0.2
18.9	39.2	2.02	23.9	0.4
19.1	45.5	2.07	30.1	0.7
19.1	43.5	2.1	26.3	0.3
18.4	42.6	1.98	22.9	0.2
18.6	43.1	1.97	20.1	0.3
18.9	44.3	2.07	26.7	0.9
18.9	43.5	1.95	25.2	0.4
18.8	44.2	1.83	22.3	0.4
18.5	47.5	1.95	21.2	0.3

671

18.4	50.6	1.31	20.6	0.3
18.3	31.3	0.38	19.9	0.2
18.9	32.7	0.39	25.6	0.2
20.5	28.1	0.41	24.2	0.2
21.2	28.6	0.45	26.7	0.3
21.6	26.2	0.43	20.1	0.3
21.9	15.7	0.48	19.5	0.1
26.2	48.7	1.04	13.9	0.2
24.9	18.9	0.77	10.4	0.2
22	18.9	0.85	14.5	0.2
22	30	0.86	12.3	0.3
21.3	52.5	0.89	10.7	0.2
22.3	75.3	1.08	7.3	0.1
21.3	41.3	0.81	9.3	0.1
21.3	21.7	0.71	9.1	0.2
22.3	25.3	0.76	11.5	0.3
21.8	21.9	0.82	11	0.5
21.5	20.6	0.73	14.7	0.8
21	18.1	0.73	12.1	0.4
21.1	19	0.74	10.9	0.2
21	20.3	0.72	13.1	0.1
21.4	16.6	0.76	13.6	0.3
21.7	28.3	0.85	12.2	0.4
21.7	38.9	0.87	14.4	0.9
21.1	36	0.88	14.5	0.6
21	21.3	0.9	12.8	0.4
21.24	36.39	0.87	10.88	0.35
21.85	34.32	0.8	11.77	0.26
22.1	43.2	0.79	13.9	0.3
22.6	97	1.14	14.8	0.7
23.2	117.1	1.09	16.5	0.4
23.2	121	1.16	13.5	0.2
23.7	131.7	1.2	4.8	0.2
24.2	167.4	1.3	1.7	0.8
23.4	115.6	0.87	8.6	1
23.4	101.8	0.93	10.1	1.5
23.1	124.6	1.11	8.4	1.4
23	152.8	1.23	5.1	1
22.6	83.4	1.04	11.9	0.3
22.3	76.6	0.99	3.9	0.1
21.9	59	0.86	5.6	0.2
22.9	131.6	1.38	3.5	0.2
21.6	80.4	0.99	5.6	0.3
21.7	67.1	0.92	8.1	0.3
21.9	54.3	0.9	9.1	0.4
22	71.1	0.9	10.9	0.5
21.8	66.7	0.91	11.2	0.6
21.5	66.5	0.88	9.8	0.6
21.6	63.9	0.87	10.3	0.6
22.1	64.4	0.93	10.2	0.3
21.8	49.2	0.99	16.9	0.6
21.6	47.5	1	16.1	0.6

672

21.7	43.7	1.04	22	0.5
21.4	52.2	0.97	19.2	0.6
21.7	64.1	1.06	14.2	0.9
21.3	72.2	1.09	13.2	0.9
21.9	87.7	1.04	4.9	0.7
21.5	80.5	1.04	5.4	0.3
22	78.4	1.05	9.1	0.4
22.7	75.4	1.26	6.5	0.4
22.6	65.3	1.33	6.2	0.4
23.5	94.9	1.42	7.5	0.1
23.1	77.3	1.35	7.3	0.1
23.7	112.3	1.46	6.3	0.1
23.4	117.1	1.44	5.9	0.2
22.7	123	1.38	4.9	0.1
22.6	120.2	1.25	3.8	0.1
22.4	117.9	1.18	3.5	0.2
22.5	113.3	1.19	3.6	0.2
22.4	113.9	1.18	5.9	0.7
22.7	93.3	1.32	6.4	0.2
22.3	93	1.32	8.7	0.3
24.5	172.2	1.8	5.5	0.2
23.6	163.8	1.57	5.5	0.1
22.1	137.8	1.29	12.1	0.1
22.3	121.6	1.19	15.9	0.2
22.5	125.5	1.23	14	0.1
22.9	122.3	1.17	7.6	0.1
22.8	129.2	1.13	10.8	0.2
22.6	111.4	1.18	12.2	0.1
22.5	93.2	1.21	13.6	0.1
22	99.8	1.2	14.3	0.1
18.5	91	1.1	11.4	0
15.1	85.4	1.01	6.7	0
13.4	63.9	0.53	10.8	0
13.4	53.1	0.58	10.9	0
13.5	49.4	0.56	10.9	0.1
14.3	86.1	0.98	7.9	0
12.6	36	0.52	10.3	0
12.7	44.2	0.65	12.1	0
12.7	52.8	0.79	10	0
12.5	78	1.23	5.5	0.1
12.2	77	1.38	6.2	0.1
14.3	87.7	1.31	5.8	0.1
15	71.8	1.42	7.8	0.1
17.3	94.3	1.29	10.5	0.3
18.7	117.6	1.47	11	0.6
18.5	114.1	1.68	10.5	0.6
17.5	80.6	1.38	12.9	0.7
20.3	78.5	1.45	10.5	0.6
15	80.1	1.55	7.9	0.6
16.5	71.2	1.79	11.3	0.5
17.5	79.6	1.6	12.2	0.5
19.5	79	1.59	10.8	0.6

673

18.3	80.5	1.72	8.4	0.4
17.8	76.3	1.7	5.9	0.2
19.2	77.9	2.04	3.1	0
15.7	66	1.83	3.8	0
15.7	66.9	1.62	5.7	0.1
16.7	68.9	1.87	6	0.1
15.3	54.2	2.07	3.6	0
15.2	60.1	2.04	4.1	0.1
14.8	60.6	1.83	3.8	0
15.5	53.2	1.92	3.8	0.1
16.3	55.6	1.74	5.7	0.1
14.2	49.6	1.63	8.2	0.2
14.5	61.1	1.8	10.9	0.2
15.5	66.3	1.96	16.7	0.1
14.9	59.1	2.33	11.8	0.1
13.8	35.9	2.24	6.1	0.2
14.6	38.4	2.47	5.4	0
15.6	56.3	2.39	6.8	0.1
13.1	33.7	2.09	13.4	0.4
13.5	47.6	2.02	14.9	0.5
13.3	50.4	2.18	13.1	0.7
12.8	44.4	2.3	12.8	0.7
13.7	56.5	2.18	10.2	0.4
14.6	72.9	1.83	8.7	0.3
14.5	65.2	1.87	7.4	0.2
15.8	63.9	1.9	8.3	0.2
15.6	64.2	1.95	7.6	0.1
15.8	70.7	2.23	5.9	0.1
14.8	63.7	2.33	4.4	0.2
13.4	65	2.23	5.4	0.2
16	62.1	2.08	4.4	0.1
16.4	68.4	2.04	4.6	0.1
15.1	53.4	1.75	4.9	0.1
15.3	73.4	1.89	6.5	0.1
17.2	70.9	1.95	7.9	0.1
15.4	54.1	1.9	10.1	0.1
15	60.6	2.74	3.8	0
15.5	58.1	2.48	3.4	0.1
15.3	60.9	2.23	4.5	0.1
16.3	60.7	2.31	3.8	0.1
16.7	59.5	2.45	3.5	0.2
17.1	61.1	2.81	4.4	0.1
17.1	63.6	3.27	5.7	0.1
17	69	3.29	6.6	0.1
17	69.8	2.96	5	0.1
17.2	73.9	2.85	4.2	0.1
16.6	74.3	2.71	5.5	0.1
16.6	70.4	2.72	5.9	0.3
16.6	69.6	3.13	4.5	0.1
17.6	73.9	3.04	4.3	0.1
17.9	77.7	3.16	5.1	0.2
17.2	78.3	3.46	9.9	0.1

674

16	72.1	3.01	5.1	0.2
15.5	70.8	2.89	5.5	0.2
16.7	81.1	3.04	7.9	0.2
16.8	77.5	3.52	9.5	0.2
16.8	62.1	2.29	6.3	0.1
15.5	51.8	2.41	5.8	0.1
17.8	47	2.54	5	0.2
15.8	44.5	2.39	4.7	0.2
16.9	41.4	1.95	6	0.1
18.1	34.4	2.15	8.4	0.1
19.4	48.9	2.21	6	0.1
22.7	58.1	2.12	7.7	0.1
21.7	59.6	2.11	9.8	0.1
20.5	57.1	2.16	13	0
24.2	53	2.18	10.2	0.1
22.7	44.1	1.73	8.9	0.3
22	46.4	1.71	7	0.2
23.1	69.8	2.49	6.7	0.4
26.3	115.6	3.22	12.6	0.4
25.1	117.1	2.84	13.5	0.2
25.5	121.1	2.69	24.5	0.2
25.3	106.6	2.69	24.9	0.3
30.7	131.5	2.48	16.7	0.3
28.1	83	2.54	33.2	0.3
26	96.1	2.73	38.8	0.3
23.1	103.7	2.91	38.8	0.5
20.8	103.7	3.27	33.4	0.4
20.4	120.3	3.53	43.3	0.3
20	123.6	3.49	36.6	0.2
20.1	140.3	3.52	32.9	0.5
20	138.5	3.76	41.3	0.2
19.4	138.4	3.62	36.6	0.1
18.6	131.2	2.62	37	0.3
15.6	109.6	1.98	18.2	0.4
13.3	108.2	1.66	45	0.4
12.1	136.2	1.95	48.4	0.1
12.9	131	2.31	44.9	0.2
11.5	122.2	2.47	44.7	0.1
12.1	125	2.75	43.4	0.1
11.5	104.9	2.95	36.9	0.2
13	161.2	2.37	23.8	0.6
18.2	127.1	1.95	27.7	0.7
27.4	60	1.89	26.6	0.2
28.5	58.1	2.13	27.1	0.5
26.1	44.6	2.17	18.4	0.4
26.7	55.7	2.07	20.7	0.4
23.9	56.2	2.4	12.6	0.4
19.9	49.2	2.31	15.5	0.8
24	52.8	2.78	13	0.5
21.1	56	3.35	10.9	1
20.5	48.7	2.54	19	0.7
19.8	46.2	2.62	8.7	0.7

675

19.7	52.8	3.08	5.9	1
22.8	49.3	2.26	5.7	0.8
18	56.2	2.5	8	0.4
17.9	55.3	2.52	15.3	0.3
19	52.4	2.6	28.9	0.5
21.3	51.4	2.41	39.5	0.4
24.9	52.7	3.13	28.4	0.3
20.7	56.1	3.44	22.8	0.2
21.8	52.5	3.42	21.8	0.3
23.3	52.7	3.3	23.2	0.4
23.4	49.8	3	20.6	0.6
22.8	54.6	3.36	18.7	0.4
22.6	55.9	3.13	28.4	0.4
21.8	50.8	2.67	34.2	0.6
24.1	54.3	3.46	33.5	0.4
26.5	56.7	3.57	13	0.8
24.9	56.5	3.4	23.2	0.7
25.3	58.2	3.76	25.8	0.6
25.4	59.9	3.79	26.1	0.8
25.5	61.9	3.86	21.8	0.5
24.3	63	4.1	25.4	0.6
27.8	67.6	4.21	21.9	0.8
25.5	71.6	4.07	31.1	0.7
26.2	75.1	4.22	32	0.7
26.4	52.9	4.3	27.2	0.6
26	67.3	4.65	23.6	0.5
24.9	64.1	4.72	28	0.4
25.6	55.3	4.73	26.5	0.5
26.6	65.3	4.97	32.2	0.5
25.8	64.3	3.9	32.8	0.5
27	60.2	4.46	33.7	0.6
26.6	58.7	4.5	29.9	0.4
26.1	60.3	5.1	25.5	0.3
25.6	58.9	4.24	32.6	0.6
26.6	54.1	3.5	45.1	1
24.6	63.1	4.16	40.7	0.4
25	63.7	4.8	27.9	0.3
24.4	67.9	4.4	28.8	0.5
26.5	65.4	4.88	30.3	0.5
28	66.4	5.06	24.8	0.5
27	66	4.56	25.7	0.4
27	65.8	3.82	28.2	0.8
28.3	64.8	3.93	33.8	0.7
26.4	63.8	4.39	27.7	0.6
27	63.8	4.36	20.6	1.1
27.6	61.5	4.11	24.6	0.9
27.9	59.3	4.55	20.8	0.9
29.2	66.2	4.92	28.2	0.7
27.9	56.7	5.07	32.6	1.4
25.9	62.1	4.68	23.8	0.5
23.2	54	4.05	11.9	0.6
23.3	56.4	3.7	18.2	0.6

676

24.4	59.4	3.64	16.5	0.7
22.8	62.7	4.03	27.5	0.8
22.9	61.2	3.95	22.4	0.7
19.1	56.6	4.41	21.1	0.4
19.9	60	3.23	24.1	0.6
23.1	58.6	3.52	24	0.5
20.9	58.8	3.11	26.2	0.6
22.3	56	3.14	22.8	0.9
23.1	60.3	3.19	20.3	0.7
22.6	59.3	3.34	22.3	0.8
22.8	54.3	3.49	23	0.6
23	61.6	3.88	21.7	0.4
21.6	58.5	3.74	22.9	0.5
21.7	56.2	3.72	33.1	0.8
23.2	57.3	4.09	33.9	0.8
26.1	62.2	3.98	35.2	0.5
26.2	63.8	3.34	34.1	0.7
24	54.7	2.91	33.7	0.8
25.4	63	3.09	32	0.7
23.4	59.4	3.14	32.9	1.2
25.2	56	3.08	24.9	1.1
29.1	59.9	3.63	31.5	0.8
23.7	59.8	3.73	34.3	0.8
26.2	61.2	4.47	34.2	0.8
21.9	53.2	4.73	34.1	0.3
21.6	59.7	4.49	30	0.5
22.8	54.6	3.74	37	1
24.8	57.7	3.73	33.8	0.7
22.5	51.8	4.19	27.2	0.9
25.7	55.8	4.8	26.5	0.6
27.5	63.4	6.56	31.4	0.6
26.9	60.2	5.89	33.8	0.8
27.3	68.8	6.38	30.3	0.6
27.8	61.3	4.54	27	0.5
32	64	3.87	33.5	0.6
26.1	58	3.21	36.6	0.9
25.3	61.4	3.09	34	0.9
26.1	64	3.42	33.2	0.6
26	62.6	3.45	33.5	0.5
27.1	66.5	3.96	33.3	0.5
21.5	54.3	3.04	32.9	0.4
20.8	55.3	3.13	28.7	0.4
23.1	58.1	3.65	26.2	1.1
21.6	54.5	3.41	24.6	0.8
20.9	54.2	3.33	27.9	0.9
21.1	54.8	3.4	27.4	0.7
23.4	58.5	3.48	29	0.9
20	53.1	3.08	28.2	0.6
19.7	52.7	3.26	29.6	0.5
20.4	53.3	3.66	27.1	0.6
21.6	54.9	3.2	25.8	0.9
25.9	63.7	3.84	26.8	0.6

677

23.2	60.1	4.13	33.8	0.6
22.4	57.5	3.35	30.1	0.6
22	57.4	3.32	30.7	1
20.9	51.1	3.94	28.4	0.9
21.2	50	3.86	32.7	0.5
19.5	52.5	3.25	35.8	0.5
19.6	50	3.15	28.7	0.5
20.3	53.8	3.12	32.9	0.7
20.4	47.6	3.02	33.2	0.7
20.4	50.9	2.93	31	0.9
20.1	54.6	2.78	37.7	1.2
18.5	59.2	2.98	40.4	0.9
18.5	51	3.27	28.3	0.7
18.6	57.5	3.35	38.1	0.7
16.8	53.9	3.77	32.6	0.3
14.6	48.5	3.86	17.6	0.3
15.8	49.4	3.89	18.5	0.4
17.8	53.4	3.5	18.2	0.4
18.1	55	3.19	19.4	0.5
18.9	56.7	2.91	19.2	0.8
18.5	55.6	2.95	16.4	0.4
19.8	51.9	2.8	19.1	0.5
19.1	53	3.08	19.1	0.5
19.8	52.6	3.12	18.6	0.4
18.8	51.8	3.27	16.8	0.5
18.4	51.4	3.16	15.1	0.4
19.4	52.4	3.23	16.9	0.3
19.2	52.3	3.03	10.8	0.3
19.8	52.1	3.01	18.2	0.2
19.5	51.9	2.95	19.9	0.4
18.2	50.9	2.94	21.5	0.3
17.4	50.8	3.08	20.1	0.3
18.2	51.8	2.94	18.6	0.3
19.2	50.7	2.98	18.5	0.3
18.8	50.5	2.96	17	0.7
19.1	52.1	2.84	19.3	0.7
19	50.3	2.86	19	0.6
19.7	50.5	3.01	18.7	0.3
18.6	49.7	2.96	20.5	0.7
19	48.6	2.76	18.8	0.4
19.8	49.6	3.08	19	0.4
20.1	58.6	3.04	24.9	0.7
20.5	64.3	2.88	20.7	0.2
21.3	66.2	3.19	25.3	1
20.5	66.5	3.45	24.7	0.9
25.1	65.8	3.48	27.5	0.4
18.9	51.9	2.79	25.8	0.3
9.6	32.4	1.51	27.1	0.6
11	30.7	1.34	28.3	0.6
11.2	24.4	1.21	29.4	0.4
9.8	21.1	1.16	27.7	0.4
11.4	23	0.97	33.5	0.2

10.3	28.8	2.41	16.4	0.2
9.9	26.1	1.32	9.3	0.3
9.6	26.1	1.32	8.7	0.2
9.4	22.8	1.53	12.2	0.2
10.6	21.3	1.54	9.5	0.1
8.9	20.8	1.66	10.8	0.2
9.3	22	1.45	17.5	0.4
11.5	25.7	2.07	22.7	0.3
9.8	27.4	2.14	21.3	0.3
13	38.1	2.44	23.6	0.4
13.5	42.2	2.05	26.5	0.3
13.4	40.6	2.23	25.2	0.2
11.5	44.3	2.3	29.9	0.5
16.4	48.5	2.34	24.5	0.5
11.4	41.8	2.03	30.4	0.2
11.2	42.8	2.44	28	0.4
16.8	45.9	2.47	29.5	0.6
16.7	44.8	2.34	31.3	0.7
17.4	47.2	2.42	32.8	0.3
16.4	46	2.17	30.5	0.3
17.3	47.6	2.22	29.5	0.2
13.6	48	2.49	29.3	0.1
13.2	46.6	2.21	27.3	0.2
19.2	48.1	2.27	30.8	0.2
16.8	47.1	2.3	27.6	0.4
14.3	46.3	2.14	25.9	0.3
16.5	49.4	2.61	27.5	0.3
17	45.2	2.49	27.8	0.3
15.8	47.1	2.73	29.1	0.2
18.9	48.9	2.69	30	0.2
19.2	49.7	2.7	30.8	0.2
17.7	48.1	2.55	31	0.2
18.1	47	2.4	30.3	0.2
19.6	48.1	2.59	28.3	0.3
19.3	48	2.52	29.6	0.2
19	47.8	2.75	24.8	0.2
20.2	45.6	2.68	20.6	0.3
20.3	46	2.54	24	0.1
20.6	47.3	2.53	21.5	0.2
20.6	47	2.55	23.1	0.2
20.3	48.6	2.7	21.8	0.6
19.5	48.9	2.71	22.1	0.6
19.4	48.7	2.75	22.2	0.5
19.5	47.8	2.63	23.2	0.4
20.1	47.6	2.61	20.6	0.3
19	47.9	2.69	23.7	0.2
19.3	48.7	2.58	21.1	0.1
19.8	49.7	2.52	23.7	0
19.6	50.7	2.54	25.1	0.1
19.9	50.1	2.65	23.9	0.2
20.1	50.7	2.52	25.4	0.2
21.6	50	2.73	23.7	0.2

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22.2	49.7	2.8	25.7	0.1
20.2	47.4	2.75	26.2	0.2
20.6	48.6	2.75	26.3	0.1
20.7	48.4	2.76	24.4	0.1
20.9	48.4	2.63	22.9	0.1
21.1	47.3	2.78	21	0.1
19.8	49.1	2.79	22.9	0.1
19.2	49.8	2.68	23.9	0.2
20.9	50.6	2.68	24.8	0.1
19.2	49.5	2.76	24.5	0.2
19.6	48.7	2.78	21.8	0
17.8	43.1	2.66	19.3	0
18.4	37.8	2.8	19.7	0.1
19	33.4	2.71	19.5	0
20	38.5	2.67	21.1	0
19.9	37.5	2.77	20.1	0
19.3	43.2	2.79	21.3	0
20.8	42.3	2.81	22	0.2
19.7	39.5	2.72	20.5	0.1
19.6	32.9	2.66	19.5	0.1
19.6	35.1	2.65	19.1	0.2
19.5	45.2	2.7	22.4	0.1
20.8	41.2	2.8	19	0
20.5	43.1	2.71	19.4	0
20.6	40.7	2.8	20.6	0
19.6	40.1	2.54	22.2	0
20.2	39	2.68	19.2	0.2
21	40.1	2.67	21	0.2
21.1	44.3	2.74	23	0.1
19.8	39.5	2.82	23	0
19.7	38.1	2.87	20.3	0.1
19.8	36	2.74	22.5	0.1
19.7	38.2	2.81	22.8	0.1
18.3	40.3	3.25	23.9	0.1
18.2	53.2	2.19	30.4	0.1
18.6	44.8	1.49	28.9	0.1
18.4	60.6	1.4	20.5	0.7
18.5	48.1	1.39	23.6	0.8
17.4	42.2	1.7	29.8	0.5
17.5	55.4	2.29	36.6	0.2
17.3	40.2	2.27	33.4	0.2
18	53.3	2.3	44.2	0.2
18.1	54.3	2.66	44.1	0.1
17.4	58.4	2.99	27.2	0.1
17.4	60.1	3	32.3	0.1
17.1	43.6	2.96	41.4	0.1
17.2	64.8	2.94	40.2	0.1
17.3	61.1	2.98	40.4	0.1
17.1	71.7	2.97	39.9	0.1
17.1	61.7	2.97	32.5	0
17.5	33.3	3.11	19.3	0
17.4	47.2	3.25	58.9	0

680

17.5	52.6	3.24	52.4	0
17.1	28.1	3.29	33.1	0.2
17.1	49.8	3.27	69.9	0.1
17.6	68.7	2.62	40.4	0
17.1	70	3.15	37.2	0.1
17.1	62.2	3.2	28.9	0.1
16.9	70	3.13	45.5	0.1
17.4	76.7	3.12	41.3	0.1
16.5	85.1	3.06	39.5	0.2
17.5	96.1	3.22	34.5	0.2
18	94.8	2.99	27.1	0.2
19.2	74.5	3.05	35.1	0
19.4	71.9	3.06	30.2	0.1
18.4	66.6	2.98	18.7	0.4
20.7	53.4	3.1	41.6	0.7
20.8	48.7	3.24	61.9	0.7
20.5	46.7	3.42	61.9	0.7
26	51.7	3.4	48.4	0.3
27.7	55	3.11	59.7	0.5
29.3	53.7	2.98	42.2	0.4
22.8	63.8	3.02	40.2	0.4
22.1	57.7	2.82	38.9	0.2
20.8	57.1	2.66	30.3	0.5
19.1	50.6	2.5	27.1	0.6
19.7	49.3	2.5	30.3	0.5
19.5	46.8	2.56	30.2	0.2
18.7	43.6	2.58	28.7	0.7
19.8	47.9	2.61	30.9	0.4
17.9	48.6	2.68	27.2	0.3
18.5	49.2	2.58	28	0.4
18.7	47	2.61	27.8	0.3
19.6	49.7	2.62	31.3	0.7
18	48	2.67	31.6	0.4
17.8	49.2	2.62	31	0.4
16.7	52.5	2.65	28.9	0.4
18.5	49.6	2.85	31.2	0.2
19.6	50.4	2.9	37.1	0.3
20.7	48.7	2.77	33.6	0.3
19.4	50.2	2.91	32.5	0.7
18.1	53.5	3	33.4	0.6
17.1	50.4	3.01	32.2	0.5
17.6	52.8	2.97	32.7	0.5
17.3	51.9	2.95	36.6	0.3
18.8	49	2.98	36.5	0.2
17	51.4	3.01	30	0.6
18	49	2.98	35.2	0.3
18.2	51.7	3.13	42.8	0.5
18.9	52.9	3.22	42.9	0.4
18.3	53.7	3.09	32.6	0.3
18.5	49.8	3.01	38.1	0.5
19.3	51.6	3.05	26.6	0.4
18.4	53.6	2.96	29.8	0.3

17.9	54	3.14	32	0.4
19	49.6	3.15	25.8	0.7
18.3	49	3.1	37.9	0.4
19.5	50	3.1	30.7	0.7
18.4	49.3	3.01	26.3	0.4
19.5	47.9	3.02	24.3	0.4
19	48.7	3.02	24.6	0.4
17.9	48.4	3.17	25.9	0.5
19.6	47.9	3.24	36.4	0.5
18.8	48	3.07	24.9	0.2
18.1	55.1	3.07	33	0.3
18.4	54.2	2.99	24.6	0.3
18.9	53.4	3.13	26.8	0.5
18.8	55	3.21	25.8	0.3
19	55.3	3.22	26.5	0.4
18.9	52.9	3.02	21.9	0.4
19.4	53.3	3	27.7	0.3
20.5	55.2	2.94	30.8	0.4
17.1	50.41	3.01	32.22	0.5
17.6	52.85	2.97	32.75	0.46
17.8	53.7	2.25	28.5	0.3
20	44.1	1.83	41.3	0.1
21.6	32.4	1.71	51	0.3
21.5	36.3	1.83	33.7	0.3
22.8	33.1	1.8	47.9	0.2
20.8	37.5	1.63	88.1	0.3
25.9	38.5	1.38	48.4	0.2
24.5	53.4	1.68	53.2	0
20.4	66	1.44	70	0
18	60.8	1.67	44.1	0
13.9	58.2	1.16	32.3	0.1
12.3	77.7	1.46	47.9	0
14.3	42.3	1.68	32.8	0.1
16.6	30.2	1.64	39.4	0
17.4	52.7	1.61	53.6	0
17.5	34.5	1.75	62.4	0.1
23.1	35.7	2.02	60.8	0.1
30.3	42.6	2.84	78.5	0.3
37.8	55.3	2.89	75.4	0.3
39.6	95.5	3.66	62.4	0.4
34.9	134.8	3.31	41.3	0.3
26.7	92.3	2.97	43.2	0.4
39.8	56.6	2.38	46.4	0.4
48.1	32.2	2.14	44.3	0.4
22.3	27.8	2.09	45.2	0.3
23.3	37.6	2.53	43.1	0.4
18.6	37.1	2.68	38.2	0.5
22.9	41.1	2.86	51.8	0.5
24.5	47.8	3.21	57	0.3
25.1	42.5	2.84	51.6	0.3
25.5	47.7	3.15	60.3	0.3
18.5	55.4	3.22	66.3	0.4

17.5	52.3	3.17	70	0.3
12.9	44.5	2.81	67.9	0.3
12.7	41.7	2.63	62.1	0.3
16.5	50.9	2.96	69.7	0.3
10.9	44.3	2.79	61.2	0.3
8.6	45.9	2.8	62.6	0.3
8.4	48	3.02	68.3	0.3
7.2	48.9	2.87	64	0.3
7.5	51.5	3.12	62.1	0.3
6.6	45.5	2.9	56.9	0.4
6.1	40.1	2.91	60.5	0.5
5.4	45.7	3.12	69.8	0.3
3.9	53.7	3.1	75	0.3
2.9	45	2.79	71.2	0.3
9.2	24.8	2.23	61.1	0.4
25.7	22.1	2.17	53.2	0.3
36.1	30.3	2.43	51.5	0.4
22.4	30	2.17	35.1	0.3
29.9	33.1	1.4	45.6	0.3
18.7	49.9	2.75	44.4	0.3
14.5	58.6	2.94	45.5	0.3
14.9	51.6	2.65	36.9	0.4
14.8	50.6	2.7	30.3	0.6
15	45	2.57	31.6	0.5
15.7	46.9	2.61	30.7	0.4
17.9	56.4	3.24	37	0.4
15.7	57.3	3.35	41	0.2
16.3	65.4	3.36	49.3	0.2
16.6	64.3	3.42	51.2	0.3
16.7	55.2	3.22	41.2	0.5
17.9	43.4	2.9	27.6	0.5
18.2	49.9	3.46	36.2	0.5
16.7	53.7	3.91	32.8	0.5
17.2	65.7	3.88	41.6	0.3
18	70.1	3.52	37.1	0.3
17.5	69.9	3.97	45.6	0.2
16.31	58.46	3.63	48.51	0.25
19.56	54.96	4.23	39.07	0.29
16.3	51	4.08	30	0.3
15.8	56.7	4.69	37.2	0.3
15.8	50.5	4.92	30.8	0.4
14.7	52	5.07	29	0.3
16.6	56.2	5.59	30.8	0.3
18.4	62.8	4.8	32.8	0.4
18.4	57.5	4.03	35.2	0.4
17.2	55.1	3.6	43.4	0.4
19	54.6	3.87	35.5	0.5
18.3	51.2	3.27	35.3	0.4
17.7	58.5	3.79	34.1	0.3
17.5	49.4	3.29	33.5	0.3
16.3	58.8	3.46	36.8	0.3
16.6	68.3	3.15	48.5	0.3

15.9	56.7	2.81	54.7	0.3
16.6	35.9	2.9	42.4	0.6
16.8	42.6	2.55	35.4	0.4
17.1	54.3	2.47	37.1	0.4
17.1	57.9	2.57	44.4	0.4
17.8	50.8	2.41	48	0.3
18.2	51.1	1.84	47.3	0.3
16.8	53.9	1.8	50.8	0.3
17.2	54.2	1.76	31.2	0.3
16.8	55.3	1.68	32.9	0.3
17.3	60.5	1.81	36.8	0.3
17.9	53.1	1.76	39.1	0.3
17.2	58.7	1.85	36.4	0.3
16.5	48	1.62	34.9	0.4
17.3	49.7	1.62	40.7	0.4
17.3	52	1.47	44.2	0.4
16.9	62.9	1.76	38.7	0.4
16.9	46.7	1.94	36.1	0.3
16.8	48.9	1.78	35.9	0.4
17	44.4	1.55	35.3	0.5
17.7	52.5	1.69	35.6	0.6
18.5	47.6	1.84	43.1	0.5
17.4	47.4	1.78	40.9	0.4
18.1	48.1	1.74	39.4	0.4
18.6	53.3	1.55	39.9	0.3
18	59.4	1.92	36.9	0.3
18.5	47.4	1.71	42.1	0.3
18.2	44.3	1.64	41.9	0.3
17.4	44.8	1.72	37.7	0.3
17.5	48.6	1.6	36.5	0.3
16.6	38.9	1.83	35.9	0.5
17.4	40.4	1.71	38.1	0.5
17.8	42.6	1.78	39.7	0.6
18.2	49	1.59	36.3	0.4
17.5	48.7	1.8	40.6	0.4
17.1	48.4	1.83	43.4	0.3
17.6	46.4	1.67	27.3	0.3
17.3	31.5	1.73	25	0.4
18.4	39.3	1.64	29.5	0.5
18.4	55.1	1.82	41.2	0.4
17.9	37.7	1.81	31.1	0.3
18.3	29.9	1.89	32.4	0.4
18.1	34.9	1.92	36.6	0.4
19.9	51.3	2.19	25.5	0.4
19.1	47.8	2.1	31	0.5
20.1	48.8	2.21	35.5	0.5
22	51.4	2.42	36.7	0.3
24.2	56.5	2.23	38	0.3
21.63	46.61	1.51	47.76	0.34
22	59	1.54	40.7	0.4
23.5	50.8	1.58	53.2	0.3
22.2	45.8	1.55	40.9	0.3

18.1	22.5	1.27	29.8	0.5
16.6	31.6	1.16	14.8	0.3
16.5	44.1	1.15	17.7	0.3
16.5	25	1.16	18.3	0.3
17	23.5	1.19	18.2	0.5
17.1	26.8	1.2	29.6	0.4
17	27	1.19	17.9	0.3
17.5	29.4	1.22	23.9	0.3
17.5	35.4	1.22	20.4	0.3
17.2	33.2	1.21	24	0.4
18.2	37.1	1.27	21.7	0.4
17.5	31.1	1.23	35.2	0.4
17	24.7	1.19	17.1	0.3
17.2	21.7	1.2	13.8	0.5
17.4	17	1.22	17.1	0.5
17.3	24.4	1.21	58.3	0.4
17.7	32.2	1.24	67.8	0.3
17.5	20.1	1.23	71.6	0.4
17.8	20.6	1.25	72.8	0.5
18	23.2	1.26	70.6	0.5
18.1	37.7	1.27	67.3	0.5
18.2	26.8	1.28	73.8	0.4
17.9	29.9	1.31	86.6	0.4
17.7	23.3	1.25	72.1	0.3
18.4	21.2	1.29	73.9	0.5
17.1	26.7	1.2	89.6	0.4
17.2	31	1.21	79.4	0.3
17.2	29.5	1.2	77.9	0.3
17.5	29.8	1.22	74	0.3
17.6	25.8	1.23	70.9	0.4
17.8	26.3	1.25	72.5	0.3
17.9	59.2	1.25	72	0.4
17.9	36.8	1.25	75.4	0.3
17.9	28.9	1.18	79.9	0.3
18	33.5	1.34	81.4	0.2
17.8	33.1	1.32	78.9	0.2
18.2	26.5	1.73	73.8	0.2
18.1	26.2	1.61	89.2	0.2
19.7	23.8	1.63	90.8	0.2
24.4	21.7	1.66	90.6	0.2
24.6	21.6	1.68	94.3	0.2
24.6	18.3	1.73	94.5	0.2
25.1	16.6	1.8	88.9	0.2
25.1	20.7	1.98	86.8	0.2
23.1	25.9	1.94	89.4	0.2
18.9	26	2.12	101.3	0.2
19.1	25.9	2.2	103.3	0.3
19.2	30	2.28	105.4	0.3
19.5	36.4	2.34	105	0.3
19.3	26.6	2.28	102.9	0.3
19.1	18.6	2.22	99.1	0.3
19.1	18.6	2.15	102.1	0.3

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19.1	19.9	1.91	101.4	0.3
19.2	31.7	1.81	99.5	0.2
19.4	18.9	1.83	115.8	<Samp
19.2	18.9	1.73	139.1	0.2
19.1	21	1.72	126	0.2
19.2	23.1	1.73	118.6	0.2
19.4	23.8	1.65	119.9	0.2
19.7	26.1	1.77	123.3	0.2
20	31.2	1.8	115.2	0.2
19.8	32	1.78	116.7	0.2
19.5	23.8	1.75	116.2	0.2
19.4	40.5	1.75	114.7	0.2
19.7	33.3	1.77	113.4	0.3
19.7	23.2	1.77	116.3	0.2
19.7	21.6	1.77	116.9	0.2
19.7	22.4	1.7	114.2	0.2
19.8	20.4	1.62	106.3	0.3
19.8	21	1.63	105.2	0.2
19.9	23.2	1.64	107.1	0.2
20.2	24.1	1.66	111.8	0.2
20.4	19.9	1.8	109.9	0.2
19	16.2	1.53	118.9	0.2
13.9	15.1	0.95	114	0.2
13.3	13.6	1.16	122.2	0.2
13.1	10.2	1.46	133.4	0.3
13.2	7.7	1.75	126.8	0.2
13.3	9.5	1.9	139	0.2
13.5	11.5	1.98	139.9	0.3
13.7	17.1	2.03	122	0.3
13.7	34.8	2.16	128.3	0.3
13.3	22.5	2.3	128.3	0.3
13.9	20.7	2.4	127.7	0.2
15	14	2.49	127.3	0.3
18.7	16.5	2.89	122.8	0.4
19.4	13	2.89	119.6	0.3
19	17.4	2.8	124.5	0.3
18.2	13.7	2.53	128.2	0.2
19.5	12.5	2.73	128.3	0.3
19	10.8	2.82	121	0.3
18.5	9.7	2.79	115.2	0.2
24.2	12.8	3.16	110.9	0.2
18.2	38.4	2.21	115.7	0.2
18.8	40.5	1.69	108.9	0.2
22.5	32.5	2.02	115.2	0.2
21.6	23.6	1.95	114.3	0.2
19	18.7	1.71	118.4	0.3
17.9	8.6	1.61	124.6	0.2
18.5	7	1.66	124.9	0.2
21.6	9.3	1.94	113.7	0.2
20.7	17.1	1.86	111.7	0.2
20.6	18	1.85	110.9	0.2
19.6	20.2	1.76	111.6	0.2

19.3	16.7	1.74	111.9	0.2
19.6	15.7	1.77	108.6	0.5
24.9	15.2	2.14	105.4	0.2
26.5	15.9	2.12	111.2	0.2
22.9	16.1	1.84	104.1	0.2
19.9	15.1	1.59	105.3	0.2
19.5	15.1	1.57	106.4	0.2
19.5	14.5	1.59	106.5	<Samp
20.1	17	1.64	98.6	RS232
22.9	16.3	1.86	108.2	RS232
21.1	14	1.42	115.3	<Samp
16.1	21.7	0.89	119.2	0.2
12	35.5	1.61	117.9	0.2
14.2	31.6	1.95	117.2	0.3
15	19.7	2.29	115.8	0.2
14.3	18.1	2.32	115.2	0.2
19.8	18.4	2.76	113.6	0.2
15.7	18.1	2.74	114.7	0.2
15.3	16.5	2.88	114.9	0.2
15.8	20.2	2.95	113.8	0.2
15.4	20.86	3.11	112.22	0.24
15.6	24.1	3.17	115.7	0.2
14.7	24.1	3.3	112.4	0.2
15.7	24.7	3.39	111.9	0.2
17.6	26	3.58	113.7	0.4
19	21.6	3.4	111.9	0.1
18.9	21.2	3.47	110.5	0.1
19.9	22.8	3.59	108.5	0.1
18.9	15.8	2.99	115.2	0.2
18.3	15.5	2.43	115.1	0.2
18.9	15.5	2.3	117.8	0.2
19.1	12.4	2.46	117.4	0.2
18.8	12.7	2.46	116.8	0.2
19.3	15.5	2.73	117.1	0.5
19.9	18.2	2.71	118.1	<Samp
19.9	15.6	2.36	119.4	RS232
19	14.6	2.48	122	RS232
21.1	16.5	2.65	122.4	RS232
19.7	16.8	2.49	126.5	RS232
20.5	17.6	2.72	123.8	RS232
21	17.1	2.88	122.2	RS232
19.8	17.5	2.6	126.3	RS232
20.2	19.3	2.81	128.8	RS232
20	19.2	3.01	128	RS232
20.9	20.1	3	127.4	RS232
20.9	18.5	3.03	128.3	RS232
21.6	14.8	3.09	127.2	RS232
21.5	15.1	3.07	137.4	<Samp
20.1	14	3.02	140	0.4
20.2	14.7	2.99	134.7	0.6
20.3	14.7	2.98	130.1	0.5
22.5	17.7	3.1	122	0.4

21.8	19.5	3.25	161.3	0.4
19.9	21	3.29	178.1	0.5
19.7	21	3.23	206.6	0.4
19.8	20.4	3.23	206.7	0.4
19.8	19.4	3.26	212.5	<Samp
19.6	22.4	3.4	260.1	0.3
19.7	24.8	3.35	299.4	0.3
20.2	23.1	3.35	271.9	0.4
20.5	21.5	3.36	245.3	0.3
20.4	21.4	3.5	243.8	0.3
26.3	21.4	3.42	244.5	0.4
20.1	21.4	3.24	243.6	0.4
20.2	19.4	3.3	211	0.3
20.78	17.85	3.43	220.73	0.22
12.68	15.12	2.28	33.14	0.56
12.9	17.4	0.92	21	0.1
12.2	10.1	0.75	20.4	0.1
12.5	12.2	0.76	22.5	0.1
14.4	48.2	1.57	21.6	0.1
13.8	40.8	1.44	25.6	0.2
14.2	37.7	1.36	24.8	0.2
13	11.1	0.71	23	0.1
13.4	21.1	0.69	22.3	0.1
13.1	12.4	0.39	23.3	0.2
13.4	17.1	0.47	24.7	0.1
13.8	26.1	0.55	32.9	0.1
15.2	42.7	0.75	45	0.2
15.9	52.2	0.94	56.2	0.2
17	61.6	1.04	62.5	0.2
16.1	57.9	0.9	54.3	0.3
16.6	67.6	1.02	61	0.2
15.8	53.3	1.04	62.5	0.1
17.9	46.8	0.97	58.3	0.2
18.9	42.3	0.85	50.8	0.2
19.5	42.6	0.88	53	0.1
19.7	44.9	0.98	58.9	0.1
19.9	22.6	0.79	47.2	0.1
20.1	63	1.18	37.7	0.2
21.5	42.4	0.98	14.9	0.1
21.4	11.3	0.86	17.2	0.1
21.4	8.5	0.73	17.6	0.2
19.8	10	0.72	18.2	0.3
16.6	16.7	0.81	15.9	0.2
17.8	33.3	0.97	14.7	0.2
18.8	47.6	1.11	12.7	0.3
20.4	65.6	1.26	12.7	0.3
18.2	41.3	1.07	13.2	0.2
17.5	24.5	0.9	14.5	0.2
17.6	9.3	0.79	17.4	0.1
17.1	9.3	0.83	19.1	0.2
17.6	21.2	0.95	16.8	0.2
19.8	53	1.21	14.5	0.4

20.2	59.6	1.34	13.1	0.3
18.8	46.6	1.21	16	0.2
25	22.8	1.19	19.3	0.1
21.4	22.1	1.21	15.7	0.1
20.1	31.3	1.26	15.2	0.1
31	9.6	0.98	17.4	0.1
19.2	28.2	1.12	14.4	0.1
20.6	54.5	1.34	13.3	0.3
20.5	42.3	1.32	14.3	0.1
21.5	48	1.46	16.6	0.1
19.9	25	1.19	19.2	0.1
23.1	73.9	1.76	18.5	0.2
23	76.8	1.88	20.7	0.2
24.6	87.8	1.99	19.5	0.1
23.3	65.5	1.78	22.3	0.1
19.6	67.9	1.73	24.4	0.2
5	<Samp	<Samp	<Samp	0.1
7.1	<Samp	<Samp	<Samp	0.2
11.3	109.2	1.23	8.9	0.2
10	83	1.04	10.1	0.2
10	83.9	1.05	10.6	0.2
10.2	78.5	1.18	17.1	0.2
7.4	40.4	0.85	18.9	0.1
6.8	25.8	0.69	15.7	0.1
7.2	29.8	0.73	13.4	0.1
8.8	64.4	1	25.6	0.1
14.1	114.5	1.33	27.9	0.2
22.6	118.4	1.56	44.5	0.2
21	119.3	1.44	40	0.2
20.2	101.7	1.36	35.9	0.4
21.1	88.8	1.34	37.4	0.2
20.4	65.2	1.3	38.2	0.4
20.1	60.5	1.23	28.5	0.3
21	79.4	1.51	43.6	0.2
21.1	84.4	1.46	31.9	0.1
21	95.1	1.37	33.5	0.2
20.9	123.3	1.49	36.7	0.2
19.5	96.6	1.24	38.3	0.4
20.8	118.2	1.41	38.1	0.3
22	126.5	1.52	40.6	0.2
21.5	159.9	1.63	38.9	0.2
22.5	174.8	1.77	44.2	0.2
23.4	159.5	1.88	24.9	0.4
23.8	153	1.6	26.4	0.5
24.3	133.2	1.61	29.3	0.6
23.2	99.1	1.56	42	0.3
24	106	1.75	35.8	0.2
22.6	119.6	1.94	40.6	0.2
25.5	161.9	2.09	40.9	0.1
25.5	143.9	2	38	0.3
24.2	132.4	1.87	29.8	0.4
24.5	120.7	1.97	34.1	0.2

689

21.8	52.3	1.53	37.9	0.2
22.7	84.1	1.76	42	0.2
36	92.4	1.7	27.7	0.3
25.1	139.4	2.12	30.5	0.3
23.9	103.3	1.79	30.5	0.2
22.5	105.4	1.96	27.4	0.3
21.9	82.3	2.03	27.8	0.2
21.2	87.7	1.87	22.5	0.1
22.1	101.5	2.03	21.1	0.3
24.5	224.7	2.2	21.6	0.3
23.4	187.2	2.05	19.6	0.3
24.7	188.2	2.08	22.9	0.2
24.1	159.1	2.15	21.5	0.2
25.3	146.5	2.19	21.4	0.2
25.9	122.4	2.42	20.5	0.2
26.9	112.9	2.76	21.1	0.2
28.5	189.2	2.91	22.3	0.2
26.6	112.7	2.53	19.9	0.3
28.8	131	2.43	24.6	0.4
27.6	275.7	2.84	20.4	0.4
28.3	187.9	3.31	22.2	0.2
27.9	183.6	3.38	20.3	0.2
29.1	199.8	3.37	20.4	0.2
29.7	170.2	3.34	21	0.2
30.5	165.9	3.63	21.1	0.1
25.1	118.3	3.02	17.2	0.2
26.4	115.2	3.03	19.9	0.2
29.3	141.7	3.16	20.9	0.2
30.3	149.3	3.52	20.8	0.2
26.7	91.9	3.06	20.8	0.4
27.1	85.8	3.17	21.9	0.2
28.1	82	3.4	22.6	0.2
26.1	36.5	2.96	21.7	0.2
27.9	28.1	2.75	21.3	0.2
34.3	38.3	3.15	22.4	0.2
25.1	25.6	3.16	20.5	0.1
26.2	31.9	3.05	20.7	0.3
26.9	47.5	3.24	21.8	0.2
31.2	55.3	3.58	21.6	0.2
29.1	56.4	3.65	17.8	0.3
25.8	44.3	3.12	22.4	0.2
26.7	53.6	2.88	19.1	0.3
29.9	69	3.34	19.1	0.2
32.1	75.4	4.01	21.4	0.2
28.9	63.2	3.62	18.9	0.2
25.4	50.8	3.13	23.5	0.3
27.6	55.5	3.16	22.6	0.2
29.5	56.1	3.14	22.7	0.3
34.4	59	3.65	24.2	0.1
27.8	57.7	3.74	23.1	0.2
26.3	51.7	3.57	24	0.2
27.3	55.6	3.51	22.5	0.2

690

29.1	61.2	3.45	24.6	0.2
27.3	261.8	3.54	23.1	0.2
29.9	267.1	3.61	23.1	0.4
33.3	80.1	3.87	21.4	0.2
35.6	28	4.12	21.9	0.1
29.2	27.3	3.75	17.1	0.2
30.8	204.5	3.31	18.2	0.2
<Samp	37.9	<Samp	<Samp	<Samp
30.4	50.2	3.27	19.2	0.3
34.6	107.5	4.08	20.1	0.4
34.3	71.9	3.85	21.7	0.4
36.7	86	4.06	19	0.3
38	49.9	3.32	21.1	0.7
39.8	70.2	4.03	22.8	0.4
43.7	93	4.35	22.5	0.3
43	116.6	4.51	19.7	0.3
43	87.9	4.6	20.2	0.4
42.1	62.7	4.58	23.9	0.3
40.1	62.2	4.96	20.4	0.2
36.4	42.3	4.7	15.9	0.2
34.2	53.8	5.39	14.2	0.2
31.6	37.2	4.9	11.6	0.2
31.8	37.4	4.48	14.1	0.3
31.1	29.6	4.21	14.2	0.3
30.6	32.8	4.28	16.9	0.4
31.6	40.4	4.47	19.2	0.9
29.9	32.7	4.27	16.6	0.5
29.6	40.8	4.25	16.3	1.8
26.9	35.3	4.29	11.1	0.3
21.1	22.1	3.85	13.7	0.2
20	49.1	4.6	8.2	0.4
18.3	38.1	4.26	14.2	0.4
18.5	44.5	4.11	12.3	1.1
17.7	44.7	4.3	15.8	9.2
15.8	49.9	4.66	20.7	13
13.5	37.1	4.51	15.1	8
11.3	19	3.81	13.7	1.9
10.8	27.4	4.05	11.5	0.3
11.1	26.3	4.13	18.7	0.2
12.3	38.1	4.66	17	1
11.5	33.8	3.69	14.4	3.6
10.7	22.2	1.7	13.9	6.7
10.5	16.7	1.55	17.9	0.1
10.8	16.8	1.52	20.9	0.2
12.1	33.7	1.74	16.1	0.3
13.6	45.1	1.91	18.7	0.3
13.8	51.1	2.12	17.2	0.4
14	49	2.28	14.4	0.2
12.8	37.6	2.17	14.6	0.2
11.6	26.4	1.9	13.4	0.2
11.6	25.4	1.91	14.8	0.2
11.6	65.9	2.03	18.8	0.2

691

11.2	30.4	2.07	16.6	0.3
11	26.1	2	15.1	0.2
11.4	42.7	2.18	14	0.2
11.5	20.1	2.28	17.8	0.3
13.4	31.2	2.72	19.6	0.2
12.1	24.8	2.31	19	0.2
12.7	28.1	2.43	16.8	0.3
12.7	23.3	2.31	17.9	0.2
12.4	32.5	2.09	17.6	0.3
11.8	83	1.91	15	0.4
12.9	63	2.31	21.5	0.3
12.2	26.6	2.01	21.1	0.2
11.3	26.8	2.1	11.1	0.2
9.2	21.9	1.91	9.6	0.3
8.7	31.4	2.01	8.9	0.2
8.8	28.8	2	10.4	0.2
9.2	36.7	2.03	12.8	0.3
9.3	36.6	2.04	13.6	0.3
9.2	27.2	1.97	16.2	0.2
9.3	26.8	1.97	14.1	0.5
9.6	37.7	2.04	17.3	0.8
9.6	25.1	2.01	21.2	1.3
9.4	17.4	1.89	17.6	0.2
9.7	28.7	1.97	15.7	0.2
9.5	28.4	1.99	13.9	0.5
9.8	31.3	2.07	14.7	0.3
10.1	40.3	2.27	20.3	0.2
10.2	55.6	2.22	17.3	0.1
9.6	36	2.07	15.3	0.1
9.7	31.7	2.05	13	0.1
9.9	40.3	2.07	14.4	0.1
10	27.3	2.04	15	0.1
10.2	49.1	2.13	12.3	0.2
10.3	52.2	2.11	13.2	0.2
10.4	57.3	2.15	14.3	0.2
10.4	53.1	2.25	13.1	0.2
10.4	48.2	2.28	12.5	0.1
10.6	49.8	2.33	14.8	0.2
10.8	32.4	2.28	13.8	0.1
10.8	27.8	2.2	12.7	0.1
10.8	38.8	2.18	9.3	0.1
10.9	39.8	2.21	9.3	0.2
10.9	37.3	2.29	10.1	0.2
11.3	73.3	2.56	16	0.4
11.2	67	2.6	19.5	0.2
11.4	70.8	2.61	21.6	0.2
11	58.8	2.55	18.2	0.2
10.9	39.3	2.42	13.1	0.2
11	47.5	2.48	11.6	0.2
11	31.6	2.39	9.2	0.2
38.01	2.38	8.83	0.14	32.19
32.81	2.34	8.76	0.14	32.24

692

32.41	2.34	7.53	0.15	32.14
35.59	2.36	7.12	0.16	32.17
27.82	2.32	6.79	0.42	31.92
44.44	2.4	7.07	0.17	32.42
45.43	2.45	7.41	0.23	32.41
48.64	2.45	6.93	0.23	32.27
32.7	2.39	6.73	0.2	32.54
74.67	2.64	8.3	0.23	33.76
44.29	2.64	8.52	0.13	33.25
25.22	2.54	13.74	0.17	32.88
21.44	2.47	11.08	0.18	32.7
18.57	2.44	12.96	0.15	32.59
31.77	2.45	11.44	0.16	32.63
32.56	2.47	11.31	0.2	32.69
23.24	2.46	9.86	0.18	32.55
23.04	2.48	7.85	0.25	32.35
30.1	2.49	8.04	0.21	32.63
35.57	2.5	8.88	0.21	32.68
29.59	2.49	9.43	0.23	32.67
37.14	2.52	11.85	0.26	33.79
29.11	2.5	12.14	0.12	33.41
23.66	2.47	11.91	0.09	32.89
21.2	2.44	11.54	0.1	32.48
22.52	2.42	11.52	0.1	32.63
33.9	2.44	11.12	0.14	32.86
29.6	2.46	9.98	0.11	32.85
20.19	2.44	10.17	0.11	33.08
21.58	2.44	11.66	0.15	33.39
43.3	2.53	11.52	0.16	33.37
20.11	2.43	11.07	0.12	33.47
20.53	2.44	10.3	0.14	33.29
20.12	2.44	10.05	0.1	33.13
20.41	2.44	10.78	0.11	33.26
20.87	2.46	10.84	0.14	33.3
22.47	2.49	11.19	0.17	33.75
26.42	2.53	13.54	0.1	32.8
21.38	2.51	13.29	0.13	33.24
23.27	2.49	12.06	0.19	33.64
23.86	2.5	10.98	0.19	33.56
21.8	2.49	10.87	0.22	33.72
32.53	2.53	10.48	0.24	33.7
51.39	2.55	8.86	0.34	34.78
51.6	2.56	8.84	0.3	34.04
46.6	2.53	8.94	0.31	33.54
43.66	2.54	10.03	0.3	32.08
24.71	2.46	10.09	0.4	32.02
25.18	2.45	9.89	0.57	31.84
51.7	2.6	10.03	0.37	30.64
24.91	2.46	11.64	0.5	31.58
26.08	2.46	14.56	0.46	32.5
29.34	2.49	15.42	0.4	32.01
23.25	2.45	13.98	0.57	32.71

693

22.4	2.46	13.29	0.57	32.71
21.81	2.45	12.47	0.53	32.84
18.77	2.48	12.34	0.5	32.7
11.5	2.47	12.88	0.41	32.7
11.63	2.48	11.02	0.44	32.67
11.77	2.49	11.07	0.28	32.95
11.64	2.49	11.82	0.17	32.94
11.64	2.49	11.68	0.16	32.91
11.6	2.48	11.39	0.18	33.18
11.24	2.46	9.84	0.27	33.07
40.61	2.43	10.92	0.23	35.12
29.68	2.86	16.61	0.34	28.17
56.43	2.79	14.36	0.07	27.1
70.11	2.78	14.22	0.1	29.5
41.19	2.7	13.35	0.19	31.51
33.63	2.53	11.12	0.27	31.98
34.66	2.54	16.16	0.09	29.35
35.37	1.21	18.17	0.09	28.8
41.72	1.27	20.72	0.06	28.37
42.9	0.84	17.91	0.19	28.04
43.46	0.63	16.33	0.42	27.44
45.67	0.78	17.77	0.16	26.63
46.26	0.91	19.15	0.2	27.59
36.78	0.66	16.6	0.35	30.47
36.79	0.66	18.43	0.2	27.55
40.02	0.55	18.57	0.53	28.21
42.92	0.57	20.16	0.68	29.39
45.81	0.6	23.77	0.63	29.76
50.44	0.62	20.02	0.59	30.7
46.03	0.64	25.03	0.33	30.59
47.69	0.67	17.41	0.23	29.86
43.61	0.73	21.86	0.34	30.03
45.53	0.79	21.6	0.32	29.26
38.85	0.7	27.33	0.45	30.72
20.18	0.65	30.28	0.31	30.79
20.45	0.73	31.88	0.26	31.07
22.89	0.7	32.95	0.19	28.68
20.55	0.59	32.48	0.25	28.47
17.25	0.52	32.62	0.3	28.66
19.45	0.57	28.79	0.2	28.61
17.75	0.46	29.06	0.2	26.58
13.56	0.49	27.27	0.31	28.4
15.93	0.46	20	0.28	28.08
18.5	0.59	19.5	0.3	28.12
18.79	0.64	27.82	0.26	27.37
35.82	0.62	30.3	0.3	28.49
49.81	0.64	26.32	0.32	28.44
41.02	0.61	44.74	0.29	29.31
37.76	0.61	51.4	0.31	29.58
34.36	0.74	49.35	0.18	29.2
43.07	0.74	39	0.14	30.16
34.68	1.12	47.12	0.71	30.15

694

18.9	42.45	0.73	46.97	0.24
19.09	49.22	0.72	46.33	0.32
20.9	47.03	0.74	42.54	0.37
21.65	51.33	0.76	37.56	0.51
20.52	49.53	0.78	42.29	0.42
19.82	45.08	0.79	41.34	0.23
20.5	59.11	0.94	38.73	0.37
22.46	66.67	1.01	37.87	0.13
25.06	52.35	0.87	32.26	0.09
24.44	106.73	0.94	57.27	0.13
25.16	114.92	1.31	72.49	0.12
24.2	112.92	1.13	52.7	0.12
25.92	145.03	1.48	40.83	0.42
85.82	0.87	35.93	0.18	29.87
68.7	0.87	30.13	0.2	28.04
76.88	0.85	26.98	0.19	28.23
74.7	0.97	43.9	0.27	28.19
97.2	1.27	45.07	0.09	29.43
62.74	1.04	44.92	0.27	29.83
67.18	1.02	45.21	0.18	27.5
43.09	0.89	46.57	0.19	27.48
51.48	0.94	45.72	0.16	27.66
42.36	0.9	37.74	0.21	28.91
37.88	0.89	36.69	0.32	30.06
70.08	1.03	155.52	0.12	28.4
51.18	0.72	34.97	0.14	30.17
50.44	0.73	34.71	0.17	30.55
50.85	0.75	34.7	0.22	29.78
52.75	0.79	34.53	0.21	28.72
61.09	0.86	34.31	0.2	28.86
53.7	0.83	34.4	0.14	29.61
54.15	0.84	34.73	0.23	30.18
48.29	0.84	34.35	0.1	29.99
53.73	0.87	34.01	0.19	30.22
67.78	0.94	34.06	0.25	30.14
79.87	1.06	33.68	0.26	30.5
71.26	1.06	33.95	0.29	29.86
95.47	1.27	34.82	0.1	29.57
75.5	23.05	23.37	13.84	17.43
23.06	62.21	1.07	37.82	0.14
24.15	100.89	1.27	41.7	0.16
23.3	88.06	1.22	35.92	0.16
23.54	111.37	1.33	27.02	0.11
22.83	89.13	1.23	29.65	0.22
23.4	88.68	1.23	35.84	0.29
24.02	89.7	1.4	31.37	0.18
26.26	84.94	1.47	32.35	0.15
26.99	97.93	1.51	32.94	0.13
25.36	78.79	1.46	32.06	0.24
25.6	69.93	1.48	38.73	0.35
24.85	101	1.61	43.37	0.18
25.01	90.98	1.59	44.08	0.19

695

24.85	90.06	1.51	47.61	0.27
26.66	116.74	1.48	38.7	0.18
29.43	109.16	1.63	35.15	0.59
28.29	127.51	1.47	33.53	0.29
28.41	151.63	1.64	39.81	0.08
29.19	74.22	1.48	43.27	0.25
13.86	33.49	8.92	18.83	1.06
33.35	79.21	1.81	38.71	0.08
33.85	91.61	1.72	48.08	0.19
32.35	252.91	1.57	48.97	0.11
29.63	144.87	1.4	49.76	0.26
27.89	197.82	1.37	50.61	0.04
28.15	190.78	1.45	51.02	0.14
30.02	92.13	1.54	53.91	0.3
30.85	32.06	1.49	56.62	0.16
30.79	40.42	1.63	53.04	0.12
29.94	44.31	1.62	51.48	0.08
29.48	40.13	1.51	55.11	0.23
30.42	46.75	1.49	57.77	0.25
32.2	64.78	1.65	51.25	0.26
32.61	54.57	1.46	52.25	0.29
32.79	73.78	1.59	47.18	0.19
32.05	136.86	1.66	43.04	0.49
30.71	156.85	1.6	48.25	0.44
29.56	201.01	1.72	51.02	0.17
30.63	224	1.7	61.42	0.28
30.82	180.97	1.82	60.24	0.28
31.71	170.05	1.74	60.52	0.23
32.18	96.61	1.55	58.15	0.23
31.49	81.88	1.91	34.49	0.31
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
9.76	58.17	0.72	67	0.2
10.4	61.04	0.79	80.48	0.25
11.92	47.21	0.69	73.46	0.46
11.25	40.05	0.73	91.17	0.31
8.1	41.48	0.88	74.06	0.16
6.77	44.42	0.61	63.68	0.18
8.09	43.08	0.68	61.7	0.36
9.76	168.03	0.89	63.66	0.39
9.9	88.25	0.79	63.9	0.51
NoData	NoData	NoData	NoData	NoData
6.36	49.62	0.55	76.28	0.18
7.85	37.27	0.69	78.19	0.2
6.69	54.13	0.69	85.41	0.22
9.45	37.61	0.82	88.56	0.2
8.67	42.02	0.75	98.03	0.19
6.98	43	0.61	125.89	0.14
7.06	53.27	0.82	103.47	0.16

8.24	59.64	0.99	96.05	0.22
8.48	61.13	0.88	95.83	0.42
8.98	51.76	0.9	98.83	0.36
9.76	38.04	1.18	71.91	0.24
10.15	31.69	1.28	61.68	0.18
9.3	27.03	1.35	52.85	0.1
10.18	25.47	1.17	48.22	0.19
11.48	29.29	0.95	39.92	0.31
10.08	31.88	1.09	48.56	0.2
10.03	29.7	1.05	58.67	0.23
9.26	27.03	0.98	71.79	0.2
11.19	27.89	1.06	48.13	0.34
11.27	24.91	1.11	60.28	0.4
10.4	25.92	1	66.89	0.2
11.19	28.43	1.2	56.01	0.23
8.44	29.2	1.27	54.91	0.11
6.24	34.6	1.32	52.43	0.12
5.66	30.49	1.24	50.4	0.1
5.31	27.04	0.86	32.82	0.09
7.55	30.66	0.82	15.79	0.15
NoData	NoData	NoData	NoData	NoData
11.28	26.12	1.36	47.26	0.13
11.59	24.83	1.1	27.41	0.34
11.85	24.52	1.25	21.67	0.47
12.78	25.4	1.13	52.09	0.42
12.83	25.29	1.1	69.33	0.27
9.99	27.64	1.07	75.57	0.2
10.27	25.95	1.38	49.94	0.2
12.05	26.23	1.69	45	0.17
11.11	26.23	1.62	49.69	0.1
11.33	26.32	1.77	49.92	0.13
10.74	26	1.68	48.32	0.16
11.11	25.48	1.5	39.05	0.34
12.57	27.26	1.21	57.21	0.43
13.53	27.22	1.31	51.83	0.35
13.12	27.34	1.39	55.6	0.25
10.52	27.4	1.53	69.4	0.11
9.29	26.84	0.83	67.59	0.16
10.1	27.3	1.33	71.17	0.14
9.12	26.05	1.49	57.88	0.12
9.58	26.09	1.5	55.51	0.13
10.22	25.94	1.7	50.05	0.25
9.76	25.16	0.86	41.16	0.45
10.48	26.47	1.12	56.38	0.17
11.09	27.05	1.51	61.59	0.13
13.42	27.58	2.02	57.42	0.17
14.26	27.18	1.45	47.52	0.35
13.99	27.93	1.81	59.62	0.19
12.19	27.66	1.6	64.67	0.13
13.52	28.38	1.62	68.34	0.15
17.02	29.31	1.91	64.25	0.16
13.86	28.5	2.04	68.46	0.18

697

12.9	27.84	2.15	63.95	0.14
12.14	27.1	1.51	57.07	0.19
12.11	27.24	1.49	59.15	0.27
12.52	27.88	1.79	66.23	0.23
10.46	26.75	1.27	60.45	0.15
9.77	25.41	1.09	44.66	0.24
10.87	25.04	1.04	34.03	0.16
10.46	24.27	1.03	24.9	0.31
10.36	26.55	0.85	58.87	0.36
10.88	26.55	1.33	55.44	0.28
10.53	26.27	1.48	53.2	0.27
10.36	26.91	0.99	63.21	0.31
10.66	27.21	0.97	65.97	0.32
10.6	26.41	1.29	54.83	0.21
10.41	26.32	1.35	54.48	0.19
11.54	25.75	1.84	40.72	0.18
13.87	27.3	1.7	51.19	0.4
13.37	27.16	2.28	51.74	0.13
11.19	26.09	1.55	48.18	0.18
14.6	28.23	2.22	60.88	0.14
15.91	29.14	2.74	67.24	0.17
16.27	28.91	2.66	62.19	0.21
15.46	28.63	2.27	62.59	0.09
12.29	27.58	1.53	63.1	0.19
11.91	26.73	1.45	52.86	0.35
15.49	28.21	1.87	56.05	0.26
15.28	28.48	1.91	60.95	0.25
14.24	27.61	2.22	53.82	0.14
13.75	27.84	1.8	59.56	0.19
13.44	28.15	1.72	65.56	0.14
12.51	28.05	1.51	68.7	0.18
12.45	26.04	1.34	40.35	0.17
12.26	25.5	1.57	33.54	0.23
11.77	26.26	1.18	47.07	0.15
11.9	25.1	1.36	29.63	0.05
11.63	25.21	1.09	32.58	0.04
12.41	25.48	1.47	32.56	0.03
14.81	26.86	2.28	40.38	0.08
15.68	27.6	2.13	46.51	0.09
19.74	28.9	2.84	44.7	0.06
12.82	26.69	1.39	48.79	0.24
12.72	26.47	0.92	45.21	0.09
13.48	26.85	0.89	46.82	0.06
13.1	26.83	1.01	48.33	0.04
12.15	25.33	1.1	31.65	0.1
12.06	24.88	0.76	25.74	0.3
11.69	27.23	0.66	61.07	0.06
14.35	27.15	1.15	46.75	0.09
15.01	27.36	1.28	46.42	0.08
16.28	29.16	1.62	65.79	0.03
17.32	30.18	3.6	75.06	0.03
15.45	27.46	1.66	45.77	0.02

13.69	27.03	1.51	48.29	0.03
8.74	43.82	1.35	43.18	0.06
9.89	170.38	1.18	19.34	0.02
7.73	150.33	1.34	22.73	0.04
6.68	145.76	1.03	25.82	0.14
6.53	157.15	1.04	14.54	0.05
6.22	93	0.91	15.37	0.05
4.17	80.44	0.71	9.29	0.03
5.47	73.79	1.56	7.82	0.03
5.58	151.49	0.96	20.69	0.08
6.89	132.71	1.68	15.6	0.06
7.58	234.14	1.96	21.56	0.09
9.99	232.17	1.99	23.63	0.04
8.73	170.8	2	25.31	0.01
7.4	124.27	1.11	15.43	0.01
7.05	58.54	0.46	102.83	0.02
6	121.79	1.1	12.97	0.03
8.94	139.96	1.3	21.41	0.07
5.32	71.69	0.63	9.35	0.03
5.04	91.06	0.63	8.75	0.03
5.38	84.38	0.55	8.7	0.13
5.69	99.29	0.73	7.19	0.04
7.32	95.25	0.78	11.72	0.04
6.87	100.5	0.8	16.12	0.04
7.63	147.08	1.35	15.83	0.07
6.77	88.67	1.16	10.58	0.06
6.34	73.26	1.01	9.31	0.05
6.55	81.05	1.15	11.23	0.03
6.65	64.03	1.19	8.02	0.03
6.18	83.28	0.95	13.72	0.08
6.74	101.9	1.12	13.96	0.07
6.13	87.65	1.03	13.26	0.03
6.11	79.92	0.62	16.53	0.06
6.25	70.1	0.79	11.76	0.06
6.7	50.22	0.86	10.47	0.02
6.4	55.19	0.73	14.23	0
6.95	67.78	0.8	12.08	0.03
7.4	70.15	1.09	10.11	0.03
8.22	15.32	1.24	12.7	0
7.9	31.22	0.99	18.62	0.03
8.08	25.7	1.1	18.8	0.03
8.07	25.59	1.14	14.27	0.03
8.55	25.62	1.23	13	0.03
8.17	28.69	1.07	9.66	0.02
8.22	28.13	1.29	12.84	0.04
8.07	28.16	1.22	11.1	0.03
8.03	28.19	1.19	12.2	0.03
8.4	28.13	1.34	13.13	0.04
8.34	28.47	1.29	13.36	0.05
8.61	91.85	1.18	8.52	0.04
8.9	83.54	1.07	12.63	0.02
8.5	28.97	1.07	9.93	0.04

699

8.64	28.8	1.29	11.1	0.02
8.43	29.01	1.32	11.25	0.03
7.84	29.49	1.18	13.07	0.03
8.22	30.88	1.25	15.62	0.03
8.13	33.46	1.2	14.41	0.05
8.66	31.62	1.25	12.39	0.03
8.79	27.97	1.43	10.66	0.03
8.86	27.96	1.23	18.68	0.03
9.42	110.79	0.99	16.71	0.03
8.88	27.7	0.99	12.07	0.03
9.12	27.83	1.11	15.45	0.03
8.7	27.93	1.06	20.76	0.03
8.96	27.9	1.17	10.1	0.03
8.6	27.96	1.02	8.18	0.01
9.08	26.79	1.11	11.12	0.03
9.26	23.05	1.27	15.91	0.03
9.62	23.12	1.25	14.35	0.03
9.45	23.14	1.16	15.24	0.02
9.05	23.28	1.04	19.66	0.03
9.57	23.19	1.11	15.94	0.02
9.71	23.12	1.12	17.13	0.04
9.65	23.12	1.16	18.43	0.05
9.55	23.23	1.18	16.94	0.05
9.71	23.37	1.31	15.5	0.03
9.94	23.45	1.37	12.15	0.03
9.68	23.55	1.31	12.51	0.02
10.07	23.41	1.34	9.99	0.06
10.59	23.47	1.4	10.11	0.05
10.5	23.52	1.39	11.37	0.12
10.52	23.57	1.43	10.98	0.02
10.46	23.5	1.35	11.79	0.05
10.65	23.52	1.39	12.31	0.05
10.5	23.78	1.47	13.12	0.01
10.72	23.69	1.39	13.57	0.03
11.8	108.51	1.22	9.93	0.03
11.96	37.82	1.46	12.59	0.03
11.7	23.83	1.54	14.1	0.04
11.78	28.07	1.56	12.85	0.04
12.08	23.05	1.66	14.2	0.02
12.08	23.34	2.03	10.7	0.07
12.38	22.96	1.83	9.53	0.04
12.09	23	1.76	10.49	0.04
12.06	23.05	1.71	10.69	0.04
12.29	23.02	1.74	11.45	0.06
12.37	22.95	1.74	11.92	0.02
12.06	23.02	30836.63	11.71	0.08
12.4	23.04	74394.93	11.87	0.05
12.9	23.01	17611.43	11.2	0.06
13.15	22.99	0.95	11.15	0.11
12.9	26.7	0.91	11.65	0.02
16.54	23.41	0.67	14.15	0.08
17.84	23.23	0.57	16.43	0.19

700

18.9	16.61	0.54	15.45	0.19
19.24	18.88	0.53	19.72	0.15
20.09	18.87	0.5	16.24	0.13
20.59	18.86	391.53	20.13	0.29
20.99	18.85	0.69	13.92	0.17
21.63	18.95	0.75	13.43	0.11
19.93	18.98	0.72	14.02	0.07
16.02	18.97	0.69	14.65	0.06
15.98	19.05	0.65	15.62	0.05
16.48	19.02	0.73	14.76	0.05
17.19	19.05	0.8	12.78	0.05
16.91	19.03	0.71	14.1	0.06
17.41	19.02	0.72	14.06	0.04
17.46	19.05	0.71	14.18	0.04
17.86	19.1	0.72	14.09	0.08
17.6	19.24	0.64	15.61	0.07
18.14	19.22	0.61	16.61	0.11
18.02	19.25	0.66	15.46	0.13
18.28	19.25	0.74	14.21	0.09
18.43	19.25	0.75	13.47	0.05
18.53	19.28	0.7	14.5	0.08
18.99	19.29	0.64	16.05	0.09
18.66	19.38	0.63	16.23	0.05
19.05	19.28	0.65	15.67	0.04
19.2	19.26	0.67	15.02	0.04
19.39	19.31	0.64	15.82	0.06
19.72	19.41	0.61	16.84	0.12
19.84	19.37	0.66	15.39	0.09
20.21	19.4	0.64	15.78	0.12
20.38	19.56	0.57	17.64	0.1
20.83	20.2	0.61	16.79	0.11
21.19	22.46	0.59	17.57	0.08
21.33	27.66	0.63	16.74	0.04
21.32	19.85	0.71	14.69	0.04
21.44	19.92	0.65	16.06	0.05
21.42	19.91	0.71	14.83	0.06
21.36	19.81	0.7	14.42	0.1
21.51	19.7	0.72	14.06	0.1
21.5	19.71	0.68	14.95	0.12
21.51	19.99	0.6	17.2	0.09
21.7	30.37	0.67	16.17	0.07
21.96	27.44	0.78	13.2	0.05
21.77	19.74	0.8	12.61	0.04
21.82	19.89	0.77	13.13	0.05
21.99	20.13	0.77	13.14	0.04
21.95	19.93	0.71	14.24	0.05
22.02	19.97	0.76	13.34	0.04
22.87	22.51	0.8	12.46	0.04
22.81	19.18	0.79	12.71	0.01
22.89	19.09	0.79	12.79	0.08
23.39	19.1	0.87	11.57	0
25.25	20.62	0.88	11.64	0.14

701

27.59	17.97	0.85	12.17	0.06
28.84	20.18	0.82	12.23	0.08
28.92	24.61	0.84	12.04	0.01
22.37	49.98	0.84	12.24	0.04
16.29	64.59	0.85	12.17	0.03
16.19	70.13	0.82	12.56	0.04
17.06	76.17	0.86	12.11	0.06
18.32	56.18	0.85	12.37	1.85
18.48	48.68	0.8	13.14	0.03
18.39	31.76	0.82	14.54	0.02
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18.39	14.33	0.65	16.5	0.13
19.8	105.36	0.77	14.92	0.24
19.25	64.59	0.79	13.03	0.13
18.88	59.03	0.81	12.6	0.19
19.26	53.32	0.78	13.01	0.12
19.2	39.47	0.65	48.7	0.1
19.31	47	0.57	19.5	0.15
19.52	51.34	0.64	16.14	0.14
20.06	54.03	0.58	17.93	0.31
19.93	50.22	0.57	18.1	0.11
19.84	40.04	0.59	17.37	0.2
19.79	32.89	0.53	19.32	0.16
20.16	53.91	0.5	21.77	0.17
20.14	50.82	0.53	16.71	0.16
20.66	70.69	0.65	15.85	0.03
20.8	64.83	0.62	19.59	0.11
20.56	54.02	0.77	17.45	0.24
20.58	49.79	0.78	17.32	2.94
21.88	34.47	0.81	16.62	4.19
24.67	24.84	0.72	18.95	0.14
24.86	37.88	0.86	15.33	0.19
24.33	10.71	0.81	16.24	0.24
24.36	10.89	0.78	16.82	0.17
24.65	14.69	0.75	17.66	0.25
24.65	27.6	0.82	16.56	0.13
24.82	18.78	0.82	15.83	0.18
25.12	30.83	0.86	15.38	0.16
25.57	36.03	0.87	15.24	0.17
25.96	41.15	0.78	16.92	4.77
26.36	56.99	0.75	17.58	2.6
26.49	65.16	0.72	19.41	0.18
26.37	56.49	0.71	19.4	0.39
26.45	57.94	0.69	23.73	0.4
27.03	71.69	0.8	26.36	0.27
27.42	96.43	0.92	21.55	0.23
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702

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27.43	33.8	0.86	22.07	0.21
27.6	35.48	1.04	18.57	0.29
27.91	46.31	1.06	18.09	0.46
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29.19	62.36	0.82	24.62	0.23
29.71	93.96	0.9	23.53	0.15
30	99.3	0.78	27.23	0.32
30.09	107.51	0.84	25.29	0.29
29.3	69.58	0.77	29.87	0.24
29.1	69.13	0.85	24.33	0.31
29.51	80.55	0.77	30.68	0.11
30.72	124.05	0.76	29.77	0.37
32.64	113.26	0.71	33.23	0.2
46.89	96.38	0.65	32.92	0.32
53.86	81.73	0.77	33.5	0.11
43.82	97.18	0.86	38.8	0.17
31.26	77.56	0.67	26.94	0.26
31.68	84.97	0.67	30.07	0.25
31.1	84.54	0.68	34.36	0.29
32.09	106.69	0.66	33.46	0.15
32.98	136.99	0.65	22.83	0.13
32.91	98.2	0.64	34.74	0.31
33.69	101.81	0.63	29.57	0.46
34.37	92.19	0.61	30.04	0.31
34.44	104.46	0.61	36.64	0.47
33.78	136.12	0.62	35.45	0.18
34.17	154.72	0.62	37.16	0.21
33.31	128.8	0.63	36.58	0.18
33.83	142.02	0.62	29.17	0.41
34.35	146.86	0.73	26.09	0.21
35.28	134.67	0.8	35.66	0.28
35.42	161.78	1	30.5	0.18
36.1	151.53	1.32	24.02	0.3
36.38	123.25	1.16	24.69	0.36
35.65	111.18	0.83	26.05	0.65
35.43	109.07	1.08	31.16	0.29
35.66	118.34	1.04	30.76	0.31
35.51	127.28	1.14	29.98	0.44
36.03	127.11	1.15	29.67	0.07
36.24	123.81	1.03	32.19	0.17
38.93	159.96	1.21	20.89	0.28
38.24	151.63	1.29	17.34	0
36.89	134.59	5.74	29.88	0.3
36.7	141.3	1.03	22.2	0.4
34.9	185.1	0.72	21.3	0.4

703

34.6	130	0.73	24.7	0.4
34.7	118.2	1.42	22.3	0.3
34.7	134.1	0.62	25.9	0.1
36	178.2	1.13	29	0.1
36.5	98.7	1.34	34.1	0.2
37.7	92.5	1.55	32	0.1
38.4	127.5	1.92	37.9	0.2
38.2	90	1.89	33.9	0.2
38.1	86.4	1.79	35.2	0.2
38	87.1	1.93	42	0.1
36.4	84.1	1.8	40.1	0.2
34.4	107.4	1.96	35.7	0.2
36	142.3	2.3	28.8	0.3
36	127.6	2.29	32.1	0.3
36.5	112.1	2.28	27.7	0.2
37.4	117.2	2.47	35.4	0.2
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41.5	114.7	2.95	39.9	0.2
39.9	98.2	3.02	32.6	0.1
37.6	95	3.06	38.2	0.2
40.6	112.1	2.92	40.6	0.2
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44.7	101.6	3.64	28.8	0.2
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8.9	70.6	1.26	24.4	0.5
12.6	86.1	1.35	30.6	0.4
10.4	87.7	1.59	32.5	0.3
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17.7	117.4	2.71	32.8	0.2
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10.8	49.9	2.24	31.5	0.2
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6.8	47.7	2.08	36	0.1
7.9	52.7	2.18	31.9	0.2
6.8	54.2	1.91	25	0.1
10	13.4	1.7	15.2	0.2
10.7	15.2	2.16	13.6	0.2
4.4	5.5	1.46	24.1	0.2
6.7	7.8	1.47	28.6	0.3
12.6	13.8	1.55	35.2	0.3
11.6	14.1	1.51	40.6	0.2
4.8	7.4	1.1	36.4	0.3
5.5	13.6	1.23	34	0.3

704

7.4	12.1	1.46	30	0.5
5.4	14	0.94	32.4	0.3
4.5	14.7	0.61	31.5	0.3
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6.5	23.1	0.82	32	0.3
9.7	32.8	0.84	29.6	0.4
10	33.5	0.76	39	0.5
10.4	34.8	0.79	31.7	0.8
12.4	40.8	0.8	36.3	0.6
12.1	40	1.17	32.4	0.4
11.9	39.3	1.34	42.3	0.3
12.4	40.8	1.46	39.9	0.3
9.9	33.1	1.39	39.6	0.4
3.6	14.4	1.08	33.1	0.3
9	30.4	1.57	32	0.3
5.9	21.2	1.53	34.2	0.3
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6.5	22.8	0.97	29	0.2
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3.9	15.3	1.06	35.1	0.3
3.7	14.5	0.95	29.7	0.1
2.6	11.1	0.62	27.9	0.3
3.3	13.5	0.7	23.9	0.5
5.7	20.6	0.76	28.9	0.3
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11.7	38.6	0.79	45.2	0.4
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2.7	11.6	0.46	23.5	0.2
4.9	18.4	0.68	20.2	0.4
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4	15.7	0.62	17.9	0.3
7.5	26.2	0.61	26.9	0.4
9.3	31.6	0.56	38	0.5
8.8	29.9	0.84	39.1	0.2
4	15.4	0.66	21.9	0.4
5.2	19.3	0.7	27.5	0.3
5.2	19.3	0.82	25	0.4
4.7	17.7	1.21	25.6	0.1
4.1	15.9	0.87	22.8	0.2
4.4	16.8	1.16	18.6	0.3
6.9	24.2	1.43	22.1	0.1
4	15.4	1.19	20.2	0.2
6.3	22.5	0.94	24.7	0.4
5.3	19.6	1.07	17.6	0.6
4.1	15.9	1	20	0.5

705

3.4	13.7	0.87	22.2	0.3
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8.6	29.3	0.78	40.4	0.3
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7.4	25.9	0.2	14	0.4
7.7	26.6	0.23	15.8	0.3
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1.3	7.1	1.04	7.7	0.3
1.1	6.3	0.94	12.5	0.4
1.1	6.5	0.88	9.5	0.4
2.2	9.9	0.89	8.7	0.5
4.5	17	0.89	10.8	0.3
4.1	15.9	0.86	13.7	0.3
3.9	15.3	0.88	13.4	0.3

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6.86	104.54	0.3	9.49	0.14
7.1	33.5	0.48	10	0.1
5.3	16.8	0.41	9.5	0.2
6.5	59.7	0.63	11.9	0.2
7.8	32.7	0.51	10.6	0.1
9.1	70.6	0.78	29.7	0.2
7.1	140.7	0.66	27.9	0.2
6.7	41	0.68	44	0.2
9.1	17.75	1.16	33.02	0.12
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6.7	186	0.56	60.6	0.5
6.5	256.6	0.54	82.1	0.7
5.8	212.5	0.56	49.4	1
5	205.1	0.62	38.4	0.4
5.9	165	0.74	36.9	0.4
6.2	141.1	0.78	16.2	0.6
6.4	524.8	0.83	15.3	0.3
6.4	259.9	0.66	13.5	0.5

708

6.1	168.5	0.3	10.6	0.5
6.4	141.6	0.32	10.8	0.4
6.8	146.2	0.37	11	0.3
6.5	129.5	0.42	10.9	0.3
5.96	138.34	0.43	43.37	0.17
6.7	254.9	0.45	11.3	0.4
6.8	111.9	0.45	11.2	0.3
7	48.2	0.49	11.2	0.4
7.1	38.6	0.57	11.1	0.3
7.7	35.2	0.62	11.9	0.3
7.6	53.7	0.61	10.8	0.3
7.4	36.3	0.6	11.4	0.2
7.8	33.1	0.3	11.4	0.2
7.6	31.4	0.37	11.5	0.2
7.9	32.6	0.39	14	0.2
7.9	32.4	0.45	11.6	0.2
7.9	32.5	0.48	21.1	0.1
8	32.8	0.55	11.2	0
9	34.9	0.83	11.6	0.2
8.2	36.8	0.72	11.5	0.1
8.2	33.3	0.66	16.1	0.1
8.3	32.1	0.69	16.8	0.1
8.4	32.3	0.7	19.5	0.2
8.4	30.5	0.75	14.5	0.3
8.7	31.1	0.71	13.4	0.1
8.9	30.7	0.52	14.9	0.1
8.8	29.4	0.5	11.5	0.1
8.8	29.1	0.49	15	0.2
8.9	30.7	0.53	11.6	0.1
9.4	32.5	0.78	12.2	0.2
9.4	31.6	0.48	11.8	0.2
10.3	35.7	0.85	12.5	0.1
10.5	35.8	0.75	12.7	0.2
10.1	34.2	0.7	12.2	0.1
10	32.9	0.5	12.1	0.2
10.2	35	0.67	12.5	0.1
9.9	31.2	0.51	12.1	0.1
9.9	32.4	0.51	12	0.1
10.1	33.4	0.73	12.8	0.1
10.4	32.9	0.65	13.3	0.2
10.2	32.8	0.45	15	0.2
9	28.8	0.4	14.3	0.1
8.9	31.8	0.54	12.1	0.1
7.5	30.8	0.38	12.6	0.1
12.9	45.4	0.43	13.1	0.2
5.7	44.6	0.46	12.8	0.3
7.5	44	0.55	14.1	0.2
5.9	41.9	0.35	14.2	0.1
5.6	42.8	0.5	14	0.2
9.3	43	0.41	11.1	0.2
7.7	40.8	0.25	10.1	0.2
7.4	<Samp	<Samp	10.2	<Samp

709

9.2	<Samp	<Samp	9.5	<Samp
10	44.2	0.95	10.4	0.1
10.3	47.7	1.16	6.7	0.2
11.1	48.7	1.04	5.7	0.3
10.9	47.8	0.68	6.8	0.2
14	46.9	0.68	6.9	0.1
20.4	47.7	0.91	6.8	0.2
21.7	43.6	0.7	6.8	0.1
22.9	43.2	0.64	8	0.2
23.2	43.4	0.64	10.5	0.2
25.5	39.6	0.48	15.2	0.1
26.8	41.6	0.59	13.2	0.2
22.4	42.1	0.6	14.1	0.2
19.2	42.9	0.62	20.6	0.2
18.6	44.7	0.83	26.5	0.2
17.5	45.9	0.93	20.7	0.1
8.9	41.7	0.55	17.9	0.2
7.2	46.5	0.97	16.1	0.1
9.5	49.5	1.16	20.4	0.1
15.7	53.3	1.26	22.3	0.1
17.9	54.4	1.4	25.3	0.2
16.6	50.3	0.92	21.3	0.2
15.8	49.8	0.78	19.6	0.2
15.7	49.7	0.89	25.7	0.2
15.7	48.4	0.69	16.7	0.2
16.8	47.6	0.57	13.1	0.2
17.3	53.1	0.88	20.7	0.2
19.6	58.9	1.13	21.8	0.3
21	64	1.09	27.4	0.2
21	54.3	1.35	28	0.1
22.7	54.3	1.72	22.7	0.2
27.9	52.1	1.53	22.4	0.3
30.8	51.7	1.34	29.7	0.4
15.2	53.3	1.2	26.5	0.4
10.8	52.6	1.18	30	0.3
14.8	52.1	1.18	32.7	0.2
15.5	52.4	1.24	27.9	0.2
13.9	51.1	1.17	38	0.3
15.3	55.4	1.58	24.6	0.2
15.9	58.2	1.38	15.5	0.3
15.6	61.2	1.22	22.6	0.2
15.9	71.9	8.93	23.3	0.2
16	138.3	1.7	17.9	0.3
12.9	39.3	1.54	14.7	0.3
13.7	36.9	1.46	18.5	0.3
13.3	28.2	1.3	22	0.2
14.3	10.5	1.5	17.8	0.2
17.1	12.1	1.78	21.7	0.2
16.6	12.1	1.6	16.3	0.3
14.8	31.6	1.44	15.8	0.3
15.2	31.4	1.49	19.4	0.2
15.7	31.4	1.64	27.2	0.2

710

17.2	31.39	1.39	15.82	0.24
18.8	31.5	1.6	13.6	0.2
19.2	31.7	1.65	14.4	0.2
19	31.8	1.71	14.2	0.3
15.9	31.9	1.28	15.8	0.3
11.5	31.9	1.5	19.3	0.2
12.4	31.9	2.25	19.8	0.2
11.3	32.3	1.47	16.1	0.1
17.7	32	2.1	19.7	0.1
21.6	32	2.62	20.3	0.1
20.9	32.1	2.39	16.8	0.1
20.4	32.3	2.36	15.7	0.2
17.3	32.3	1.4	13.2	0.3
16.4	32.6	1.28	10	0.3
16.5	32.3	1.44	11.8	0.2
13.3	24.3	1.79	15.2	0.2
10.2	19.8	1.58	12.4	0.2
8.4	18	1.18	12.9	0.2
8.9	18.6	1.23	24	0.2
11.2	20.9	1.85	37.3	0.1
10.4	20	1.49	33.8	0.2
11.1	20.7	1.95	29.7	0.2
12.4	22.1	2.07	44.1	0.2
14.3	23.9	1.8	28	0.3
14.2	29	1.87	23	0.3
14.2	39	1.69	29.5	0.2
14.2	33.6	1.64	29.1	0.2
14.2	23.8	1.54	15	0.2
18.1	21.8	1.56	25.4	0.2
15.9	41	1.64	24.1	0.3
16.4	103.7	2.08	33.6	0.2
16.1	30.7	2.05	34.8	0.1
15.3	29.9	2.07	32.8	0.1
16.1	30.7	2.02	34.5	0.1
16.5	31.1	2.35	21.5	0.1
16.6	31.2	2.47	30.3	0.2
17	31.7	2.73	26.9	0.2
16.8	31.6	1.81	23.4	0.3
17.8	30.5	2.27	28.5	0.2
17.3	30	2.83	17.9	0.2
15.1	27.7	3.17	30.5	0.1
13.5	26.1	3.11	15.9	0.1
12.5	27.5	2.24	36.6	0.2
13.4	30	2.01	30.6	0.2
13.5	30.1	2.11	41.6	0.2
15.6	32.2	2.08	33.2	0.2
14	30.6	1.42	31.4	0.2
14	31.9	1.27	16.3	0.2
14.9	34.5	1.34	17.8	0.4
14.8	33.4	1.27	24.4	0.3
19.4	37	1.49	33.6	0.2
16.1	33.8	1.3	29.9	0.3

711

13.9	31.5	1.27	24.3	0.2
17.7	35.3	1.67	29.9	0.2
18.4	36	1.51	16.7	0.3
18.65	36.27	1.9	27.45	0.19
15.62	33.24	1.12	48.74	0.36
16.4	34	1.37	39.1	0.3
18.1	35.7	1.4	43.4	0.4
19.4	37	1.88	35.2	0.3
18.5	36.1	1.81	34.9	0.2
20.5	38.1	1.89	39.1	0.2
20.3	37.9	1.76	45.2	0.2
21.2	38.8	2.54	37.6	0.2
21.4	39	1.99	76.6	0.1
21.8	39.4	2.03	42.9	0
21.4	39	1.64	45.1	0
17.9	35.5	0.93	39.3	0.1
20.6	38.3	1.61	32	0.3
23.1	40.7	1.98	41.5	0.2
22.8	41.4	2.26	41.8	0.1
20.1	40.8	2.01	44.7	0.2
19.6	46.2	1.68	58.4	0.2
16.1	51.9	2.1	59.6	0.2
12.01	44.46	1.92	347.33	0.59
8.6	38.3	1.65	22.7	0.4
8	37.2	1.38	29.6	0.7
10.2	41.3	1.28	60.7	0.5
14.5	48.9	1.11	50.6	0.3
10.7	42	1.07	48.4	0.3
12.5	45.2	1.06	51.6	0.2
14.3	47.3	1.22	50.5	0.2
15.2	50.2	0.85	48.3	0.2
18.1	55.5	1.21	51.1	0.3
23.5	65.1	2.15	46.6	0.2
24.6	67.2	2.15	32.8	0.3
24.2	68.1	1.8	46.1	0.4
26.8	71.5	1.69	39.6	0.4
24.7	66.5	1.37	57.2	0.4
22.9	63.2	1.78	38.7	0.4
30.9	77.8	2.09	62.4	0.2
18.4	55.4	1.37	50	0.2
12.8	44.7	0.5	22.8	0.3
14.3	45.1	0.68	22.3	0.4
16.6	49.1	1.04	41.8	0.3
20.1	55.4	1.72	37.7	0.2
21.1	57.3	1.76	31.2	0.1
23.2	61.1	2.56	47.4	0.2
26.4	66.7	2.9	48.3	0.1
27.1	68	2.68	46.3	0.1
23.9	62.3	1.83	44.2	0.1
20.8	56.6	1.04	42.4	0.2
17.6	51	0.84	42.6	0.2
17	49.9	0.85	36.4	0.2

712

17.8	51.4	0.91	39.8	0.3
19.1	53.6	1.1	46	0.2
17.7	51.2	0.84	38.3	0.3
18.1	51.9	0.82	25.1	0.3
18.1	49	0.55	14.1	0.3
18.3	50.2	0.54	14.3	0.3
22	56.7	0.68	35.2	0.2
23.9	60.2	0.91	50.9	0.3
32.6	75.9	2.36	66.1	0.2
24.8	61.8	1.61	43.8	0.3
17.5	44.6	1.51	34	0.2
10.8	36.5	1.48	44.3	0.2
9.2	35.3	0.9	27.9	0.2
8.6	37.1	0.54	32.7	0.3
7.9	41.1	0.47	21.9	0.2
8.6	42.3	0.55	19.5	0.2
11.4	42.9	0.54	27.3	0.2
13.3	43.7	0.6	27.7	0.3
13.6	43.2	0.69	27.3	0.3
13.3	44.6	0.63	28.2	0.2
13.9	47.5	0.72	33.2	0.3
13.6	46.8	0.7	40.3	0.3
15.2	46.8	1.06	42.4	0.3
12.9	39.4	0.62	28.1	0.4
13.2	45.6	0.62	18.3	0.4
14.2	52.1	0.51	17.1	0.2
15.6	55.2	0.71	26.4	0.2
15.3	54.4	0.65	23	0.1
15	54	0.55	18.4	0.2
14.8	51.3	0.52	17.1	0.3
14	44.3	0.46	12.2	0.3
14.2	46.2	0.51	10.5	0.4
14.3	37.2	0.54	14.5	0.3
14	37.5	0.43	27	0.2
15	41.2	0.88	42.8	0.3
15.7	42.5	1.07	65.8	0.1
15.6	42.4	1.22	50	0.2
14.9	40.7	0.98	29.6	0.2
13.5	35.7	1.07	34.9	0.2
13.3	37.7	1.4	32.7	0.2
12	35.2	0.87	33.1	0.3
12.1	35.4	0.79	25.3	0.3
12.7	35.9	1.1	20.6	0.1
10.8	29	0.73	17	0.2
11.1	32.7	0.58	22.4	0.3
11	35.3	0.38	20.7	0.2
10.9	38.2	0.44	19.3	0.3
11.6	41.5	0.51	16.8	0.5
11.7	38.9	0.62	15	0.4
11.9	37.2	0.47	13.6	0.3
11.6	37.3	0.41	19.6	0.2
11.8	43	0.53	28.2	0.2

713

12.3	44.5	0.53	24.5	0.3
12.4	37.8	0.58	21.6	0.2
12.9	37.9	0.63	16.8	0.2
12.7	34.9	0.63	23.8	0.2
13	33.7	0.65	19.4	0.2
12.3	36.1	0.51	14.6	0.2
12.6	38.9	0.59	14.6	0.2
12.8	39.2	0.76	10	0.2
13.3	40.2	0.61	10.8	0.2
13.6	40.8	0.67	20.5	0.2
13.4	40.4	0.57	24.9	0.2
13.7	41.1	0.62	18	0.2
14	41.6	0.66	19.9	0.3
13.9	40.2	0.65	19.5	0.2
12.7	32.4	0.67	19.4	0.2
8.73	28.92	0.7	88.28	0.2
7.2	27.7	0.85	19.3	0.2
8.3	33.2	0.94	33.5	0.2
9.1	26	0.4	19.7	0.2
9	30.6	0.32	15.5	0.4
9.3	37.6	0.38	14.2	0.2
9.6	46.2	0.43	10	0.2
9.8	39.9	0.4	19.1	0.2
10.2	35.7	0.42	15.5	0.2
9.4	45.8	0.51	13.2	0.2
8.5	34.9	0.43	23.4	0.2
8.4	43.2	0.49	14	0.2
8.1	36.6	0.44	16	0.3
8.6	40.4	0.46	212	0.2
8.7	35.1	0.41	17.6	0.2
8.33	39.02	0.59	294.13	0.25
7.28	35.07	0.52	16.22	0.27
7.27	35.07	0.51	20.56	0.43
8.02	33.7	0.56	13.84	0.51
9.05	37.26	0.68	95.57	0.39
8.9	33.2	0.67	12.4	0.3
9.2	58.2	0.83	9.3	0.4
8.8	56.9	0.85	8.4	0.3
9.3	56.6	0.85	15.6	0.6
9.1	50	0.74	14.3	0.6
9.5	48.9	0.71	8.8	0.5
9.4	46.4	0.67	13.3	0.6
9.8	61.2	0.83	21	0.6
9	38.5	0.57	25.9	0.2
8.5	45.1	0.66	25.2	0.2
8.1	51.7	0.65	19.2	0.2
8.1	86	0.85	18.2	0.1
9.6	73.9	0.66	20.4	0.3
13.5	96.4	0.79	22.9	0.2
11.2	64.1	0.56	22.1	0.4
11.6	82.4	0.64	20.7	0.4
11	60.6	0.54	17.9	0.4

714

10.8	62.4	0.54	23.1	0.4
9.7	27.5	0.4	19.7	0.2
10.4	30.5	0.42	18.4	0.2
10.4	26.8	0.37	19.9	0.4
10.5	27	0.38	23.3	0.6
11.5	43.2	0.46	20.7	0.4
10.26	33.88	0.52	24.04	0.38
9.5	24.2	0.48	22.5	0.3
12.7	128.2	1.04	21.7	0.3
10.9	50.4	0.68	27.1	0.3
11	38.7	0.55	24	0.4
9.8	28.7	0.53	32.4	0.5
9.5	28.2	0.53	24.1	0.5
10.2	26	0.39	19.4	0.5
9.2	24.2	0.35	8.3	0.3
8.2	57.9	0.26	7	0.5
7.9	24.8	0.44	8.7	0.4
8.24	24.46	0.56	8.1	0.36
8.38	25.61	0.54	8.54	0.33
8.47	25.94	0.7	6.54	0.2
8	26.47	0.84	5.37	0.26
7.33	28.44	1	143.02	0.28
8.32	31.75	1.28	3.89	0.13
7.7	55.6	1.22	2.6	0.3
7.4	22.3	1.09	5.1	0.4
6.8	14.4	1.36	8.7	0.8
16.4	16.4	1.34	10.6	0.4
5.2	24.1	1.08	9.3	0.5
5	26.1	1.06	58	0.4
4.8	23.8	1.08	10.7	0.3
4.8	71.8	1.17	11.6	0.2
6.3	71.2	1.21	10.2	0.2
6.7	77.8	1.26	6.8	0.2
6.2	31.1	1.11	4.8	0.4
5.8	28.2	1.1	10.5	0.5
5.4	26.2	1.12	12.4	0.4
5.3	20.9	1.11	6.7	0.5
5.4	23.1	1.14	5.2	0.5
5.4	28.8	1.14	81	0.7
5.4	23.9	1.14	3.6	0.7
5.7	24.3	1.14	5	0.3
5.7	25.3	1.14	5.2	0.3
5.8	23.8	1.16	5.6	0.4
5.9	25.5	1.14	54.9	0.4
5.8	39.2	0.82	2.8	0.3
5.7	30.4	0.37	3.5	0.3
6	25.6	0.36	3.7	0.5
6.4	25	0.22	2.6	0.5
6.3	23.1	0.16	4.6	0.2
6.3	27.2	0.17	4.8	0.2
6.2	21.5	0.16	5.5	0.2
7.2	27	0.2	7.1	0.1

715

7.6	42.9	0.2	11.6	0.1
7.9	27.7	0.21	7.4	0.2
8.1	37	0.26	6.3	0.2
6.4	22.4	0.25	5.4	0.1
4.9	41.6	0.27	8.6	0.3
4.4	15.6	0.17	6.7	0.3
4.7	29	0.45	3.8	0.2
4.7	34.3	0.56	8.6	0.2
5.2	24.2	0.41	136.8	0.1
6.2	15.5	0.28	6.4	0.1
6.8	17	0.33	7.1	0.1
14.6	45.8	1.07	343.7	0.1
9	40	0.83	8.2	0.2
12.6	59	1.19	11.8	0.1
11.1	43.7	1.1	12	0.3
9.3	18.3	0.9	13.9	0.1
8.1	20.4	0.83	11	0
9.2	28.9	0.91	9.7	0.1
8.5	25.3	0.86	11.7	0.1
8.4	23.4	0.87	10.5	0.1
10.9	31.9	1.09	14.8	0.1
7.61	14.33	0.87	41.24	0.38
9.13	27.85	1.37	13.53	0.26
9.8	18.2	1.15	11.5	0.4
10.4	36.6	1.42	12.9	0.3
7.9	36.3	1.43	23.9	0.3
8.6	37.4	1.44	11.6	0.2
13.2	28	1.5	22.2	0.1
15.6	14	1.31	19.6	0.1
12.5	83.4	1.43	20.4	0.1
16.6	161.5	1.74	43	0.2
15.6	7.5	1.75	34.4	0.1
14.9	6.4	1.76	19.7	0.2
14.9	7.2	1.68	18.6	0.1
18.4	6.9	1.9	22.7	0.1
17.6	6.8	1.9	23.7	0.1
<Samp	10	1.23	138	0.1
10.7	6.7	0.74	20.6	0.1
11.53	32.07	0.78	138.26	0.1
9.62	42.42	0.63	9.34	0.03
8.08	82.74	0.52	6.96	0.15
12.58	145.27	0.88	43.3	0.47
8.9	19.7	0.28	15	0.2
10.6	23.6	0.96	20.9	0.2
12.5	26.9	0.7	10.6	0.1
9.6	21.2	0.45	9.1	0.2
9.2	20.4	0.42	10.8	0.1
11.8	26.3	0.62	10.1	0.1
12	26.8	0.48	10.6	0.1
10.2	22.7	0.41	13.8	0.1
8.3	19	0.46	24	0.1
11.4	25.3	0.55	32.5	0.2

15.3	34.4	0.67	22.4	0.1
17	38.4	0.95	31	0.1
14.9	33.4	0.86	45.5	0.1
12.8	34.9	0.71	39.3	0.1
7.7	34.4	0.56	32.7	0.1
9.4	23.8	0.67	23.8	0.1
11.4	29.4	0.95	27.4	0.1
<Samp	<Samp	<Samp	<Samp	<Samp
18.6	42	1.07	11.9	0.1
-6035	-6026.8	-6040.75	-6038.8	-9686.5
-4051.8	-4039	-4061.56	-4052.7	-4062
19.5	44.1	1.15	6.8	0.1
20	45.2	1.08	7.1	0.2
18.5	41.3	0.83	5.9	0.3
21.3	48.2	1.15	14.1	0.1
20.2	45.5	1.19	16.5	0.1
21.6	48.8	1.35	15.5	0
19.4	43.8	1.06	19.4	0
20.5	46.4	1.08	22.5	0.1
20.8	47.1	1.33	29.6	0.1
29.6	67.3	1.94	45.2	0
18.1	40.8	1.4	41.7	0.1
17.3	38.9	0.79	24.8	0.2
17.6	39.7	0.75	21	0.1
16.04	36.09	1.19	30.85	0.09
12.64	28.28	1.54	21.97	0.11
10.98	24.46	1.52	29.63	0.04
17.61	39.69	1.77	31.9	0.15
15.17	34.09	1.73	31.06	0.08
13.9	31.15	1.07	44.69	0.16
15.37	34.56	1.72	16.46	0.12
16.39	36.85	1.47	22.16	0.28
16.8	37.9	1.69	27.7	0.3
17.5	39.3	1.9	9.3	0.3
14	27.9	1.7	14.5	0.4
14.9	29.6	1.67	14.1	0.1
21.5	48.7	2.05	10.3	0.2
20.3	45.8	1.44	22	0.3
18.5	41.8	1.5	15.2	0.3
18.3	41.3	1.56	29.2	0.1
19.3	43.6	1.83	26.4	0.1
20.5	46.3	1.84	25.3	0.2
17.1	41.4	1.81	21.7	0.2
9.7	21.5	1.78	27.1	0.2
10.4	23	1.79	21.8	0.1
11.4	25.4	2.32	40.2	0.2
10.6	23.6	2.24	26.2	0.1
11.25	24.97	2.17	25.95	0.19
8.73	19.18	2.05	34.82	0.17
9	19.9	2.39	31.1	0.1
9.1	20.1	2.28	32.1	0.1
9.1	20.2	2.35	32.2	0.1

717

11.1	24.6	2.24	28.9	0.1
9.8	21.8	2.54	35.9	0.1
8.5	18.8	2.05	28	0.1
10.6	23.6	2.38	34.3	0.1
10.7	23.7	2.19	38	0.1
9.6	21.3	2.2	40.7	0.1
10.1	22.5	2.65	49.2	0.2
11.8	26.4	2.65	43.7	0.2
12.9	28.9	2.73	29.4	0.1
11.8	26.4	2.11	32.9	0.1
12.3	27.4	1.5	157.2	0.2
11.6	25.9	1.56	11.2	0.3
13.1	29.3	1.8	14.6	0.3
12.5	27.8	2.4	28.1	0.2
11.9	26.5	2.14	64.2	0.2
10.5	23.2	2.12	6.3	0.2
9.5	21	1.67	11.6	0.2
10.7	23.8	1.94	10	0.1
8.9	21.1	1.9	15.1	0
8.5	18.8	2.02	14.1	0.1
8.6	19	2.19	12.5	0.1
8.1	23.8	1.8	13.1	0.1
9.1	31.5	1.88	44.4	0.1
8.9	31	1.95	33	0.1
9.9	33.3	2.24	31.7	0.1
10.6	35	2.78	32.2	0.1
10.1	33.8	2.65	31.1	0.1
10.7	35.1	2.79	21.4	0.1
12.3	63.2	<Samp	19.7	0.3
12.5	103.8	2.33	68.6	0.4
16.3	176.1	2.85	30.4	0.2
15.8	119.8	2.41	42.1	0.1
12.7	140.2	2.89	35.3	0.1
12.8	128	2.69	42.4	0.2
13	140.1	3.48	46.3	0
12.8	134.7	3.71	39.7	0
15	131.4	3.66	29.4	0.3
14.4	125.2	2.79	43.2	0.2
16.8	162.9	3.36	45.1	0.1
15.2	158.7	3.43	56.1	0.1
13.8	147.6	3.38	39.7	0
14.9	145.2	3.45	54.1	0.1
15.2	125.5	17.27	53.9	0.1
14.8	145.9	2.09	47.1	0.1
14	114.1	3.58	41.8	0.1
13.4	108.3	3.45	47.3	0.1
12.7	87.1	2.78	44.7	0.1
15	110.7	2.9	35.3	0.1
16.2	84.7	2.62	55.8	0.2
16.1	75.1	2.49	51.2	0.1
15	71.8	2.14	60.2	0.1
15.5	107.5	2.43	49.9	0.2

718

16.5	85.2	2.2	56.3	0.1
15.6	80.1	2.08	48.5	0.2
16.2	41.8	1.91	58.2	0.2
14.6	77.5	2.19	59.2	0.1
16	107.6	2.5	60.3	0.1
12.4	108	2.05	50.1	0.1
9.5	77.8	1.36	47	0.2
17.6	97	1.26	45.2	0.2
20.1	132.1	1.4	40.9	0.4
20.2	81.4	1.18	42.8	0.3
17.9	82.9	1.3	49.5	0.1
17.9	82	1.28	43.4	0.1
14.1	29.4	0.83	20.4	0.4
15.3	58	0.95	10.7	0.4
16.3	77	1.18	9.6	0.3
20.2	198.4	1.24	6.9	0.2
19.5	99.5	1.28	4.5	0.1
21.8	87.3	1.04	3.6	0.3
27.8	78.7	1.24	3.3	0.1
40.5	95.8	1.43	3.8	0.3
31.7	141	1.56	28	0.3
30.1	139.1	1.5	56.3	0.1
30.1	98	1.31	53.8	0.1
35.6	270.5	1.16	44.7	<Samp
33.3	128.5	1.79	102.7	0
26.9	95.3	1.57	44.2	0.1
31.7	99.2	1.68	34.3	0.1
28.2	63.4	1.61	30.6	0.1
23.6	63.1	1.59	28.7	0.1
22.9	52.4	1.39	22	0.2
24.5	89.1	1.54	18.3	0.2
22.7	39.4	1.34	22.3	0.3
24.8	52	1.31	28.6	0.3
26.9	66.2	1.56	40.1	0.3
23.6	95.7	1.53	24.7	0.2
16.9	38.3	0.99	44.3	0.5
17.4	62.8	0.97	43.6	0.1
18.4	51.8	0.99	46	0.1
20.2	68.5	0.99	42.9	0.1
21.6	78.1	1.09	58.8	0.1
32.8	58.4	1.21	119.3	0.1
23.9	68.9	1.22	120.8	0.1
18.4	149.1	1.52	54.5	0.1
17.4	105.3	1.38	43.6	0.1
20.5	245.8	1.56	47	0.2
20.7	214	1.68	59.6	0.1
23.5	221.1	1.67	44.5	0.1
22.7	295.8	1.83	46.1	0.2
25.5	385.4	1.93	59.3	0.1
23.3	293.8	1.98	48.7	0.1
19.2	118.7	2.07	48.2	0.1
19.1	117.9	1.86	33.4	0.1

719

17.7	53.3	1.7	37.2	0.2
17.7	82.4	1.72	41.6	0.1
18.1	73.6	1.79	45	0.2
17.9	32.6	1.69	39.8	0.1
17.6	108.5	1.74	29.3	0.2
18.5	116	1.8	36.3	0.3
18.5	21.3	1.74	52.6	0.2
22.5	100.2	1.91	44.9	0.2
31.3	100.9	1.63	55	0.2
28.3	55.2	1.32	2962.1	0.3
19.9	35.7	1.26	5179.6	0.2
19.1	54.5	1.33	298.4	0.1
21	59	1.51	98	0.1
21.1	59	1.45	91.8	0.1
21.6	60.4	1.36	94.5	0.1
21.1	46.8	1.41	81.8	0.2
27.2	50.6	1.44	92.7	0.1
36.1	40.6	1.54	71.5	0.2
32.4	68.4	1.91	51.5	0.2
30.2	72.7	1.75	53.5	0.2
30.1	56.3	1.68	72.8	0.1
35.5	80.8	2.42	77.3	0.3
32.8	67.3	1.92	83	0.1
19.6	37.1	1.05	100.1	0.4
18.3	43.4	1.35	79.1	0.2
23.5	45.6	1.15	58.5	0.1
26	59.1	1.11	54.4	0.2
26	50.8	1.1	46.8	0.2
38.9	88.6	1.39	63.8	0.2
27.6	62.7	1.27	56.3	0.2
28.6	65	1.31	62.2	0.2
21.6	48.9	1.16	62	0.2
22.4	65	1.24	61.1	0.2
25.3	78.5	1.27	63.9	0.1
25.5	84	1.3	59.6	0.2
26	102.6	1.46	52.6	0.1
26.5	106.3	1.52	53.9	0.1
25.3	60.1	1.36	74.8	0.1
26.2	78.1	1.37	81	0.1
25.6	42.8	1.31	84	0.2
21.4	55.9	1.34	79.9	0.1
21.7	52.2	1.32	77	0.1
22.4	37	1.27	79.9	0.2
22.4	40.6	1.29	81.2	0.2
19.5	56.3	1.44	88.3	0.1
22.6	42.8	1.44	93.8	0.2
29	66.5	1.47	65.2	0.1
29.2	73.4	1.37	41.4	0.4
31.29	112.72	1.5	50.53	0.04
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
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720

383.29	50.99	1.83	42.04	0.26
37.9	92.7	2	40.8	0.1
-10.6	70.2	1.54	44.6	0.2
41.2	56.6	1.44	38.2	<Samp
38.5	54.3	1.43	40.2	<Samp
22.8	54.5	1.37	33.4	0.1
19.1	46.2	1.33	38.7	0.1
23.5	57	1.37	33.7	0.2
28.7	59.7	1.35	37.6	0.3
23.5	51.4	1.36	34.8	0.2
22	60.1	1.41	39.3	0.2
26.3	48.3	1.34	39.2	0.2
21.8	46.3	1.3	34	0.1
19.7	63.9	1.36	35.5	0.2
18.5	63.5	1.35	35.9	0.2
21.5	45.7	1.3	37.4	0.3
23.6	45.9	1.26	35.9	0.2
27.2	36.3	1.23	33.4	0.1
21.5	66.1	1.36	39.3	0.1
21.7	34.4	1.25	36.8	0.1
20.5	33.6	1.22	35.1	0.2
19.9	35.9	1.22	30.8	0.1
16.2	33.1	1.25	40.5	0.2
23.9	46.3	1.31	36.1	0.2
25.7	44.2	1.3	35.9	0.3
23.6	51.4	1.36	45	0.4
24	34.7	1.28	43.4	0.2
23.4	51.1	1.27	44	0.3
23.5	30.4	1.3	53.9	0.1
20.3	27.8	1.19	50.2	0.2
21.5	24.4	1.08	48.6	0.1
23.1	23	1.08	49.8	0.2
27	42.6	1.22	92.4	<Samp
22.8	170.3	1.14	90	0.1
19.5	77.7	1.17	71.9	0.2
20.8	44.1	1.17	57.8	0.2
20.4	39	1.18	48.9	0.1
19.7	48.8	1.26	41.1	0.1
16.6	50.6	1.48	44.4	0.2
25.1	62.6	1.75	43.3	0.1
24.4	51	1.49	40.6	0.2
26.1	71.6	1.67	43.1	0.1
27.3	37.9	1.08	52.4	0.1
27.7	58.6	1.29	40	0.1
26.4	57.8	1.29	36.3	0.1
30.4	108.2	1.51	40.9	0.2
26.8	15.6	1.03	46.8	0.3
26.8	18.2	1	41.6	0.3
27.4	23.6	1.06	45.1	0.4
24.1	23.7	1.02	40.7	0.5
21.8	38.6	1.08	36.3	0.2
23	41.7	1.11	33.4	0.4

721

30.5	128.1	1.56	32.6	0.3
29.8	101.3	1.48	37.7	0.3
26.2	73.2	1.45	34	0.3
20.2	53.3	1.39	36.4	0.2
18.2	44.3	1.32	39.5	0.1
17.2	21.8	1.15	40.5	0.1
18.9	19.7	1.19	45.1	0.1
20.9	69.7	1.48	34.1	0.2
19.1	46.4	1.33	39.2	0.2
18.7	23	1.2	45.6	0.2
19.5	22.2	1.18	33.4	0.5
19	25.1	1.22	34.7	0.4
20	68.6	1.41	31.4	0.2
17.8	74.2	1.46	37.4	0.2
18.8	61.5	1.61	28	0.3
19.1	48.6	1.47	22.6	0.3
15.6	50.9	1.38	24.4	0.3
18.2	60.5	1.38	26	0.2
15	24.5	1.18	29.5	0.5
13.4	24.4	1.19	27.5	0.2
12.6	26.7	1.17	26.3	0.1
14	39.8	1.28	26.4	0.1
16.9	74.2	1.42	25.7	0.1
17.9	85.3	1.47	21.5	0.2
14.4	35.7	1.24	33	0.2
14.5	26.4	1.16	28	0.2
12.6	26.7	1.17	25.3	0.1
11.4	27.7	1.21	26.1	0.2
11.7	26.5	1.19	25.9	0.2
12	25.6	1.15	31.9	0.3
11.3	27	1.17	29.5	0.2
12.6	27.1	1.22	27.2	0.3
11.5	26.2	1.23	25.6	0.2
9.8	19.7	1.21	25.1	0.2
11.5	28.6	1.23	27.5	0.2
11.8	27.7	1.06	28.2	0.2
12	27.3	1.05	24.6	0.3
12.3	31.5	1.1	24	0.2
<Samp	29.5	1.11	19.8	0.2
13	26.9	1.06	21.7	0.2
12.8	29.8	1.16	22	0.3
12.2	26.1	1.15	22.8	0.4
13.2	28.2	1.15	22.1	0.2
15.1	32.4	1.04	21.8	0.2
12.2	26.2	1.19	21.1	0.2
10.2	21.9	1.22	22.4	0.2
10.3	23.8	1.17	24.1	0.2
20.5	43.7	1.21	91.9	0.2
24.2	50.1	1.19	19.1	0.2
11	30.1	1.19	27.9	0.2
14.9	36.5	1.17	27.2	0.2
12.3	31.4	1.21	27.2	0.2

722

9.5	34.3	1.22	28.3	0.2
9.7	34	1.21	27.1	0.2
12.1	44.1	1.14	33.7	0.3
10.5	33.7	1.21	34.3	0.1
11.1	34.6	1.24	39.2	0.1
11.5	33	1.2	38.7	0.2
9.3	31.3	1.14	38.3	0.2
11.4	36.4	0.92	39.3	0.1
14.1	38	1.13	44.4	0.1
11.4	38	1.11	41.5	0.1
11.5	36	1.09	41.2	0.1
14	39.8	1.06	41.5	0.1
11.7	34.9	1.02	44.1	0.1
11	38.4	0.99	37.3	0.1
13.6	43.5	1.03	41.1	0.1
15.9	36.4	1.03	47.3	0.1
14.5	43.7	0.97	45.2	0.1
12.1	41.9	1.2	48.5	0.1
14.4	39.9	1.33	49.4	0.2
14.6	39.4	1.36	55.5	0.1
13.9	50.9	1.47	50.5	0.1
9.3	51.7	1.38	54.5	0.1
7.7	42.9	1.31	45.5	0.1
11	40.3	1.29	46.9	0.1
11.4	41.8	1.32	47.9	0.1
13.8	42.1	1.32	45.2	0.1
12.4	39.7	1.33	48	0.1
15.3	37.9	1.31	49.1	0.1
14.8	38.8	1.31	42.7	0.1
14	37.3	1.22	47.2	0.1
13.2	36.4	0.98	43.1	0.1
14.7	46.2	0.98	39.2	0.1
14.9	43.2	1	42.8	0.1
15.4	49.8	1.1	39.2	0.1
12.2	60.9	1.28	24.8	0.1
13.7	70.5	1.56	22.4	0.1
12	53.4	1.42	23.7	0.1
17.7	56.3	1.45	25.7	0.1
18.1	62.7	1.63	27.4	0.1
17.7	55	1.74	30.5	0.1
16.1	54.9	1.76	34	0.1
12.7	49.2	1.62	29.6	0.1
10.7	52.9	1.58	31	0.1
10.4	44.2	1.4	28.4	0.1
12	62.2	1.68	38.6	0.1
14.2	63.6	1.87	43.8	0.1
17.1	38.3	1.36	49.3	0.1
18.6	48.2	1.5	45.8	0.2
14.3	57.9	1.61	42.4	0.1
13.9	50.7	1.55	36.5	0.1
14.3	52.9	1.58	46.3	0.1
13.2	73.8	1.61	48.8	0.1

14.5	87.8	2.03	50.5	0.1
17.2	73.3	1.97	49.1	0.1
20.8	73.4	2.07	55.9	0.1
16.1	72.1	2.18	45.4	0.1
15.1	80.5	1.99	49.4	0.1
16	59.3	1.97	60.8	0.1
18.5	53.4	2.09	47	0.1
15.6	63.5	2.2	41.8	0.2
17	68.7	2.06	42	0.2
22.6	61.8	1.88	52.5	0.4
20.5	55.6	1.76	64.8	0.1
20	47.3	1.72	65.7	0.1
18.5	55.2	1.69	60	0.1
16.7	58.8	1.67	66	0.1
17.3	66.7	1.77	66.5	0.1
17.9	66.1	1.97	73	0.1
19	73.2	2.17	49.7	0.1
20.4	81.1	2.39	51.4	0.1
20.1	81.6	2.36	52.5	0.1
18.4	76	1.97	51.4	0.1
19.65	71.28	1.67	68.62	0.11
19.88	116.46	1.96	53.58	0.09
17.4	72.6	1.9	36.1	0.2
17.5	53.6	1.91	35.9	0.1
18	52.5	1.9	33.4	0.1
19.3	56.7	2.19	27.3	0.1
20.7	60.6	2.36	25.1	0.1
21.1	64.4	2.48	25.3	0.1
19.2	54.7	1.99	24.4	0.4
21.1	59.1	2.48	27.7	0.2
20	54.2	2.14	23.6	0.3
20	62.6	1.99	26.6	0.2
18.2	78.2	1.83	32.2	0.1
16.5	81.6	1.97	38.2	0.1
16.6	120	2.05	40.5	0.1
18.7	125.4	2.07	42.7	0.1
14.2	97	1.93	42.1	0.2
13.2	59.2	1.75	54.8	0.1
20.3	62.4	1.72	43.8	0.2
28.1	101.8	2.19	47.9	0.1
29.3	165.2	2.37	39.1	0.1
40.3	139.4	2.79	46.9	0.1
38.9	148.5	2.8	47.5	0.1
29.5	167.4	2.89	62.7	0.1
25.9	153.4	2.68	66.1	0.1
24.7	109.9	2.53	58.4	0.1
25.4	91.4	2.38	62.3	0.1
24.6	87.3	2.27	55.8	0.1
23.5	106.7	2.38	64.9	0.2
21.7	122.3	2.36	57.2	0.1
21.6	137.4	2.78	57.8	0.2
18.9	100.4	2.77	80.5	0.1

724

23.67	63.57	2.48	53.17	0.08
24.3	70.8	2.59	75.5	0.1
34.9	82.8	2.99	91.4	0.1
30.8	<Samp	2.57	59.4	0.2
24.6	123.2	2.6	65.1	0.1
21.5	85.6	2.61	53.5	0.1
22.1	94.8	2.92	64.8	0.1
22	93.2	2.95	58.2	0.2
18.7	98	2.89	51.6	0.2
14	95.8	2.81	65.8	0.2
15.2	85.6	2.91	64.2	0.2
17.3	78	2.92	69.6	0.2
18.1	90.5	2.97	63.4	0.2
17.8	81.6	2.13	71.2	0.2
16.2	79.5	1.88	74.8	0.2
15.1	120	2.48	65.5	0.2
15.7	156.3	3.26	75.8	0.1
13.8	110.4	2.49	48.9	0.1
19.7	88.5	2.07	44.6	0.1
23.2	92.8	2.35	50.7	0.1
22	71.5	2.1	50.1	0.1
18	67.6	1.81	49.2	0.1
18.9	93	1.92	42.8	0.1
20.3	90.5	1.81	41.1	0.2
22.2	88.9	1.82	45.4	0.1
26.5	97.3	1.83	35.8	0.5
30.5	84.5	1.88	39.2	0.6
32.5	66.1	1.79	43.9	0.3
23.4	70	1.71	43.4	0.3
21.5	94.6	1.91	53.2	0.1
20.4	149.6	1.95	49.5	0.2
19.2	104.1	1.74	42.6	0.2
17.9	105.5	1.95	48.5	0.2
19.3	155.1	2.6	54.3	0.2
21.3	146.8	2.63	53.3	0.1
17.5	128.1	2.78	58.7	0.1
22.3	106.4	2.66	59.6	0.2
20	82.3	1.86	46.8	0.1
22.3	94	1.84	33.7	0.1
25.9	110.8	2.06	37.3	0.2
26.5	124.5	2	37.7	0.1
38.2	146.5	2.2	35.3	0.1
26.6	157.3	2.53	38.7	0.2
22.2	129.6	2.77	45.4	0.1
26.5	143.8	3.16	54.9	0.1
25.5	143.5	3.68	68.8	0.2
23.1	141.7	3.49	67.6	0.1
24.9	124.9	2.75	63.5	0.2
20.9	109.4	2.76	61.5	0.2
24.4	111.3	2.25	47.6	0.2
31.7	108.9	2.7	67.4	0.2
21	105.4	2.49	85.9	0.1

19.8	123.3	3.08	69.8	0.1
32.8	122.4	3.24	71.4	0.1
34.4	103.8	2.82	79.4	0.1
30.6	96.2	3.06	75.8	0.1
25.6	93.3	2.41	72.5	0.1
28.8	103.2	2.51	72.1	0.2
27.4	114.4	2.6	61	0.1
27.5	164.6	3.24	32.5	0.1
26.8	123.6	3	32	0.1
35.1	145.1	3.34	30.1	0.1
35.4	102.3	3.26	32.8	0.1
28.2	64.9	2.08	20.2	0.1
23.6	72	1.93	23.4	0.1
21.7	70.5	1.63	29.6	0.2
18.1	94.5	1.79	37.3	0.2
12.5	105.7	1.83	51.5	0.2
13	100.9	1.78	51.1	0.2
10.9	84.7	1.8	33.9	0.3
12.6	36.7	2.28	35.3	0.2
14.6	<Samp	2.24	41.8	0.2
18.6	NoData	2.76	48.5	0.1
23.3	NoData	2.86	47.3	0.1
17.3	NoData	2.24	59.9	0.1
18.6	NoData	2.36	60.4	0.1
22.2	NoData	3.23	72.6	0.1
21.9	NoData	3.05	56.4	0.1
19.3	<Samp	2.78	70.6	0.1
14.4	63.2	1.86	62.9	0.2
12.3	60.1	1.58	44.5	0.3
14	90.6	1.68	37.1	0.3
21.2	114.7	2.09	33.9	0.2
26.2	63.6	2.83	56.3	0.1
25.6	78.1	3.14	68.5	0.1
25.5	142.4	3.09	56.3	0.1
20.7	104.6	2.35	55.9	0.1
17.2	93.1	1.98	56.4	0.1
15.1	74.2	1.81	67.4	0.2
18.1	103.2	2.2	58.6	0.2
19.9	94.3	2.38	92.5	0.2
19.1	81.1	2.24	82	0.1
19	87.1	2.32	78.8	0.1
21.9	82.3	2.83	100.9	0.1
17.2	53.6	1.7	69.4	0.1
17.2	62.9	1.98	56.2	0.1
20.7	83.4	2.42	77	0.1
17.8	61.2	1.8	60.7	0.1
19.9	77.8	1.98	58.2	0.1
8.1	70.2	1.68	45	0.1
7.8	74.5	1.75	37.2	0.1
10	70.6	1.91	50.1	0.3
17.7	130.8	2.41	71.5	0.1
14.8	140.8	2.73	73.2	0.2

7.6	48.2	1.65	63.3	0.1
7.7	49.2	1.65	73.8	0.3
6.9	35.7	1.55	76.1	0.2
7.1	47.5	1.68	80.7	0.2
7.2	56.9	1.77	80.6	0.1
8.4	62.7	1.89	80.6	0.1
10.3	75.2	2.17	82.8	0.1
9.5	65.1	1.89	60.8	0.2
7.1	48.5	1.63	46.2	0.3
6.8	45.6	1.56	62.7	0.3
7.3	47.4	1.58	97.7	0.2
5	57.3	1.64	67.8	0.3
4.3	61.9	1.74	85.8	0.2
6.1	88.1	2.21	89.2	0.1
4.2	69.5	1.99	87	0.1
5.9	82.4	2.25	85.8	0.2
7	104.9	2.3	58	0.1
4.4	64.8	1.83	67.1	0.2
3	43.1	1.57	51.2	0.2
3.2	54.8	1.45	36.3	0.1
4.3	63.2	<Samp	53.3	0.2
5.3	88.8	Zero	64.7	0.1
4.8	121.2	<Samp	49.6	0.1
1	60.4	1.69	35.5	0.1
25.9	36.7	1.6	30	0.2
40.6	36.1	1.59	32.4	0.2
29.1	31.9	1.53	21.9	0.1
28.9	32.2	1.5	17	0.1
28.2	31.9	1.46	14.4	0.2
29.4	26.4	1.44	13.3	0.2
25.9	43.7	1.72	29.4	0.1
23.1	65.2	1.8	34.6	0.2
22.5	52.9	1.73	21.7	0.1
22.7	56	1.76	26	0.1
22.8	64.1	1.79	14	0.1
23	74.6	1.85	15	0.1
23.2	66.7	1.78	21.2	0.1
23.3	56.9	1.74	22.5	0.1
23.5	57.9	1.77	19.3	0.1
23	45.4	1.74	20.8	0.1
23.8	65.7	1.85	24.6	0.1
25.1	107.3	2.06	22.9	0.1
23.8	80.2	1.92	14.9	0.1
22.6	59.5	1.87	35.7	0.1
19.8	59.7	1.84	28.3	0.1
19.5	43.3	1.7	19.1	0.1
20.1	70.7	1.83	32.7	0.1
19.9	59.4	1.85	21.1	0.1
20.2	84.3	1.93	22.7	0.1
20.3	58.8	1.89	15	0.1
22.7	65.3	1.86	24.4	0.1
24.7	65	1.84	32.4	0.1

727

23.7	45.7	1.77	31.6	0.1
22.1	41.2	1.76	31.8	0.1
21.2	47.6	1.8	26.8	0.1
24.1	77.2	1.94	23.7	0.1
22.6	57.8	1.75	23.1	0.1
23.7	51.5	1.85	20	0.1
24.5	50.2	1.85	18.3	0.2
23.3	35.9	1.77	12.8	0.1
22.4	36	1.77	23.1	0.1
19.7	45.1	1.81	11.7	0.2
19.3	44	1.8	16.6	0.2
19.7	31.2	1.79	17.6	0.2
19.7	43.5	1.81	19.1	0.1
22.3	47.2	1.83	22.3	0.2
24.2	32.9	1.77	23.7	0.1
24.4	37.5	1.77	11.2	0.1
24.3	35.1	1.78	19.1	0.2
24.4	52.2	1.78	15.9	0.1
24.2	52.9	1.8	15.7	0.1
24.3	49.5	1.78	15.4	0.1
22.3	51.6	1.66	20.2	0.1
22.8	46.4	1.45	22.7	0.1
20.4	39.4	1.44	20	0.1
19.2	60	1.51	14.3	0.1
24.4	69.4	1.61	14.8	0.1
23.7	59	1.55	15.6	0.1
17.4	48.2	1.67	22.7	0.1
11.1	40.4	1.8	15.1	0.1
11	33.1	1.75	14.8	0.1
11.8	51	1.79	17.1	0.1
11	45.2	1.68	14.9	0.1
12.8	36.5	1.41	26.2	0.1
15.9	38.4	1.36	23.9	0.1
14.6	39.4	1.49	22.8	0.1
11.2	40.3	1.77	19.9	0.1
11.4	35.8	1.69	26.6	0.1
11.2	36.5	1.39	20	0.1
14	42.6	1.47	32	0.1
16.1	46.7	1.59	24.3	0.2
16.4	46	1.61	24.9	0.1
17	47.4	1.6	24.9	0.1
18.5	49.1	1.6	24.8	0.1
19.1	50.4	1.62	25.2	0.1
19.7	47.7	1.61	24.9	0.1
20.1	50.2	1.59	26.7	0.1
20	53.2	1.53	31.1	0.1
20.5	56	1.62	31.7	0.1
21.5	67.3	1.8	32.1	0.2
22	77.4	1.89	34.2	0.1
21.7	101.9	2.11	32.3	0.6
21.3	82.9	2.11	25.5	0.7
21.4	70.4	2.23	14.1	0.6

20.5	66.5	2.14	14.3	0.5
20.2	39.7	1.97	13.8	0.5
20.9	35	1.92	13	0.6
20.2	42.4	1.95	13.6	0.3
21.1	47.5	2.05	13.6	0.1
20.9	35	1.94	12.1	0.1
21.8	35.2	1.88	10.9	0.1
22.1	34.6	1.9	10.4	0.1
22.8	34.2	1.89	9.8	0.1
24.6	50	2.05	10.3	0.1
24.8	53.1	2.1	10.4	0.1
25	53.1	2.03	10.1	0.1
20.3	61.5	2.16	10.4	0.2
14.1	40.2	1.98	10.4	0.5
0.4	60.6	2.09	10.6	0.2
15.5	68.8	2.14	10	0.2
12.4	83	2.26	10.5	0.2
24.7	98.7	2.59	12.5	0.3
24.5	69.1	2.36	11.9	0.1
25.1	99.7	2.53	11.6	0.1
24.3	43.2	2.18	11.4	0.1
24.2	34.1	2	11.5	0.5
23.9	32.6	2.01	11.4	0.3
24.8	42.8	2.08	11.4	0.4
25.1	34.6	2.02	11.6	0.3
<Samp	48.1	2.12	12	0.2
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<Samp	47.3	2.17	11.5	0.1
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17.8	53.9	2.24	10.4	0.1
18	84.4	2.47	11.2	0.1
16.4	75	2.61	11.7	0.1
15.2	63.8	2.49	13	0.2
13.1	61	2.43	11.1	0.2
11.1	42.3	2.2	11.7	0.1
10.5	48.2	2.28	11.8	0.1
10.8	39.1	2.23	11.8	0.2
10.1	35.2	2.19	12.5	0.2
10.2	33.5	2.2	12.3	0.1
9.6	36.2	2.22	12	0.1
9.3	41.9	2.25	12.3	0.1
9.5	42.9	2.27	11.2	0.1
8.7	37.6	2.26	10.4	0.2
9.1	39.4	2.24	10.4	0.2
12.3	50	2.17	9.3	0.3
12.5	54.3	2.17	9.9	0.2
11.1	44.6	2.15	9.3	0.1

729

8.9	38	2.2	9	0.1
8.3	39.9	2.2	8.3	0.1
8.5	37.7	2.24	8.7	0.1
8.2	36.7	2.23	8.6	0.2
7.9	38.1	2.24	8.2	0.2
8.2	39.9	2.27	8.5	0.2
8.3	40	2.26	8.2	0.1
8.8	42.1	2.28	8.3	0.1
9.2	41.9	2.31	8.3	0.1
9.5	43.4	2.28	8.4	0.1
9.8	35.8	2.26	8.1	0.1
6.9	18.3	2.27	8	0.2
5	16.1	2.29	8.7	0.1
9	21.4	2.17	13.7	0.1
11.6	22.8	1.74	5.8	0.1
11.2	20.2	1.93	12.3	0.1
11.5	20.1	2.02	5.7	0.1
12.2	29.7	2.29	6.5	0.1
12.2	20.6	2.44	6	0.1
13	29.9	2.63	5.1	0.1
13.9	30.2	2.48	4.8	0.1
13.9	22.9	2.35	4.6	0.1
14.4	32.6	2.5	4.7	0.1
14.8	34.8	2.61	4.8	0.1
14.7	34.4	2.55	4.9	0.1
14.4	21.4	2.45	4.8	0.1
14.9	25.6	2.52	4.8	0.1
15.3	26.4	2.57	4.8	0.1
15.1	26.4	2.58	4.8	0.1
14.5	24.3	2.55	5.1	0.1
14.1	20.5	2.47	5.4	0.1
13.8	20.2	2.43	5.1	0.1
14.5	22.1	2.54	4.7	0.2
17.6	18.7	2.66	5.9	0.1
11.5	14	1.75	5.3	0.1
6.6	14.9	0.7	5.2	0.1
11	27	1.39	4.5	0.1
11.8	16.2	1.15	4.5	0.1
12.2	27.3	1.38	4.7	0.1
12.1	15.5	1.19	11.5	0.1
13.3	38.7	1.66	9.3	0.1
13.7	20.1	1.43	9.2	0.1
13.9	39.9	1.75	9.7	0.1
14.4	44.9	1.81	10.2	0.1
14.2	55.4	2.13	11.1	0.1
11.9	54.9	2.07	10.9	0.3
7.2	48.7	1.98	10.6	0.6
6.6	39	1.87	10.9	0.3
6.4	35.7	1.79	11	0.1
6	36.3	1.74	11.6	0.1
6.1	41.1	2.03	12.3	0.1
6.1	51.8	2.27	11.8	0.2

730

<Samp	37.3	<Samp	<Samp	0.2
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NoData	31.4	NoData	NoData	0.1
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<Samp	33.4	<Samp	<Samp	0.1
4.4	39.8	2.19	11	0.1
4.7	46.5	2.31	10.5	0.1
4.9	61.8	2.75	10.9	0.1
4.7	51.8	2.76	10.6	0.1
4.4	42.8	2.38	10.8	0.1
4.5	36.9	2.43	11.2	0.1
4.2	50.2	2.3	10.9	0.1
4.4	57.6	2.61	11.8	0.1
4.2	51.1	2.46	11.7	0.1
4.6	59.7	2.55	12.1	0.1
4.6	56.3	2.78	11.5	0.1
4.7	61.1	2.71	12.2	0.1
4.7	73.7	2.76	11.5	0.1
4.7	82.3	3.07	11.2	0.1
4.3	59.3	2.93	11.8	0.1
4.7	86.4	3.22	11.7	0.1
5.1	96.8	3.5	11.9	0.2
5	88.2	3.29	11.8	0.1
4.5	64.3	3.08	11.7	0.1
4.3	53.5	2.62	11.5	0.1
4.7	73.7	3.08	11.7	0.1
4.6	84	3.41	12	0.1
5.6	81	3.39	11.9	0.2
6.4	76	3.31	12.1	0.2
6.5	73.4	3.5	11.8	0.1
<Samp	<Samp	<Samp	<Samp	0.1
5.1	37.7	2.68	11.7	0.1
5.3	60.3	3.04	11.6	0.1
8.4	84.5	3.49	11.8	0.1
9.9	107.4	2.93	10.1	0.3
8.2	102.3	3.08	15.6	0.1
7.1	101.2	3.28	17.9	0.1
7.3	81.3	3.28	18.4	0.1
7.3	78.5	3.39	19.5	0.1
7.3	81.7	3.64	19	0.1
7.1	59.4	3.22	17.1	0.2
6.6	51.2	2.99	18.9	0.1
6.8	71.7	3.33	18.5	0.1
6.9	80	3.71	19.7	0.1
7.4	84.5	3.89	20.5	0.1
7.2	93	4.18	27.7	0.1
6.9	101	3.07	20.4	0.1
7.5	88.9	2.16	22.8	0.1
8.5	83	2.21	20.2	0.1
7.87	77.38	2.17	30.7	0.14
7.6	77.5	2.44	27.1	0.3

731

7.8	77.7	2.28	28.1	0.5
9.2	98.4	2.84	30.6	0.1
9.4	87.8	2.92	26.6	0.2
9.1	93.8	2.85	23.6	0.2
8.9	101.8	2.86	31.6	0.1
8.7	88.7	2.85	31.7	0.2
8.8	80.5	2.75	34.3	0.1
9.3	85.3	2.86	28.5	0.1
10.3	110.6	3.1	34.7	0.1
10	95.7	2.91	8.8	0.1
9.7	85.9	2.83	14.5	0.1
9.2	87.3	3.27	12.2	0.1
8.19	132.75	2.63	29.75	0.08
7.3	86.6	3.52	19.2	0.1
7.9	68.9	2.81	11.7	0.1
8.8	75.5	2.93	11.6	0.2
10.1	68.7	2.7	15.7	0.2
9.5	76.2	3	15.4	0.1
11.1	74.1	3.44	14.9	0.2
13	74.8	3.22	24.4	0.2
17.5	72.1	3.31	41.6	0.2
28	68.6	3.48	37.7	0.1
36.7	65.2	3.58	37.1	0.1
44.3	54.7	3.53	36.3	0.1
44.8	65.1	3.6	41.8	0.1
44.1	57.7	3.37	35	0.1
45.7	53.5	3.52	34.7	0.1
46.5	54.7	3.84	35.7	0.1
48.6	61.7	4.46	34.3	0.1
33.6	60.8	2.91	29.8	0.2
19.5	61.7	1.63	21	0.2
16.9	65.7	1.93	16.7	0.1
17	71.9	2.29	22.3	0.1
18.5	64.5	2.36	19.4	0.1
16.3	64.2	2.57	20.4	0.2
19.8	60.4	2.14	23.9	0.1
19.7	61	2.14	24.6	0.1
20.4	54.9	2.15	20.6	0.1
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19.8	55.9	1.55	18.6	0.2
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3.8	55.6	2.46	26.9	0.3
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11.6	66.6	2.75	25.6	0.1
20.2	44.9	2.24	32.4	0.1

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13	1.6	3.79	23.4	0.4
13.3	1.8	3.88	22.2	0.5
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12.7	1.4	3.89	17.1	0.5
4.9	1.1	3.79	27.2	0.2
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8	149.8	2.48	129.7	0.3
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733

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20.8	8.5	0.89	0	0.1
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9.22	3.96	0.94	11.62	0.42
9.3	4	0.94	11.5	0.3
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735

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17.1	4.6	1.11	11.6	0.2

16.7	4.6	1.07	11.6	0.3
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17.62	5.2	1.54	11.66	0.07
17.29	5.2	1.42	11.65	0.07
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17.51	6.42	1.66	11.73	0.08
17.18	15.32	1.64	81.09	0.15
17.9	4.7	1.67	11.8	0.1
37.7	4.8	1.93	11.8	0.1
18	4.9	1.56	11.8	0.1
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17	5.1	1.48	11.7	0.2
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17.2	8.6	2.01	11.6	0.1
15.6	6	1.83	10.8	0.1
18.9	9.7	1.77	13.5	0.1
19.3	8	1.86	10.8	0.1
14.9	5.9	1.77	10.7	0.2
15.1	5.9	1.87	10.7	0.2

15.2	5.8	1.91	10.7	0.1
15.5	5.8	2.04	10.8	0.1
15.5	5.8	1.91	10.8	0.1
15.6	5.8	1.96	10.8	0.1
15.4	5.8	1.99	10.8	0.1
15.4	5.8	2.06	10.8	0.2
15.8	5.8	1.95	10.8	0.1
15.5	5.9	1.9	10.8	0.1
15	6.1	1.73	10.9	0.1
14.5	6.3	1.91	11	0.1
15.1	6.3	2.03	11	0.1
14.9	6.3	1.78	11	0.1
14.7	6.3	2.07	11	0.1
15	6.3	2.19	11	0.2
14.2	6.4	1.88	11	0.1
14.4	6.3	1.99	11	0.1
14.6	6.3	2.08	11	0.1
14.2	6.3	1.96	11	0.2
14	6.4	1.98	10.9	0.4
14.1	6.4	1.95	10.9	0.2
14	6.4	2.18	10.9	0.1
14.2	6.4	2.2	10.9	0.1
14.5	6.4	2.28	10.9	0.1
14.1	6.4	2.27	10.9	0.2
14.6	6.4	2.65	10.9	0.3
16.3	11.2	2.19	13.4	0.2
14.2	8.6	2.18	12.7	0.3
14.2	6.5	2.33	11	0.2
14.4	6.5	2.41	11	0.1
18.2	6.5	2.02	11	0.3
15.1	6.4	2.12	10.9	0.3
13.2	6.5	2.03	10.8	0.5
12.6	6.4	2.2	10.8	0.4
13.7	6.4	2.2	10.8	0.2
14.7	6.5	2.86	10.9	0.1
14.6	6.4	2.78	10.9	0.1
14.7	6.5	2.55	11	0.1
13.8	6.5	2.21	11	0.1
14.1	6.5	2	11	0.1
14.4	6.4	1.96	11	0.1
13.5	6.3	1.93	10.8	0.1
14.1	6.2	1.96	10.8	0.1
14.4	7.2	2.38	11	0.2
15.8	9.2	1.9	12.6	0.4
18.8	9.1	1.81	15.9	0.4
17.7	9.1	1.91	18	0.5
18.9	13.2	1.85	19.1	0.3
20.5	12.8	2	18.1	0.1
23.1	16.7	2.53	19.7	0.1
18.4	14.3	2.19	14	0.2
21.2	22.2	1.61	16.1	0.2
20.4	18.5	1.62	15.3	0.3

740

20.9	12.8	2.09	16.9	0.2
20.4	13.8	2.22	17.1	0.2
22.2	18.1	2.21	20.5	0.2
27.8	23.2	2.09	27.8	0.2
26.8	22.7	1.97	26.1	0.1
25.5	21.8	2.17	25.5	0.2
24.5	19.4	1.53	24.2	0.1
24.4	23.9	2.24	23.5	0.1
24.8	16.5	2.17	21.3	0.2
21	17.7	1.89	20.3	0.1
21.7	13.4	2.25	14.4	0.1
25.9	20.2	2.06	26.9	0.2
21	17.4	2.13	14.4	0.1
24.2	26	2.22	14.4	0.3
24.4	26	2.24	14.4	0.1
24.7	26.1	2.56	14.4	0.1
29.4	26.1	2.54	14.4	0.2
28.7	32.1	2.4	17.4	0.2
35.5	33.1	2.24	30.6	0.2
34	27.6	2.19	23.1	0.1
41.8	34	2.08	69.7	0.1
31.1	22.2	2.13	98.3	0.1
35.6	23.4	2.22	46.6	0.1
38.3	33.4	2.23	47.8	0.1
33.6	-64.9	2.49	38.7	0.2
33.9	26.4	2.67	37.5	0.1
35.7	37.2	2.32	41.8	0.1
33.3	29.1	2.65	41	0.1
36.1	29.1	2.41	42.2	0.2
34.6	29.1	1.88	44.4	0.2
43.3	29.1	2.06	43	0.2
38.7	29.2	2.14	46.6	0.1
29.4	26.4	1.45	13.3	1.2
25.9	43.7	1.72	29.4	1.2
23.1	65.2	1.8	34.6	1.2
22.5	52.9	1.73	21.7	0.9
22.7	56	1.76	26	1
22.8	64.1	1.79	14	1
23	74.6	1.85	15	1.2
23.2	66.7	1.78	21.2	0.9
23.3	56.9	1.74	22.5	0.8
23.5	57.9	1.77	19.3	0.9
23	45.4	1.74	20.8	0.8
23.8	65.7	1.85	24.6	0.9
25.1	107.3	2.06	22.9	1
23.8	80.2	1.92	14.9	1.1
22.6	59.5	1.87	35.7	1.1
19.8	59.7	1.84	28.3	0.9
19.5	43.3	1.7	19.1	0.9
20.1	70.7	1.83	32.7	1.2
19.9	59.4	1.85	21.1	1.5
20.2	84.3	1.93	22.7	0.8

741

20.3	58.8	1.89	15	0.9
22.7	65.3	1.86	24.4	1
24.7	65	1.84	32.4	0.8
23.7	45.6	1.77	31.6	0.9
22.1	41.2	1.76	31.8	0.9
21.1	47.6	1.8	26.8	1.1
24.1	77.2	1.94	23.7	1.2
22.6	57.8	1.75	23.1	1
23.7	51.5	1.85	20	0.9
24.5	50.2	1.85	18.3	1
23.3	35.9	1.77	12.8	0.9
22.4	36	1.77	23.1	1
19.2	44.2	1.8	11.8	0.8
19.3	44	1.8	16.6	0.9
19.7	31.2	1.79	17.6	0.9
19.7	43.5	1.81	19.1	0.9
21.6	46.8	1.84	21.9	0.9
24.2	32.9	1.77	23.7	1.1
24.4	37.5	1.77	11.2	1.1
24.3	35.1	1.78	19.1	0.9
24.4	52.2	1.78	15.9	0.9
24.2	52.9	1.8	15.7	1
24.3	49.5	1.78	15.4	0.9
22.3	51.6	1.66	20.2	1.1
22.8	46.4	1.45	22.7	1.2
22	39.4	1.44	20	1.1
19.2	60.1	1.51	14.3	3
24.4	69.4	1.61	14.8	2.7
23.7	59	1.55	15.6	2.3
17.4	48.2	1.67	22.7	1.1
11.1	38.6	1.8	15.1	0.8
11	33.1	1.75	14.8	1
11.8	51	1.79	17.1	0.9
11	45.2	1.68	14.6	1
12.8	36.5	1.41	26.2	1
15.9	38.4	1.36	23.9	1.2
14.6	39.4	1.49	22.8	1.5
11.2	40.3	1.77	19.9	1.6
11.4	35.8	1.69	26.6	1.2
11.2	36.5	1.39	20	1.3
14	42.6	1.47	32	1.3
16.1	46.7	1.59	24.3	1.3
16.4	46	1.61	24.9	1.1
17	47.4	1.6	24.9	1.3
18.5	49.1	1.6	24.8	1.3
19.1	50.4	1.62	25.2	1.3
19.7	47.7	1.61	24.9	1.4
20.1	50.2	1.59	26.7	1.2
20	53.2	1.52	31.1	3.8
20.5	56	1.62	31.7	5.2
21.5	67.3	1.8	32.1	1.3
22	77.4	1.89	34.2	1.6

21.7	101.9	2.11	32.3	1.9
21.3	82.9	2.11	25.5	1.5
21.4	70.4	2.23	14.1	1.3
20.5	66.5	2.14	14.3	1.2
20.2	39.7	1.97	13.8	1.4
20.9	35	1.92	13	1.7
17.8	21.1	0.56	17.1	1.5
33.4	13.1	0.29	18.9	2
13.4	14.7	0.21	13.7	1.8
16.2	17.2	0.26	19.6	1.1
17.7	16.2	0.19	12.1	1.3
15.6	20.8	0.22	22.2	1.4
25.1	33.7	0.06	21.3	1.6
17.3	24.9	0.24	18.9	1
14.6	23	0.29	15.3	1
13.3	19.7	0.17	12.5	1
0.9	24.1	0.33	19.1	1.2
0	28.2	0	12.4	1.4
0	28.2	0	12.2	1
21.8	26.9	0.23	15.7	0.4
17.1	32.1	0.2	20.6	0.5
34.9	45.2	0	615.7	0.1
34.8	47.4	0	618.4	0.1
34.7	46.9	0	433.7	0.1
21.1	34.9	0.19	33.3	0.5
15.2	30.1	0.25	24.9	0.6
13.4	23.8	0.21	21.7	0.6
13.9	28.8	0.2	98.2	0.2
13.1	40	0.4	24	0.5
9.4	28.6	0.45	29.2	0.5
3.2	53.8	0	80.1	0.5
0	53.4	0	36.4	0.3
0	53.7	0	40.4	0.2
0	54.5	0	38.2	0.1
29.1	53.3	0	207.1	0.1
53.5	52.6	0	332.2	0.1
35.6	54.3	0	37.1	0.4
35	82.5	0	37.1	0.1
34.4	75.6	0	31.3	0.3
33.8	71	0	28.7	0.5
33.2	72	0	26.4	0.7
33.1	71	0	29.4	0.3
32.7	72.2	0	25.8	0.4
32.5	75.1	0	23.9	0.5
53.35	72.74	0	161.76	0.79
55.2	74.4	0	196.1	0.5
54.4	75.8	0	187	0.3
54.2	73.8	0	187.6	0.1
53.8	75.9	0	197.8	0.1
53.7	84.9	0	187.5	0.1
53.7	85.4	0	184.8	0.1
17.4	32.1	0.86	25.3	0.9

743

20.2	29.5	1.43	22.3	0.6
21.4	13.3	1.08	22.3	1.1
19.6	22	1.05	19.8	0.8
20.1	26.2	0.94	23.4	0.8
12.9	25.1	0.98	31	1.3
42.5	14.2	1.23	30.3	0.9
18.7	21.6	1.49	19.4	0.8
15.3	42.3	1.43	30.1	0.8
28.6	32	1.46	36.1	1.2
17.9	48.6	0.93	23.2	1
10.3	11.4	0.85	28.7	0.7
12.7	12.5	1.16	19.1	1.3
12.8	46.2	1.19	20	1
13.7	44.2	0.83	26.3	1.3
10.4	35.1	1.03	19.9	0.7
11.9	36.7	1.2	18.5	1
11.8	50.2	0.95	15.3	1
22.3	52	1.29	20.3	0.7
20.8	27.3	1.15	31.2	0.9
22	45.4	1.25	30.5	0.7
26.4	102.7	1.34	31.6	1.2
22	66.7	1.27	26	0.9
19.7	39.3	1.22	34	1.3
10.2	30.4	1.14	19.7	0.9
18.9	18.6	1.21	10.5	0.9
10.3	29.8	1.2	15.7	1
11	17.6	1.23	15.6	0.8
10.1	32.6	0.65	13.2	0.9
10.5	25	0.78	14.9	0.7
18.8	35	0.89	17.6	0.6
19.4	46	1.06	24.6	0.8
12.9	46.1	1.3	18	0.9
14.4	72.9	0.97	21.8	0.9
11.7	40.8	1.06	17.4	0.8
12.3	39.6	0.88	21.9	0.8
13.2	69.6	1.32	20.6	1.1
18.2	56.1	1.23	23	0.6
9.6	31.9	1.18	23.1	1.6
10.4	64.7	1.07	18.8	0.8
6.9	36.3	1.15	19	1.9
8.9	55.9	1.26	18.9	1.2
15.1	40.9	0.32	8.3	1.3
21	46.7	0.31	8.7	1.1
20.6	38.3	0.25	9.1	0.6
18	35.7	0.21	10.1	0.7
18.7	30.3	1.3	18.1	1.7
16	26.3	1.35	16.7	1.2
18.5	29.1	1.3	19.4	1.6
12.4	26.1	1.44	21.9	1
23.5	29.6	1.22	26	1.5
31.4	29.5	0.99	26.7	1.2
14.3	40.2	1.14	26.9	1.4

744

13.2	36.5	0.94	10.8	1.9
13.2	16.1	0.91	11.4	1.3
14	15.4	0.97	11.3	1.4
18.9	27	1.14	11.1	1.3
15.2	42.3	0.79	10.8	1.2
6.8	53.7	1.15	18.9	1.9
17.9	19.1	1.76	16.4	1.8
16.3	19.7	1.29	18.3	1.2
14.2	51.8	1.15	11.7	1.7
13.6	29	1.11	15	1.7
13.5	30.4	1.13	20.5	1.6
17.6	37.4	0.94	12.5	0.8
17	87	2	16.9	0.9
14.8	33.1	0.82	20.2	1.7
14.2	51.8	1.15	11.7	1.7
27.5	41.3	0.37	14.6	1.4
27.4	38.7	0.42	14.1	1.6
24.6	39.4	0.75	15.7	1.8
13.7	29.9	1.49	26.7	0.8
17.6	29.4	1.36	33.4	1
21.6	22.7	1.23	18.9	1.3
20.8	23.2	1.17	16.4	1.2
18.7	30.3	1.22	18.3	1.2
19.4	36.2	1.3	30.8	1
18.2	36.7	1.44	30.3	0.9
19.3	37.3	1.31	29.3	0.8
19.3	50.7	1.77	18.3	0.9
19	36.9	1.77	16.8	0.9
25.2	42.8	1.72	7.8	1
23.7	35.9	1.74	17.8	0.8
17.8	30.8	1.49	7.8	0.9
17.9	33.5	1.46	27.4	0.8
13.6	38.1	1.48	28.8	1.1
17.9	33.2	1.6	23.2	1
13.4	24.9	1.56	32.4	1
16.9	28.9	0.73	16.6	1.9
17.9	7.8	0.7	16.6	1.9
19.4	64.3	1.03	50.7	1.3
24.6	39.4	0.75	15.7	1.8
5.3	16.6	0.89	48.8	0.7
6.8	14.1	1.22	40.5	0.6
28.4	45.7	1.09	49.1	1.4
27.1	56.3	0.75	56.5	1.3
18	143	0.73	20.7	0.9
27.4	46.4	0.9	45.4	1.3
10.8	37.3	0.7	56.3	1.6
14.7	37.7	0.89	54.9	1.7
15.1	36.7	0.83	70.8	2.2
11.9	57.1	0.82	70.7	2.1
13.6	51.5	0.86	70.5	1.9
19.9	144.9	0.83	82.2	1.9
20	163.2	0.95	60.4	1.5

745

70.1	<Samp	<Samp	771.8	0.1
24.6	39.4	0.75	15.7	1.8
20.4	64.7	1.07	18.8	0.8
22.6	87	2	16.9	0.9
19.1	36.7	1.44	30.3	0.9
14.3	38.1	1.4	30.8	1.1
23.1	38.9	1.8	15.1	0.8
23	33.1	1.75	14.8	1
23.8	50.9	1.79	17.1	0.9
17.5	61.8	0.72	18.6	1.5
20.7	33.5	0.66	27.5	0.8
34.3	30.8	1.19	36.7	0.6
24.6	39.4	0.75	23.7	1.8
20.6	65	1.07	26.9	0.8
23.4	76	1.07	28.8	0.8
22.9	88.4	0.7	11.9	0.6
13.3	35.7	0.88	22.4	0.4
15.7	42.3	0.94	26.6	0.4
18	48.3	0.98	30.4	0.5
17.6	47.5	0.99	29.8	0.5
15.5	45.9	0.96	28.8	0.5
17.1	46.4	0.93	32.9	0.6
16.5	45.8	0.91	29.2	0.6
16	39.7	0.92	27.9	0.6
12.6	35	0.97	23.6	0.6
13.9	37.8	0.91	28.3	0.6
14.2	39.1	0.93	26.1	0.5
14.3	38.5	0.95	25.4	0.6
14.6	39.1	0.96	24.6	0.6
14	37.6	0.99	23.6	0.6
16.2	43.5	1.03	27.3	0.5
13.6	36.5	1.07	22.9	0.6
14.5	38.9	1.1	24.6	0.6
15.8	42.6	1.05	26.7	0.6
19.8	53	1.09	33.3	0.6
16.3	43.9	1.1	27.6	0.6
17.2	46.3	1.09	29.1	0.5
19.4	52.1	1.14	32.7	0.6
18.9	50.9	1.1	32	0.5
17	45.8	1.1	28.7	0.5
17.7	47.5	1.09	29.8	0.5
21.9	58.9	1.08	37	0.5
15.3	41.1	1.05	25.8	0.6
14.7	39.5	1.02	24.8	0.6
13	35.1	1	22	0.6
17.5	46.7	1.1	29.5	0.7
19.8	53.2	1.03	33.4	0.6

746

Temp	RH	BP	WD	VWS
Deg C	%	M Bar	Deg	m/s
26.59	71.7	601.4	231	0.38
27.22	63.9	698.2	244.9	0.38
28.09	64.1	961.6	235.2	0.38
28.66	66.6	961.6	233.2	0.39
29.03	63.3	961.5	228.7	0.37
29.64	55	961.6	241.4	0.39
30.13	65.9	961.2	239.6	0.39
29.1	78.2	960.9	163.3	0.39
28.36	80.2	961.3	77.9	0.39
27.74	80.6	961.5	14	0.52
29.18	79.2	961.6	302.2	0.25
30.03	62.1	961.4	241.8	0.21
30.53	55.7	961.5	252.9	0.24
30.76	52.8	961.4	242.5	0.38
31.53	50.1	961.1	16.4	1.22
29.5	79.6	961.1	42.5	0.35
29.97	78.3	961.6	80.1	0.35
29.22	74.8	961.3	104.7	0.4
29.66	69.6	961.6	167.4	0.46
29.47	70.6	961.2	159.5	0.31
29.84	65.8	961.1	151.2	0.32
28.83	72.4	961.4	165.5	0.33
28.79	72.1	961.2	181.9	0.32
29.01	70.3	961.2	197.6	0.32
29.1	74.2	961.2	124.2	0.31
29.62	67.2	961.3	193.8	0.34
29.57	72.8	961.3	139.8	0.34
29.57	73	961.1	115.8	0.33
29.79	74.2	961	150.8	0.37
30.01	74.4	961.3	161.1	0.33
29.51	73.5	961.1	125.1	0.35
29.67	58.6	961.4	5.5	4.19
29.41	62.4	961.1	119.4	6.76
28.83	67.7	961.6	185.5	2.94
29.55	74.2	961.5	187.7	0.14
30.36	71	961.8	186.5	0.16
30.01	72.7	961.8	180.9	0.15
30.02	78.3	961.8	151.8	0.17
30.14	73.1	961.8	113.5	0.23
30.36	73.5	961.8	140.1	0.26
30.19	75.3	961.8	112.7	0.36
30.4	73.7	961.8	47.5	0.66
30.14	75.9	961.8	71.9	0.31
30.99	74.5	961.8	73	0.23
31.03	70.3	961.8	127.9	0.61
31.25	71.5	961.8	156.7	0.25
31.35	70	961.8	79.7	0.24
31.51	67.9	961.8	92.6	0.21

31.63	69.4	961.8	95.7	0.15
31.55	70.6	961.8	105.1	0.17
31.4	71.5	961.8	120.5	0.22
31.5	68.6	961.8	131.5	0.18
30.15	63.7	961.8	134.7	0.18
30.74	62.6	961.8	135	0.18
31.21	63.3	961.8	126.4	0.15
31.64	63.7	961.8	109	0.19
32.15	70.7	961.8	145.1	0.18
31.96	70	1005.8	245	0.21
31.4	67.5	1005	301.4	0.25
30.98	68.8	1005	290.4	0.23
30.99	68.7	963.2	271.6	0.24
31.29	69.4	990	284.3	0.19
31.37	67.6	990	310.6	0.19
31.18	67.5	990	303.6	0.17
31.1	65.5	989.3	300.7	0.28
31.31	64.5	993.7	276.1	0.28
31.35	63.9	1008.4	283.7	0.21
31.4	65.2	1008.2	275.8	0.21
30.88	65.9	1007.7	304.6	0.18
31.35	64.9	1005.4	342.3	0.13
31.26	73.9	1006.1	333.3	0.2
29.71	75.9	1006.3	189.6	0.24
29.78	73.3	1006.2	140.1	0.23
29.58	73.4	1005.4	129.3	0.22
30.71	71.6	1006.6	201.9	0.19
31.25	74.1	1006.9	222.1	0.2
31.25	75.1	1006.8	252.3	0.16
31.32	75.6	1006.4	297.4	0.17
31.51	72.7	1005.6	313.3	0.2
31.7	73.7	1005.6	296.4	0.17
31.54	72.6	1004.5	274.5	0.16
31.66	72.8	1002.6	272.3	0.14
31.65	70.6	1002.1	289	0.13
30.31	77.8	1001.7	304.4	0.23
29.58	81.4	1001.6	300	0.19
29.2	81.1	1001.5	166.9	0.19
29.57	76.2	1002	176.7	0.19
27.69	87	1001.6	162.3	0.2
28.25	85.9	1001.6	170.7	0.18
28.18	85.1	1001.9	181.9	0.18
28.42	85.3	1001.4	256.8	0.17
29.06	82	1001.4	174.3	0.16
29.09	86	1001.3	345.1	0.22
28.43	86.8	1002.8	343.2	0.22
26.76	92.3	1005.2	240.8	0.23
28.98	81.9	1004.3	241.1	0.19
29.54	79	1005.6	244.5	0.11
28.61	83.4	1004.9	257.3	0.14
26.84	91.7	1002.2	273.3	0.19
26.18	95.9	1001.2	358.8	0.28

26.47	95.7	1001	254.4	0.15
27.64	91.8	1000.9	252.8	0.11
28.66	85.8	1001.4	247.2	0.15
27.09	91.9	1003.8	254.6	0.14
28.45	86.6	1006.3	251.1	0.14
28.19	86.7	1006.1	248.3	0.09
28.93	83.8	1006.1	246.9	0.11
28.58	84.2	1006.2	250.8	0.14
28.52	83.2	1005.7	249.3	0.13
28.53	84.8	1005.2	253.6	0.15
28.93	83.5	1004.3	251.1	0.19
28.82	84.3	1005.3	247.8	0.17
28.54	84.2	1006	251.9	0.19
28.85	83.2	1005	248.7	0.11
28.74	83.8	1003.6	252.6	0.12
29.03	82.9	1003.4	249.6	0.1
29.32	82.5	1004.2	254.2	0.13
29.16	80.2	1005.8	252.8	0.1
28.78	80.5	1006.7	257	0.13
28.87	80.1	1007.7	269.8	0.19
28.9	79.6	1007.9	269.9	0.16
28.67	79.3	1006.8	260.6	0.17
28.57	81.1	1006	200.3	0.13
29.01	78.8	1005.4	180.4	0.11
29.69	77	1006.1	170.4	0.11
29.3	78.5	1006.4	199.1	0.17
29.01	80.4	1006.5	303.4	0.19
27.24	90.8	1006.4	274.7	0.17
26.46	92.6	1006.7	288.4	0.18
26.01	95.8	1007.4	319.9	0.22
26.83	91.9	1007.8	41	0.23
27.5	88.3	1007.5	301.6	0.19
26.43	93	1007.4	16.5	0.22
26.02	92	1006.7	68.3	0.22
25.7	96	1006.4	282.2	0.19
26.54	91.9	1004.4	264.2	0.14
27.7	87.2	1006.9	270	0.11
27.92	87.8	1004	260.8	0.14
26.34	93.5	1006.4	284.2	0.12
27.68	87.1	1005.9	252.6	0.12
28.06	84.6	1006.2	249.6	0.1
28.78	81.8	1005.5	254.8	0.14
28.53	83.2	1005.9	257.9	0.16
28.22	83.4	1008.3	253.6	0.15
28.36	81.4	1005.9	251.9	0.14
27.81	84.2	1007.2	254	0.15
28.21	82.4	1007.5	257.9	0.18
28.61	81.4	1006.7	265.1	0.22
28.33	82.4	1007.6	273.7	0.17
28.2	83.9	1008.2	272.8	0.2
26.94	90.2	1007.2	281	0.2
28.04	84.8	1007	296.8	0.28

749

28.81	79.3	1005.5	282	0.23
28.45	81.4	1005	266	0.24
28.26	83.7	1006.4	263.2	0.23
28.51	82.9	1007	306.3	0.23
28.43	85.4	1006.7	353.7	0.32
27.96	87.8	1005	352.3	0.32
27.77	89.7	1004.7	344.5	0.33
27.11	91.4	1005.4	326.3	0.32
26.33	95.4	1004.5	335.8	0.33
26.75	92.6	1004.2	291.7	0.28
27.26	89.4	1004.2	270.8	0.61
27.33	90.7	1003.8	301.5	0.3
27.65	88.7	1003.1	336.4	0.31
27.7	87	1003.4	158	0.21
27.65	91.3	1003.2	319.8	0.28
27.74	89.8	1003	278.9	0.17
28	84.7	1003.3	257.5	0.18
27.02	90.5	1003.9	332.7	0.24
28.47	83.7	1005.6	326.6	0.31
28.69	80	1007.5	342.7	0.29
28.58	80.3	1007.7	351.1	0.24
28.86	80	1007.3	350.6	0.25
29.12	77.7	1006.6	349.6	0.22
29.56	76.9	1007.4	344.3	0.25
29.34	78.5	1008.4	343.7	0.22
28.92	73.2	1006.5	305.1	0.28
29.22	78.1	1005.9	351.2	0.29
29.58	75.8	1006.7	350	0.22
27.25	89.8	1006	346.8	0.27
26.77	89.4	1005.2	352.6	0.29
26.58	90.8	1005.8	329	0.3
25.71	95	1004.9	15.5	0.22
26.55	90.2	1002.5	120.3	0.15
27.15	89.3	1001.5	132.5	0.14
27.33	90.3	1002	147.3	0.18
27.69	90.8	1001.5	237.6	0.15
26.75	91.9	1005.5	259.4	0.18
27.9	85	1006	353.6	0.25
26.95	95.2	1007	356.2	0.31
28.32	85.7	1009.5	345.5	0.26
28.37	82.7	1007.6	347.6	0.26
28.51	81.6	1008.4	349.7	0.23
28.43	79.2	1008.2	348.3	0.24
29.06	73.7	1007.9	349.3	0.27
29.21	78.5	1007.6	347.9	0.27
29.06	77.2	1007.1	348.6	0.25
28.78	75.1	1006.9	345.1	0.18
28.8	76	1007.6	334.5	0.25
28.42	75.9	1009.2	350.8	0.24
27.66	78	1009.6	356.2	0.25
28.45	79.7	1008	348.8	0.3
30.78	68.8	1009.3	359.7	0.29

750

30.73	71.7	1011.1	356.2	0.3
30.43	72.2	1011.3	352.1	0.26
30.49	55.8	1010.4	356.4	0.28
29.52	58.6	1010.8	355.2	0.25
29.49	59.3	1010.7	349.8	0.26
29.34	61.1	1009.4	352.2	0.2
30.31	55	1011.2	15.4	0.26
30.01	42.4	1012.4	21.7	0.22
29.1	51.3	1011.7	357.1	0.26
29.03	57.3	1010.4	359	0.26
29.3	53.8	1010.4	8.3	0.26
29.79	50.5	1010.1	16.8	0.22
28.98	49.5	1010.3	4.5	0.23
28.93	49.9	1010	6.6	0.24
29.07	50.3	1009.4	350.5	0.18
29.12	47.2	1008.8	335.3	0.21
28.79	51.1	1007.2	7	0.24
28.08	60.4	1006.2	359.4	0.27
29.33	58.1	1006.4	17.9	0.3
28.78	73.4	1008.7	355.6	0.25
28.12	85.8	1009.8	343.9	0.29
29.11	80.2	1008.7	2.2	0.2
29.58	77.1	1008.2	358.7	0.33
30.15	70.9	1010.2	1.2	0.29
30.36	70.4	1010.9	4	0.29
30	73.6	1010.2	355.9	0.2
29.6	78.9	1010	349.8	0.27
29.66	73	1009.5	353.6	0.23
29.18	71.4	1009.7	352.4	0.31
28.74	72.6	1010	351.1	0.23
28.77	70.9	1011.3	359.4	0.31
29.34	68.9	1011.3	357.5	0.2
28.8	67	1010.8	351.8	0.35
28.9	57.8	1009.9	359.6	0.29
28.09	55.1	1011.3	354.2	0.28
28.14	53	1013.3	358.7	0.3
28.44	40.3	1012.1	23.2	0.22
27.69	39.8	1012.3	2.3	0.22
27.18	48.9	1014.6	12.9	0.22
27.89	44	1015.5	8.4	0.27
27.76	37.6	1014.4	36	0.23
26.95	34.5	1014.6	45.5	0.16
26.99	35.4	1014	23.4	0.27
26.66	42.3	1013.7	8.3	0.22
26.21	45	1014	25	0.24
26.21	46.2	1014.5	22.1	0.3
27	43.3	1013.7	15.8	0.25
27.3	46	1012.3	2.7	0.32
26.98	53.3	1012.2	354.4	0.33
27.09	55.3	1013	17.3	0.35
27.21	50.5	1013.5	77.1	0.3
26.76	55.3	1013.6	22	0.32

751

27.12	53.8	1014.2	23	0.33
27.76	49.4	1013.7	60.1	0.23
27.36	41.3	1014.9	95	0.23
26.67	44.2	1015	73	0.22
25.79	51.1	1014	21	0.33
25.6	58.4	1012.4	0.2	0.3
25.91	65.4	1011.9	14	0.32
25.81	65.8	1011.3	3.8	0.31
25.71	66.8	1011.3	344.8	0.28
25.92	69.5	1011.4	358.2	0.3
25.01	58	1011	342.8	0.27
24.95	59.7	1010.8	339.6	0.18
25.09	64.9	1010.8	0.4	0.21
26.46	63.6	1011.8	20.1	0.2
27.88	52.9	1012.8	63.2	0.2
27.74	47	1012.4	72.4	0.18
26.99	47	1012	27.3	0.21
28.21	48	1012.4	20.2	0.19
29.55	55.3	1013.5	22.1	0.17
29.14	60.6	1013.5	17.9	0.2
28.43	59.8	1013	5.4	0.21
27.34	59.4	1012.3	348.1	0.26
26.34	61.2	1012.2	347.4	0.24
26	55.4	1012.9	356.2	0.22
25.06	54.3	1013.7	343.4	0.23
24.33	51.6	1012.7	349.4	0.21
23.93	56.1	1012.2	351.1	0.18
23.49	55.3	1012.2	349.8	0.2
23.79	65.5	1012.6	348.5	0.23
23.52	57.6	1013.4	350.4	0.22
22.56	56.9	1013.9	353	0.22
22.92	62.9	1014.2	347.6	0.24
24	62	1015	346.4	0.29
25.27	54.5	1014.6	1	0.32
25.73	50.1	1015	9.4	0.34
25.76	52.7	1015	21.2	0.29
25.65	56.3	1014.7	29.6	0.25
25.57	60.6	1014.5	4.2	0.26
25	64.1	1013.7	349.6	0.29
24.63	57.8	1013.6	345.6	0.24
25.7	57.7	1013.1	3.7	0.27
24.65	70.9	1013.5	345.1	0.27
25.46	66.9	1013	358.4	0.27
26.98	60.7	1013.2	1.5	0.27
27.91	55.3	1014.7	32.8	0.21
27.34	56.9	1014.8	359.8	0.3
24.76	64	1012.7	342.1	0.32
23.22	68.3	1011.6	341.9	0.29
22.55	52.3	1011.9	343.8	0.25
22.69	61.2	1011.2	344.6	0.32
22.21	66.2	1010.7	348.9	0.31
21.81	52.3	1011	358	0.3

752

21.88	55.9	1010.7	343.6	0.29
21.61	45.6	1011.2	342.9	0.3
21.51	36.5	1012.7	355.7	0.3
20.78	44.3	1013.1	10.9	0.29
22.63	46.8	1012.9	26.8	0.32
22.85	50	1012.2	343.1	0.3
22.81	59.4	1011.5	341.2	0.32
21.94	55.6	1011.9	12.2	0.28
22.6	51.9	1011.4	8.3	0.27
21.56	60.3	1011.9	347.4	0.54
22.32	64.1	1011.6	353.1	0.23
21.09	54.8	1013.3	350.4	0.26
19.55	54	1014.4	351.5	0.3
19.99	54.1	1014.3	353.2	0.25
19.17	54.7	1014.8	2.3	0.25
17.82	44	1015.1	356.4	0.27
19.91	43.4	1013.3	352.2	0.29
21.36	47.6	1011.7	338.3	0.31
22.11	59.2	1011.7	342.9	0.32
23.43	58.9	1011.6	348.4	0.32
24.68	59.4	1012.5	334.9	0.34
25.71	55.1	1013.3	351.4	0.33
26.56	48.4	1013.9	355.5	0.31
25.18	53.1	1014.5	347.7	0.32
24.95	49.1	1014.1	338.7	0.32
24.48	56	1013	331.2	0.35
24.52	65.4	1013.3	338.5	0.35
24.97	75.9	1014	330.2	0.36
25.37	68.2	1014.6	344.3	0.33
25	64.1	1013.7	342.3	0.33
24.55	77.3	1013.4	331.1	0.31
23.96	74.8	1013.2	337.9	0.32
23.8	55.2	1012.7	338	0.31
26.03	47	1011.5	355.2	0.33
27.68	45.3	1012.4	4.5	0.26
28.39	41.7	1012.6	0.6	0.11
28.14	46.4	1011.2	11.2	0.09
26.94	53.7	1010.2	347.3	0.17
26.78	48.2	1011.3	343.2	0.27
25.69	66.4	1011.6	338.4	0.17
25.86	74.8	1010.3	342.9	0.16
26.1	77.1	1011.3	338.3	0.11
26.65	66	1012.1	342.2	0.18
27.14	56	1012.5	337.6	0.18
28.01	59.3	1010.8	347.3	0.2
28.14	61.6	1010	338.4	0.32
26.95	79.9	1011.1	306	0.24
27.34	81.6	1009.8	336	0.14
26.92	79.1	1009.1	337.2	0.16
26.6	75.7	1010.4	341.3	0.09
27.13	70.8	1103.7	330.3	0.08
27.82	70.8	1009.8	343.1	0.1

753

28.87	53.9	1008.7	344.3	0.11
28.51	61	1007.5	336.3	0.11
28.05	64.1	1007	338.2	0.18
26.98	71.4	1007.7	334.9	0.16
26.82	74.4	1006.4	344.8	0.18
28.42	65.7	1006	321.8	0.09
28.57	76.6	1006.3	296.2	0.08
28.37	75.4	1007.5	227.6	0.08
27.94	75.3	1008.6	273.8	0.15
28.01	73.9	1009.3	335.3	0.16
27.61	72.9	1009.9	339.4	0.17
27.81	73.1	1009.4	339.2	0.16
28.46	72.1	1008.7	323.2	0.16
28.4	72.4	1009.5	321.7	0.16
28.19	61.6	1009.9	337.2	0.17
27.49	61.9	1010.3	307.4	0.1
26.69	59.9	1011.2	300.1	0.11
27.19	61.3	1011.6	284.9	0.11
27.71	58.3	1011.8	325	0.1
27.51	64.7	1010.2	336.5	0.12
27.57	69.4	1011.4	355.8	0.16
28.28	72.8	1013.1	346.1	0.16
29.15	68.9	1011.1	328.9	0.09
29.23	66.5	1010.5	337.7	0.1
30.52	55.8	1009.7	3.1	0.13
30.49	62.5	1009.8	341.7	0.13
30.83	57.8	1007.5	340	0.18
30.08	64	1007.6	340.2	0.13
29.59	71.3	1007.3	334.5	0.11
30.49	60	1007	343.1	0.11
29.83	67.7	1008.1	337.4	0.11
29.05	72.9	1009.3	328	0.13
29.01	76.2	1008.3	335.9	0.1
29.27	71.2	1007.9	321.5	0.09
29.7	67.8	1009.1	340.9	0.09
29.84	67	1008.4	344.5	0.12
30.75	63.9	1007.3	341.4	0.12
31.14	65.2	1007.4	339	0.1
30.98	62.4	1008.6	330.9	0.11
30.75	63.6	1007.6	321.2	0.13
30.21	75.3	1008.5	245.5	0.08
30.51	75.1	1008.2	293.5	0.09
29.9	78.3	1006.2	301.3	0.08
29.79	74.1	1005.5	280.3	0.1
29.87	71.4	1006.1	289.5	0.09
29.75	72.7	1007.9	318.6	0.08
30.17	75.3	1007.9	314.3	0.09
29.72	72.4	1007.6	289.6	0.09
29.65	68.8	1007.6	262	0.08
29.65	68.7	1008.6	292.6	0.08
29.96	68.7	1009.5	284.1	0.1
30	68.2	1008.8	268.4	0.09

754

30.23	68.5	1008.5	285.9	0.12
30.09	69.3	1009.7	322.2	0.11
30.34	68.1	1010.3	313.3	0.11
30.32	70.5	1009.9	319	0.14
30.39	69.5	1009.9	324.8	0.15
30.22	68.1	1009.9	304.8	0.13
30.25	67.3	1010.4	315.4	0.21
30.31	68.1	1010.9	314.4	0.18
30.51	67.3	1010.9	308.3	0.22
31.12	65	1010.7	277.2	0.15
30.75	69	1010.1	280	0.22
30.91	70.7	1007.8	258.1	0.15
31.18	71	1007.9	250.5	0.2
31.33	69.4	1008.5	262.9	0.19
31.2	68.5	1008.2	254.5	0.17
31.42	69.6	1007.1	272.8	0.1
31.31	70	1007.2	297.9	0.12
31.32	69.1	1007.4	305.2	0.14
31.45	68.4	1006.9	287.7	0.11
31.82	70.8	1008.2	309.6	0.11
31.68	71.5	1008.7	326.3	0.09
31.54	71.6	1006.7	331.4	0.09
31.7	69.2	1006.6	295.5	0.08
31.77	67.3	1007.8	281.4	0.08
31.87	67	1007.4	281.9	0.08
31.88	67.3	1006.6	288.2	0.09
31.74	67.7	1006	292.4	0.12
31.5	69.4	1006.7	295.3	0.1
31.03	70.1	1007.8	196.6	0.14
30.48	71.4	1006.6	181.7	0.11
27.58	88.3	1004.6	134.5	0.08
25.72	96.2	1004.4	136.1	0.09
25.87	96	1001.9	154.2	0.07
26.45	95	1002.5	212.9	0.09
26.38	95.5	1004.7	226.8	0.16
27.34	92.5	1004.6	268.2	0.16
27.62	91.8	1004.9	305.9	0.09
28.11	81	1004.3	238.5	0.18
28.03	86.8	1002.9	252.2	0.21
29.36	81.6	1003	244.1	0.26
29.45	82	1003.2	243.4	0.28
29.74	80.3	995.3	243.8	0.19
29.96	78.1	999.1	244.7	0.17
29.96	77.3	1005.6	245.3	0.11
29.63	79.9	1007.2	248.4	0.09
29.79	77.9	1007.8	252	0.08
29.67	78.1	1007.2	254.9	0.08
29.76	77.5	1006.6	252	0.09
29.4	79.9	1005.7	254.6	0.09
27.95	86.4	1005.7	270.4	0.08
28.72	83.6	1005.4	269.5	0.1
29.36	79.6	1004.9	250.2	0.17

755

29.41	78.5	1003.7	247.6	0.24
27.46	89.6	1002.4	250.7	0.16
26.9	91.9	1003.6	252.5	0.16
26.85	91.3	1005.5	254.2	0.09
28.85	81.2	1006.8	257.7	0.12
28.5	81.5	1006.6	327.9	0.09
28.02	85.9	1006.3	348.7	0.09
28.79	82.6	1005.7	348.2	0.09
29.32	79.8	1005.7	351.9	0.1
29.23	79.7	1005.9	350.7	0.08
29.35	78.9	1005	349.2	0.07
29.29	79.7	1005.4	348.5	0.08
28.09	84.5	1005.7	348.1	0.07
28.4	82.7	1005	349.8	0.09
28.68	81.8	1004.2	351.3	0.13
28.98	82.3	1006	349.5	0.13
29.05	82	1008	345.7	0.09
27.28	87.4	1007.5	342.2	0.08
28.91	82.9	1005.5	346	0.09
29.4	79.2	1004.9	337.8	0.08
29.4	78.5	1005.4	343.5	0.09
29.4	78.2	1004.9	344.3	0.11
29.46	77.3	1005.1	351.5	0.1
29.64	77.3	1006.1	351	0.14
29.57	77	1004.8	349	0.11
29.26	78.3	1004.5	352.5	0.12
26.43	94.4	1004.8	354.7	0.15
26.17	92.9	1003.5	353	0.17
25.91	94.1	1003.2	350.9	0.16
25.61	94.7	1002.4	354.5	0.24
25.25	95.8	1000.6	354.1	0.25
26.49	90.8	1000.6	349.7	0.15
27.61	88.3	1002	340.8	0.12
28.44	83.8	1004	350.1	0.13
28.66	83.3	1004.9	351.4	0.14
27.69	86	1005.3	348.2	0.13
28.32	82.9	1005.2	346.1	0.12
28.1	83.9	1005.4	346.1	0.15
26.47	92	1006.1	352.1	0.15
25.53	95.4	1006.8	348.1	0.11
27.8	85.9	1005.6	343.7	0.16
26.99	88.9	1004.8	347.2	0.1
27.22	86.7	1003.8	351.3	0.14
26.6	89.7	1001.6	353.3	0.17
26.09	93.4	999.6	354.5	0.21
26.72	89.5	1001.1	351.1	0.12
26.52	92.8	1003.8	343.4	0.09
27.11	89.6	1005.2	344.8	0.07
26.74	89.7	1004.8	347.7	0.08
26.75	88.3	1005.4	350.6	0.08
27.21	87.8	1007.6	350	0.09
28.05	83.4	1008.5	353.7	0.13

27.92	82.7	1009	353.1	0.08
28.17	78.6	1010.3	355.3	0.08
28.17	78.5	1009.8	350.7	0.12
28.05	79.4	1009	350.2	0.15
26.65	83.8	1009	356.8	0.16
25.87	87.4	1009.1	357.5	0.34
27.67	83.3	1008.4	357.1	0.25
27.63	83.6	1008.5	355.5	0.28
28.17	81.5	1008.5	356	0.14
28.61	77.1	1008.2	357.3	0.17
28.31	78.9	1007.8	356	0.09
29.08	75.6	1008.1	356.2	0.15
28.68	79.3	1008.9	358.5	0.18
28.18	84.8	1008.4	357.8	0.39
28.97	83.5	1008.1	356.3	0.34
29.14	82	1007.5	357.4	0.36
28.77	86.9	1008.5	358.4	0.42
26.67	92.7	1008.8	359.4	0.38
27.45	87.8	1007.4	357.8	0.35
28.34	82.5	1008.5	356.2	0.09
28.01	84.7	1007.5	358	0.09
26.25	95.3	1006.2	358.3	0.09
26.99	91.8	1004.3	356.1	0.17
27.89	87.1	1001.8	6.2	0.1
27.54	86.5	1002	24.6	0.14
26.92	87.1	1003.5	24.6	0.09
26.67	91	1003.9	24.9	0.16
26.58	86	1006.5	30.3	0.19
25.57	93	1006.3	33.2	0.22
27.52	87.9	1007	35.5	0.25
28.17	82.6	1006.5	93.1	0.15
26.83	92.6	1005	189.7	0.12
27.52	90.6	1008	214.6	0.08
28.03	86.5	1009.2	230.1	0.13
28.04	81.3	1009.6	258.9	0.18
27.96	78.9	1010.3	314.6	0.08
28.54	75.9	1010.8	321.4	0.12
28.43	74.9	1012.2	309.7	0.14
28.19	72.4	1012.3	315	0.11
28.07	73.7	1011.4	333.6	0.12
28.09	74.2	1011.6	320.5	0.17
27.79	75	1011.4	315.3	0.19
27.98	75.9	1010.6	317.9	0.19
28.02	75.2	1009.7	318.7	0.13
28.06	74.6	1009.4	308.1	0.12
27.87	79.8	1010.3	349.4	0.09
28.46	78.3	1009.6	18.1	0.14
28.59	77.9	1010.6	52.7	0.09
28.75	78.6	1010.8	32.8	0.1
29.18	79.8	1010.7	11.1	0.16
28.39	80.9	1010.7	11.8	0.14
29.25	78.5	1011.6	336.6	0.27

757

30.11	72.6	1012.5	356.3	0.15
30.8	64.4	1012.6	12.7	0.13
32.03	62.7	1011.9	13.7	0.18
32.21	61.6	1010.9	1.1	0.11
31.23	62.2	1010.4	351.9	0.1
31.49	53.4	1010.2	13.5	0.17
31.75	49.3	1010.1	21.1	0.26
31.69	51.1	1009.3	22.9	0.29
31.83	50.3	1009.5	9.3	0.27
31.17	56.5	1010.2	0.1	0.11
30.9	52.7	1009.2	9.4	0.09
30.95	45.3	1009.4	19.1	0.22
30.53	43	1009	14.5	0.23
30.91	37.8	1008.7	8.8	0.24
31.17	34.6	1009.4	15.2	0.39
29.69	44.5	1009.9	350.7	0.28
28.35	60.2	1009.8	336.9	0.17
28.41	69.6	1010.3	324.9	0.11
28.22	74.1	1011.5	321.8	0.2
28.46	68.8	1011.6	324.1	0.14
29.03	68	1012.7	329.3	0.13
29.25	59.3	1013.2	337.8	0.11
29.09	62	1012.6	336.4	0.13
29.32	54.4	1011.7	340.7	0.13
29.08	54.3	1012	336.7	0.12
28.66	58.7	1011.3	325	0.12
28.69	59.5	1010.5	333.4	0.14
28.36	63.4	1010	330.3	0.13
28.8	60	1011.2	352	0.12
28.85	57.2	1012.2	359.8	0.12
28.43	55.6	1011.8	353.5	0.16
29.08	50.6	1011.3	8.3	0.15
29.23	56.3	1010.6	5.5	0.1
28.57	55	1009.8	334.8	0.14
27.9	53.1	1009.4	325.3	0.13
26.65	61.8	1010.1	322.1	0.13
27.65	58.3	1009	343.9	0.14
28.3	52	1008.5	350.4	0.15
29.22	51.4	1007.2	28.8	0.16
29.36	70.1	1009.1	16.5	0.14
29.6	71.8	1011.6	322.4	0.11
29.71	70.7	1012.5	324.8	0.18
29.51	65.8	1012.6	337.6	0.21
30.37	63.3	1012.6	352.3	0.14
30.59	53.8	1013.3	3.7	0.16
30.04	48.8	1013.5	4.7	0.15
28.76	51.5	1013.3	9.6	0.19
27.7	47.5	1012.9	1	0.22
27.31	38.9	1012.3	6.2	0.23
27.33	42.3	1011.8	356.9	0.44
29.16	59.1	1012.8	29.4	0.33
29.09	67.7	1013.1	17.3	0.25

28.71	73.3	1012.8	2.5	0.3
29.16	69	1011.6	352.5	0.24
29.44	71.9	1010.9	344.1	0.26
30.04	59.8	1011.4	7.6	0.26
30.11	54.4	1013.9	9.2	0.09
28.72	51.5	1014.1	9.1	0.13
27.83	56.1	1012.7	3.3	0.2
28.11	54.9	1012.7	7.2	0.13
27.79	57.2	1012.9	344.8	0.12
27.62	63.9	1012.6	328.3	0.11
27.02	68.1	1012.3	335.4	0.14
26.93	68.2	1011.4	321.3	0.13
28.05	64.6	1012.8	354.1	0.11
28.67	61.4	1013.5	12.2	0.15
29.06	55	1012.6	10.1	0.17
28.46	56.5	1012	22.9	0.17
28.67	56.1	1012.8	9.3	0.28
28.2	56.9	1013.2	4.6	0.34
27.75	51.6	1012.5	10.9	0.3
27.66	48.8	1013.4	354.8	0.35
27.64	53.2	1012.9	334.6	0.35
27.79	61.6	1013.1	348.5	0.36
27.84	55	1013.5	355.3	0.29
27.37	54.7	1013.9	346.9	0.12
26.52	54.3	1014.1	334.8	0.15
26.09	62.1	1013.7	353.8	0.12
25.18	66.8	1014.2	327.6	0.12
24.43	63.5	1013.6	331.7	0.13
23.9	58.6	1013.5	335.6	0.12
24.2	64.1	1014.2	328.1	0.12
23.43	63.2	1013.9	326.7	0.15
24.1	59.7	1012.6	341.5	0.11
25.31	60.6	1013	9.6	0.09
25.99	71.1	1014.5	350.7	0.11
25.79	72.8	1013.5	1	0.13
24.93	63.3	1012.1	289.9	0.12
24.28	55.4	1012.4	327	0.16
23.75	53.4	1013.1	331	0.16
24.12	62.5	1014.4	335.1	0.14
21.41	79.22	1015.46	16.83	0.17
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
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27.03	59.2	1017.4	11.9	0.32
27.17	54	1016.7	17.5	0.28
27.15	53.1	1015.4	0.5	0.33
26.7	59.4	1014.2	351.5	0.32
27.14	53.2	1013.6	12.3	0.34
27.28	50.9	1013.9	353.9	0.32
27.6	51.8	1013.7	340	0.33

759

28.22	50.2	1012.7	9.3	0.33
28.31	48.7	1011.2	352.4	0.28
28.38	50.5	1010.9	6	0.32
26.51	61.8	1012.1	310.4	0.31
25.52	66.2	1012.7	310.8	0.3
25.19	59.3	1013.2	310.5	0.26
25.5	57.2	1012.3	322.5	0.34
25.25	49.2	1012.8	319.8	0.3
25.7	50.9	1012.5	315	0.33
25.73	51.9	1011.9	319.3	0.27
25.13	64.7	1013.3	313.3	0.32
25.16	65.2	1014.1	318.9	0.31
24.47	61.4	1013.9	323.7	0.3
24.27	65.4	1014.5	324.4	0.29
24.04	70	1014.9	327.1	0.23
24.94	64.1	1014.6	313.3	0.18
25.44	56.1	1013.2	340.2	0.26
26.25	57.5	1014.2	323.9	0.2
26.05	59.9	1014.6	313	0.22
25.19	61.5	1014.5	304.7	0.14
24.69	59.6	1013.9	322.9	0.18
24.11	54	1013.4	324.1	0.18
24.37	67.6	1012.7	315.9	0.19
24.44	69.8	1012.9	319.1	0.23
25.8	62.5	1011.9	301.5	0.21
26.4	50.5	1011.5	318.1	0.2
27.05	57.7	1011.9	311.3	0.2
27.41	56	1011.8	324.8	0.22
27.24	45.1	1010.3	310.6	0.2
28.29	50.6	1011.5	345.8	0.25
29.14	53.8	1011.6	0.2	0.23
28.24	59.2	1009.4	332.6	0.2
28.05	59.8	1010.5	323.1	0.2
26.79	61.1	1012.1	298.4	0.26
26.29	73.4	1011.3	315.2	0.27
27.4	71.1	1010.3	294.5	0.21
28.99	57.6	1010.8	299.7	0.24
29.47	49.2	1011	296.4	0.22
29.68	45.9	1010.5	301	0.16
30.12	47.8	1010.7	270.7	0.22
29.61	50.2	1010.4	294.9	0.3
28.81	55.4	1010.6	296	0.3
27.56	71.1	1011	296.8	0.3
27.67	69.7	1011.8	287	0.29
28.45	48.5	1011.3	300.7	0.3
26.87	72.7	1010	287.7	0.28
27.39	67.8	1010.5	307	0.31
29.64	51.8	1010.7	301.4	0.35
29.67	54	1011.4	335.3	0.32
29.55	62.8	1010.9	47.7	0.33
28.66	71.2	1011.8	174.3	0.28
29.85	56.1	1012.3	281.9	0.3

760

29.27	55.3	1012	344.7	0.31
28.34	72	1010.7	297.2	0.28
29.41	60.5	1010	321	0.32
29.3	50.4	1011	304.2	0.29
28.02	62.6	1011.3	300.9	0.29
27.94	73.3	1010.8	295.9	0.28
28.25	73.8	1011.1	291.7	0.29
28.39	73	1009.9	313.6	0.31
29.31	64.6	1009.9	307.5	0.3
28.52	73.1	1012.2	302.9	0.28
29.05	64.5	1011.8	324.3	0.31
28.82	69	1010.6	297.7	0.3
28.01	75.3	1010.9	302.8	0.28
28.35	70.5	1010.8	297.4	0.27
29.69	69.4	1009.9	299.9	0.28
29.83	66.8	1009	295.3	0.3
30.73	64.9	1007.7	290.8	0.3
31.73	71.4	1007.9	323.5	0.3
31.64	76.5	1008.8	255.9	0.31
31.22	72.5	1008.9	310.6	0.25
31.33	79	1009.7	172.3	0.31
32.69	69.5	1010	346.5	0.31
33.19	48.1	1009.1	318.9	0.28
31.87	50	1007.2	299.8	0.28
29.16	63.7	1008.7	298.9	0.28
29.41	59.9	1009.5	315	0.31
30.92	47.6	1008	336.4	0.29
31.62	58.5	1007.3	328.2	0.31
31.96	53.6	1006.6	275.2	0.29
30.66	67.3	1006	303.7	0.29
29.82	70.7	1007.2	297.1	0.26
29.46	69.2	1008.8	291.7	0.29
29.83	68.1	1007.5	302.5	0.27
29.66	74	1006.5	294.9	0.29
30.44	69.7	1007.4	302.9	0.3
29.86	76.9	1009	181.1	0.28
29.83	75.9	1009.8	174.5	0.23
29.58	72.9	1008.8	189	0.29
29.68	70.5	1010	207.4	0.31
30.02	68.8	1011	304.7	0.29
30.75	58.5	1009.7	309.9	0.29
30.98	58.6	1009.8	300.5	0.3
30.57	68.2	1009.6	283.8	0.3
30.43	76.7	1009.6	236.7	0.22
30.45	76.4	1009.6	188.5	0.12
30.22	77	1010.3	161.7	0.19
30.01	76.1	1010.2	178	0.22
29.85	73.7	1010.7	29.2	0.24
30.27	74.9	1011.4	55.2	0.21
30.7	73.5	1010.6	48.8	0.25
30.48	74.2	1008.6	97	0.23
30.43	72.2	1009.9	133.7	0.24

30.43	69.4	1011.6	134.8	0.24
30.31	72.9	1009.2	127.4	0.25
30.92	68.6	1008.3	131.8	0.26
30.5	69	1008	166.7	0.25
30.36	71.9	1007.9	189.2	0.25
30.22	69.8	1008.5	140	0.25
30.29	66.5	1008.2	115.9	0.21
30.73	69.5	1006.8	116.2	0.27
30.66	70.3	1006.2	115.9	0.26
30.68	72	1006.9	115.5	0.27
30.73	72.6	1007.9	110.8	0.26
30.99	71.2	1008.2	79.5	0.28
31.14	71.6	1008.2	101.4	0.28
31.06	71.6	1008.2	80.1	0.31
31.02	72.3	1007.4	92.1	0.31
31.28	72.4	1006.2	132.4	0.26
30.99	71.4	1006.4	136.1	0.36
31.01	69.1	1005.5	203.4	0.48
31.24	67.6	1004	135.4	0.36
31.17	66.5	1003.2	221.9	0.36
31.15	65.6	1003.5	158.2	0.39
31.1	66.1	1005.5	184.7	0.42
31.14	67.4	1006.3	185.4	0.52
31.15	67.9	1007.1	204	0.48
31.29	68.8	1005.8	188.2	0.46
31.4	70.1	1006	212.4	0.44
31.86	70.5	1007	176.3	0.36
31.91	70.2	1008.3	199.6	0.23
31.65	71	1009	181	0.22
31.49	73.2	1007.3	178.7	0.21
31.75	70	1004.6	114.2	0.22
31.67	68.5	1002.9	67.8	0.24
31.87	69	1004.3	57.5	0.18
31.86	67.2	1006.7	28.9	0.23
31.54	66.9	1008.4	25.5	0.18
31.65	66.3	1008.2	28.9	0.21
31.47	67.6	1008.2	19.4	0.26
31.31	68.6	1008.9	18.1	0.24
31.66	67.6	1009.4	26.2	0.26
31.58	67.5	1009.7	15.7	0.28
31.68	67.1	1008.2	11.6	0.27
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30.48	76.4	1006.1	340.4	0.34
30.09	75	1006.6	332.8	0.32
30.79	69.9	1005	313.9	0.2
28.02	81.9	1004.6	252.8	0.23
28.58	79.9	1004.8	204.7	0.29
27.72	84.5	1005.6	203.3	0.31
25.92	94.7	1005.4	187	0.3

28.09	86.7	1004.8	57.4	0.32
27.87	86.3	1004.3	124.5	0.24
27.4	90.4	1004.3	27.5	0.29
28.93	81.5	1004.7	105.2	0.21
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27.53	89.7	1003.2	84.7	0.24
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27.94	89.4	1002.9	84.7	0.12
25.78	97.1	1003.4	215.4	0.14
26.88	93	1003.3	131.9	0.18
26.8	94.4	1003.4	94.7	0.21
28	91.5	1005.4	140	0.18
28.84	85.7	1005.8	141.9	0.17
28.18	89	1004.4	149.9	0.16
26.28	99.3	1002.4	152.8	0.16
26.77	95.6	1001.2	168.7	0.19
28.09	91.8	1001.8	142.3	0.14
28.28	88	1001.4	140.2	0.15
28.65	85.4	1003.9	140	0.17
28.56	86.2	1007.3	141.7	0.13
27.29	90.7	1006.6	142.8	0.17
27.67	90.1	1006.2	143.8	0.19
27.06	93.2	1004.4	139.2	0.14
27.24	89.9	1003.6	143.1	0.19
28.26	86.8	1005.9	136.8	0.27
28.36	85.5	1007.8	140.4	0.11
27.65	86.6	1007.6	141.5	0.11
28.2	85.2	1006.4	142.4	0.11
28.5	85	1006	140.1	0.11
28.92	84.9	1007.7	139.3	0.14
28.72	85.7	1009.3	142.5	0.21
28.69	84.4	1009.3	147	0.2
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28.89	80.9	1007.6	141.1	0.12
28.69	81.4	1007.4	141.1	0.15
29.07	80.4	1006.8	140.9	0.11
28.97	81.5	1007.3	140.6	0.12
29.12	80.3	1006.5	145.2	0.09
28.99	80.7	1005.8	147.6	0.1
28.88	81.2	1006	146.8	0.12
28.64	83.1	1007.5	141	0.15
28.39	86	1008.1	127.8	0.18
29.14	79.1	1008.7	152.7	0.17
29.15	78.1	1009.4	159.4	0.16
28.84	80	1009.4	150.6	0.13
29.06	78.9	1008.9	164.2	0.16
29.54	76.7	1009.8	172.5	0.15

28.51	82.6	1009.7	253.1	0.22
29.63	78.8	1009.2	266.4	0.19
28.56	86.8	1009.9	294.8	0.2
27.5	91.1	1009.4	7.2	0.32
28.14	88	1008.2	339.6	0.39
26.85	92.6	1007.7	319	0.38
27.1	90.6	1008	313.9	0.38
26.84	91.2	1008.5	232.1	0.37
27.85	87.5	1009	180.4	0.35
29.11	80	1007.9	153	0.31
29.01	80.7	1007.5	151.9	0.38
27.87	88.1	1006.4	145.5	0.29
27.71	88.6	1007.4	144.1	0.23
28.49	85.7	1009.5	142.1	0.32
28.79	86.6	1009.1	161.3	0.32
26.65	93.4	1007.5	42.1	0.37
26.15	97.5	1006.2	7.2	0.33
25.88	99.2	1006.5	347.6	0.39
28.21	92.8	1005.8	190	0.37
26.16	97.1	1005.5	330.6	0.38
25.19	98.6	1006.6	352.9	0.39
27.62	90	1007.5	19.9	0.39
28.6	86.5	1007.8	23.8	0.38
28.85	83.1	1007.9	84.4	0.32
28.68	84.2	1009.1	100.3	0.29
28.95	82.2	1011.7	295	0.27
27.92	90	1012.3	27.6	0.26
28.81	84.3	1012.1	243.6	0.24
28.91	79	1010.4	275.6	0.26
29.37	76	1010.1	277.1	0.26
29.1	76	1011.2	246.4	0.26
29.52	77.4	1011.6	236	0.25
29.84	81.3	1011.3	246.1	0.25
29.28	81.6	1011.1	247.1	0.22
29.01	84.3	1010.4	264.3	0.23
28.46	87.3	1009.3	299.4	0.25
27.93	85.4	1009.8	313.7	0.26
28.49	87.1	1011.2	317	0.29
29.74	83.2	1011.1	277.9	0.23
29.63	81.1	1010.4	256	0.26
29.62	80.4	1009.1	261.3	0.25
29.1	81.4	1008.4	266.3	0.28
29.58	83.2	1007.3	246.6	0.25
29.69	83.9	1006.8	225.8	0.23
29.82	86.8	1005	252.7	0.23
29.03	90.3	1003.6	308.6	0.3
29.09	87.3	1003.4	116.6	0.25
24.3	99.8	1006.3	32	0.23
25.67	99.9	1007.4	14.7	0.24
26.66	98.6	1008.7	29.5	0.29
28.06	90.3	1010.1	118.6	0.29
28.17	85.1	1010.5	99.4	0.25

764

28.24	79.8	1010.7	100	0.24
28.15	78.8	1012.1	313.7	0.2
28.43	77	1012.8	260.2	0.23
30.09	70.4	1012.4	355	0.22
28.84	77	1013.2	350	0.21
29.44	76.3	1013.4	302.7	0.21
30.25	77.2	1012.6	320.8	0.22
29.51	73.8	1012.2	338.3	0.26
29.63	71.4	1011.5	330.6	0.24
29.3	71	1011.1	322.2	0.21
29.46	67.9	1012.7	311.9	0.23
28.94	67.9	1012.8	316.4	0.25
30.19	71	1012.7	336.1	0.26
30.42	56.2	1013.8	320.6	0.26
29.45	58.8	1012.9	318.3	0.26
28.97	52.7	1011.5	311	0.27
28.17	56.3	1011.8	326	0.29
29.56	53.2	1012.4	342.2	0.24
30.01	45.7	1012	342.7	0.23
29.55	46.6	1011.4	345.3	0.24
29.78	49	1013	324.1	0.24
30.13	50.1	1013.4	343	0.24
29.92	45.8	1012.7	350	0.24
29.88	49.1	1012.3	342	0.25
30.21	41.8	1012.5	343.3	0.26
29.83	40.8	1012.7	332.9	0.25
29.73	58.9	991.7	334.2	0.25
29.95	65.2	1011.5	336.6	0.24
29.75	62.3	1010.3	317.4	0.23
30.51	64.2	1008.4	325.5	0.26
30.46	70.6	1008.8	314.5	0.27
30.41	77.6	1007.7	334.1	0.26
25.62	83.2	1005.5	316.8	0.21
23.46	92.7	1000.2	284.2	0.22
25.3	85.7	1006.2	189.2	0.27
27.18	81.4	1010.6	117	0.24
27.22	82.2	1011.6	292.8	0.28
26.92	84.8	1009.7	313.2	0.27
27.25	85.2	1009.2	335.6	0.3
28.02	80.4	1010.3	300.9	0.28
27.36	78.1	1012.2	320	0.29
27.91	75	1013.9	327.4	0.27
27.86	71.3	1015.2	324.2	0.27
26.92	71.9	1015.3	328.5	0.34
27.05	72.1	1014.3	0.7	0.35
27.74	71.7	1014.6	324.1	0.35
27.94	71.3	1014.7	328.3	0.32
27.28	75.5	1014.3	276.2	0.32
27.45	72	1013.3	273.1	0.3
28.01	68.6	1013.3	334.4	0.33
28.52	67.2	1014.4	355.2	0.34
27.65	64.5	1015	340.7	0.32

26.93	57.6	1014.9	336.6	0.34
26.68	57.8	1014.8	336.4	0.35
26.84	57.6	1014.2	323.5	0.38
27.38	61.9	1014.1	345.6	0.36
26.63	66.8	1014.3	325.8	0.36
26.49	73.4	1013	309.2	0.37
26.69	74	1011.8	326.7	0.39
26.55	73.2	1012.1	338.1	0.39
26.89	70.7	1012.4	331.8	0.39
27.52	63.3	1012.8	3	0.37
27.48	62.5	1012.8	337.9	0.39
27.76	59.8	1012.3	333.5	0.35
27.57	58.9	1012.3	329.7	0.35
27.55	61.3	1012.8	343.5	0.39
27.5	62.4	1013.4	344.1	0.36
27.45	66.1	1014.5	321.1	0.39
27.48	68.1	1014.2	0.1	0.39
27.13	71.1	1013.8	325.8	0.39
26.59	72	1014.8	312.2	0.37
28.09	63.8	1015.1	338.8	0.26
28.78	59.3	1016.2	334.8	0.28
28.63	59	1015.8	335.5	0.23
28.8	48.7	1015.1	351.1	0.24
27.73	49.1	1015.3	319.5	0.23
26.68	52.4	1015.2	332.5	0.24
26.04	48	1014.3	2.4	0.21
24.48	59.1	1013.1	325.1	0.28
24.18	62	1012.7	314.4	0.24
23.88	55.8	1012.3	301.1	0.25
24.08	54.7	1012.4	292.7	0.25
24.37	48.8	1013.3	314	0.31
24.12	57.6	1013.2	330.6	0.39
26.57	54.7	1012.4	337.5	0.37
27.91	57.5	1013.8	1	0.36
26.88	68	1015.4	299.6	0.38
25.19	66.6	1014.7	269.5	0.35
25.03	72.1	1012.2	320	0.39
26.35	64.1	1011.2	337.2	0.35
27.24	51.4	1012.3	343.2	0.34
26.77	53.3	1013.5	322.4	0.35
26.34	53.8	1013.3	333.1	0.37
26.75	52.8	1013	347.7	0.38
27.08	63.2	1013.5	353.4	0.36
26.69	72.7	1015.3	234.6	0.38
24.98	50.9	1017.6	280.7	0.35
24.05	49.9	1017.6	313.7	0.37
26.57	55.2	1017.6	334.4	0.36
28.12	56.7	1018.6	338.8	0.34
27.4	50.4	1018.9	299.6	0.3
26.41	59.9	1017.6	224.7	0.29
26.76	55.4	1015.5	338.4	0.35
27.34	47.7	1015.9	327	0.33

27.2	48	1016.4	335.6	0.27
26.71	52.3	1015.2	341.1	0.27
25.93	60.1	1015.2	340.2	0.34
25.84	63.3	1014	318.2	0.38
25.62	54.7	1014.1	322.3	0.38
26.95	44	1015	345.9	0.33
26.49	46.3	1015.2	340.9	0.34
27.07	43.2	1015.5	318.5	0.38
26.23	47.7	1015.8	326.7	0.32
27.24	46.6	1015.5	338.2	0.23
26.57	51	1015.5	4.5	0.22
26.27	61.9	1014.5	322.4	0.28
25.82	68.4	1013.9	277.1	0.22
25.27	65.2	1013.9	290.3	0.25
25.09	68.3	1014.8	314.6	0.27
25.6	69.7	1015.1	317.4	0.29
27.63	59.6	1015.2	2.6	0.29
28.11	51	1015.1	15.5	0.31
26.64	70.4	1013.7	307.4	0.36
26.23	71.6	1013	280.6	0.35
25.4	70.5	1013.2	259.3	0.25
25.06	64.1	1014.5	284.7	0.24
25.4	68.2	1015.5	295.3	0.22
25.63	58.1	1013.9	291.9	0.22
25.72	48.9	1012.6	300.2	0.21
26.23	46.1	1012.3	279.8	0.21
26.05	41.1	1013.5	281.4	0.25
26.35	46.9	1011.5	270.4	2.63
26.07	55.3	1013.3	304.9	0.37
25.87	63.7	1013.8	329.5	0.39
26.36	68	1013.8	331.6	0.36
26.43	79.1	1013.9	331.9	0.32
26.98	69.8	1013.6	310.4	0.26
25.72	70.8	1013.1	265.9	0.32
25.05	68.8	1013.1	280.2	0.3
24.75	69.9	1013	284.5	0.28
26.41	64.1	1013.1	287.3	0.28
29.08	52.1	1012.4	326.5	0.36
29.86	40.3	1012	325.1	0.33
29.16	50.7	1012.7	326.1	0.22
27.79	70.4	1012.7	304.1	0.32
27.24	72.3	1012.6	291.6	0.28
26.62	74.1	1012.6	261.7	0.26
26.78	74.7	1013.1	259.8	0.28
26.81	74.4	1014.5	300.2	0.31
26.49	68.9	1015.4	265.2	0.25
27.43	60.7	1014	261.7	0.21
28.68	49.9	1013	295.6	0.34
29.61	54.9	1012.7	346.6	0.35
29.4	72.9	1014.4	325.8	0.3
30.31	61.6	1014.7	307.8	0.29
30.92	53.1	1013.4	325.4	0.33

28.7	72.5	1013.1	8.4	0.29
27.54	76.7	1012.6	281.1	0.28
27.31	76.7	1012.3	316	0.27
27.82	79.1	1013.5	304	0.33
29.48	75.1	1013.7	343.3	0.38
30.18	71.3	1013	38.5	0.38
29.28	80.6	1012.4	35.8	0.37
29.61	73.3	1010.5	323.9	0.36
30.33	55.6	1008.5	291.6	0.32
28.73	62.8	1007.6	281.2	0.35
28.18	69.8	1008.7	326.2	0.35
28.41	76.1	1009.5	309.8	0.35
28.3	75.2	1009.8	275.4	0.33
28.98	68.8	1011.2	264.9	0.27
28.73	68.9	1012	297.7	0.26
29.36	65.4	1010.9	301.5	0.27
28.13	70.1	1012.2	3.2	0.34
28.3	72.5	1012.3	66.7	0.37
28.81	69.7	1011.8	113.6	0.32
28.95	73.9	1011.5	28.8	0.37
30.15	66.9	1011.6	306.1	0.37
30.07	53.2	1011.6	315.3	0.37
30.59	61.2	1010.8	267.6	0.37
30.01	62.6	1010	284.8	0.36
30.08	70.7	1010.5	285.6	0.37
31.31	67.7	1011.1	46.7	0.38
30.19	80.5	1011.9	105.7	0.33
29.43	81.5	1009.6	356.5	0.36
30.32	61.2	1008.8	286.6	0.36
30.37	66.3	1008.4	265.7	0.34
29.53	73.7	1009.7	74.9	0.4
29.89	75.8	1009.4	54.2	0.4
30.27	76.2	1010.7	197	0.4
30.67	75.8	1009.8	296.6	0.39
31.47	71.6	1011	70.5	0.37
30.27	78.1	1011.1	65.8	0.4
29.97	75.5	1010.5	97.9	0.39
30.55	71.8	1009.4	75.7	0.37
30.86	71.6	1009.5	272.4	0.36
30.24	75.5	1010	254.6	0.37
31.66	69.9	1009.5	283.4	0.32
31.79	70.8	1009.5	257.1	0.23
31.32	67.1	1009.4	290.9	0.23
31.38	74.2	1010.9	257.1	0.13
31.45	71	1012	246.9	0.21
31.31	69.7	1011	257.1	0.2
31.18	72.4	1009	255.3	0.2
31.18	72.7	1010.3	63.5	0.19
31.49	72.4	1011.4	269.5	0.2
31.02	73	1010	289.9	0.23
31.27	71.1	1008.8	245.4	0.17
31.33	69.4	1007.1	250.7	0.14

30.86	73.2	1007	251.6	0.17
31.08	72.9	1007.1	252.9	0.19
31.96	75.4	1006.1	255.8	0.18
33.21	71	1006.9	241.3	0.23
33.33	69.9	1006.1	262.7	0.21
32.85	74.1	1006.4	202.9	0.18
32.3	71.5	1006.8	243	0.18
31.76	75.7	1007.4	74	0.3
32.03	71.6	1007.6	110	0.3
32.12	71.2	1007.3	94.4	0.21
32.16	68.7	1007.3	60.4	0.18
31.99	69.9	1007.1	144.2	0.2
32.37	71.4	1007.7	265.3	0.19
32.69	74	1006.1	243	0.12
31.97	79	1005.7	191.9	0.17
32.31	77.3	1004.9	227.3	0.18
32.44	76.2	1005.7	139	0.13
32.8	75.9	1006.6	146.5	0.14
32.85	74.6	1007	148.9	0.14
32.68	72.2	1007.2	131.1	0.15
32.93	72.4	1007.8	163.1	0.14
33.11	72.5	1008.3	147.2	0.2
33.19	72.4	1008	151.8	0.22
33.1	71.6	1008.8	147.5	0.29
32.94	70	1009.2	179.6	0.4
32.77	67	1009	143.4	0.4
32.91	69.6	1009	119.8	0.4
32.97	70.4	1009.3	117.6	0.4
32.49	74.3	1010.9	3.3	0.34
33.2	71.8	1011.8	3.3	0.34
33.3	68.3	1012.3	19.2	0.34
33.33	69.1	1010.8	356.5	0.29
32.53	71.6	1008.5	328.5	0.16
31	81.6	1007.9	333.6	0.18
31.37	77.1	1007.8	37.3	0.25
31.31	74.7	1006.4	47.8	0.22
32.11	73.9	1005.2	36.2	0.23
30.24	80.9	1004.5	62.4	0.25
30.62	82.4	1003.5	346.2	0.22
30.77	84.6	1003.5	360	0.24
29.6	89.1	1004.6	7.3	0.25
28.32	93.3	1004.6	324	0.36
27.71	99.3	1004.2	323.4	0.29
29.86	86.9	1005.4	286	0.36
30.19	85.5	1005	34.2	0.34
30.03	86.5	1005.5	342.4	0.31
29.99	88	1007.2	274.1	0.31
30.6	84.7	1008.3	306.8	0.33
30.68	87	1007.1	320.7	0.34
27.87	98.6	1007.3	339	0.33
26.95	99.2	1005.5	333.9	0.35
27.42	94	1003.8	331.9	0.37

769

29.94	84	1002.6	337.7	0.35
30.64	82.3	1003.9	274	0.28
29.57	92.1	1005.4	343.3	0.35
29.83	89.2	1005.6	317	0.31
29.77	91	1005.1	337.1	0.29
31.37	81.1	1004.1	333.8	0.21
28.51	89.5	1004.5	321.3	0.26
27.44	95.5	1003.9	317.6	0.23
28.75	90.9	1003.6	303.9	0.26
29.55	88.3	1005.1	318.1	0.17
27.85	95.9	1006.5	288.2	0.3
27.94	96.5	1007.3	324.1	0.35
27.67	95.4	1009.2	253.2	0.38
27.05	95.9	1009.9	308.2	0.38
27.29	99.5	1009.8	340.4	0.39
29.64	90.5	1009.7	342.2	0.38
29.83	85	1008.6	323.8	0.33
29.46	87.4	1008.9	330.7	0.34
30.73	84.8	1008.8	335.6	0.38
29.43	90.7	1007.4	6.1	0.39
28.62	95.8	1004.6	358.9	0.38
28.18	95.2	1003.9	300.7	0.35
28.75	90.7	1005	277.6	0.37
29.41	90	1003.4	341.6	0.38
28.59	90.8	1003.1	323.5	0.32
27.37	98.5	1004.4	352.1	0.36
27.5	99.3	1005	332.3	0.28
28.43	93.2	1005.3	325.7	0.3
27.08	98.6	1005.1	329	0.32
28.94	90.2	1003.2	332.9	0.27
27.99	94.6	1002.8	323.9	0.23
29.23	89.5	1003.4	324.5	0.17
29.07	91.4	1004.6	333.3	0.33
28.43	91.9	1004.9	331	0.37
27.93	95	1004.9	321	0.36
26.8	99.2	1005.6	322.5	0.31
28.13	93.3	1006.8	322.1	0.19
28.81	88.7	1005.4	321.3	0.19
28.19	92.1	1003.4	330.9	0.27
29.52	86.4	1004.6	323.6	0.32
30.18	83.6	1007.1	329	0.34
29.88	84.3	1008.2	324	0.38
27.64	96.3	1006.8	306.1	0.39
29.06	90.6	1006.2	262.1	0.34
29.12	88.3	1007.6	220.8	0.34
30.05	82.8	1008.1	238.2	0.31
29.41	86.7	1008.4	276.4	0.33
28.2	94.9	1007.7	352.1	0.39
28.4	92.3	1010.9	354.4	0.39
28.93	90.1	1063.2	353.9	0.4
29.62	87	1065	0.3	0.38
29.04	91.3	1007.8	359.8	0.39

770

27.25	97.1	1006.9	15.5	0.35
26.46	97.6	1007.4	4.7	0.34
27.69	94.5	1009.4	347.1	0.35
27.09	97	1011	347.4	0.35
27.52	94.3	1010.1	355.4	0.4
28.23	92.7	1009.4	353.9	0.4
29.72	87	1008.5	15.9	0.37
28.42	92.7	1007	5.9	0.37
28.44	92.4	1006.4	4.7	0.38
28.73	90.7	1006.1	339.2	0.39
27.67	98.4	1005.3	1.5	0.31
29.5	90.7	1005	329.4	0.22
27.77	99.7	1006.3	338.7	0.24
25.85	99.2	1005.3	328.2	0.24
25.71	99.7	1006	324.9	0.27
27.87	90.3	1008.4	328.2	0.31
27.92	89.5	1010.5	337.7	0.36
28.29	84.4	1009	334.7	0.36
28.13	85.7	1007.5	334.3	0.36
27.58	89.7	1009	332.6	0.31
27.78	89.9	1008.8	342.7	0.36
26.88	93.6	1007.2	337.6	0.38
26.35	98.6	1005.9	356	0.39
26.57	92.7	1006.4	346.4	0.34
27.74	87.3	1007.3	340.3	0.3
28.04	86.8	1008.7	328.7	0.32
28.74	80.4	1009.8	343.4	0.35
27.89	85.7	1009	346.1	0.38
27.94	84.6	1008	333.3	0.35
28.64	84.1	1008.2	350.7	0.37
27.71	88.7	1008.4	346.5	0.34
28.11	86.9	1007.8	26.3	0.3
28.42	84.1	1006.7	24	0.37
27.56	87.6	1007.5	5	0.37
28.48	86.7	1009	320.9	0.31
28.74	82.4	1010.6	340	0.35
29.27	81.7	1011.5	351.4	0.36
29.94	80.2	1010.5	31.6	0.31
29.57	80.7	1010.1	9.9	0.3
29.49	80.2	1010.9	39.4	0.38
30.33	78.6	1010.9	37	0.38
30.14	76.8	1010.5	167.5	0.37
30.09	74.1	1010.2	168.2	0.39
30.72	70.5	1010.9	14.5	0.39
30.02	75.1	1010.2	162.8	0.39
31.47	68.4	1008.5	61.6	0.37
31.51	64.1	1007.9	54.1	0.33
31.42	67.1	1008.3	38.5	0.26
29.93	78	1008.6	9.8	0.28
29.47	77	1007.4	1.9	0.37
30.19	80.2	1006.7	25.3	0.38
30.86	80.7	1006	15.3	0.37

771

30.44	82.1	1007	5.4	0.44
29.99	79.3	1007.9	6.9	0.4
29.7	75.8	1008.5	355.9	0.4
25.82	90.1	1011.1	345.9	0.4
27.79	81.6	1012.6	358.2	0.4
28.52	77.5	1012.3	16.5	0.4
28.53	78.7	1010.8	3.8	0.39
28.39	85.3	1010.2	2.4	0.4
29.13	83	1008.6	8.8	0.4
29.5	82.7	1006.3	9.3	0.4
28.98	84.7	1007.1	2.1	0.38
28.02	91.8	1008.5	350.3	0.39
28.16	91.9	1009.4	350.3	0.39
28.95	89.1	1007.6	353	0.4
28.37	92.5	1006	358.7	0.39
28.78	85.4	1008.1	3.2	0.38
28.37	81.9	1009.8	8.7	0.4
27.74	86	1010.7	0	0.38
29.37	79.3	1011.4	356.3	0.4
29.94	73.4	1012.9	345.6	0.38
30.13	69.6	1013	13.3	0.38
29.48	70.5	1012.7	358.4	0.38
29.92	67.5	1013	11.3	0.37
30.28	55.6	1012.8	25.2	0.37
29.69	55.8	1010.7	52.3	0.38
29.16	49.9	1010.5	32.4	0.39
29.66	55.5	1012.2	109.5	0.38
29.56	71.8	1012.6	354.4	0.38
29.18	77.2	1012.7	25.8	0.37
29.1	75.3	1011.2	24.1	0.36
29.47	58.2	1009.9	28.5	0.37
29.27	57.6	1008.8	31.7	0.39
28.66	77.2	1011	222.6	0.38
28.61	76.5	1013.6	150.2	0.38
28.83	76.8	1012.5	43.8	0.36
28.16	81.9	1011.1	351.8	0.35
28.68	80.9	1010.4	12.9	0.35
29.32	73.3	1013	19.4	0.28
28.49	77.7	1014.2	38.2	0.36
27.85	81.6	1012.2	73.8	0.34
29.83	75.1	1011.2	6.2	0.36
29.93	72	1012.4	0.3	0.35
29.99	72.6	1012.5	355.8	0.26
29.16	80.4	1010.6	356.1	0.25
28.84	81.9	1009.7	346.6	0.33
29.01	77.6	1010.3	344.3	0.27
28.44	77.5	1008.6	288.4	0.38
26.02	80.4	1011.9	345.8	0.36
27.23	78	1013.3	5.4	0.38
28.14	77	1012.6	12.3	0.25
28.31	79.5	1011.1	15.1	0.39
28.1	76.2	1011.9	12.1	0.29

772

28.87	71	1012.7	5.2	0.35
28.75	70.4	1011.7	0.3	0.37
28.24	72.4	1011.4	31.2	0.37
27.48	73.2	1011.9	28.8	0.36
28.31	71.9	1011.9	38.4	0.36
28.16	72.7	1010.7	55.7	0.33
28.32	70.1	1009.5	74.1	0.32
27.87	61.9	1010.4	126.3	0.37
26.17	49.4	1010.2	97.7	0.27
26.21	60.7	1009.1	56.7	0.38
25.61	71.5	1010.1	38.2	0.28
24.99	63.3	1010.2	48.8	0.26
23.53	62.5	1011.6	110.4	0.26
23.43	55.3	1011	126.1	0.24
22.6	57.2	1012.7	124.7	0.36
23.72	58.1	1013.1	133.6	0.38
25.72	47.8	1013.1	160.1	0.37
24.02	57	1013.8	155.2	0.35
25.13	56	1013.2	15.9	0.39
25.51	48.5	1013.8	123.2	0.38
24.83	47	1014.8	95	0.39
24.58	45.3	1016.3	59.9	0.38
25.31	48.8	1014.4	107.1	0.38
23.71	56	1011.7	22.2	0.39
22.84	68.1	1011.6	37.9	0.36
22.96	78.5	1012.8	45	0.37
23.75	74.9	1012	18.5	0.38
23.76	78.4	1012.3	5.5	0.39
24.25	78.4	1012.3	23.3	0.39
25.47	71.5	1012.4	56.7	0.38
24.97	71.3	1013.1	38.6	0.36
24.43	63.1	1013.5	50	0.33
23.31	47.8	1013.3	52.3	0.3
22.46	50.7	1011.9	81.4	0.31
24.08	49.5	1011.6	99.3	0.35
25.19	59.8	1012.1	97.7	0.33
26.66	56.3	1012.5	80.2	0.37
26.66	56.4	1012.1	116.9	0.38
26	47.7	1013.1	109.4	0.34
24.47	36.3	1012.8	125.2	0.37
23.59	46.6	1011.6	75.7	0.38
23.7	54.6	1011.5	64.6	0.37
24.61	52.1	1012.3	110.1	0.38
24	64	1012.9	62.9	0.35
24.2	62.5	1012.5	69.8	0.34
24.05	60.4	1012.6	48.7	0.37
23.86	65.8	1013.3	44.1	0.32
23.54	60.8	1014.6	70.5	0.3
23.24	68	1014.3	66.1	0.39
23.87	67.9	1013.1	45.8	0.38
24.2	62.5	1013.6	50.8	0.37
23.82	66.5	1012.5	41.5	0.37

24.77	65.3	1013.7	44.8	0.38
24.87	62.2	1014	45.9	0.39
24.78	64.8	1015	56.6	0.39
24.77	63.9	1015.5	48.9	0.39
24.71	68.3	1015.5	37	0.34
24.79	64.8	1015.1	42	0.34
24.95	55.5	1015.6	56.6	0.36
25.41	59.9	1015.6	44.6	0.4
24.49	65.9	1014.9	54.7	0.38
24.38	56.5	1013.8	42.1	0.34
24.42	55.1	1014.3	46.5	0.38
25.13	56.8	1014.2	79.1	0.32
25.66	63.3	1014.8	23.6	0.28
26.68	58.2	1014.7	86.9	0.27
27.34	54.1	1014.2	93.7	0.31
27.23	52.2	1014.6	40.5	0.35
26.81	51.8	1012.8	29.8	0.35
27.05	52.2	1012.5	14.8	0.35
25.64	62	1012.8	39.1	0.35
25.18	67.3	1010.6	39.8	0.34
24.82	62.6	1010	33.4	0.35
25.24	61.4	1011.4	22.9	0.35
26.19	68.8	1012.4	17.3	0.39
26.05	66.6	1012.3	24	0.35
25.5	66.8	1011.2	29.8	0.3
25.02	73.1	1010.5	39.4	0.24
25.4	69.8	1011.9	10.3	0.36
24.64	69.5	1013.4	31.1	0.24
24.51	60.8	1014.1	36.7	0.23
24.43	60.6	1013.2	30.9	0.22
24.53	58.2	1014.1	45.5	0.24
24.93	52.4	1014.8	37.8	0.23
25.92	42.9	1014	37	0.27
26.93	53.6	1013.1	22	0.3
26.57	71.4	1013.8	36.7	0.29
26.13	73.9	1013.8	13.3	0.35
25.92	69	1011.8	17.1	0.3
25.98	51.2	1011.9	32.4	0.27
27.22	49.8	1012.8	38.9	0.3
28.56	50.8	1012.7	13	0.29
28.45	56.8	1012.2	30.4	0.32
28.13	58.7	1011.9	26.3	0.38
28.03	52.6	1011.9	35.1	0.29
27.6	55.7	1012.1	40.9	0.3
27.7	69	1012	27	0.39
28.64	58.9	1013.2	45.5	0.39
29.62	56.8	1013.9	35.1	0.39
29.52	56.7	1012.9	40.8	0.39
27.56	63.9	1012.6	15.2	0.39
27.32	54.3	1012.8	28.9	0.39
27.72	46	1011.4	26.9	0.39
28.9	44.1	1010.6	21	0.39

774

29.3	44.7	1011	17.6	0.39
28.37	64.3	1010.7	5.6	0.4
29.75	51.2	1009.8	14.6	0.39
31.82	47.4	1008.1	39.1	0.39
31.24	40	1009.1	355.8	0.39
28.94	63.8	1009.4	355.9	0.39
26.39	80.8	1008.6	0.5	0.89
28.45	65.1	1009.5	8.2	0.4
27.48	72.6	1011.1	10.5	0.4
27.54	73.6	1012	11.3	0.4
27.45	72.2	1011.5	28.1	0.4
27.53	72.4	1011.8	23.9	0.4
27.7	73.7	1011.7	13	0.4
28.7	74.8	1011.2	12.8	0.4
29.48	77.1	1011.1	2.1	0.4
30.27	70.4	1010.5	26.2	0.39
31.09	60	1011.1	34	0.35
30.1	65.9	1012.1	21.4	0.36
29.97	66.4	1012	39	0.37
27.72	71.5	1012.7	22.4	0.38
27.71	73.7	1012.2	16.8	0.38
27.96	73.5	1012.2	344.8	0.38
27.68	72.5	1011.6	358.5	0.38
27.9	76	1011.6	347.6	0.38
28.54	74.1	1011.2	347.2	0.38
28.4	77.1	1011.9	338.4	0.38
28.9	78.3	1012.6	3.6	0.38
28.98	79.1	1012.7	14.8	0.38
29.06	78.3	1012.8	22.1	0.38
28.7	76	1012.5	19.9	0.3
29.65	74.2	1010.8	26.7	0.33
30.08	73.1	1011	17.8	0.36
30.13	73.8	1009.8	34.5	0.36
29.29	74	1009.7	357.2	0.33
29.49	76	1010.5	1.4	0.35
29.77	76.8	1010.9	7.5	0.34
30.05	76.3	1010	16.6	0.34
29.63	74.7	1008.6	28.4	0.32
29.54	71	1008.8	346.5	0.34
29.76	74.1	1008.9	4.9	0.32
29.29	76.3	1009.2	340.9	0.31
29.47	75.4	1008	350.6	0.35
29.59	76	1008.5	346	0.32
29.84	69.4	1008.4	11.1	0.35
29.92	66.4	1008.4	36	0.29
30.1	70.1	1007.5	26.4	0.33
29.84	77.2	1006.3	16.2	0.35
29.87	74.4	1007.4	20.2	0.34
30.53	73.3	1007.6	50.2	0.3
30.13	76.1	1009.2	28.6	0.32
29.53	77.1	1009.8	1.8	0.32
29.52	72.7	1010	24.4	0.31

29.97	70.9	1010.9	29.5	0.28
29.95	69.5	1010.9	4.7	0.35
29.97	70.7	1010.2	22.2	0.31
29.94	72.1	1009.9	349.2	0.33
30.36	72.5	1008.2	8.1	0.3
29.97	73	1008.8	354.4	0.34
30.06	71.4	1009.6	9.4	0.29
30.09	70.3	1009.6	17.2	0.19
30.17	67.5	1009.7	12.4	0.23
30.35	68.4	1009.8	17.1	0.26
30.37	71.9	1009.5	34.7	0.32
30.52	74.5	1010.4	22.7	0.36
29.85	77.7	1011.1	22.2	0.36
30.45	79.8	1010.4	23.8	0.32
29.93	80.2	1010.5	353.1	0.35
30.44	76.2	1009.5	352.5	0.35
30.44	75.7	1007.9	340.4	0.26
30.92	75.8	1006.8	330	0.23
31.27	76.5	1008	327	0.23
31.45	75.7	1009.6	338	0.3
31.41	72.6	1009.4	12.4	0.32
31.31	70.3	1008.4	26.5	0.32
31.06	69.3	1009	31.2	0.32
30.82	69.4	1009.2	48.3	0.32
31	69.7	1008.9	30.9	0.31
31.55	71.3	1008.9	43.3	0.28
32.22	70.75	1009.15	45.74	0.28
33.01	70.13	1005.94	355.07	0.39
31.81	74.7	1005.2	337.6	0.38
31.24	77.3	1005.5	325.4	0.39
29.17	81.4	1005.4	356.6	0.39
27.65	89.5	1003.9	2	0.36
28.33	91.3	1003.2	0.2	0.33
27.83	90.4	1003.9	241.1	0.29
29.22	75.3	1005.1	249.6	0.23
30.29	71.8	1003.9	249.1	0.2
28.19	82.3	1002.8	238.3	0.18
26.46	96.2	1003	233.4	0.21
25.62	98.1	1003.3	321.2	0.21
26.49	97.9	1005.8	349.9	0.27
28.24	91.8	1006.9	341.2	0.24
26.76	95.8	1007.8	336.3	0.3
27.59	92.5	1008	336.4	0.26
28.25	91.3	1006.7	340.4	0.23
29.11	88.7	1005	338.5	0.21
29.73	84.5	1006	324.3	0.15
29.92	83.3	1005.3	323.7	0.13
29.92	82.5	1006.2	326.5	0.12
29.51	84.6	1007.1	333.6	0.13
29.84	83.2	1005.5	347	0.28
30.15	81.6	1005.3	337.4	0.3
30.26	80.6	1005.6	336.3	0.25

29.78	82.4	1004.8	336.7	0.19
29.58	83.7	1004.2	336.6	0.15
29.4	86.4	1004.7	335.1	0.18
28.29	90.9	1005	330.5	0.27
29.08	85.6	1006.2	331.9	0.25
29.78	81.3	1006.9	326.7	0.29
29.56	83.2	1006.1	328.2	0.33
28.44	88.7	1006.4	347	0.35
27.96	91.5	1006.4	334.3	0.36
28.68	86.9	1007.7	343.6	0.39
28.93	86.1	1006.6	350.2	0.39
27.61	89.1	1005.1	346.7	0.38
26.28	95.1	1005	350.9	0.37
25.08	99.9	1008.5	347	0.39
26.37	97	1009.3	355.4	0.36
28.23	90.4	1008.5	340.3	0.35
28.76	87.8	1007.6	358.4	0.35
27.17	92.2	1005.5	13.6	0.37
26.38	97.7	1004.1	14	0.35
25.37	99.9	1003.4	2	0.32
26.05	97.4	1002.6	342.4	0.35
26.84	97.9	1001.4	352.9	0.37
26.26	99.9	1000.5	356.6	0.34
26.82	98.7	1002.1	347.6	0.27
25.86	99.5	1003.6	359.8	0.34
28.13	92.1	1002.9	344.5	0.34
28.69	87.6	1003.5	341.2	0.29
28.77	86.9	1002.9	348.5	0.31
28.99	85.5	1001.6	343.6	0.3
28.92	87.4	1001.4	337.8	0.29
27.51	93.3	1002.3	355.1	0.34
27.65	89.7	1003.7	353.3	0.36
26.5	97.1	1004.3	354.1	0.3
27.27	93.6	1004.2	3	0.31
26.9	98.6	1004.3	358.5	0.37
25.53	99.9	1003.8	358.4	0.38
25.57	99.9	1003.6	355.5	0.39
25.91	99.8	1003.6	348.7	0.39
26.71	97.5	1002.1	351.3	0.39
27.22	92.7	1002.1	355	0.37
26.76	98.1	1002.6	346.5	0.34
27.76	95.1	1002.4	333.6	0.31
27.66	94.6	1002.5	336.1	0.27
28.71	88.4	1002.3	334.2	0.35
28.52	88.7	1001.5	326.6	0.3
28.23	89.4	1002	329.9	0.26
28.86	84.7	1003.3	328.1	0.17
28.53	87.4	1003.7	327.8	0.21
27.67	91.8	1001.9	326.9	0.26
27.3	94.3	1001.1	328.2	0.21
28.23	89.4	1003.7	329.1	0.26
28.55	88.8	1005.4	332.6	0.28

777

28.19	90.4	1005.2	334.1	0.33
28.02	88.1	1004.8	346.2	0.31
26.25	97.9	1004.8	3	0.37
27.39	93	1004.3	354.8	0.32
28.49	87.5	1004.4	6.5	0.27
27.86	91.3	1004.2	1.2	0.29
27.31	94.5	1004.9	351.9	0.37
26.8	96.4	1005.9	357.8	0.3
26.21	96.7	1005	356.2	0.35
25.59	99.4	1006	359.1	0.29
27.19	95.9	1006.2	359.2	0.29
24.98	99.9	1005.1	8.4	0.32
25.14	99.9	1003	353.2	0.27
25.72	99.9	1000.9	348.3	0.24
27.05	96	1001.1	340	0.28
28.08	90.5	1000.3	301.9	0.26
27.03	98.6	999.5	342.1	0.31
27.1	96.3	999.2	339.4	0.25
26.77	99.2	998.3	329.4	0.19
27.31	97.1	1001	324.3	0.14
28.03	90.7	1002.6	326.4	0.13
27.56	92.3	1003.2	327.6	0.12
27.8	91.7	1004	329.8	0.14
28.92	85.6	1004.3	331.1	0.23
28.68	85.7	1005.6	334.9	0.25
28.45	88.5	1005.6	339.9	0.21
26.52	94.8	1004.1	341.8	0.25
26.17	95.4	1003.3	342.1	0.27
27.4	91.6	1003.8	261.8	0.21
27.34	92.3	1003.9	237.3	0.12
26.88	95	1004.3	87.5	0.13
27.36	89.6	1005.1	266	0.28
27.18	91.6	1006	288.2	0.33
28.26	84.3	1007.3	236.1	0.26
28.38	82.5	1009	256.8	0.25
28.48	78.3	1009	236.4	0.29
25.48	95.9	1008.8	191.8	0.33
27.47	84.4	1008.1	200.8	0.31
27.67	80.6	1007.6	171.1	0.32
28.13	80.6	1008.3	226.9	0.32
28.12	81	1009.8	217.6	0.28
28.13	77.8	1010.6	206	0.31
28.35	76.7	1009.6	171.7	0.31
28.49	77.4	1009.1	160.4	0.32
28.76	79.9	1008.8	132.4	1.24
29.07	77.3	1008.8	147.6	0.31
28.97	79.2	1008.4	135.9	0.31
28.88	80.8	1008.4	151.2	0.33
28.21	82.5	1008.8	112.4	0.32
27.94	80.3	1008.8	138.9	0.3
29.28	76.1	1009.4	142.4	0.26
29.85	78.1	1010.5	176.7	0.27

778

30.39	73.8	1005.2	120.8	0.23
29.24	80.2	1008.1	118.5	0.26
30	80.8	1006.5	118.2	0.22
30.46	80.2	1007.3	99.2	0.24
30.07	83.6	1008.9	190.8	0.26
28.19	85.9	1009.5	159.5	0.25
27.47	87.5	1008.5	170.9	0.33
28.66	83.8	1007.9	161.3	0.29
28.68	76.3	1007.7	185.1	0.29
28.75	77.3	1007.3	188.6	0.33
28.97	78.3	1007.7	159	0.33
29.52	72.6	1008.7	182.4	0.31
28.92	78.7	1007.4	157.5	0.27
29.64	78.4	1007.2	152.4	0.31
29.22	73.4	1008.1	148.8	0.27
30.04	55.2	1007.8	163.3	0.26
30.45	47.8	1008.6	169.6	0.29
30.56	41.5	1009	170.4	0.27
29.63	44.7	1008.4	183.7	0.27
30.26	40.7	1008.1	171.9	0.25
30.14	50.2	1008.7	165.8	0.26
30.42	57.8	1008.3	170.8	0.26
30.09	64.6	1008.2	183.1	0.31
29.96	67.1	1007.5	181.7	0.32
29.58	66.7	1007.6	150.5	0.3
29.91	62	1008	156.1	0.27
29.94	59.5	1007.4	164	0.32
29.71	62.8	1007.7	175.7	0.32
29.58	62.1	1008.6	175.8	0.32
29.83	60.3	1009.6	167.7	0.28
29.98	61.1	1009.5	147.8	0.33
29.45	73.3	1010.2	139.5	0.32
29.37	75.2	1010.7	130.7	0.27
30.02	56.4	1009.6	143.2	0.3
29.58	55.4	1009.8	163.1	0.3
28.87	60.7	1010.3	131.9	0.32
29.09	59.7	1009.9	151.8	0.34
29.23	58.9	1009.8	145.4	0.32
29.82	62.4	1010.2	170.6	0.37
29.76	56.3	1010.8	173.1	0.3
30.09	53.1	1011	168.3	0.34
27.73	51.7	1011	170.5	0.62
28.24	53.1	1011	160.5	0.33
28.55	53.2	1010.8	155.1	0.27
29.34	53.9	1011.4	170.9	0.28
29.72	52.6	1011.8	163.4	0.37
29.46	54.4	1011	169.6	0.34
28.59	51	1010	159.6	0.32
28.21	48.9	1010.4	191.8	0.26
28.8	48.3	1009	177	0.33
29.29	53.4	1007.7	160.7	0.33
31.13	55.3	1006.7	181.8	0.35

31.03	57.5	1006	186.2	0.33
30.66	63.5	1007	185.6	0.36
29.72	64.7	1008.6	148.9	0.35
29.38	62.7	1008.8	137.2	0.27
28.45	57.3	1008.2	119.2	0.3
28.25	51.3	1006.9	150.4	0.35
28.24	41.6	1007.6	156.2	0.29
27.99	54.5	1008.9	162.5	0.35
28.06	57.4	1009.1	117.7	0.33
27.87	51.1	1009.6	173.8	0.25
28.42	55.6	1009.9	170.3	0.31
28.36	52.3	1010.3	156.4	0.29
27.65	51.6	1010.4	135.8	0.35
25.89	67.4	1010.1	110.3	0.36
26.43	52.5	1010.3	126.8	0.32
28.47	52.8	1010.5	160.7	0.32
28.28	53.1	1011.5	159.7	0.34
27.3	60.6	1011.9	163.5	0.35
27.14	68.4	1011.4	172.8	0.33
26.99	48.1	1011.5	182.7	0.35
26.77	66.7	1011.7	164.1	0.37
26.94	59.2	1011.8	168.2	0.38
26.62	66.1	1010.9	171.8	0.35
26.67	62	1010.9	158.4	0.28
26.31	64.5	1010.7	156.6	0.44
26.36	62.3	1010.2	161.4	0.38
25.98	50.3	1009.8	115.8	0.3
25.91	64.2	1010.2	157	0.28
24.93	64.7	1010.8	101.8	0.36
23.5	59.4	1011	143.6	0.36
23.54	46.9	1011.6	148.6	0.38
23.92	62.4	1011.8	95.7	0.37
24.38	62.7	1011.4	115.2	0.4
24.44	37.4	1010.5	70.7	0.39
24.01	61.4	1010.7	81.7	0.38
24.07	57.7	1010.8	91.2	0.37
24.76	54.6	1010.8	108	0.38
24.12	52.7	1011.1	82.4	0.39
24.3	55.1	1012.2	73.6	0.39
24.21	54.9	1013.1	85.8	0.39
23.88	55.6	1014.3	134.6	0.38
23.4	54	1014.9	99.9	0.34
22.05	47.3	1013.9	114.4	0.36
22.66	48.9	1013.1	101.6	0.34
23.79	54.5	1013.6	118.8	0.36
24.66	54.6	1013.7	145.4	0.32
24.46	63.6	1013.6	151.3	0.34
24.55	51.1	1012.6	163.2	0.34
23.97	45.7	1011.2	131.8	0.39
23.34	50.6	1010.2	116.9	0.36
23.11	54.1	1009.4	96.8	0.37
22.92	46.9	1009.7	118.7	0.38

780

22.68	51.4	1010.2	112.2	0.38
22.44	44.1	1011.5	113.6	0.36
23.56	61.5	1010.4	156.4	0.3
23.8	46.4	1012	138.6	0.36
23.53	56.3	1012.4	135.7	0.33
24.65	52.7	1011.1	138	0.37
24.04	54.5	1011.3	89.5	0.33
23.93	51.1	1012.3	118.4	0.31
23.28	55	1011.4	81.5	0.34
23.28	52.2	1011.3	93.7	0.34
21.72	50	1011.7	120.1	0.36
22.81	55	1011.3	141.1	0.38
24.17	62.8	1012.4	88.2	0.34
25.73	60.4	1012.8	142.2	0.31
26.98	50.6	1013.1	137.8	0.36
27.03	68.9	1012.8	143.2	0.33
25.93	49	1011.8	125	0.3
25.07	51.7	1012.1	81.6	0.27
24.58	51	1011.6	95.8	0.25
23.7	45.6	1011.8	77	0.3
21.14	33.3	1013	92.9	0.34
20.63	35.1	1011.5	87.4	0.3
22.31	41.5	1010	85.3	0.33
25.3	42.4	1009.6	179.5	0.33
24.07	53.5	1010.1	151.1	0.31
23.38	58.2	1011.3	97.6	0.34
24.19	60.2	1011.6	73.6	0.35
24.09	55.6	1011	72.8	0.29
23.34	53	1010.4	119.5	0.34
23.88	51	1009.6	106.9	0.35
26.07	47.5	1010.1	110.1	0.34
28.19	46.1	1010.4	136.9	0.38
28.44	45.6	1009.6	50.6	0.38
29.5	44.5	1008.5	103.9	0.38
28.23	44.3	1008.1	119	0.38
27.1	46.5	1008.6	85.1	0.32
26.26	46.2	1008.2	85	0.3
26.72	45.5	1007.2	108.4	0.33
27.1	47.2	1006.9	89.6	0.27
27.37	44.1	1007	89.8	0.27
25.64	44.1	1006.8	77.9	0.26
25.03	45.7	1006.9	24.7	0.32
24.29	44.5	1008.3	118.7	0.22
23.81	46.4	1008.4	122.3	0.25
24.8	45.1	1008.3	102.8	0.2
26.46	48.6	1008.6	106.5	0.24
27.78	49.3	1008.1	74.4	0.23
25.57	49.1	1008.6	79.1	0.21
24.89	46.9	1007.9	109.5	0.19
24.39	48.1	1009	114.2	0.21
24.9	47.1	1008.5	117.5	0.22
25.31	45	1007.1	126.1	0.28

781

24.64	46.2	1007.6	123.9	0.27
25.21	46	1011.5	117.8	0.25
26.61	45.9	1011.8	87.9	0.24
28.6	40.2	1011.1	154	0.23
27.81	39.2	1010.4	122.3	0.23
27.33	41.5	1010.5	95.4	0.24
27.28	37.1	1010.1	88.5	0.26
28.66	36.7	1010	79.9	0.27
27.45	34.9	1010.6	93.8	0.19
28.17	36.3	1009.6	77.9	0.21
28.39	33.4	1008.8	86.5	0.01
27.73	33.2	1009.2	86.1	0.05
28.71	31.4	1009.6	98.8	0.21
31.05	30.7	1009.2	124.9	0.25
29.78	29.2	1009.1	232.2	0.25
28.33	28.5	1009.7	231.4	0.19
27.58	28.7	1010.6	186.5	0.21
28.61	28.1	1011.5	179.5	0.21
28.56	27.7	1011.5	244.9	0.17
28.38	26.8	1019.1	246.9	0.27
28.53	27.6	1010	160.2	0.35
29.26	26.9	1008.6	112.7	0.38
29.38	24.3	1009.6	222.1	0.36
30	24.5	1011.9	228.1	0.38
29.18	25.1	1011.2	245.1	0.38
29.16	26.8	1009.8	224.5	0.37
29.05	25.3	1008.5	116.5	0.37
28.84	22.1	1007.7	178.1	0.31
29.92	22.8	1007.1	4.5	0.4
29.7	23.6	1008.6	174.8	0.39
29.53	20.7	1008.4	149.7	0.33
29.58	23.2	1007.6	194.1	0.33
29.74	24.5	1007.3	189.5	0.32
29.3	23.3	1007.5	194.4	0.31
29.58	24.6	1007.9	113.8	0.29
31.21	24.3	1007.4	107.9	0.33
31.05	24.5	1007	102.3	0.37
30.19	24.4	1006.7	150.7	0.32
29.9	23	1006	109.8	0.3
30.32	24	1006.8	137.4	0.31
30	22.3	1007.8	114.9	0.23
31.69	24.2	1007.9	112.4	0.35
31.49	24.2	1007.3	89.9	0.3
30.11	28.6	1006.2	61	0.4
29.36	26	1007	62.4	0.4
29.49	26	1007.2	89.4	0.37
30.39	29	1007.3	96.9	0.36
31.43	33.1	1006.6	97.2	0.36
30.32	35.5	1005.9	103.4	0.35
29.78	31.5	1005.9	129.2	0.36
29.9	35.7	1005.5	214.2	0.38
30.07	32.1	1006.3	218.5	0.38

782

30.03	32.8	1008	199.2	0.38
30.04	23.2	1007	204.9	0.37
29.9	22.9	1006.1	259.4	0.26
30.29	23.3	1007	268	0.23
30.36	23.3	1008.7	210	0.3
30.4	23.4	1007.9	111.1	0.27
30.5	23.5	1007.5	108.7	0.31
30.53	23.5	1008.5	97.6	0.33
30.52	23.5	1009.7	101.4	0.35
30.49	23.4	1007.8	109.4	0.33
30.44	23.4	1006.5	103.7	0.27
30.24	23.2	1007	116.9	0.23
30.29	23.3	1007	102.8	0.19
30.5	23.4	1007.6	99.2	0.22
30.47	25.2	1007.1	141.4	0.33
30.5	23.5	1006.6	113.9	0.28
30.66	46.4	1007.1	98.2	0.2
30.79	52.9	1007.2	80.5	0.28
31.49	66.7	1006.6	43.6	0.34
28.03	70.9	1006.4	43.1	0.35
29.05	56.2	1007.1	10.9	0.34
29.02	60.6	1007	109.8	0.37
29.44	55.3	1006.5	45.9	0.26
29.71	63.9	1005.9	22	0.24
29.62	63.8	1006.5	54.3	0.19
30.66	66	1006.5	41.4	0.22
29.46	67.2	1006.2	31.1	0.18
29.43	70	1006.8	46.1	0.18
28.69	67.3	1006.2	10	0.43
28.36	67.9	1004.3	324.8	0.36
27.28	69.2	1004.6	331.4	0.36
28.16	69.6	1004.7	337	0.36
28.95	65.9	1003.8	290.3	0.36
29.61	66.9	1003	353.2	0.37
28.83	63.6	1002.3	359.1	0.38
28.05	71.9	1001.8	225.5	0.38
28.34	74.7	1003	235.5	0.36
28.81	75.2	1005	338.4	0.37
28.17	76.2	1005.8	339.5	0.36
27.5	80.1	1005.1	257	0.36
28.13	76	1001.8	257.8	0.28
28.8	75.8	1000.2	232.5	0.36
28.98	76.9	1002.3	276.3	0.28
29.4	75.5	1003.9	276.7	0.3
28.96	73.4	1004.4	286.3	0.33
29.26	74.8	1003.5	312.8	0.31
27.85	81.9	1003.6	209	0.58
28.73	74.6	1003.4	5.9	0.31
28.9	75.7	1004.7	344.4	0.28
28.9	75.5	1004.6	338.2	0.29
28.83	73.8	1004.6	341.9	0.33
29.29	72.8	1004.8	341.7	0.34

783

29.38	71.3	1003.8	341.5	0.34
29.64	75.3	1002.3	330.1	0.26
29.32	74.5	1004.6	342.1	0.32
28.94	74.1	1005.6	347.5	0.33
29.3	73.9	1004.8	330.5	0.27
28.39	80.6	1004.8	255.3	0.37
29.54	74.5	1004.1	328.9	0.34
28.66	74.5	1002.5	326.5	0.36
29.08	75.1	1000.5	310.6	0.39
29.64	76.4	998.2	15.1	0.37
29.08	80.3	998	351.8	0.38
27.5	87.7	998.1	355.5	0.33
27.38	84.4	1001.5	352.1	0.36
28.4	79.9	1002.4	354.8	0.34
29.19	80.3	1001.6	349.7	0.31
29.42	78.6	1001.3	347.5	0.28
29.37	80.6	1001.9	356.1	0.37
28.95	85.4	1002.2	344.8	0.4
28.52	82.4	1003.1	51.2	0.36
27.73	84.3	1004.6	86.1	0.39
27.7	82.5	1005.4	12.1	0.41
29.13	84.2	1004.5	355.6	0.3
29.12	79.4	1004.5	354.6	0.27
29.41	78.5	1005.5	358.6	0.27
28.67	78.9	1006.1	355.7	0.28
27.43	83.6	1005.7	356.2	0.2
28.29	83.2	1004.1	342.8	0.11
29.06	76.9	1002.8	341.4	0.12
29.66	79.1	1003.8	354.1	0.12
29.47	75.9	1004.1	349.5	0.13
29.24	79	1002.4	356.8	0.13
28.35	78.4	1002.3	344.2	0.13
29.03	77.3	1003.8	345.7	0.12
28.13	77.5	1004.1	346.5	0.2
29.32	79.1	1003	342.1	0.25
28.22	75.1	1003.8	342	0.31
27.74	76.1	1004.2	7.9	2.4
28.13	75.8	1004.8	46.9	0.91
27.69	80.5	1004.5	21.8	0.52
29.14	82.9	1005.9	344.9	0.3
28.95	83.6	1006.7	359.3	0.29
28.6	85.7	1004.8	345.8	0.3
28.35	87.3	1003.5	333.6	0.29
29.03	85.6	1004.2	339.4	0.31
27.99	91.1	1004.4	354.2	0.37
27.33	90.8	1004.5	31.6	0.35
28.68	86.3	1005.6	357.5	0.32
28.17	87.5	1004.8	355.9	0.34
27.61	89.9	1003.1	358.5	0.34
28.06	86.5	1003.4	0.5	0.37
27.27	88	1003.7	3.5	0.37
27.95	86.9	1004.5	348.2	0.36

784

28.3	85.2	1005.4	351.5	0.35
27.85	72.6	988.6	353.6	7.45
28.97	64.8	1085.8	334.6	11.2
29.55	79.1	1573.9	329	6.65
29.1	68.4	1005.6	355.2	0.32
27.81	87.2	1004	220.6	0.37
28.28	80.2	1004	329.7	0.33
27.91	80.7	1005.2	268.7	0.28
28.43	84.9	1005.9	279.4	0.25
28.53	84.8	1006.9	271.9	0.28
29.19	79.4	1007.7	225.2	0.22
29.24	79.4	1007.3	333.6	0.28
28.12	86.5	1006.1	276	0.2
25.49	94	1004.9	50.1	0.38
26.57	88	1004.1	52	0.36
26.73	90.4	1004.2	261.6	0.36
27.56	91.5	1003.2	230.8	0.38
27.69	89.5	1002.6	99.2	0.34
27.83	89.2	1002.5	164	0.35
28.52	91.1	1003.1	83.7	0.37
26.73	96	1002.6	107.7	0.37
26.16	97.8	1002.5	328.3	0.38
27.15	94	1002.9	297.9	0.34
27.73	90.4	1003.7	271	0.27
28.37	88	1004	273.1	0.33
28.75	87	1004.2	287	0.35
28	92	1005.2	298.7	0.36
28.01	90	1005.8	275.3	0.36
26.89	94.9	1005.6	282.7	0.38
29.09	83.1	1006	273.2	0.36
28.19	86.8	1006.9	271	0.36
28.1	84.7	1006.6	258.9	0.37
28.41	86.4	1005.6	264.1	0.36
28.93	83.2	1005.8	264.2	0.37
29.19	79.9	1006.6	266.2	0.39
28.86	81.4	1006.8	282	0.37
28.88	78.5	1007.1	313.2	0.36
28.24	84.3	1008	308.4	0.35
27.78	84.8	1008.4	314.1	0.35
27.79	82.9	1009.7	330.4	0.36
28.46	79.7	1009.4	322.6	0.36
28.39	76.2	1009.4	313.4	0.36
28.29	79.1	1009.7	323.5	0.37
28.9	77.5	1011.1	1.4	0.37
29.77	75.6	1011.1	49.7	0.36
29.85	77.9	1010.2	42.7	0.36
30.19	77.7	1008.5	89.4	0.32
30.87	76.9	1006.9	107.3	0.31
29.15	83.9	1006.6	34.8	0.35
28.46	84.5	1006.7	29.9	0.36
29.01	83.6	1006.5	341	0.35
28.31	87.3	1006.9	4.1	0.37

27.97	87.6	1008.4	57.2	0.32
28.08	87.9	1009.8	49.6	0.33
27.61	89	1010.2	40.1	0.37
28.86	84.2	1008.6	106.2	0.34
28.7	86.2	1008.3	57.3	0.35
29.68	82.1	1008.5	109.5	0.32
29.94	75.7	1009.2	179.5	0.31
29.31	68.4	1009.2	104	0.34
29.58	72.1	1009.5	136.6	0.34
30.37	68.3	1010.5	193	0.34
30.41	68.2	1012	216.5	0.36
30.59	64.7	1012.7	286.8	0.37
30.27	64.2	1012.2	131.1	0.37
30.8	58	1010.9	120.9	0.37
30.69	53.8	1010.6	70.8	0.38
30.7	50.2	1010.6	320.2	0.37
30.63	51.1	1010.7	22.5	0.38
30.45	49.6	1010.9	317	0.41
28.46	79.71	1009.43	322.57	0.36
28.39	76.16	1009.44	313.37	0.36
29.51	42.3	1009.9	300.7	0.28
29.63	61.1	1008.1	359.6	0.26
30	58.7	1008.4	252.9	0.36
30.61	62.5	1009.5	187.4	0.36
30.16	58.9	1009.4	63.4	0.32
29.51	45.1	1008.5	132	0.25
28.92	42.3	1007.7	24.7	0.37
28.79	51.7	1006.7	13.9	0.35
29.87	54.8	1006	14.1	0.37
29.06	69.2	1007.3	345.1	0.43
29.24	48.9	1010	340	0.27
29.63	64.3	1008.6	350	0.37
28.67	62.6	1008.6	11.2	0.37
28.75	62.2	1009.4	7.3	0.38
27.77	65.4	1008.7	353.6	0.39
27.24	70.2	1009.7	354.7	0.39
28.09	64	1010.6	20.6	0.38
28.34	69.4	1010.5	133.4	0.38
28.68	64.8	1010.3	182.2	0.38
29.56	65.6	1011.5	172.5	0.38
29.12	62.9	1010.6	159.9	0.37
28.63	61.1	1010.5	92.2	0.36
28.42	51.3	1012	142.7	0.35
27.54	43.3	1011.9	122.8	0.35
26.75	46.5	1011	85.7	0.35
26.99	42.8	1010.4	127.4	0.37
27.15	40.3	1010.7	132.9	0.38
27.41	50.5	1010.8	130.4	0.39
27.21	57.9	1010.7	144.5	0.39
27.72	50.1	1010.9	100.8	0.38
26.84	56	1010.7	143.6	0.37
27.54	60.4	1010.8	67.8	0.39

786

27.49	65.1	1011.4	51.6	0.35
27.27	62.7	1010.8	44.6	0.37
26.72	66.5	1011.3	49.6	0.38
25.76	64.3	1010.7	14	0.34
25.77	60.4	1011.2	75.2	0.33
25.8	62.8	1010.6	66.4	0.35
25.68	67.9	1011.3	95.1	0.36
27.81	61.6	1010.8	141.1	0.4
27.95	58.1	1010.1	174.6	0.39
29	49.5	1009.7	127.5	0.36
30.13	52.7	1010.6	137.3	0.37
30.01	63.2	1010.9	131.7	0.39
28.94	68	1010.7	90.7	0.39
28.33	64.6	1010.3	42.5	0.39
27.15	74.6	1010.3	60	0.37
25.97	73.5	1011.3	79.2	0.4
26.12	63.1	1011.1	91.3	0.34
25.23	64.5	1011.9	21	0.35
24.93	74.1	1013.2	73.8	0.33
25.83	69.5	1013.6	73.3	0.39
26.93	63.2	1013.9	163.9	0.39
27.95	54.4	1013.4	125.4	0.39
27.97	52.8	1013.5	144.9	0.37
27.26	47.4	1012.1	134.1	0.37
27.46	44.5	1009.8	128.9	0.39
27.36	49.3	1009.5	135.9	0.4
27.36	57	1010.4	177.1	0.4
27.2	67.3	1010.5	126.5	0.4
27.21	67.2	1010.2	156.9	0.39
27.54	53.8	1009.7	130.1	0.39
27.56	35.1	1009.8	130	0.4
26.16	42.7	1009.5	126.9	0.39
25.19	49.5	1008.6	123.6	0.39
24.45	55.6	1008.7	88.9	0.39
24.15	67.3	1009.2	88.9	0.39
25.53	72.1	1009.2	123.7	0.4
25.17	78.49	1010.84	111.13	0.4
22.66	53.31	1012.34	39.56	1.05
24.02	52.9	1012.5	49.3	0.38
23.15	58	1012.3	52.6	0.34
22.48	52	1010.7	68.7	0.35
22.09	49.4	1011	101.6	0.37
22.5	58.9	1011.4	62	0.38
24.7	49.4	1011.9	101.6	0.39
25.81	57.1	1012.5	80.2	0.39
24.85	64	1012.2	40.3	0.38
26.1	52.3	1012	68.3	0.39
26.45	50.3	1013.2	101.7	0.39
26.57	48.2	1012.2	72.5	0.39
26.03	58.8	1011.6	55.7	0.38
25.15	66.1	1012.2	61.6	0.38
25.12	68.8	1012.4	44.5	0.29

25.12	72.9	1013.2	79.1	0.34
23.84	58.7	1015.5	62.4	0.26
22.02	48.5	1015	55	0.23
23.37	55.9	1013.5	63.3	0.25
23.37	62.3	1013.8	41.2	0.27
24.5	61.2	1013.1	57.4	0.36
24.27	69.1	1013.3	42.8	0.36
23.79	71.7	1012.9	64.7	0.27
23.94	74.9	1013.6	72.4	0.27
24.03	72.5	1014.2	43.1	0.28
24.62	65	1014.1	73.9	0.26
24.66	60.9	1013.7	87.7	0.26
24.46	61.1	1013	80.5	0.26
24.11	72.5	1013.3	100	0.26
23.84	66	1013.3	43.1	0.25
25.33	67.1	1013.3	54.1	0.26
25.3	69.6	1013	32.6	0.24
25.91	70.5	1012.2	34.5	0.2
25.42	78.5	1012.9	78.1	0.25
25.66	69.2	1014.2	63.4	0.24
24.03	60.4	1016.1	40.1	0.25
23.15	50.5	1013.1	45.9	0.21
24.26	64.9	1011.3	50.7	0.27
26.2	61.8	1009.2	65.8	0.23
26.7	71.2	1009.7	100.4	0.21
27.83	64.7	1009.9	143.9	0.29
29.49	46.3	1009.8	130.6	0.35
29.61	50.8	1009	127.3	0.3
28.73	66.9	1008.4	115.2	0.31
27.83	72.3	1008.4	338.4	0.26
25.69	65.7	1009	14.5	0.18
24.15	55.4	1009.7	72.2	0.2
25.07	51.8	1010	82.8	0.22
26.42	54.1	1010.2	54.2	0.24
26.69	53.7	1010.7	79.6	0.29
26.78	66.8	1011	38.3	0.36
26.3	69.5	1012.3	74.4	0.33
25.91	73	1013	48.4	0.3
26.23	55.7	1012.8	71.9	0.3
26.12	61.1	1012.3	81.6	0.32
26.17	60.7	1013.1	36.4	0.29
25.69	67.5	1013.7	57.8	0.29
26.75	58.4	1012.1	46.1	0.29
28.43	45.3	1011.1	77.8	0.3
29.15	44.2	1011.6	30.4	0.32
29.77	37	1011.3	1.5	0.31
29.85	29.8	1010.7	47.9	0.31
30.34	24.9	1010.2	151.9	0.37
24.81	28.26	1017.71	25.29	7.09
30.05	33	997.3	107.5	3.14
30.85	34.1	1427.1	133.9	0.3
29.82	48.1	1010.3	123.7	0.26

28.76	51.7	1009	42.3	0.29
28	70.5	1009.8	57.9	0.21
27.53	69.1	1011	36.1	0.27
26.8	68	1011.5	22.3	0.25
27.12	70.3	1011.2	49.3	0.23
28.31	69	1011	34.7	0.2
28.15	71.9	1011.2	26.7	0.26
28.17	74.6	1011.2	21.6	0.25
28.47	71.5	1009.3	44.6	0.33
28.82	63.1	1009.5	247.1	0.31
28.78	51.2	1011.3	51.2	0.27
27.97	61.3	1009.8	58.7	0.22
28.3	73.3	1007.8	46	0.24
28.07	71.2	1008.4	47.2	0.28
28.25	71.6	1010	48.2	0.25
28.91	67.5	1008.7	35.9	0.25
28.22	71	1008.5	35.3	0.24
27.94	68.5	1008.9	57.7	0.26
28.03	69.2	1009.6	46.5	0.24
28.09	59.2	1010.1	47.7	0.21
28.66	62.9	1008.4	61.2	0.25
28	64.4	1006.9	45.3	0.3
28.28	61.2	1007.8	17.9	0.27
27.87	56.6	1009.6	64	0.44
27.93	59.8	1010.3	46	0.3
28.36	69.2	1009.1	56	0.27
28.79	74.5	1007.3	47.3	0.29
28.68	78.1	1007.6	325	0.3
28.89	73.5	1007.9	23.5	0.29
28.51	69.2	1008.4	46.5	0.28
28.54	76	1008	43.3	0.27
29.35	65	1008.4	46.1	0.26
28.79	69.2	1008.6	52.1	0.29
28.99	71.4	1008.1	44.4	0.3
29.49	72.9	1008.1	27.6	0.29
29.47	74.9	1009.1	22.2	0.28
29.02	69	1008.6	17.2	0.31
28.52	66.7	1008.3	322.2	0.28
28.46	69	1006.9	309.4	0.27
28.89	68	1006.9	322.9	0.28
29.21	69.6	1007	315.5	0.27
29.33	69.9	1006.9	297.3	0.26
29.69	70.5	1007	324.2	0.29
29.88	71.5	1008.1	53.6	0.26
29.83	72.5	1009.2	37.9	0.29
30.82	73.8	1009.7	41.8	0.29
31.81	66.5	1008.4	27.3	0.26
32.01	62.4	1008.5	18.1	0.28
32.02	58.3	1008	36.4	0.3
31.38	66.1	1006.7	23.3	0.27
30.88	69.6	1006.9	27.9	0.29
31.13	73	1006.5	30.9	0.28

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30.75	71.3	1006.4	9.5	0.29
30.72	70.7	1006.9	1.9	0.28
30.59	73.6	1007.3	14	0.28
30.91	71.4	1007.3	4.4	0.31
30.81	72.3	1005.5	11.6	0.3
30.97	71.6	1006.4	330.8	0.3
30.8	70.2	1006.1	9.8	0.29
30.72	69.5	1005.4	7.4	0.3
30.89	69.8	1004.8	334.1	0.31
31	69	1005.9	306.4	0.3
30.71	70.2	1007.2	314.2	0.33
30.85	71	1006.7	342.1	0.31
31.19	71	1006.2	331.1	0.29
31.59	72.1	1005.5	348.3	0.3
31.5	70.1	1007.4	313.4	0.29
31.51	71	1007.2	325.8	0.32
31.61	69.2	1006.8	326.7	0.3
31.95	69.9	1006.8	316.7	0.31
32.17	71.2	1007.3	306	0.31
32.21	70.5	1007	308	0.31
32.24	71.3	1007.1	312.8	0.29
32.39	71.3	1006.9	348.1	0.26
32.12	71.7	1006.2	13	0.25
31.92	69	1004.8	21.5	0.25
31.98	69	1003.2	16.3	0.26
32.06	67.2	1002.2	359.6	0.26
31.58	70.9	1000.2	284.4	0.28
29.69	76.5	999.6	230.3	0.29
30.29	75	1002	270.7	0.3
31.29	73.3	1003.8	308.4	0.32
31.89	72.3	1004.3	339.1	0.31
29.39	85.7	1002.4	293.4	0.33
28.73	86.1	1001.7	254.8	0.26
26.71	99.7	1002.5	268.7	0.34
26.97	97.4	1002.4	221.7	0.38
29.73	85.8	1001.3	288.6	0.27
29.34	83.5	999.8	294.2	0.24
29.04	86.3	998.8	286.2	0.32
27.53	93.5	998.8	304.7	0.36
27.49	95.5	997.6	287.1	0.33
26.83	99.7	996.6	298.6	0.36
27.34	96.3	999.3	301.3	0.37
26.77	98.9	1001.1	286.3	0.4
28.68	87.9	1002.5	276.4	0.34
28.95	87	1004.3	294.3	0.34
29.35	86	1004.4	306.6	0.35

29.89	81.3	1004.1	311.6	0.33
28.81	85.1	1002.8	303.4	0.37
27.11	96.8	1001.8	235.7	0.38
27.82	91.7	1002.8	317.2	0.38
22.18	91.6	1341.5	313	2.29
29.08	86.6	1004.9	307.6	0.23
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28.76	29.5	1002.7	316	0.43
29.03	49.4	1003.6	340	0.41
29.27	66.8	1003	283.5	0.39
29.35	34.4	1001.9	308.2	0.39
28.69	9.2	1001.4	314.9	0.4
28.56	18.2	1000.8	321.8	0.4
28.87	63.29	1009.03	346.82	0.85
29.25	93.2	1001.4	320.1	0.32
29.45	85.9	1002.1	317.1	0.3
28.98	78.9	1031.6	328.6	3.1
26.72	78.8	955.1	333.9	8.6
26.85	79.6	983.5	324.6	5.54
27.7	81.9	998.5	322.8	0.42
27.13	83.3	1001.6	321.4	0.29
24.3	79.4	1002.5	319.5	0.95
28.16	76.9	1002.2	314.1	0.39
28.3	79.5	1001	323.5	0.38
26.55	79.9	1000.4	330.3	0.36
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27.76	70.7	1012.9	294.4	0.59

28.87	65.2	1010.5	292.3	0.6
28.57	68.8	1011.1	287.2	0.57
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31.75	76.3	1012.3	318.4	0.59
31.94	74.6	1012.5	347.6	0.59
31.62	77.1	1012.3	328.7	0.58
31.2	81.9	1012	337.2	0.59
30.08	85.5	1012.7	307.8	0.59
29.89	89.43	1013.23	308.01	0.6
32.06	93.98	1004.54	294.59	0.59
31.3	82.6	1015	302	0.59
31.41	81.8	1015.5	304.9	0.59
30.26	81.2	1015.9	311.8	0.59
27.31	84.9	1015.4	306.3	0.6
28.5	78.4	1015.5	354.2	0.6
28.69	76.1	1016	10.6	0.6
28.8	75.2	1015.5	331.4	0.6
28.46	77.2	1015.8	301.2	0.59
28.44	78.4	1015.2	296.5	0.59
28.77	77.3	1015.6	307.6	0.59
27.75	79.8	1015.8	1.8	0.6
27.19	81	1015.5	29.7	0.6
26.6	87.7	1016	47.4	0.6
26.95	90.6	1014	51.9	0.59
26.88	89.5	1012.5	64.4	0.59
27.91	82.6	1013.2	153.7	0.6
28.35	84.1	1014	16.9	0.6
28.38	85.9	1012.8	199.4	0.6
27.05	89.5	1011.3	86.3	0.59
26.31	91.1	1010.8	17.8	0.6
26.48	90.8	1010.2	32.1	0.6
27.17	91.5	1010	16.1	0.6
24.58	96.6	1010.6	178.3	0.6
26.88	92	1010.2	328	0.6
27.92	86.3	1010.6	304.9	0.6
28.08	82.4	1010.5	293.4	0.58
27.59	82.8	1010.1	287.9	0.56
25.65	94.6	1010.9	300.7	0.58
26.6	89.3	1012.6	280	0.58
26.7	91.4	1014.7	219.8	0.57
25.98	93	1016.2	193.4	0.59
26.82	88.5	1015.8	232.9	0.59
27.31	89.1	1013.3	264.2	0.6
27.84	86.5	1011.8	315.5	0.6
28.01	85.7	1012.3	308.6	0.6
27.95	81.8	1013.1	279.4	0.58
28.59	78.6	1012.1	196.9	0.59

792

28.16	80.2	1011.8	186.4	0.59
27.62	84.6	1012.2	195.8	0.6
28.08	81.5	1013.6	321	0.59
27.53	85	1015.8	3.4	0.6
27.85	83.8	1016.8	1.3	0.59
27.78	79.7	1015.8	318.3	0.6
27.58	78.8	1016.1	294.6	0.59
26.37	85	1016.2	231.1	0.59
26.53	85.1	1014.2	246.8	0.6
27.73	84.6	1013.8	1.7	0.6
27.55	85.8	1015.3	328.3	0.6
27.64	86.7	1016.6	120	0.6
28.1	81.5	1016.1	143.6	0.6
28.42	80.6	1016	49.4	0.6
29.82	70.8	1016.2	39.6	0.6
29.93	68.8	1016.4	58.2	0.6
29.57	72.8	1015.6	13.8	0.6
29.42	65.1	1013.8	29.3	0.59
29.19	57.5	1013.7	58.7	0.6
29.66	53.3	1013.9	129	0.6
29.27	56.6	1013.4	111.6	0.6
28.85	67.9	1012.3	18.7	0.6
28.38	78	1013.3	353.3	0.6
28.76	81.5	1015.4	293.7	0.6
27.86	84.4	1017.1	334.9	0.6
28.28	73.3	1018.1	16	0.6
28.11	61.7	1018.5	35	0.6
28.23	66.7	1018.6	28.2	0.6
27.97	62.3	1018.5	38.3	0.6
28.24	60.6	1018.1	114.5	0.6
28.92	60.1	1018	38.9	0.6
29.48	59.7	1019.4	102.2	0.6
29.14	59.2	1019.4	105.8	0.6
28.06	61.4	1019.3	20.5	0.6
27.92	64.5	1018.2	49.2	0.6
27.6	65.5	1017.6	48.2	0.6
27.82	67.2	1017.2	33.2	0.6
27.85	59.4	1017.8	99.8	0.6
27.5	58.9	1016.8	115.1	0.6
26.84	60.1	1016.7	96.7	0.6
26.34	65.6	1017	37.5	0.6
26.7	64	1017.5	33.3	0.6
27.15	57.4	1017.8	122.5	0.6
26.87	47.7	1018.6	139.1	0.61
27.23	46	1018.2	137.7	0.61
28.08	50.7	1018.5	90.2	0.6
28.38	52.2	1018.7	93.5	0.6
26.52	63.1	1017.2	15.3	0.59
25.46	64.8	1014.9	13.6	0.6
26.75	58.4	1016.1	108.3	0.61
26.61	59.5	1014.1	109	0.6
27.26	63.5	1017.2	22.8	0.59

27.87	76.6	1016.8	7.5	0.6
28.09	75.7	1015.9	59.1	0.6
28.27	69.2	1016.8	111.2	0.59
28.61	60.2	1017.8	108.6	0.61
26.78	46.9	1018.2	46.7	0.59
27.86	60	1018.3	78.3	0.6
28.45	65.1	1018.6	55	0.6
28.03	72.2	1018.3	344.5	0.6
27.67	61.7	1017.5	38	0.59
28.11	59	1017.9	117	0.6
28.25	59.7	1017.8	100.2	0.6
27.16	62.3	1017.1	45.4	0.6
25.91	59.3	1017.1	57.4	0.6
25.24	55.6	1017.3	106.8	0.6
24.78	55.5	1015.7	62.6	0.6
25.21	54.3	1015.9	42.9	0.63
25.21	54.7	1017.1	35.4	0.61
24.77	50.6	1017.9	43.5	1.32
24.72	44.6	1018.3	111.4	0.6
24.24	51.8	1018.6	100.3	0.6
24.18	55.6	1019.1	49.6	0.6
24.17	54.5	1019.6	37.6	0.6
24.06	54.7	1018.6	49.9	0.6
23.72	54.4	1018	48.1	0.6
23.49	64.1	1018	20.4	0.6
23.53	73.5	1019.3	31.2	0.6
22.99	63	1018.9	21.2	0.6
22.63	53	1019.9	21.4	0.6
24.46	57.9	1020.6	0.1	0.61
25.22	61.5	1021.7	90.6	0.6
24.91	64	1022.3	85.5	0.6
25.2	64.1	1020.7	47.5	0.6
24.25	67.2	1020.3	34.6	0.59
23.04	54.4	1020.5	25.9	0.6
22.96	59.7	1018.9	28.2	0.6
23.22	73.6	1019.7	20.1	0.6
23.3	64.2	1020.7	47.4	0.6
23.75	64.2	1019.8	36.4	0.61
25.38	61.9	1020.7	110.3	0.6
25.45	64.2	1020.8	6.6	0.6
24.41	70.8	1020	29.8	0.6
23	57.2	1019	29.8	0.59
22.26	50.8	1018.7	29.5	0.6
23.96	57	1017.5	28	0.6
25.46	64.3	1019.2	46.1	0.6
23.42	76.5	1019.8	34.4	0.59
21.75	58.5	1020.3	25.2	0.6
20.19	43.3	1021.7	60	0.59
21.14	58.1	1021.7	334	0.6
22.85	73.2	1021.4	50.3	0.6
23.15	77	1020.5	39.1	0.6
22.54	62	1021.1	26.1	0.59

22.05	59	1020.7	14.8	0.6
21.42	67.7	1020.7	13.7	0.6
21.1	51.2	1021.6	49.9	0.59
22.91	56.4	1022.4	51.8	0.6
23.56	73.7	1021.6	41.4	0.6
23.82	78.8	1021.8	89.1	0.59
23.49	78.7	1020.8	23	0.59
<Samp	<Samp	<Samp	<Samp	<Samp
23	83.7	1020.5	3.7	0.59
24.54	72.8	1018.8	17.7	0.61
26.14	65.7	1019.5	21.3	0.6
26.58	57.1	1020	357.9	0.59
26.7	41.3	1020.3	113.2	0.61
25.06	46.9	1019.9	28	0.6
25.38	45.8	1011.7	41.4	0.61
26.12	45.7	1018.2	84.8	0.61
26.52	47	1019.2	138.2	0.6
26.44	44.3	1018.6	102.9	0.61
26.06	51.8	1017.1	28.1	0.6
25.86	55.9	1015.9	24.6	0.59
25.56	59.8	1015	16.3	0.6
24.47	72.5	1015.6	8	0.59
24.02	66.8	1016.6	23.4	0.58
23.23	74.2	1010.9	37.6	1.05
22.76	62	1016.7	72.1	0.59
24.22	52.4	1004.7	42.1	3.66
24.95	64.8	1007.2	56.2	2.16
23.35	55.7	999.3	353	2.58
23.49	64.8	1015.6	272.4	0.8
23.62	60.6	1017.9	12.2	0.6
22.57	68.2	1017.3	149.8	0.6
22.6	62.9	1017.4	76.1	0.59
24.05	42.6	1019	53.1	3.46
30.41	44.1	996.6	50.6	9.03
68.9	50.2	2420.7	14.3	42.49
38.23	86.5	994.3	24	12.31
28.46	73.8	1016.8	16	3.78
26.06	69.3	1014.6	31.1	0.62
25.84	65.3	1016	39.9	0.66
28.52	71.5	1010.1	359.1	2.18
35.68	79.5	994.7	17.1	7.22
1705.2	94.9	978.8	338.3	30.37
26.8	68.1	1018.3	318.9	0.6
25.96	52.2	1018.8	351.5	0.6
24.96	47.7	1019.3	61.9	0.58
25.3	39.6	1018.3	76.6	0.59
26.1	46.1	1016.7	106.2	0.58
26.41	60.9	1017.9	244.9	0.59
27.07	68.2	1018.3	233.7	0.59
26.78	72.8	1018.1	298.6	0.6
27.03	73.8	1018.2	335.9	0.59
27.23	74.1	1018.7	293.1	0.58

795

27.75	65.7	1018	240	0.59
27.09	69.9	1018	27	0.58
26.86	67.8	1018.5	62.9	0.57
28.37	64.8	1018.1	29.8	0.58
29.62	55.9	1017.7	173.7	0.58
30	58.4	1017.5	323.3	0.58
30.09	55.9	1019	225.1	0.58
29.99	51.8	1020	22.3	0.59
31.24	42.7	1019.1	27.8	0.59
30.23	53.2	1017.6	30.7	0.6
30.18	44.7	1017.2	30.8	0.59
29.42	56.3	1016.8	18	0.6
30.02	46.6	1015.9	32.2	0.59
28.29	68.6	1014.6	10.7	0.57
28.89	74.6	1015.3	36.3	0.59
29.14	73.9	1016.7	22.2	0.58
29.9	64.4	1015.3	41.5	1.05
30.52	71.4	1013.1	37.3	0.76
30.1	74.3	1009.2	12.9	1.07
30.95	72	1010.3	31.6	1.51
37.93	69.8	1014.3	32.8	3.46
32.73	64.5	1005.4	24.2	6.05
29.99	69.8	1015.5	18.1	0.59
29.63	65.3	1014.7	28.1	0.56
30.62	71.3	1014.9	32.7	0.65
30.06	75	1015.6	28.5	0.59
32.01	62.1	1014.9	10.4	0.6
31.36	73.2	1016.2	324.9	0.6
30.39	77.5	1016.8	303.3	0.59
29.88	79.6	1017.6	340.1	0.59
30.37	76.2	1017.7	318.1	0.58
30.25	68.1	1018	324.7	0.59
29.51	71.5	1018.5	30.1	0.57
29.78	71.6	1017.8	33.4	0.58
29.62	68.8	1016.2	333.3	0.59
29.54	72.2	1016.3	358.8	0.58
29.44	68.7	1016.9	7.2	0.59
29.55	70	1017.6	356.8	0.59
30.05	76	1016.3	352.2	0.58
30.38	73.1	1015.2	301	0.59
30.97	70.4	1017.2	313.2	0.59
30.59	73.5	1017.1	348.4	0.58
31.3	77.3	1015	27.1	0.58
33.54	64.7	1014.2	65.2	0.59
33.58	62	1016	18.2	0.59
34.07	55.6	1015	28.5	0.6
33.24	64.6	1014.1	4.9	0.56
32.11	73.6	1014.9	350.2	0.57
32.45	69.7	1014.1	18.4	0.59
31.87	79.3	1014.8	351	0.58
78.74	1014.87	255.26	0.6	181.98
78.65	1014.18	211.22	0.57	179.99

77.11	1014.21	222.54	0.57	177.98
75.77	1014.3	183.51	0.58	191.12
76.87	1014.05	210.17	0.59	186.37
70.22	1013.67	155.19	0.58	192.23
71.39	1013.09	128.77	0.58	195.64
75.92	1013.3	116.45	0.58	202.2
80.44	1013.47	159.71	0.58	183.43
71.08	1012.38	166.57	0.6	169.93
72.64	1011.82	224.98	0.6	133.59
76.18	1011.44	253.81	0.58	157.37
68.34	1012.93	277.61	0.58	201.61
66.17	1015.77	275.68	0.54	212.1
66.88	1016.24	176.25	0.57	209.19
66.23	1016.32	148.41	0.56	200.09
65.49	1016.08	157.22	0.55	196.9
66.3	1014.8	112.46	0.57	187.29
67.4	1014.15	154.45	0.59	193.35
70.74	1015.73	149.32	0.57	182.16
76.59	1015.16	125.89	0.57	145.5
74.37	1013.69	134.13	0.58	130.05
76.82	1013.73	207.75	0.59	125.89
78.17	1013.35	253.34	0.59	154.11
75.23	1013.4	246.25	0.58	190.27
72.58	1012.73	241.67	0.57	209.48
71.73	1012.9	130.4	0.57	209.1
72.29	1013.14	265.45	0.59	210.87
72.85	1013.15	210.51	0.57	193.08
75.9	1013.25	247.97	0.55	180.8
73.72	1013.55	228.71	0.55	177.48
73.97	1014.39	254.18	0.55	178.95
71.63	1014.2	259.9	0.57	180.11
69.31	1013.07	233.23	0.57	216.19
69.83	1012.48	220.8	0.57	209.79
74.35	1012.58	164.85	0.56	172.2
73.81	1011.83	259.76	0.55	170.06
81.85	1010.53	247.3	0.49	142.53
79.9	1010.07	283.49	0.5	106.72
77.44	1009.89	291.13	0.53	184.22
72.21	1009.43	261.18	0.55	222.24
72.58	1008.43	290.35	0.55	215.92
74.01	1008.01	285.03	0.54	92.73
62.29	1007.67	258.07	0.47	231.39
63.43	1008.98	266.86	0.47	220.9
70.51	1010.17	263.58	0.53	199.2
83.52	1011.33	258.37	0.54	229.19
86.05	1011.68	285.75	0.51	216.1
85.31	1011.47	280.72	0.39	188.16
93.61	1010.13	265.45	0.48	91.92
85.44	1010.17	284.91	0.47	129.34
77.33	1008.45	284.71	0.42	190.46
85.79	1007.62	276.95	0.4	114.26
78.45	1009.16	284.42	0.39	152.08

78.14	1011.7	288.33	0.34	151.35
75.61	1013.97	283.83	0.39	203.01
76.64	1014.18	287.42	0.43	173.46
76.21	1012.52	290.69	0.44	190.56
74.6	1012.47	284.96	0.45	196.7
73.23	1014.15	295.9	0.52	230.9
73.38	1015.35	281.15	0.51	222.71
72.88	1014.86	269.5	0.52	190.63
71.2	1013.95	277.17	0.53	226.87
71.44	1013.45	291.64	0.55	218.49
73.63	1256	241.86	2.17	460.6
94.82	1015.74	178.19	0.43	24.25
99.9	1013.91	143.92	0.5	35.79
94.71	1011.94	198.48	0.47	144.42
86.96	1012.18	270.41	0.49	215.1
79.62	1013.05	279.43	0.52	240.08
94.41	1013.28	196.08	0.55	41.36
98.3	1012.64	179.81	0.6	97.92
99.64	1011.93	167.8	0.6	45.1
99.6	1012.35	183.02	0.61	62.54
99.73	1011.69	218.75	0.6	20.92
99.9	1011.5	178.06	0.6	47.47
99.9	1010.23	158.89	0.6	69.51
96.9	1008.95	282.2	0.87	174.66
99.9	1008.28	189.35	0.6	40.76
99.9	1007.05	241.85	0.58	54.78
99.11	1007.74	272.44	0.56	113.5
99.53	1008.23	257.23	0.61	68.78
97.34	1010.34	235.71	0.6	99.06
97.3	1011.88	286.55	0.6	128.88
98.03	1011.65	243.31	0.6	81.67
99.19	1010.62	242.83	0.58	64.66
99.9	1009.62	227.76	0.62	25.75
94.89	1010.92	226.5	0.58	158.45
95.02	1012.53	270.53	0.57	152.15
92.87	1014.48	296.66	0.51	188.38
99.89	1014.75	266.59	0.56	25.28
99.9	1012.41	263.7	0.52	38.55
99.9	1010.68	299.33	0.44	29.41
99.9	1009.62	297.44	0.51	39.62
99.9	1008.97	252.66	0.57	12.01
99.68	1008.99	290.64	0.48	105.42
99.75	1010.65	304.51	0.5	99.13
99.63	1010.3	280.75	0.5	92.44
99.38	1008.02	282.4	0.56	65.28
97.75	1010.16	284.38	0.58	131.75
98.35	1010.92	283.77	0.58	119.82
95.24	1010.83	283.61	0.59	151.95
92.81	1011.57	281.49	0.58	148.99
91.86	1012.54	259.85	0.6	116.26
89.29	1013.81	244.19	0.6	152.98
87.99	1003.45	295.76	0.16	182.46

30.02	90.86	1013.73	290.87	0.59
30.47	87.01	1014.94	282.03	0.59
29.9	88.98	1014.87	279.91	0.59
30.14	88.35	1014.49	275.92	0.56
30.54	87.11	1014.84	281.41	0.56
31.06	84.95	1014.99	302.17	0.6
29.63	92.09	1016.08	313.92	0.6
29.85	94.48	1016.32	296.07	0.6
29.89	94.12	1014.81	317.46	0.6
30.51	88.79	1012.82	327.01	0.59
28.99	93.54	1012.59	6.11	0.59
30.32	88.35	1013.44	12.3	0.6
31.41	99.05	1005.77	337.68	0.59
91.19	1014.59	259.73	0.6	108.15
93.91	1014.84	233.91	0.6	59.32
93.66	1013.78	219.01	0.6	93.7
93.14	1012.44	159.68	0.6	66.1
92.09	1010.83	211.47	0.6	104.51
90.73	1009.42	183.78	0.6	129.9
93.58	1007.72	198.2	0.58	27.43
93.6	1006.65	290.29	0.59	35.28
90.42	1008.01	240.92	0.57	41.83
93.2	1010.05	264.27	0.57	110.47
91.27	1011.05	300.16	0.49	213.3
93.24	1013.38	241.41	0.6	23.44
90.96	1013.63	284.5	0.6	170.6
87.18	1013.55	303.64	0.61	172.65
89.33	1013.33	305.39	0.6	42.12
93.35	1014.19	272.28	0.6	75.34
93.2	1014.32	283.72	0.59	97.4
89.74	1015.48	282.73	0.57	188.67
89.8	1015.17	260.57	0.55	161.17
85.85	1015.68	223.45	0.6	123.6
83.24	1014.98	192.93	0.59	164.13
83.96	1014.35	257.83	0.57	125.99
80.34	1013.67	203.65	0.56	155.45
84.38	1013.26	190	0.58	99.32
87.26	1014.7	189.9	0.57	51.28
69.1	669.91	498.06	357.89	40.17
30.09	83.1	1014.65	328.31	0.59
29.71	83.12	1014.97	114.24	0.58
29.6	83.28	1015.85	301.21	0.6
30.12	83.78	1015.99	141.82	0.59
30.84	85.28	1016.02	358.88	0.66
31.07	84.05	1015.82	297.96	0.6
29.32	91.59	1016.89	90.14	0.59
31.87	88.12	1017.07	200.31	0.6
32.99	76.74	1016.57	123.59	0.59
32.94	78	1016.08	298.19	0.62
31.47	82.82	1016.17	85.57	0.63
29.77	84.98	1017.43	132.13	0.6
31.61	78.9	1016.82	147.73	0.59

32.3	72.66	1015.73	114.93	0.6
32.19	78.44	1016.95	106.46	0.6
30.16	68.32	1018.15	153.96	0.6
33.57	63.2	1016.46	80.95	0.6
30.37	79.01	1015.02	146.23	0.6
30.03	78.35	1015.16	70.25	0.6
124.93	50.4	452.01	123.69	0.6
31.7	80.34	1014.06	151.36	0.62
32.24	75.49	1013.48	93.55	0.61
32.02	74.56	1012.98	78.23	0.6
31.6	80.48	1011.85	10.37	0.62
30.72	88.06	1014.89	28.03	0.6
31.68	81.18	1017.11	46.37	0.61
33.37	74.24	1016.72	27.37	0.6
34.65	65.83	1016.5	347.66	0.61
32.99	65.41	1016.44	125.5	0.6
32.43	60.32	1016.08	187.5	0.6
33.15	61.69	1016.73	143.99	0.61
33.08	64.14	1017.81	141.25	0.61
33.41	59.07	1018.18	162.23	0.6
33.74	57.17	1017.39	109.77	0.6
32.4	56.65	1016.42	127.52	0.6
29.98	52.94	1016.99	159.01	0.6
29.48	57.53	1018.59	159.83	0.59
29.32	67.64	1019.47	150.2	0.58
30.6	63.56	1018.06	151.94	0.6
30.79	66.77	1017.76	143.79	0.59
30.62	63	1016.89	150.42	0.58
30.55	59.82	1017.18	125.36	0.59
27.52	74.11	1017.27	155.38	0.59
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31.36	55.58	1018.07	29.75	0.45
31.06	56.67	1018.27	24.46	0.47
31.31	50.22	1018.31	144.47	0.54
31.05	57.22	1016.89	78.09	0.54
30.87	72.52	1015.8	139.87	0.51
31.56	79.39	1016.66	358.42	0.53
32.37	68.37	1017.26	127.95	0.51
31.34	64.06	1018.9	151.82	0.55
28.93	80.75	1019.11	154.18	0.58
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31.87	71.37	1018.96	55.6	0.47
31.61	75.48	1019.7	90.1	0.51
31.44	71.05	1019.33	91	0.53
30.51	64.69	1018.87	91.67	0.53
29.22	61.67	1018.62	56.21	0.52
30.62	61.43	1017.44	6.23	0.51
29.79	63.43	1017.73	17.5	0.52

800

28.97	62.33	1018.02	46.73	0.55
29.37	59.88	1018.45	105.56	0.54
28.81	61.62	1016.63	111.68	0.52
28.1	57.74	1016.76	55.97	0.55
27.81	62.61	1018.02	19.35	0.55
27.31	66.65	1018.47	16.21	0.56
28.08	58.11	1017.94	67.83	0.53
28.25	45.72	1018.64	113.25	0.53
28.11	50.75	1018.56	31.28	0.53
28.33	56.9	1018.86	42.63	0.54
29.44	57.93	1018.69	28.26	0.52
28.39	50.64	1019.04	135.26	0.54
28.23	51.54	1018.82	118.55	0.52
28.04	52.06	1018.52	74.96	0.51
27.34	56.01	1018.27	23.07	0.54
27.14	62.17	1018.97	10.69	0.51
27.41	68.31	1018.33	12.27	0.53
27.69	74.07	1017.71	6.95	0.55
27.91	90.24	1018.42	355.97	0.51
41.58	98.18	980.78	154.41	0.52
NoData	NoData	NoData	NoData	NoData
29.87	61.93	931.84	355.3	0.46
30.82	53.56	931.67	151.26	0.47
30.6	54.77	932.61	157.65	0.5
33.76	43.77	964.59	150.08	0.48
29.38	36.75	1021.76	132.21	0.44
30.9	56.14	1019.51	48.06	0.48
28.65	57.53	1018.23	88.57	0.55
27.94	59.01	1017.85	33.84	0.53
26.67	63.41	1018.46	18.59	0.53
26.96	71.31	1020.63	21.81	0.55
27.53	70.73	1020.85	23.04	0.55
28.36	56.49	1019.53	111.38	0.55
29.2	45.03	1019.65	83.29	0.53
27.15	49.88	1019.87	111.89	0.53
27	55.09	1017.95	71.16	0.54
26.7	72.68	1015.71	4.22	0.5
26.49	63.3	1015.73	21.08	0.48
26.09	58.77	1016.38	27.66	0.54
26.2	70.91	1018.95	48.71	0.54
26.68	72.94	1020.76	14.36	0.54
27.85	68.84	1020.66	43.51	0.54
29.04	61.47	1020.27	90.53	0.55
28.13	67.85	1020.52	27.24	0.51
27.05	63.59	1020.52	14.91	0.53
26.66	52.53	1020.51	16.56	0.53
28.69	38.78	1021.42	112.53	0.52
27.19	47.8	1022.36	21.34	0.48
26.54	53.69	1021.83	29.22	0.5
26.55	53.81	1021.48	18.95	0.49
26.69	54.57	1019.9	42.91	0.48
25.85	59.93	1019.38	19.36	0.51

801

26.1	63.47	1019.97	11.66	0.55
26.32	60.91	1020.63	37.1	0.53
27.17	59.08	1021.02	36.32	0.51
27.2	59.34	1020.89	30.63	0.52
26.7	72.74	1019.81	4.53	0.54
27.19	75.02	1021.71	31.01	0.54
27.08	64.46	1023.51	18.33	0.52
26.99	68.79	1023.75	25.22	0.53
27.23	62.98	1021.58	20.75	0.5
27.21	64.91	1021.09	22.03	0.54
27.39	72.3	1022.51	20.56	0.54
26.76	65.69	1022.19	14.63	0.53
25.84	61.71	1020.66	26.16	0.51
26.31	71.94	1018.64	26.21	0.54
26.57	70.31	1019.92	8.17	0.55
29.86	60.57	1001.06	14.34	1.26
30.87	43.86	1020.99	106.49	0.52
28.66	61.94	1020.88	13.16	0.51
28.5	41.05	1021.2	15.61	0.51
28.99	30.55	1023.42	10.47	0.55
30.27	30.1	1022.9	8.87	0.53
30.54	30	1020.92	38.15	0.5
30.03	30.16	1020.39	7.44	0.48
29.86	30.3	1020.07	21.26	0.48
29.97	30.38	1020.74	35.44	0.49
29.51	30.58	1020.04	33.15	0.53
31.06	29.91	1020.01	74.95	0.52
30.04	30.23	1020.29	14.57	0.51
30.92	30.24	1020.01	20.44	0.5
30.59	30.34	1019.56	20.08	0.52
29.86	30.25	1018.88	23.33	0.52
30.19	30.24	1019.09	17.58	0.5
30.91	30.08	1019.68	9.5	0.5
30.36	30.08	1019.47	16.36	0.52
30.05	38.74	1018.54	9.12	0.5
30.12	55.17	1016.32	9.57	0.49
30.27	55.13	1018.95	15.22	0.5
33.14	54.32	1018.15	25.72	0.53
34	54.24	1018.82	7.56	0.49
32.58	54.36	1019.25	5.67	0.53
32.19	54.43	1018	5.01	0.46
31.49	54.62	1017.62	46.11	0.47
30.06	55.11	1017.59	47.43	0.5
29.69	55.31	1017.66	1.16	0.5
27.57	56	1017.22	347.01	0.45
27.62	55.98	1015.95	204.38	0.42
29.46	55.31	1019.83	347.4	0.45
28.11	55.94	1021.27	24.71	0.47
28.7	55.78	1020.25	39.08	0.49
30.07	55.32	1019.72	18.88	0.45
32.03	54.71	1020.3	4.56	0.49
32.6	54.44	1019.87	2.15	0.49

802

32.55	54.44	1020.12	8.05	0.44
33.24	54.22	1020.7	12.5	0.47
33.73	54.42	1020.33	0.11	0.48
34.27	53.46	1019.91	4.88	0.48
35.53	53.55	1019.78	66.9	0.49
35.26	53.58	1018.7	21.63	0.49
33.9	53.91	1019.35	17.64	0.44
31.79	54.3	1004.85	0.98	0.49
32.42	55.88	1017.41	1.62	0.47
30.15	53.49	1020.64	31.15	0.46
31.39	50.49	1016.85	12.72	0.51
32.42	51.59	1017.22	14.35	0.48
33.51	48.14	1018	7.92	0.46
33.08	61.72	1019.06	10.2	0.5
32.16	62.11	969.94	2.64	0.59
34.59	63.21	1017.18	351.55	0.44
32.92	61.81	1016.46	7.51	0.48
35.65	51.86	1015.55	26.9	0.46
33.79	74	1018.31	350.38	0.54
33.46	74.96	994.52	359.12	0.57
33.54	73.89	1017.84	358.94	0.64
32.59	67.83	985.94	358.4	0.57
33.65	56.84	992.78	9.87	1.25
33.17	48.55	1009.37	4.84	0.58
31.87	56.79	1016.75	357.75	0.44
32.08	62.27	1016.35	348.34	0.49
32.02	66.91	1016.12	355.72	0.43
32.03	68.8	1014.54	356.05	0.45
32.3	69.57	1014.59	355.69	0.44
32.36	65.66	998.08	355.78	0.56
31.95	65.2	1015.46	3.81	0.57
32.09	67.74	1016.58	4.39	0.57
32.54	68.99	992.81	1.36	0.52
32.77	71.08	1017.41	0.86	0.56
32.69	70.86	1018.01	348.33	0.57
32.62	67.68	1019.09	357	0.55
32.64	65.28	1018.78	352.03	0.61
32.16	64.55	1017.36	354.43	0.55
32.45	64.89	1017.34	2.72	0.55
33.88	68.46	1018.43	356.85	0.46
34.11	72.99	1017.38	346.99	0.41
33.84	74.74	1014.87	341.89	0.46
34.33	68.92	1014.04	352.42	0.48
34.16	75.02	1015.86	338.24	0.43
34.76	73.85	1015.97	325.47	0.4
34.28	75.65	1015.86	322.48	0.44
34.12	74.04	1016.58	325.77	0.42
33.93	69.61	1016.74	342.29	0.43
33.43	67.76	1015.63	329.74	0.35
32.17	67.33	969.83	358.97	0.57
33.35	69.34	992.9	340.03	0.46
34.17	71.42	1017.18	324.82	0.42

803

34.19	71.99	1015.98	332.17	0.45
34.18	70.8	1017.06	314.57	0.43
34.12	71.59	1016.54	336.75	0.43
34.49	71.04	1015.69	327.16	0.45
34.2	73	1015.76	323.98	0.4
34.51	70.92	1015.34	352.26	0.41
35.07	68.07	1014.87	346.88	0.44
35.5	67.18	1014.42	330.83	0.4
35.74	63.88	982.32	357.17	0.61
34.62	73.21	1014.83	352.11	0.45
34.98	70.95	1013.17	357.69	0.45
34.98	66.16	1014.21	1.07	0.43
34.61	71.01	1014.47	4.79	0.44
32.71	78.64	1015.81	359.51	0.51
34.81	69.65	1014.81	335.58	0.45
35.68	67.87	1015.04	341.78	0.44
35.38	68.62	1015.01	5.61	0.42
35.47	74.08	1012.86	341.63	0.47
35.21	71.97	1011.82	339.57	0.44
34.95	70.8	1013.02	334.29	0.42
34.76	70.38	1014.38	343.28	0.57
34.91	69.6	1015.22	359.41	0.59
35.05	70.08	1015.38	353.33	0.64
35.03	70.35	1014.99	356.17	0.61
35.4	70.64	1015.03	349.55	0.59
35.43	70.64	1015.56	352.94	0.59
35.54	70.28	1015.87	352.56	0.59
35.49	69.12	1016.08	355.61	0.6
35.09	69.39	1015.45	356.11	0.65
35.45	69.51	1013.88	354.71	0.59
35.49	69.87	1013.89	347.84	0.62
35.15	73.09	1014.7	354.1	0.61
35.35	73.84	1012.73	3.96	0.59
35.25	68.73	1012.33	355.3	0.57
34.94	61.87	950.23	335.04	0.57
36.59	62.78	1012.75	342.07	0.54
35.9	66.67	1012.82	6.96	0.62
34.95	70.41	1002.8	354.14	0.54
35.2	69.74	1012.42	348.95	0.42
33.43	75.78	1011.35	300	0.43
34.68	69.64	1011.54	289.77	0.29
34.15	70.79	1013.63	292.2	0.27
34.45	71.37	1012.84	294.3	0.32
34.21	75.4	1012.55	250.65	0.37
31.66	84.19	1013.24	332.87	0.4
30.15	89.27	1012.57	308.33	0.44
29.56	92.59	1012.66	310.5	0.45
29.72	90.05	1013.01	200.71	0.38
31.18	83.29	1011.9	202	0.34
30.4	91.16	1009.39	353.06	0.5
29.7	96.85	1001.1	247	0.35
29.12	98.07	1007.97	221.52	0.36

804

29.63	97.31	1006.5	224.89	0.31
29.97	97.34	1005.51	246.58	0.34
32.18	86.94	1006.11	279.88	0.27
30.68	93.46	1004.99	287.22	0.21
32.33	86.57	1008.92	293.79	0.28
32.82	84.37	1010.41	293.12	0.33
32.78	84.99	1010.71	299.58	0.38
33.53	80.68	1011.98	289.16	0.39
33.59	78.5	1014.02	289.86	0.4
33.49	77.87	1015.02	298.73	0.39
32.43	82.29	1015.14	302.17	0.41
33.56	76.86	1015.83	311.37	0.39
33.6	76.01	1016.87	321.75	0.42
33.88	75.07	1016.99	302.12	0.4
33.83	75.77	1016.74	298.45	0.37
33.7	75.45	1015.04	293.51	0.36
33.46	75.96	1013.35	286.48	0.35
33.49	77.77	1012.06	288.62	0.34
33.53	78.6	1013.13	293.48	0.35
33.51	79.2	1014.03	302.4	0.37
33.32	78.91	1011.3	298.18	0.39
33.13	79.99	1011.16	296.74	0.37
33.5	78.87	1012.82	303.9	0.36
34.13	76.98	1013.53	309.79	0.37
33.89	75.47	1012.77	324.63	0.39
33.82	74.43	1010.9	307.07	0.38
33.6	76.79	1008.51	290.67	0.34
32.63	82.98	1009.02	290.87	0.34
33.4	78.93	1010.94	297.88	0.36
32.75	80.74	1010.88	307.67	0.39
32.43	81.46	1010.39	302.08	0.35
30.73	92.93	1010.07	298.44	0.37
32.65	94.68	1010.48	316.41	0.42
31.07	94.51	1011.05	312.91	0.39
30.97	93.5	1012.69	310.09	0.41
31.92	86.5	1013.14	293.16	0.39
32.27	82.55	1012.7	289.05	0.32
30.79	88.03	1013.74	291.84	0.31
30.61	90.07	1014.18	294.02	0.3
30.48	90.12	1014.47	299.19	0.35
30.81	88.71	1015.23	309.23	0.4
32.31	83.93	1014.91	315.15	0.4
32.6	82.49	1016.24	317.94	0.42
32.69	81.27	1016.78	320.79	0.42
32.47	79.56	1015.6	320.28	0.4
32.32	80.29	1013.97	329.63	0.37
31.65	84.33	1013.23	316.69	0.4
31.66	86.32	989.57	348.04	0.61
32.42	85.09	1012.16	354.43	0.59
31.3	86.28	1012.76	352.44	0.59
29.47	94.73	1011.85	0	0.6
30.31	90.58	1010.99	357.11	0.62

805

31.63	84.21	1012.89	7.31	0.6
30.9	87.44	1013.81	5.49	0.6
31.76	84.24	1013.54	356.25	0.6
31.92	84.72	1013.31	352.64	0.58
31.72	86.47	1014.57	347.56	0.6
31.98	85.29	1015.94	352.37	0.58
31.72	87.54	1014.77	358.05	0.57
31.32	83.64	1033.13	345.47	1.78
32.95	79.91	1016.62	349.87	0.45
33.15	77.77	1016.6	337.99	0.41
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32.77	80.21	1015.13	331.59	0.36
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33.34	77.14	1013.33	348.57	0.37
30.4	92.94	1014.13	164.33	0.44
31.51	87.19	1014.28	23.88	0.47
30.36	88.97	1015.09	129.64	0.47
31.72	85.4	1015.78	332.36	0.46
32.59	80.27	1014.92	337.85	0.42
31.51	82.05	1014.36	329.43	0.45
32.29	78.1	1015.44	328.57	0.44
33.4	72.77	1149.8	5.06	4.15
32.78	75.51	1018.42	11.29	0.57
32.66	75.48	1017.92	3.41	0.57
32.76	72.29	1016.89	353.52	0.59
32.93	72.34	1016.62	17.37	0.55
32.26	78.94	1016.53	3.47	0.58
30.86	90.07	1016.93	0.2	0.57
32.58	84.34	1016.12	2.53	0.57
32.59	84.44	1016.05	14.71	0.58
30.25	86.56	993.14	2.57	1.9
32.35	88.43	1140.57	2.08	2.91
32.06	85.82	1014.2	4.96	0.44
32.51	86.12	1013.2	20.15	0.43
33.12	81.14	1012.05	9.85	0.4
32.49	86.88	1010.61	331.82	0.39
31.98	87.12	1011.05	314.41	0.34
30.13	92.87	1011.61	11.58	0.33
32.31	85.38	1012.12	335.96	0.31
32.39	84.46	1014.47	350.07	0.39
32.77	81.08	1016.95	22.6	0.46
29.4	74.85	970.2	4.25	3.8
32.77	73.51	1071.05	11.52	3.78
32.43	77.08	1017.2	22.18	0.54
31.33	76.86	1019.14	26.4	0.59
33.51	77.2	1019.97	2.16	0.57
34.88	73.43	1014.39	13.73	0.58
36.37	63.53	1015.19	41.56	0.58
36.23	60.79	1015.79	353.14	0.59

806

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34.11	82.03	1014.94	3.9	0.59
33.94	80.19	1015.13	8.73	0.58
33.9	78.28	1016.01	352.2	0.59
33.48	78.13	1017.48	92.34	0.61
32.96	77.39	1018.85	34.04	0.59
33.77	79.85	1018.54	13.01	0.6
34.55	70.33	1018.75	13.73	0.6
35.58	73.04	1018.07	16.81	0.61
35.03	63.46	1017.76	17.93	0.6
35.57	64.97	1018	15.57	0.61
35.12	72.16	1019.07	16.7	0.6
35.78	68.73	1018.95	357.72	0.61
35.26	63.29	1017.45	17.76	0.61
35.3	66.44	1016.5	357.29	0.6
35.29	70.73	1017.06	5.39	0.6
35.1	67.82	1017.2	12.96	0.61
35.02	69.75	1016.51	12.09	0.6
34.63	74.62	1017.58	42.56	0.59
34.14	70.35	1018.93	34.13	0.6
33.93	66.48	1018.77	62.24	0.6
34.06	71.18	1017.94	0.81	0.6
33.8	60.33	1017.73	17.84	0.6
32.84	58.3	1017.29	7.21	0.59
33.79	61.02	1016.67	48.95	0.59
33.9	60.88	1016.92	108.87	0.6
34.51	61.93	1018	39.27	0.6
33.53	66.89	1018.77	2.11	0.59
33.81	66.59	1018.26	15.27	0.59
33.84	75.62	1018.26	7.53	0.6
34.25	68.2	1017.54	40.58	0.61
34.54	57.24	1017.83	342.47	0.59
33.81	54.21	1018.78	7.23	0.59
33.69	56.36	1018.15	8.77	0.6
33.47	56.2	1017.38	12.19	0.58
33.97	51.48	1017.81	34.37	0.62
34.98	49.23	1018.95	102.84	0.6
33.74	56.78	1020.02	36.9	0.57
33.27	56.52	1017.89	24.68	0.6
33.17	56.18	1016.65	37.1	0.62
33.31	56.86	1016.29	16.29	0.58
32.97	54.42	1016.42	2.96	0.58
33.59	48.82	1017.82	48.27	0.58
30.88	46.66	1019.09	0	0.6
36.07	49.12	1016.51	127.24	0.61
33.71	59.4	1017.4	144.6	0.61
32.53	74.4	1018	111.6	0.61

807

32.39	74.2	1018.5	104.1	0.61
33.23	68.7	1019	125	0.61
33.45	70	1018.8	61.2	0.6
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32.01	65.4	1017.3	22.5	0.6
30.68	51.8	1018.9	29.4	0.6
31.64	54.6	1020.1	29	0.6
32.72	60.9	1020.6	48.9	0.6
32.71	63.1	1019.1	47.8	0.61
32.28	65.8	1019	32.8	0.6
31.75	59.3	1020.1	32.4	0.6
31.5	59.1	1019.4	35.1	0.6
31.82	55.8	1019.5	59.2	0.61
31.98	51.9	1019.3	82.9	0.6
32.26	51.3	1019.9	132.3	0.61
31.46	53.9	1020	114.5	0.6
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30.09	67.3	1019.3	30.5	0.6
29.56	68.2	1018.6	22.6	0.6
28.75	56.3	1018	30.9	0.6
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29.65	60	1018.8	22	0.6
30.04	65.1	1017.9	35.2	0.6
29.28	69.8	1018.9	20	0.6
28.2	55.1	1019.1	23	0.6
28.29	51.9	1019.7	20.2	0.6
30.08	59.4	1021.1	71.4	0.6
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25.72	58.2	1023.5	25.4	0.6
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28.91	34.5	1023.1	137.8	0.62
26.95	35.5	985.2	113.8	0.97
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29.33	42.6	1024.4	31.6	0.6
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30.43	46.7	1021.5	12.2	0.6
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28.25	59.1	1023.2	4.2	0.6
29.26	52.3	1022.5	5.5	0.6
29.31	53.6	1022	10	0.6
29.4	58.1	1021.5	355.4	0.6
29.3	63.3	1022.4	28.8	0.61
29.1	63.8	1023	12.9	0.6
28.6	57.8	1021.2	19.2	0.6
28.53	54.2	1021.7	21.9	0.6
28.87	59	1021.8	10.1	0.6
28.03	71.3	1020.8	13.9	0.6
27.56	71.1	1020	18.9	0.6

808

26.91	71	1020.3	6.8	0.55
26.89	69	1019.6	16.3	0.57
27.21	66.5	1019	0.2	0.6
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26.83	64.5	1018.6	19.7	0.57
26.7	53.3	1019.5	10.3	0.61
26.36	47.2	1021.4	15.2	0.6
27.43	45.7	1021.9	68.8	0.61
28.71	36.7	1021.7	58	0.65
28.85	42.7	1021.7	22.6	0.6
29.53	49.6	1021.9	11.3	0.6
27.88	53.6	1021.1	356.7	0.6
26.7	56.9	1020.8	23.7	0.6
26.58	71.9	1021.2	22.1	0.62
27.71	66.4	1020.6	16.9	0.61
29.32	67.7	1021.7	14	0.61
29.41	68.8	1021.8	17.9	0.6
29.12	70.9	1021	18.5	0.59
29.21	69.4	1021.7	12.9	0.64
29.43	62.1	1021.7	9.6	0.6
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27.45	70.5	1020.5	19	0.61
27.61	66.5	1021	36.3	0.6
28.67	53.8	1020.1	24.1	0.68
28.51	51.7	1020.1	28.5	0.61
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29.86	79	1020.5	11.9	0.6
29.68	72.9	1020	9.5	0.61
29.89	78.6	1021.8	7.5	0.59
30.63	68.9	1022.3	9.3	0.62
31.37	54.1	1020.8	10.8	0.59
30.7	46	1021	18.1	0.64
29.43	63.8	1018.7	5.4	0.6
29.49	79.8	1018.7	347.5	0.57
29.53	73.7	1019.8	8.8	0.6
29.58	75	1020.5	10.9	0.63
31.16	75.1	1020.2	11.5	0.6
31.26	79.7	1021.4	1.1	0.6
31.66	78.3	1021.5	4.4	0.62
32.33	68.5	1019.3	2.3	0.6
33.17	71.2	1020.1	4.3	0.6
33.63	60.2	1007.7	12.1	0.6
33.03	56.1	1020.3	62	0.66
32.25	65.3	1018.7	16.2	0.61

809

31.3	66.4	1018.9	18.5	0.59
31.34	62.9	1018	15.2	0.63
32.68	54.3	1017.3	17.1	0.63
32.55	58.5	1018.3	20.5	0.63
32.27	61.8	1018.7	9	0.6
33.11	68.5	1018.9	13.7	0.61
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31.57	75.3	1018.7	355.7	0.61
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34.75	58.6	1018.2	23.2	0.65
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33.45	64.7	1018.6	17.7	0.61
32.8	62.3	1016.4	17.2	0.6
34.89	54.2	1015.5	12.8	0.62
32.97	74	1017.7	355.5	0.59
32.4	80.1	1019.3	349.2	0.59
32.75	76.9	1019.1	10.2	0.59
33.81	69	1018.1	5.5	0.6
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33.87	69.1	1018.6	25.2	0.62
34.54	67.9	1018.2	19.7	0.63
34.23	69.5	1016.5	28.9	0.59
33.29	74.3	1015.6	16.7	0.62
33.21	74.2	1015.4	11.2	0.55
33.29	75	1016.4	16.2	0.59
33.31	74.3	1016.4	9	0.55
33	72.9	1016.3	3.7	0.53
33.94	74.9	1015.7	16.7	0.66
34.37	71.6	1015.7	33.4	0.59
33.72	76	1018	3.7	0.56
33.16	77	1017.7	18.9	0.57
33.02	71.6	1017.6	357.6	0.59
33.5	70.8	1016.1	353.3	0.6
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33.22	70.1	1015.2	353.8	0.58
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34.57	73.9	1015.5	31.1	0.62
34.62	72.9	1016.1	10.3	0.6
34.33	70.7	1016.1	27.9	0.6
34.37	72.5	1015.8	13.9	0.57
34.62	73.8	1017.3	3.5	0.57
34.5	75	1016.8	4.8	0.57
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34.89	77.4	1017	15.1	0.6
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36.05	73.3	1015	340.7	0.55
36.22	73.1	1014.4	296.6	0.57
36.14	72.1	1015	307.3	0.59
36.18	72.2	1016.3	342.2	0.6
36.01	72.1	1016	348.6	0.6
36.15	71.7	1015.2	348.3	0.6
35.93	72.6	1014.3	321.2	0.62
36.32	71.4	1015.1	12.6	0.6
36.34	70.7	1015.5	6.8	0.57
36.25	69.9	1014.9	12.8	0.66
36.21	70.3	1014.2	345.4	0.59
36.05	72.7	1014.1	344.9	0.57
35.17	74.6	1014.4	340.7	0.55
35.24	76.3	1013.8	10.6	0.61
36.2	75.1	1013.6	342.6	0.6
36.29	72.1	1012.8	359.3	0.6
36.51	72	1012.9	348.1	0.58
35.69	72.5	999.9	332.6	0.71
33.77	83.3	1014.4	317.5	0.6
35.62	78	1014.3	328.9	0.61
35.89	74.9	1014.9	310.1	0.59
35.71	73.9	1014.2	317.6	0.61
35.61	75.2	1012.6	306.3	0.58
35.97	72.8	1012.1	313.2	0.6
35.97	72.8	1012.4	318.9	0.6

811

35.61	72.9	1012.7	348.8	0.58
33.14	82.7	1011.6	6.8	0.61
30.78	93.7	1010.6	273.7	0.6
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31.44	98.6	1012	290.6	0.6
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31.59	96	1012.3	283.5	0.6
31.72	97.4	1013.1	291.4	0.61
31.86	96.4	1012.6	296.8	0.6
31.68	96.5	1011.4	301.9	0.6
31.86	94.6	1010.7	307.7	0.59
31.66	97.5	1010.8	306.8	0.61
31.86	96.4	1011.4	305.4	0.61
31.48	95.3	1011.8	300.6	0.6
30.74	98.4	1012.2	284.1	0.6
32.45	94.8	1013.1	284.1	0.66
31.99	92.4	1013.6	300.2	0.6
31.25	96.9	1015.9	166.6	0.6
30.93	96.99	1016.61	296.63	0.61
29.26	99.9	1016.6	306.9	0.6
31.16	96.7	1015.4	316.3	0.6
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29.91	96.5	1015.1	237.1	0.6
29.02	98.8	1014.6	201.3	0.6
29.86	98.5	1013.7	223.3	0.61
29.49	99.1	1006.4	318.7	0.62
29.69	99.6	1013.5	312.4	0.69
30.78	98.1	1010.4	287.8	0.58
31.23	96.5	1010.2	319.5	0.61
31.62	94.2	1011.1	331.1	0.62
30.32	99.7	1010.6	327.3	0.6
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32.12	90.5	1013	10.4	0.64
32.11	91	1013.9	359.8	0.57

812

31.87	92.1	1014	326.7	0.58
31.82	92.5	1014.3	350.1	0.61
31.43	94.9	1015.8	354.2	0.6
31.77	93.7	1016.2	0	0.64
31.47	94.51	1015.43	354.64	0.6
31.72	90	1015	359.8	0.61
32.26	88.4	1014.6	344.7	0.57
32.46	85	1014.1	329	0.57
32	88.2	1012.9	351.3	0.61
32.92	102.9	979.6	353.1	1.02
32.43	86.1	1013.7	353.2	0.62
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31.96	90.1	1014.1	353.8	0.61
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32.53	83.7	1014.8	349	0.61
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28.89	99.9	1014.6	354.5	0.6
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31.02	98.2	1013.6	356.3	0.6
31.53	91	1013.9	347.2	0.63
31.96	88.8	1014.8	346.1	0.61
31.08	91.9	1015.3	6.5	0.61
30.56	92.5	1015.8	2.9	0.61
32.08	81.9	1017.8	6	0.62
32.47	77.6	1018.6	8.3	0.62
32.26	78.8	1018.5	15.4	0.62
32.06	80.8	1017.5	10.9	0.62
32.27	80.1	1017.8	23.4	0.61
31.51	87.3	1018.8	49.2	0.62
31.35	88.2	1018.2	37	0.61
31.31	88.9	1017	8.5	0.61
32.47	81.9	1015.8	357	0.61
32.18	83.4	1016.2	276.9	0.61
32.85	81.3	1015.9	16.3	0.61
30.02	97	1015.1	348	0.6
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29.82	98.6	1011.9	9	0.61
29.33	99.9	1013.4	8.1	0.59
30.2	96.8	1016.1	0.5	0.61
28.53	99.9	1016.6	358.7	0.61
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30.26	99.7	1016.7	7	0.66
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33.34	<Samp	1015.3	9.2	0.6
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813

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28.88	99.9	1015.6	210.9	0.61
29.58	99.6	1016.4	216.1	0.61
30.75	<Samp	1016.8	133.6	0.61
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32.22	OffScan	1016.3	86.3	0.62
32.49	OffScan	1016.4	28.6	0.61
32.41	OffScan	1017.1	40.3	0.61
32.08	OffScan	1017.1	38.9	0.61
32.16	OffScan	1017.4	46.4	0.62
32.42	OffScan	1017.4	58.7	0.62
32.44	<Samp	1017.7	36.6	0.61
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33.36	84.4	1017.7	35.3	0.61
34.51	<Samp	1016.8	52.9	0.61
33.6	OffScan	1016.2	23.5	0.61
33.13	OffScan	1015.3	33.5	0.61
34.39	<Samp	1009.9	27.6	0.63
33.19	69.7	1018.2	51.6	0.67
32.95	72.6	1018.6	44.4	0.67
32.81	72.2	1018.7	47.4	0.67
32.03	67.9	1018.4	43.5	0.67
31.77	61.5	1018.5	179.6	0.68
33.12	58.8	1019.8	305.4	0.68
33.2	53.6	1019	288.6	0.68
32.55	58.3	1018.4	340.8	0.68
32.51	53.6	1018.8	351.9	0.68
34.09	54.8	1020.3	199.2	0.68
34.47	47.8	1020.2	207.7	0.67
34.06	38.1	1019.5	294.8	0.68
32.94	47.7	1019.6	281.3	0.66
32.31	51.3	1018.5	245.8	0.66
32	56.8	1017.3	345.1	0.67
32.05	52.3	1018.7	235.3	0.66
31.81	56.5	1020.5	319.9	0.66
32.04	45.8	1021	343.8	0.66
31.7	46.7	1021.6	343.8	0.67
31.18	47.2	1020.8	339.3	0.67
31.34	46.2	1019.9	348.2	0.67
31.55	48.2	1020.2	348.3	0.66
31.91	49.8	1021	322.4	0.66
31.97	53.3	1020.5	310.9	0.66
32.07	62.8	1019.6	342.4	0.66
33.43	63.2	1020.2	330.7	0.68
34.18	55.4	1021.4	340.4	0.71
33.21	45.1	1020.4	344.7	0.71
32.18	50.3	1019	312.8	0.7
31.59	50.9	1019.4	200.7	0.71

814

33.89	44.67	1019.39	350.97	0.71
32.14	47.3	1019.5	352	0.7
31.87	49.4	1019.1	341.3	0.7
32.61	47.8	1019.5	324.8	0.71
32.39	47.9	1019.5	346.3	0.7
32.07	45.5	1020.3	358.5	0.71
31.7	52.9	1020.6	359.7	0.7
32.02	57.2	1020.1	4	0.7
31.18	66.2	1021	7.5	0.7
31.12	65.4	1021.5	358.2	0.7
30.97	63.1	1021	332.3	0.7
32.14	55.7	1020.9	66	0.7
32.85	49.9	1021.5	121.4	0.71
33.33	55.9	1021.3	69.9	0.71
33.82	56.6	1021.6	81.5	0.7
32.53	53.7	1021.3	62	0.71
31.67	47.6	1021.7	95.5	0.7
31.34	49.2	1021.7	123.6	0.71
30.47	55.4	1020.7	40	0.7
29.64	58.4	1020.3	21.1	0.7
29.46	54.9	1019.4	11.3	0.7
30.22	55.3	1019.1	5	0.7
31.09	51.3	1018.5	359.3	0.7
32.19	50	1019.4	348.4	0.7
33.3	59.5	1020.6	346.5	0.71
33.43	55.6	1022	357	0.7
33.21	50.9	1022.6	16.6	0.7
32.08	45.1	1023	359	0.7
30.46	51.6	1022.9	340.8	0.7
31.23	51.8	1021.9	310.4	0.7
31.13	53.9	1023.1	259.2	0.7
30.33	58.7	1023	42	0.7
29.93	62.4	1021.4	37.3	0.7
29.59	63.1	1019.2	39.1	0.7
29.3	68.8	1020.2	27	0.7
30.01	60.7	1021.3	34.6	0.7
29.95	52.1	1021.4	52	0.7
30.38	44.9	1021.4	104.3	0.71
30.2	48.7	1021.7	55.1	0.7
31.18	48.4	1022.5	29.8	0.71
30.37	58.7	1021.7	5	0.71
29.7	62.4	1022.3	1.4	0.71
29.91	63.3	1023.2	24	0.71
30.21	51	1023.2	351.7	0.71
29.75	55.3	1022.8	6.1	0.71
29.13	60.2	1022.2	331.6	0.71
28.22	67.4	1022.1	15.9	0.71
28.03	69.4	1020.8	334.7	0.72
28.99	66.6	1020.1	15.3	0.73
28.95	56.9	1020.8	20.3	0.73
27.11	55.2	1022.4	25.6	0.73
26.71	57.5	1022.6	40.3	0.74

815

26.6	54.8	1021.2	18.7	0.72
27.94	58	1020.7	25.3	0.76
29.61	59.5	1021.3	242.5	0.75
30.12	66.35	1023.66	348.01	0.74
30.82	58.57	1024.32	1.38	0.76
28.44	61.3	1023.5	25.4	0.73
28.1	57.6	1024	23.7	0.77
29.96	58.3	1024.2	8.3	0.75
30.06	53.4	1024.3	358.6	0.77
30.62	50.6	1024.3	14.8	0.73
31.64	47.1	1025	31.6	0.75
32	47.6	1012.9	13.2	0.76
32.68	46.7	1023.5	7.7	0.74
32.4	46.1	1023.6	360	0.72
31.03	53	1023.7	1.4	0.74
29.35	53.5	1023.8	4	0.76
31.08	43.3	1022.6	66.2	0.71
31.73	43.4	1022.9	25.8	0.74
31.49	49.8	1022.3	27	0.74
30.03	51.1	1021.4	30.6	0.68
30.01	51.4	1021.7	26.6	0.73
30.48	56	1022.5	31.2	0.67
31.83	58.48	1005.66	5.02	0.79
28.73	71.5	1022.7	38.5	0.7
27.29	71.1	1022.3	17.5	0.46
26.83	57.4	1017.9	32.9	0.48
28.38	56.6	1016.3	20.4	0.89
29.22	64	1023.1	22.9	0.8
29.89	55.3	1022.5	22	0.8
29.55	57	1020.8	17.5	0.8
29.22	66.3	1022.3	11.2	0.8
29.12	62.3	1024	25.4	0.8
31.01	53.7	1024.1	10.2	0.8
33.39	45.6	1026	9.3	0.81
34.56	42.7	1026.2	337.9	0.8
34.32	42.7	1024.8	352.4	0.81
34.86	42	1023.6	322.5	0.82
35.21	36.3	1024.3	359.7	0.82
34.56	46.2	1023.7	322.9	0.81
33.16	56.4	1021.3	335.2	0.81
30.76	73	1021.4	328.2	0.81
30.34	71.2	1022.7	348	0.81
31.95	61.1	1023.1	337.7	0.81
33	49.8	1023	12.1	0.81
33.8	45.4	1022.4	27.6	0.81
34.04	45.5	1020.3	16.6	0.81
33.54	53.1	1021	4	0.81
34.13	42.7	1021.9	357.1	0.81
34.02	49.2	1021.1	32.5	0.81
33.01	52.5	1020.1	38.3	0.81
32.47	61.2	1018.4	33	0.81
31.65	66.4	1018.5	28.5	0.81

816

32.18	57.2	1018.8	347.8	0.81
31.89	63.9	1018.5	344.1	0.81
31.55	66.8	1018.8	2.5	0.81
32.33	64.7	1019.2	4.4	0.81
32.08	62.5	1019	358.3	0.81
31.73	62.5	1020	8.9	0.81
31.46	52.3	1022.7	33.8	0.84
30.51	46.8	1022.9	60.8	0.84
31.42	41.5	1020.9	24.2	0.82
32.58	46	1021.2	2.4	0.81
32.9	61.5	1021.1	351.7	0.81
33.24	61.2	1022.1	342.3	0.81
32.99	66.3	1021.8	286	0.81
33.28	60.4	1022.3	53.3	0.81
32.48	69.8	1022.7	31.5	0.8
32.93	70.3	1022	51.8	0.81
33.28	73	1022.5	321.6	0.81
33.24	68.5	1022.1	4	0.81
33.33	67.8	1021	41.5	0.81
33.55	69.7	1020.6	120.8	0.81
34.12	64.4	1020.6	272.9	0.81
35.1	60.2	1020.9	312.8	0.81
36.56	55.2	1019.8	2.9	0.81
34.51	76.2	1021.1	314	0.8
34.4	77.7	1021.2	271.8	0.8
34.35	77.9	1021.9	291	0.8
34.89	69.5	1021.4	15.8	0.81
33.87	71.2	1021.3	354.3	0.8
34.25	71.7	1020.6	330.5	0.81
34.34	69.9	1020.5	317.5	0.8
34.4	71.2	1021	293.1	0.8
34.48	71.4	1020.4	270.9	0.8
34.47	71.5	1019.7	271.5	0.8
33.53	63.3	1020.8	22.4	0.81
33.54	56.5	1020.1	39.1	0.8
35.12	54.4	1018.3	20.6	0.81
35.5	60.4	1017.5	335.3	0.8
35.52	73.5	1018.3	319.8	0.81
35.36	73.9	1019.2	312.8	0.8
35.61	69.1	1018.7	298.9	0.8
35.25	72.8	1018.1	282.7	0.8
35	74.1	1017.4	278	0.8
34.84	69.3	1017.7	14	0.8
35.02	72.4	1019.1	359.7	0.8
35.69	68.6	1019.1	49.3	0.82
35.37	71.8	1019.2	344.7	0.86
35.1	71.5	1019.4	301.7	0.86
35.13	69.1	1019.6	276.3	0.84
35.04	69.2	1020.3	273.3	0.85
35.28	67.2	1020.2	283.4	0.85
35.14	64.5	1021.3	310.1	0.87
35	64.3	1021.6	342	0.87

817

34.88	66.2	1021.5	6.2	0.87
35.11	66.4	1021.4	49.2	0.87
34.84	70.1	1021.3	27.1	0.88
34.88	68.9	1021.7	352.1	0.87
34.68	69.4	1021	323	0.87
35.47	71.6	1020.9	15.1	0.89
35.07	74.3	1022.1	347	0.89
35.29	74.1	1021.7	13	0.89
35.59	74.1	1021.7	351.5	0.89
36.45	73.1	1020.8	322.5	0.89
36.15	73.8	1021.8	306.5	0.89
36.11	70.7	1022.7	306.6	0.89
36.47	70.2	1021.3	309	0.88
36.27	70.4	1020.1	306.8	0.88
36.02	71.9	1019.8	324.1	0.88
37.11	69.1	1019.83	349.75	0.88
36.59	72.5	1019.1	360	0.86
36.64	66.4	1018.1	6.1	0.86
36.62	72.4	1018.4	332.2	0.87
36.26	71.1	1018.8	294.2	0.86
36.25	71.4	1017.5	308.3	0.86
36.5	71.3	1018	303.5	0.87
36.46	71.5	1018.9	327	0.87
36.32	70.4	1020.5	330.9	0.86
36.5	67.2	1019.4	358.8	0.87
36.46	64.2	1018.5	314	0.87
36.64	66.4	1018.8	25.7	0.87
36.72	70.7	1018.7	31.7	0.87
36.72	73.5	1017.8	342.3	0.87
36.86	71.8	1017.4	346.6	0.86
37.26	68.44	1017.19	305.73	0.87
36.86	69.45	1017.15	292.82	0.86
36.93	71.04	1017.14	281.29	0.86
37.07	72.53	1015.81	272.57	0.85
36.8	70.89	996.93	289.3	0.82
37.17	72.3	1012.8	296.2	0.87
36.24	73.7	1006.2	237.9	0.85
35.75	77.7	1014.9	268.7	0.87
36.52	72.1	1016.5	249.6	0.85
36.39	72.4	1017.4	215.7	0.87
36.4	74.5	1017.8	223.2	0.87
36.62	72.5	1018.6	13.1	0.86
34.96	74.6	1019.5	358.8	0.87
33.67	80	1019.2	327	0.86
33.49	83	1017.4	273.9	0.86
32.95	84.6	1015.4	289.7	0.86
33.32	84.2	1014.4	281.1	0.85
33.57	85	1014.4	260.6	0.86
33.57	83.3	1015.7	262.9	0.86
35.35	79	1017.2	253.4	0.87
34.68	82	1017.8	187.8	0.87
35.45	78.7	1016.7	199.3	0.86

818

35.57	76.2	1016.9	185.3	0.86
36.54	74	1016.7	250	0.86
35.88	76.4	1015.8	295.7	0.86
35.98	75.2	1015.7	300	0.86
35.32	75.2	1015.8	284.8	0.85
34.52	81.2	1016.8	268.8	0.86
35.9	73.06	997.26	199.73	0.85
35.4	78.2	1013.1	324.9	0.86
31.41	89.2	1011.7	161.2	0.86
32.84	86.7	1012.5	307.4	0.86
32.64	88.8	1013	286.7	0.85
32.01	91.8	1013	263.4	0.85
33.5	86.9	1013.8	263.8	0.86
34.35	82.9	1013.7	280.6	0.86
33.4	86.5	1013.8	309.8	0.86
32.69	89.1	1014.9	323.4	0.85
34.76	81.4	1016.4	337.7	0.86
34.59	79.96	1016.94	304.52	0.86
34.91	78.78	1017	342.37	0.87
34.77	79.42	1017.21	332.12	0.87
34.73	79.7	1017.46	329.75	0.88
33.54	70.03	946.81	336.11	0.96
33.33	76.06	977.67	348.71	0.88
34.66	79	1018.4	345.3	0.88
34.93	76.2	1018.4	247	0.87
34.71	75.4	1017.7	239.1	0.86
33.52	83.5	1016.1	4.9	0.87
32.86	85.6	1015.4	333.4	0.85
32.05	86.9	967.7	351.2	1.03
32.94	84.6	1015.3	331.3	0.86
29.61	93.2	991.3	332.5	0.98
30.87	96.9	1013.8	310.5	0.86
31.65	91.2	978.4	300.4	0.98
32.28	91.8	1010.8	280.4	0.86
32.41	91.4	1012.4	269.8	0.86
32.14	92.2	1014.6	270.5	0.86
33.35	85.4	1015.2	277.3	0.86
33.79	83.9	1015.8	265.4	0.86
32.83	83.1	994.7	266.4	1.35
32.63	81.2	987.9	274.1	0.89
32.61	83.5	998.2	300.3	0.93
33.65	83.5	1017.9	293.3	0.86
33.7	83.9	1018.9	290.2	0.87
32.32	80.4	985.7	293.2	1.43
32.69	87.6	1019	295	1.18
33.15	85.7	1019.2	281.1	0.87
33.81	82	1019.3	280.7	0.86
33.62	82.4	1015.1	285	0.87
34.25	81.8	1015.7	275.5	0.87
34.22	80.3	1015.3	282.8	0.87
34.38	79.6	1015.6	235.4	0.86
33.81	80.7	1016.5	238.4	0.87

819

34.23	79.1	1017.5	304.8	0.87
33.83	81	1017.6	288.6	0.87
32.98	78.6	980.4	318.1	1.16
34.16	79.6	1018.9	332.5	0.87
34.48	77.3	1018.1	299.8	0.89
32.84	82.5	1009.3	320.5	1
32.17	88.7	1020.1	306.9	0.89
32.78	85.9	1021	320.8	0.87
33.76	83.1	1019.3	348	0.85
34.31	78.4	1017.2	325.4	0.87
34.44	79	1015.7	325.2	0.87
32.39	88.8	1016.2	311.2	0.86
30.06	93.8	1015	287.9	0.86
30.47	91.7	1013.6	251.9	0.86
32.74	84.8	1015	260.1	0.87
33.92	83.6	1017.7	294.3	0.87
34.15	81.6	1018.2	339.4	0.87
31.39	94.7	1016.5	335	0.86
32.03	93.1	1014.6	325.1	0.86
33.02	88.7	1013.6	337.2	0.87
31.72	94.7	1011.7	338.8	0.86
30.66	97.78	1009.13	317.06	0.86
33.6	87.12	1011.48	279.92	1.13
33.64	83.2	1018.4	262.4	0.87
33.18	84.5	1019.4	237.8	0.87
33.18	85	1019	229	0.87
32.27	91.1	1019.6	278.5	0.85
34.2	81.6	1021	333.7	0.87
34.32	78.5	1020.9	10.5	0.88
34.47	77	1019.4	295.6	0.88
34.42	78.6	1017.9	325.7	0.86
34.73	80.8	1017.9	346.8	0.86
34.61	81.4	1017	159.9	0.87
34.81	82.8	1017.3	328.2	0.86
36.46	80.6	1017.7	306.7	0.87
36.55	75.2	1018.3	302.5	0.87
34.03	82.9	1017.9	324.9	0.8
33.99	83	1017	325.5	0.77
33.23	80.55	1014.88	354.04	0.72
32.76	83.99	1014.6	344.62	0.7
31.53	88.52	1014.76	175.19	0.7
33.9	76.08	1010.52	186.63	0.73
31.89	88.3	1012.2	20.5	0.7
29.18	96	1014.2	351.4	0.7
31.58	89.3	1015	358.6	0.7
32.45	83.4	1016.6	207.6	0.71
33.04	81.1	1018.5	301.1	0.71
33.38	80.4	1019	347.8	0.7
32.14	78.3	990.9	4	0.78
33.55	78.8	1016.9	357.7	0.71
34.44	80	1017	359.8	0.7
34.47	82.6	1016	356.3	0.71

820

33.26	87.5	1016.3	353.2	0.7
33.84	83.3	1017.5	352.3	0.71
34.9	79.5	1016.7	8.1	0.71
34.88	78.7	1015.4	356	0.71
34.56	78	1013.3	9.7	0.7
35.64	75.6	1016	16.8	0.71
35.4	78.3	1014.8	1.2	0.71
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32.73	87.3	1013.6	229.1	0.71
32.39	85.9	1014.1	177.7	0.73
34.07	79.6	1015	200.2	0.75
34.11	81.9	1014.8	319.8	0.73
31.21	86.6	1015	261.4	0.74
28.74	88.1	1016.4	18.6	0.76
29.5	86.6	1016.9	336.6	0.74
29.44	84.8	1017.2	11.2	0.74
29.79	83	1016.9	14.2	0.78
29.37	80.4	1016.3	14.1	0.77
28.8	77.8	1016.9	308.4	0.76
29.33	81	1018	230.4	0.76
30.13	78.5	1018.5	273.9	0.77
30.71	71.86	1019.5	15.96	0.76
29.51	62.4	1020.99	45.7	0.77
29.2	61.11	1021.77	18.77	0.76
29.93	56.54	1021.3	358.02	0.78
29.48	66.9	1021.77	335.97	0.8
31.12	55.29	1021.64	268.66	0.8
29.12	60.3	1022.31	332.9	0.8
31.55	49.45	1021.92	336.96	0.8
29.9	52	1019	350.9	0.78
29.7	47.2	1021	333.7	0.8
29.73	41.3	1020.4	293.1	0.79
29.36	44.6	1020	76	0.8
28.46	45.6	1019.7	54.9	0.79
28.53	47	1020.6	86.1	0.8
29.91	52.5	1020.8	124.7	0.8
29.27	62.2	1021.2	350.6	0.8
28.88	63.6	1021.5	20.1	0.8
29.03	54.5	1020.5	26.5	0.8
29.12	57.2	1020.2	35.8	0.8
28.66	58.7	1021.3	63.6	0.8
28.31	50.1	1019.5	38.4	0.8
27.44	57.3	1018.6	8.5	0.8
26.75	64.1	1018.1	19.6	0.79
30.59	45	1018.11	86.4	0.8
28.66	49.54	1019.85	17.56	0.8
27.59	56.1	1019.6	26.4	0.8
27.53	60	1020.4	14.1	0.8
28.5	53.5	1021.3	21.7	0.8

821

28.26	60.6	1021.5	18.9	0.8
29.17	66	1020.6	25.9	0.8
29.31	61.2	1020.1	18.4	0.8
28	54.6	1020.3	23.7	0.8
26.77	61.1	1022.3	13.5	0.8
26.97	67.5	1022.8	24.5	0.8
28.49	62.9	1023	31.5	0.8
28.07	58	1022.1	74.4	0.8
26.65	62.2	1021.8	14.2	0.8
27.02	59	1022.3	18.8	0.8
27.1	54	1021.2	34.9	0.81
28.36	49.6	1019.4	145.1	0.8
28.42	48.5	1020.1	137.2	0.8
27.69	57.3	1020.2	120.1	0.8
27.28	64.4	1019	115.9	0.8
25.22	92.3	1015.8	111	0.79
26.96	86.8	1019.2	348.6	0.79
24.35	78.6	1021.7	9.5	0.8
25.06	79.7	1021.1	12.8	0.8
26.06	87.5	1021.4	7.7	0.8
26.1	84.2	1022.3	14.4	0.8
25.56	79.2	1023.8	7.5	0.79
24.94	73.3	1024.4	11.4	0.79
24.13	65.9	1024.3	8.1	0.78
23.76	65.9	1024.3	8.2	0.79
24.41	74.1	1024.2	27.6	0.8
26.26	73.8	1024.6	26	0.8
27.58	60.4	1025.4	47.5	0.8
27.26	51.8	1026.1	129.9	0.8
27.31	49.4	1025.2	118.7	0.8
26.82	47	1025.2	26.7	0.8
26.15	52.3	1025.3	13.6	0.8
26.49	56.1	1024.2	51.6	0.8
26.12	54.3	1022.3	18.3	0.8
25.23	65.8	1021.7	7.2	0.8
24.64	69.1	998.9	3	0.8
26.55	56.3	1023.2	65.3	0.8
26.22	51.9	1022.9	45.8	0.8
25.61	54.5	1022.1	19.4	0.8
25.51	59.5	1022.5	22.6	0.8
24.87	62.6	1022.6	7.7	0.8
24.83	65.7	1021.3	19	0.8
24.45	62.6	1020.2	18.9	0.8
23.69	64.3	1019.9	14.3	0.8
24.26	75	1021.2	19.6	0.8
24.41	75.5	1017.3	26.1	0.8
24.48	69.3	1020.4	18.6	0.8
24.18	57.7	1021.1	26.1	0.8
23.2	51.7	1022.5	0.1	0.8
23.12	63.5	1022.6	18.9	0.8
24.75	68.8	1023.9	11.7	0.8
26.12	62.3	1024	26.7	0.8

822

27.78	52.1	1023.6	40.8	0.8
28.08	55.8	1022.5	98.8	0.8
28.23	58.1	1022.3	43.7	0.8
27.68	67.2	1022.9	12.4	0.8
27.8	68.8	1022.7	15.2	0.8
28.86	59	1010.2	0.5	0.83
28.16	59.2	1021.6	10.9	0.81
26.86	55.4	982.9	12.1	0.81
27	51.5	1023.2	2.7	0.8
26.59	52.3	1022.5	1.2	0.8
26.77	57.3	1020.7	11.3	0.8
26.02	61.1	1019.8	347.5	0.81
24.54	69	1019.8	358.1	0.82
23.92	58.6	1021.7	13.2	0.79
24.3	59.3	1020.7	21.2	0.77
24.49	63.4	996.9	355	0.82
24.39	54.6	1019.7	8	0.78
24.51	57.6	1021.2	6	0.77
25.53	60.9	1022.3	357.8	0.77
27.44	52.9	1022.6	5.6	0.75
25.71	48.2	948.4	351.1	0.93
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26.75	65.7	1021.6	4.7	0.77
26.14	73.4	1021.9	12.6	0.8
26.07	59.6	1022.2	1.3	0.79
24.85	56.8	1022.3	343.7	0.77
24.67	69	1023.3	359.8	0.8
24.14	66.2	1025.8	8.2	0.8
24.52	63.6	1026	11.1	0.75
25.84	57.9	1005.4	17.8	0.84
29.97	49.6	1026	60.9	0.79
29.17	54.7	1025.7	12.4	0.8
28.33	49.4	1022.4	12.4	0.79
27.53	46.1	1020.3	4.2	0.78
27.46	51.8	1020.3	358	0.79
26.99	66.1	1020.3	15.3	0.77
27.63	60.9	1019.4	6.6	0.78
28.01	61	1018.7	6.3	0.77
27.28	63.8	987.5	1.9	0.81
28.8	54.6	1021.2	5.2	0.8
30.2	49.2	1021.3	5.6	0.78
30.18	51.9	1020.8	343.6	0.77
30.47	47.5	1017.2	8.2	1.37
30.66	46.3	1019.6	345.5	0.78
29.11	59.4	1015.2	356	0.76
29.02	66.8	1018.7	4.5	0.78
29.28	69.5	1018.3	329.7	0.77

823

28.7	72.2	1018.6	306.1	0.77
28.39	64.8	1020	16.8	0.78
29.57	58.1	1019.5	13.9	0.76
28.92	64.5	1019.2	354.9	0.76
27.69	68.4	1020.4	10.9	0.76
28.09	57.4	1020.6	23	0.78
28.56	68.6	1019.7	30.9	0.78
30.65	52.1	1020	19	0.78
30.22	50.3	1020.4	19.1	0.78
31.12	37	1020.2	25.6	0.78
31.39	38.9	1019.8	38.4	0.78
28.34	61.2	1020.1	21.1	0.79
29.02	58.5	1019.2	14.1	0.78
29.02	64.7	1019	14.7	0.78
27.93	65.5	981.9	12.1	0.88
28.99	64.7	1021.6	13.2	0.79
28.52	71.9	1021.2	19.2	0.78
28.51	67.2	1021.1	24.5	0.79
27.84	64.3	1020.6	27.4	0.79
27.83	66.7	1020.3	19.3	0.8
28.73	69.6	1020.4	18.9	0.79
31.83	55.2	1014	7.1	0.8
32.38	47.8	1020.1	4.4	0.8
32.15	78.4	1009.2	322.4	4.35
29.17	77.6	1020.2	323.7	0.8
28.66	77.7	1019.9	326.5	0.8
28.94	75.9	1019	304.8	0.79
29.19	75.1	1018.8	305.1	0.79
29.02	73.1	1018	3.7	0.79
28.29	69.1	996.1	14.2	0.81
29.35	69.5	1019	10.2	0.8
29.7	71.7	1017	19.9	0.88
29.81	73	1015.9	7.6	0.79
29.92	69.8	1017.6	5.9	0.8
30.08	69.9	1018.5	17.1	0.8
30.08	71	1018.8	351.2	0.8
30.03	63.9	1019.3	28.2	0.8
30.15	71.2	1018.3	25	0.79
29.97	72.1	1018.7	15.9	0.8
30.11	73.3	1018.3	28.2	0.79
30.15	75.3	1018.2	21	0.79
30.22	72.8	995.8	359	4.35
30.43	74.3	1018.4	355.7	0.8
30.94	74.6	1019.2	9.2	0.79
31.67	70.7	995.5	354.6	1.01
32.38	71.5	1019.8	338.2	0.79
32.01	67.3	1017.2	16.1	0.78
30.76	69.3	1018.4	324.3	0.79
29.04	77.27	1019.25	11.06	0.8
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824

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30.66	71.1	1017.3	329.9	0.59
30.71	71.8	1018.2	309.4	0.57
30.72	72.3	1017.9	309.1	0.65
31.27	71.9	1018	320.6	0.51
31.44	70.6	1018.5	310.9	0.55
31.35	74.2	1018.9	315.6	0.53
31.67	68.1	1018.8	308.4	0.53
31.37	70	1017.9	357.8	0.53
31.73	70.9	1017.5	22.1	0.57
31.5	75.3	1018.5	319.9	0.62
32.08	70.8	1018.3	330.6	0.56
31.79	68.1	1018.5	319.3	0.52
31.61	72.6	1017.5	323.1	0.5
31.86	70.5	1018	323.1	0.51
31.68	71	1017.4	329.4	0.49
31.7	72.3	1016.1	17.1	0.51
32.26	74.5	1015.5	345.8	0.55
32.24	73.4	1016.4	282.5	0.54
32.03	73.4	1015.7	296.1	0.6
31.73	72	1016.1	304.7	0.62
32.1	68.8	1016.2	314.2	0.58
31.62	69.6	1016.6	312.8	0.61
31.47	71.5	1015.7	324.3	0.55
32.02	68.9	1015.5	306.3	0.51
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32.25	72.2	1013.7	36.9	0.49
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32.4	71.5	1013.1	287.4	0.54
32.64	71	1013.8	291.2	0.55
32.82	70.2	1014.9	304.8	0.53
32.25	73.2	1015.7	305.6	0.59
30.81	75	1015	3.6	0.72
31.56	75.5	1013.6	313.2	0.55
30.11	75.8	1013.9	154.1	0.57
32.23	75.6	1016	299	0.52
29.6	88.6	1014.4	261.6	0.58
31.13	81.4	1011.5	319.8	0.5
27.76	94.5	1010.7	242.9	0.55
31.22	83	1011.4	271.5	0.49
31.82	79.1	1012.9	270.6	0.5
31.65	77.4	1013.2	264.7	0.56
31.89	75.1	1013.5	262.8	0.56
31.16	75.1	1014.6	276.1	0.53
29.95	76.1	1015.3	273.1	0.66

825

27.56	84.3	1016.5	196.3	0.6
27.67	89.1	1015.9	223.8	0.58
28.09	86.1	1014.3	217.3	0.58
29.82	80.8	1013.7	230.9	0.6
31.16	78.1	1013.4	11.3	0.48
31.25	75.7	1013.6	352.2	0.47
30.94	79.6	1013.7	299.7	0.44
27	91.6	1013.7	265	0.55
26.27	94.6	1013.7	264.3	0.52
27.34	93.9	1012.2	275.1	0.42
29.76	82.1	1011.5	263.8	0.54
30.41	80	1010.9	266.4	0.55
27.42	90.9	1011.4	220.9	0.57
28.48	87.5	1012.1	246.1	0.6
28.5	83.6	1014.2	216.6	0.54
29.12	79.2	1014.8	248.9	0.51
27.81	87.2	1014.3	255.4	0.53
26.33	96.3	1014.7	274	0.54
27.66	89.8	1014.6	284.8	0.55
28.86	89.1	1014.8	299.6	0.48
29.02	88.3	1014.8	322.9	0.47
27.71	92.1	1013.7	336.7	0.46
25.77	97.7	1013.2	103.2	0.55
25.91	98.6	1013.9	87.9	0.64
26.1	99.1	1012.8	272.7	0.46
28.87	89.3	1012.8	264.6	0.48
29.2	84.6	1012	261.9	0.45
28.34	88.6	1011.4	263.6	0.49
28.6	87.4	1010.7	262.8	0.45
27.28	94.6	1009.3	274.8	0.4
27.52	94.1	1010.3	279.1	0.37
27.88	90.6	1011.5	285.9	0.47
28.57	86	1013	295.6	0.55
28.73	85.3	1013.6	302.3	0.52
27.9	88.4	1013.2	299.6	0.51
27.9	88.5	1014.2	299.7	0.52
28.2	86.8	1014.4	295.3	0.52
28.11	87.5	1013.7	303.8	0.64
28.44	85.5	1015.1	289.5	0.54
29.05	82.4	1015.8	285.4	0.52
28.31	84.9	1016.4	285.7	0.54
28.3	85.2	1015.5	287.6	0.57
29.02	83.8	1015.5	284.4	0.55
29.09	82.9	1015.6	284.6	0.56
28.97	82.2	1015.3	283.7	0.55
29.15	81.6	1015.4	286.9	0.54
28.8	84.2	1016	286.2	0.53
28.68	84.3	1017.5	282.6	0.54
28.44	85.2	1018.5	288.2	0.52
27.99	86.1	1017.9	295.2	0.48
28.89	81.4	1017.8	297.1	0.51
28.31	82.9	1016.2	291.9	0.52

28.85	80.6	1014.2	289.7	0.52
28.96	81.9	1013.4	287.9	0.52
28.13	85.5	1016.4	305.2	0.61
28.65	84.1	1018.4	305.1	0.5
27.89	86.9	1017	312.9	0.46
27.53	86.7	1013.8	292.9	0.51
27.61	86.4	1012.6	293.7	0.52
28.74	84.3	1013.8	313.4	0.49
27.93	86.7	1014	331.7	0.49
27.78	87.7	1013.5	347.5	0.44
27.62	87.9	1012.7	304.7	0.47
27.35	88.9	1014.1	302.4	0.52
27.79	87.7	1015.1	322.6	0.46
27.09	90	1015.5	310.8	0.48
26.67	91.8	1015.4	293.8	0.5
27.08	91.1	1016.5	311	0.5
27.72	87.4	1017.8	302	0.52
27.87	85.5	1017.7	291.4	0.52
27.82	84.9	1016.9	297.8	0.53
27.19	88.4	1015.2	309.6	0.51
27.68	85.5	1015.2	323	0.56
27.63	83.8	1015.6	350.9	0.57
28.79	81.8	1017.1	330.4	0.51
28.89	79.9	1017.5	314.1	0.42
28.72	80.4	1018	322.3	0.44
28.7	81.5	1018.4	322.6	0.47
27.82	84.4	1018.6	301.5	0.51
28.39	81.3	1018.7	321.6	0.51
28.84	78.9	1019.7	330.4	0.5
28.79	78.7	1019.4	353.2	0.45
29	74.7	1018.2	351.9	0.46
28.58	75.2	1018	351.3	0.49
28.92	73.4	1018	334.6	0.54
28.37	76.7	1019.1	303.5	0.55
28.66	75.7	1021.5	350.8	0.58
28.88	74.9	1022.1	356.6	0.51
28.84	73.6	1020.5	358.7	0.47
28.18	78.1	1019.3	337.2	0.59
27.59	82.8	1019.7	63.9	0.58
28.93	80.7	1020.4	243	0.6
28.3	83.5	1019.3	107.1	0.59
29	76.7	1018.3	58.9	0.54
29.21	74.5	1018.6	14.7	0.54
27.42	82.5	1018.9	350.5	0.56
28.6	82.5	1016.7	79	0.59
29.23	81.6	1015.3	64.3	0.55
29.06	85.5	1017.2	296.2	0.55
29.32	81.3	1020.7	267.8	0.55
29.25	81.6	1021.1	335	0.57
29.37	77.4	1020.6	35.5	0.54
29.81	77.5	1018.8	26.5	0.57
29.95	79.5	1018.4	13.8	0.53

827

29.8	80.4	1018.9	261.3	0.59
29.74	79.6	1019.6	63.1	0.64
32.13	70	1018.9	142.7	0.64
31.27	66.4	1018.3	141.9	0.57
31.78	67.4	1018.9	167.1	0.59
31.28	70.5	1018.8	176.8	0.61
31.24	67.6	1018.9	169.7	0.59
31.5	64.6	1018.9	151.7	0.61
32.31	61.2	1019.2	116.5	0.55
32.51	65.3	1018.4	84.4	0.72
31.77	75.6	1018.2	341.7	0.59
31.41	78.6	1018.6	356.9	0.59
30.88	79.8	1018.5	359	0.54
30.98	77.2	1018.4	0.9	0.56
31.44	75.3	1018.7	1.5	0.61
32.47	71.5	1020	14.3	0.61
31.69	65.6	1021	73.3	0.56
31.9	61.4	1021.2	45.2	0.58
31.77	60.4	1021.4	4.3	0.75
30.85	73.1	1021.2	161.7	0.71
29.92	74.91	1021.13	210.02	0.73
31.79	69.85	1021	107.63	0.71
30.89	72.8	1022	128.5	0.7
31	77.6	1022.8	143.6	0.73
31.46	73.5	1022.1	46.1	0.76
31.34	57.5	1021.7	23.5	0.72
31.07	49.3	1021	16	0.73
30.97	59	1022.1	0.7	0.74
31.81	52.7	1023.5	140.3	0.74
31.53	54.9	1023.5	196.7	0.72
31.4	50.3	1022.3	168	0.74
31.16	39.5	1021.5	135.8	0.61
30.65	43.1	1020.9	111.9	0.5
30.37	48.5	1020.9	11.6	0.47
30.68	57.8	1020.5	353.9	0.49
31.44	56.6	1020	138.8	0.58
31.48	61.2	1020.2	354.6	0.56
31.68	67.2	1021	85.4	0.53
31.03	67.3	1021.5	83.3	0.57
31.78	66.3	1021.8	65.9	0.61
30.93	49.2	1022	106.3	0.62
29.91	55.7	1021.2	6.4	0.59
30.55	62.1	1020.2	40.3	0.55
30.29	59.7	1021.1	31.8	0.59
29.78	58.8	1022	52.5	0.6
29.88	57.6	1021.5	109.6	0.62
28.71	66.4	1020.5	30.8	0.66
28.07	73.8	1020.1	72.7	0.57
29.36	64.6	1021.5	133.9	0.56
29.89	49.6	1021.7	113.1	0.59
29.31	54.2	1020.4	32.7	0.57
29.07	61.2	1020	345.3	0.57

828

28.92	81.35	1023.77	36.09	0.64
29.97	71.3	1022.8	93.4	0.62
30.48	64.3	1022.5	25.5	0.53
30.68	61.7	1022.6	119.9	0.54
30.15	59.7	1023.8	37.9	0.5
29.73	56	1024.8	125.5	0.56
29.11	58.4	1023.8	60.5	0.61
28.99	61.2	1021.8	90.2	0.59
29.58	52.8	1021.9	121.4	0.57
29.03	54.1	1022.9	115	0.57
28.87	53.5	1024.3	105.7	0.62
28.95	48.6	1024.2	151.5	0.51
27.89	52.6	1002.9	146.5	0.63
27.94	52	1020.2	119.3	0.63
27.8	59.4	1020.7	122.3	0.57
28.95	55.9	1022	138.4	0.54
28.55	60.1	1021.2	102.4	0.61
28.38	54.1	1020.4	46.6	0.53
27.75	55.4	1020.5	24.3	0.53
27.33	57.2	1021.7	74.7	0.61
26.39	56.9	1021.4	40.9	0.53
25.99	55.1	1021.9	45.1	0.48
25.72	54.7	1022.5	109.5	0.53
26.24	65.7	1023.3	144.5	0.61
26.2	54.4	1024.3	125.4	0.55
27.92	40.3	1023.7	141.5	0.54
28.52	40.9	1023.6	146.7	0.52
27.46	46.5	1024	113.9	0.7
25.84	45.2	1023.6	105.6	0.59
26.07	51	1024.1	139.8	0.45
25.32	51.3	1024.6	125.9	0.52
25.37	51.7	1024.2	134.2	0.58
25.98	57.5	1023.1	67.4	0.61
26.08	58.4	1022.6	23	0.57
26.66	55.7	1022.9	25.6	0.61
26.94	59.9	1022.7	22.9	0.66
26.41	63.7	1022.8	16	0.62
24.44	48	1023.7	28.8	0.51
23.75	41.6	1023.6	11.7	0.44
24.33	39.6	1022.6	69.5	0.43
24.89	36.3	1024.2	126.6	0.49
24.88	41.2	1025.9	335	0.49
25	45.1	1026.9	14.5	0.57
24.89	50.6	1027	46.4	0.56
24.34	57.3	1026.7	51.5	0.63
24.64	63.3	1027.4	100.1	0.64
25.23	57.2	1026	34.3	0.57
24.33	59	1024.6	69.1	0.55
22.3	66.1	1024	46.2	0.7
24.06	54.8	1023.4	73	0.56
24.93	48.1	1023.8	45.9	0.5
23.26	59.9	1023.4	19.1	0.57

829

24.18	59.1	1022.4	24.8	0.56
23.8	64.2	1023.1	41.4	0.59
23.37	69.1	1023.5	43.2	0.57
23.39	64.7	1024.2	16.9	0.54
24.38	62.3	1023.1	30.6	0.57
26.87	52.8	1023.6	79.9	0.59
26.8	55.2	1023.7	21.7	0.57
25.93	60.3	1022.8	17	0.62
25.6	59.4	1022.5	27.8	0.61
26.41	60	1023.2	24.3	0.6
26.94	63.4	1023.8	28.8	0.56
25.32	70	1023.3	10.8	0.55
25.21	70.6	1023.8	343.9	0.6
24.43	68.7	1024.9	26.2	0.58
23.23	60	1025.3	43.2	0.53
22.9	47.2	1025	37.9	0.48
23.04	44.9	1025.1	35.4	0.52
24.59	48.9	1025.5	93.7	0.55
24.92	44.5	1026.6	65.6	0.41
24.97	42.4	1026.1	19.9	0.43
24.98	44.6	1025	32.1	0.54
24.38	55.6	1024	52.6	0.58
24.63	59.4	1024	27	0.64
23.82	61.8	1022.9	40.2	0.62
25.34	64.7	1023.4	27.2	0.62
27.27	61	1025	351.1	0.66
26.97	69.2	1025.2	29.9	0.58
25.26	69.2	1023.1	32.5	0.6
23.76	65.8	1024.6	41.1	0.59
21.32	52.5	1027	49.8	0.5
21.86	41.9	1025.5	36.4	0.52
24.01	43.3	1024.5	8.2	0.63
25.75	50	1024.1	26.4	0.67
27.94	46.6	1024.4	25.2	0.67
27.41	55.7	1025.8	30.6	0.61
25.92	66.6	1023.8	39.1	0.57
25.1	66.6	1024.5	33.6	0.59
24.55	58.5	1024.8	30.1	0.67
24.36	57.3	1023.4	40.3	0.77
24.78	63.1	1021.1	30	0.67
25.67	62.8	1021.4	28.5	0.63
26.21	74.3	1023.1	12.6	0.68
25.68	81.5	1026.1	23.8	0.63
26.65	73.5	1024.3	27.1	0.62
27.85	63.9	1021.6	30.8	0.6
27.8	50	1020.4	34.9	0.58
26.84	55.4	1020.4	23.3	0.57
27.07	65.3	1020.3	28.8	0.51
25.65	71	1020.2	39.1	0.65
26.17	59.1	1021	40.4	0.78
25.77	52.4	1019.9	23	0.74
26.28	65.7	1019.6	357.4	0.75

830

26.53	71.1	1021.4	344.4	0.75
26.52	74.6	1020.7	30.4	0.79
26.44	68.2	1020.4	355.4	0.76
25.72	66.4	1021.7	43.6	0.75
25.85	68.6	1020.8	30.9	0.75
26.58	62.5	1022	31.8	0.75
27.92	56.7	1022.7	22.2	0.77
27.91	56	1022.3	14.8	0.76
26.8	69.7	1023.9	18.8	0.76
26.98	69.9	1024	17.8	0.75
26.53	66.1	1024.8	20.8	0.77
26.69	63	1024.8	47.6	0.77
28.24	53.2	1023.3	26.5	0.77
27.24	57.7	1021.9	9.5	0.78
27.41	67.1	1022.1	18.7	0.76
28.07	58.6	1021.4	38.9	0.76
27.73	63.1	1019.8	9.1	0.76
26.94	74	1020	340.7	0.74
26.73	74.6	1022.2	11.9	0.8
26.9	70.6	1022.6	5.5	0.75
29.18	61.2	1021.4	33.1	0.78
30.76	53.1	1019.4	19.9	0.77
32.3	45.6	1018.8	41.3	0.75
31.65	56.9	1020.2	34.8	0.76
29.66	73.1	1022.4	326.4	0.75
29.41	72.1	1021.2	349	0.74
29.39	74.9	1019.6	357.3	0.74
29.18	76.2	1019.5	343.6	0.76
29.53	74.5	1020.5	335.6	0.76
28.82	72.5	1020.7	338.9	0.77
28.37	75	1020.2	353.9	0.67
30.14	70.8	1019.2	22.3	0.59
29.54	78.1	1020.4	325.2	0.67
30.44	72.1	1022	313.6	0.59
30.09	70.7	1021.6	353	0.65
30.05	72.5	1019.9	18.7	0.63
30.41	72.4	1018.6	25.1	0.57
30.15	72.3	1019.8	350.8	0.62
30.1	74	1020	22.9	0.54
30.32	74.5	1019.6	19	0.54
30.53	76.3	1019	19.6	0.57
31.19	66.6	1018.6	37	0.58
31.53	67.6	1019	22.6	0.54
31.26	70.3	1018.8	357.9	0.59
31.01	72.1	1019	311.3	0.61
30.45	55.9	1020.9	25	0.48
29.78	64.3	1020.7	45.2	0.44
30.81	65.7	1018.4	37.6	0.56
30.47	69.1	1017.1	2.8	0.59
30.1	69.8	1017.2	316	0.56
30.4	69.5	1017.6	1.1	0.5
30.85	72	1018.5	35.2	0.5

831

30.79	73.2	1019.1	33.9	0.59
31.16	67.6	1018.9	31.6	0.63
31.51	74.3	1017.1	30.1	0.6
32.41	69.6	1016	5.7	0.6
32.56	72.2	1016.3	283.2	0.61
31.3	75.5	1017	302.3	0.65
30.74	74.8	1017.1	300.4	0.6
30.77	70.7	1016.4	306.5	0.63
30.53	66.9	1016.5	314.6	0.58
30.48	67.5	1018	304.1	0.58
31.04	66	1020.2	312.7	0.69
31.1	67	1021.8	354.8	0.76
30.73	70.5	1019.6	29.6	0.61
30.7	70.9	1019.3	343	0.62
31.12	68.3	1020.3	353	0.55
31.07	65.1	1019.6	1.8	0.54
31.28	67.2	1019	350.9	0.58
31.03	66.4	1019.9	19.8	0.54
30.9	69.2	1019.1	7.3	0.54
31.14	69.5	1018.4	354	0.56
31.11	68.6	1018.4	341.3	0.56
30.89	69	1019.2	350.1	0.55
31	68.6	1020.2	358.3	0.59
31.19	71.4	1020.1	24.4	0.57
31.4	75.4	1019	45.6	0.64
31.88	72.5	1018.5	48.3	0.6
31.72	75.9	1018.6	38.4	0.61
31.77	76.8	1018.1	15	0.61
31.55	72.3	1018.2	354.3	0.59
31.65	73.7	1017.5	2	0.66
31.94	71.8	1018.6	351	0.6
31.89	71.1	1017.7	13.2	0.67
31.63	68.6	1016.9	331.8	0.63
31.95	70.9	1016.7	347.3	0.58
32.01	70.7	1016.4	11.2	0.54
32.04	71.7	1015.6	349.3	0.61
31.96	71.2	1015.5	336.3	0.6
32.03	69.6	1015.2	325.6	0.62
32.12	70.3	1016.8	313.9	0.59
32.26	71.3	1016.4	329.4	0.6
32.4	71.6	1016.6	319.1	0.59
32.19	71	1016.4	330.6	0.58
32.17	72.2	1015.5	347.7	0.6
32.33	72.9	1016	339.1	0.59
32.54	72.7	1015.8	334.4	0.57
32.87	73.5	1015.2	348.4	0.6
32.95	72.9	1014.1	315.8	0.61
31.89	73.4	1012.6	294	0.56
31.02	76.9	1010.4	200.1	0.6
29.57	78.1	1009.8	207.4	0.52
29.95	79.8	1011.4	231.6	0.56
29.62	84.1	1012.7	258.2	0.63

832

29.94	84.4	1014.3	250	0.51
30.75	80.6	1015.9	291.8	0.66
30.97	79.3	1015.2	287.9	0.64
29.61	83	1014.7	297.3	0.58
29.58	86.1	1014	303.2	0.66
30.85	80.4	1014.9	309.9	0.64
31.54	75.3	1014.6	326.8	0.63
31.53	74	1013.6	330.8	0.64
31.61	73.2	1012.7	347.1	0.63
29.9	79.4	1013.8	296.2	0.63
30.37	78.9	1014.9	243.8	0.6
30.25	81.3	1014.7	223.5	0.65
29.73	84.4	1013.3	227.1	0.76
27.67	92.8	1013.4	269.7	0.72
27.05	93.3	1013.7	265.4	0.7
27.35	94.5	1013.7	274.9	0.72
26.27	98.9	1012.6	351.6	0.71
26.04	99.6	1013.6	143.5	0.72
27.35	94.9	1013.8	232.9	0.75
27.8	95.3	1013.2	265.5	0.74
28.11	93.3	1011.3	263.1	0.73
28.18	91.3	1010.7	262.8	0.74
29.81	86.4	1011.8	263.5	0.73
28.34	92.3	1013.2	261.6	0.71
29.22	87.8	1012.4	272.6	0.73
27.42	94.9	1012.7	307.4	0.66
29.17	89.4	1014.9	302.1	0.62
29.58	87.2	1016.3	296.8	0.6
28.74	89.9	1017.4	310.1	0.6
29.46	86.8	1017	314.5	0.6
30.1	83.7	1015.6	311.5	0.6
29.24	87.1	1016.4	318.5	0.58
30.29	81.9	1016.2	316.1	0.61
30.53	80	1014.4	317.8	0.59
30.55	79.6	1012.5	317.7	0.61
29.59	85	1011.8	303.3	0.61
30.1	82.7	1010.3	111.3	0.65
29.88	84.5	1009.5	281.2	0.57
29.59	85.3	1010.1	262.4	0.54
27.08	97.7	1013.2	317.4	0.52
27.82	91.4	1010.8	303.9	1.46
28.12	93.8	1016.4	310.2	0.65
27.86	93.6	1016.4	320.9	0.63
29.24	86.6	1016.4	323.1	0.6
28.15	91.8	1015.5	340.4	0.62
27.01	95.9	1016.3	327.9	0.65
28.35	91.2	1017.7	319.4	0.66
29.13	87.7	1017	320.6	0.6
27.19	95.6	1015.8	321.6	0.6
26.8	98.7	1015.5	310.7	0.59
27.35	99.8	1015	334.4	0.57
28.36	92.4	856.7	314.1	1.23

833

28.66	91.4	630.5	262.4	0.07
29	90.5	634.4	270.7	0.08
29.3	89.1	627.7	254.2	0.11
29.27	89.5	624.8	236	0.14
29.77	86.1	649.3	236.2	0.21
29.81	86.1	677.5	242.5	0.17
30.02	86.1	683	270.5	0.06
28.84	86.8	822.3	276.1	0.28
29.46	87.8	1019	273.7	0.63
29.21	88.1	1019.8	287	0.62
29.59	86.1	1019.5	266.3	0.6
30.23	81.5	1019.5	247.9	0.59
29.97	83	1021.2	263.3	0.63
30.04	82.5	1022.3	274.5	0.66
30.51	79	1022.3	330.9	0.7
29.91	82.5	1020.8	9.7	0.69
29.75	82.3	1020	349.4	0.66
30.23	80.7	1019.7	339	0.65
30.26	79.9	1018.3	332	1.43
28.74	84.2	1018.4	332.7	0.7
29.75	79.7	1018.1	314.3	0.68
30.27	77	1017	315.1	0.76
29.97	81.5	1017.3	265.2	0.64
30.09	84.4	1017.7	265.6	0.65
29.25	88.9	1016.2	304.3	0.63
28.68	90.5	1014.8	326.1	0.61
27.89	92.1	1016.1	323.4	0.63
29.14	89	1017.5	309.3	0.65
27.14	98.9	1016.8	316.5	0.64
26.45	99.9	1015.4	337.7	0.7
27.54	99.6	1014.4	323.1	0.68
27.85	98.1	1015	307.6	0.66
27.79	97.1	1015.2	295.2	0.61
27.13	99.8	1016.8	307.5	0.59
27.61	99.8	1016.9	328.9	0.63
28.63	94.9	1017	314	0.64
28.06	92.4	1019.5	309.9	0.62
28.4	92.2	1021.1	319.7	0.62
27.8	95.8	1021.5	331.1	0.64
29.34	91.2	1021	344.6	0.65
27.69	90.9	1022	46.9	0.71
28.71	93	1020.9	2.5	0.66
28.87	91.1	1019.8	1.8	0.72
28.57	95.1	1020	47	0.81
28.13	92.5	1018.9	179.7	0.83
27.82	94.4	1018.5	220.4	0.57
29.36	82.7	1018.1	213.2	0.57
29.8	81.1	1019.8	226.4	0.59
30.16	82.2	1021.7	263	0.71
29.63	88.2	1021.1	21.7	0.81
28.38	94.5	1020.4	12.9	0.79
29.42	87.5	1021.6	220.5	0.66

834

28.41	87.1	1024.8	267.8	0.59
29.29	83	1024.3	244.4	0.61
29.91	81.7	1024.8	254.3	0.6
29.6	86.3	1024.5	270	0.67
30.21	81.7	1024.8	330.6	0.74
30.19	81.3	1025.3	8.9	0.76
30.36	82	1024.1	53.9	0.74
30.14	83.4	1024.1	53.9	0.73
30.12	78.2	1022.8	132.3	0.68
30.57	76.1	1023.3	206.6	0.77
31.26	77.4	1023.8	63	0.66
31.38	78.2	1022.8	29	0.68
30.22	76.1	1022.5	140.3	0.73
30.75	76.5	962.7	163.5	0.74
30.74	74	936.4	209	0.67
31.23	75.5	1022.9	185.5	0.73
31.69	72.2	989.2	159	0.71
32.52	70.7	969.2	114.9	0.62
33.02	58	959.4	165.8	0.63
33.07	54.4	1022.7	217.3	0.48
32.49	59.9	1022.6	323.5	0.5
30.36	69.6	1022.7	188	0.56
27.25	88.5	1024.4	154	0.83
26.6	91.1	1025.2	143.4	0.88
29.12	81.1	1022.7	140.6	0.76
28.52	87.4	1021.5	170.7	0.74
27.64	89.7	1020.1	191.6	0.71
28.57	87.2	1018.8	139.7	0.86
28.87	81	1017.3	136.1	0.86
28.86	79.7	1018.9	176.4	0.81
30.01	76.7	1022	210.4	0.73
30.47	71.6	1023	173.8	0.74
30.95	74.7	1023.4	52	0.69
32.16	70.8	1022.2	127.5	0.58
31.84	64.9	1021.3	159.6	0.63
30.75	73.1	1021	106.2	0.73
29.2	81.2	1023.7	237	0.73
29.9	78	1025.8	323.1	0.64
29.82	83.2	1026.2	15.5	0.68
30.63	79.1	1023.9	31.8	0.73
29.83	79.5	1021.7	24.6	0.7
29.78	78.7	1021.3	275.1	0.63
28.24	85	1022.8	307.8	0.63
28.81	83.1	1024	280.6	0.7
29.53	84.7	1024.1	82.2	0.75
30.2	77.9	1023.5	118.2	0.75
30.53	74	1023.9	80.2	0.67
30.69	71.2	1024.7	151.8	0.68
30.22	62.2	1025	141.9	0.66
29.9	64.5	1023.5	43.7	0.77
32.39	66.45	1024.33	25.5	0.9
31.46	68.3	1025.1	125.2	0.89

835

31	60.8	1025.1	116.7	0.92
30.1	64.4	1024.4	92.9	0.92
29.49	70.6	1023.6	19.7	0.92
30.31	69	1024.6	236.3	0.91
30.62	67	1025.7	150.6	0.87
30.45	68.7	1025.7	208.7	0.92
30.33	67.6	1025.1	181.7	0.92
30.08	67.7	1024.4	164.1	0.92
29.55	66.8	1023.6	272.6	0.82
29.69	65.2	1023.6	240.8	0.62
30.17	64.5	1024.2	247.5	0.67
30.38	67.2	1024.6	174.8	0.61
30.79	69.24	1023.77	1.16	0.73
30.26	72.1	1024	333.7	0.63
30.44	71	1024	304	0.59
30.71	66.1	1024.5	179	0.65
30.83	66.2	1025.3	217.1	0.55
30.27	73.7	1026.8	124.7	0.64
30.52	59.9	1026.2	133.6	0.61
29.54	56.8	1025.4	156.9	0.53
29.21	61.1	1025.8	153.6	0.63
29.67	66.5	1025.6	171.5	0.61
29.96	69.1	1024.6	118.1	0.68
29.15	72	1023.5	123.7	0.7
28.26	71	1023.3	26.2	0.66
27.78	70.9	1025.3	80.5	0.63
26.77	68.2	1027.4	61.6	0.69
26.58	70.8	1026	84.8	0.71
27.1	75.6	1025.7	41.2	0.72
28.25	71.3	1026.4	74	0.74
28.87	65.6	1027.1	116.4	0.72
28.8	64.8	1025.6	118.2	0.59
28.44	68.5	1024.7	125.1	0.7
28.4	68.2	1024.2	110.1	0.72
29.07	65.5	1023.6	104.1	0.8
29.47	70.1	1023.4	193.1	0.78
29.23	72.6	1024.8	109	0.68
28.96	74.9	1025.2	75.8	0.76
27.79	65.7	1025.2	29	0.7
26.91	68.9	1024.1	60.2	0.72
27.71	65.7	1023.3	95.9	0.7
27.91	66.5	1024	104.4	0.68
26.53	70.8	1024.1	64.2	0.6
25	59	1025.6	56.9	0.59
24.03	65.6	1026.4	105.6	0.73
25.08	71.3	1028.6	84.2	0.68
24.37	68.6	1027.8	58.8	0.67
23.54	64.4	1026	40.6	0.62
25.48	64.3	1024.8	96	0.72
27.64	62.9	1025.8	97.6	0.72
27.76	71	1025.3	156.3	0.7
27.06	69.2	1025.2	346.6	0.58

24.9	61.2	1025.8	90.9	0.82
26.43	58.7	1024.8	93.9	0.98
28.36	62.3	1025.8	92.1	0.94
28.08	69.3	1025.4	295.5	0.9
27.5	77.7	1024.6	54.9	0.92
25.88	71.8	1024.5	39.6	0.89
24.2	58.5	1025.1	37.1	0.9
22.46	61.7	1026.5	73.9	0.89
21.18	57.2	1026.6	68.2	0.92
23.51	61.4	1024.7	51.5	0.91
24.98	69.2	1024.6	37.1	0.89
26.55	69.3	1025	47.7	0.89
26.23	70.4	1026.3	350.3	0.87
27.1	64.4	1027.1	313.7	0.89
27.99	64.1	1026.1	66.7	0.89
28.47	62.2	1025.5	91	0.88
28.08	65.7	1025.4	82.6	0.9
27.64	69.3	1023.8	65.4	0.9
26.42	74.1	1024	22.9	0.86
26.04	70.9	1024.8	148.8	0.88
24.25	62.6	1027.7	49.3	0.87
23.5	58.4	1026.6	106.8	0.87
23.96	62.5	1024.6	30	0.86
24.55	66.8	1024	64.3	0.89
26.7	68	1025.6	122.9	0.87
25.79	77.2	1026.6	128	0.85
25.66	68.3	1025.3	65.6	0.85
25.08	56.8	1025.1	135.9	0.89
25.16	57	1025.1	27	0.86
23.74	54.5	1026.5	49.5	0.88
24.98	63.7	1026.2	90.3	0.88
27.05	56.2	1026.1	86	0.87
28.94	54.7	1024.5	107.2	0.88
29.63	58.5	1025.2	136.7	0.86
30.19	58	1026.7	123.6	0.85
29.86	57.9	1026.4	86	0.83
29.85	51.13	1025.21	90.62	0.84
29.86	40.89	1024.1	77.12	0.87
28.02	57.6	1024.8	194.9	0.84
29.77	60.6	1025.3	305.3	0.87
30.93	53.2	1024.7	128.6	0.86
29.9	61	1024	94.9	0.87
28.81	62	1023.6	77.8	0.87
27.89	68.2	1025.9	27	0.86
28.15	58.8	1026.6	35.7	0.86
28.67	58.5	1025.4	360	0.87
27.93	61.6	1023.1	358.9	0.86
29.45	44.6	1022.4	111.4	0.88
30.24	38.8	1023.2	191.2	0.88
29.98	42.3	1023.2	101.1	0.87
29	50.4	1022	86.3	0.9
28.2	62	1021.5	91.2	0.87

837

27.93	73.63	1022.66	57.97	0.87
27.33	77.13	1023.67	3.29	0.88
27.73	71	1024.3	22	0.88
27.29	68.2	1024.3	58.9	0.88
27.37	70.5	1022.9	8.3	0.73
28.23	63.7	1022.8	308.9	0.65
26.89	64.5	1024.8	53.9	0.65
26.36	62.5	1024.7	61.4	0.71
26.78	70.1	1023.7	63.1	0.7
27.48	70.6	1023.6	23.9	0.62
27.2	61.7	1024.4	31.3	0.59
26.53	61.7	1025.9	46.8	0.68
26.17	54.6	1026.6	63.5	0.65
27.37	49.8	1024.2	76.3	0.66
28.78	50.2	1022.3	37	0.77
30.65	46.4	1023.1	136.3	0.78
30.2	53.1	1023.9	139.1	0.77
29.88	57.4	1024.2	50.4	0.75
29.41	62.7	1024.3	27.8	0.7
28.58	69	1024.5	32.7	0.66
28.19	71.4	1024.4	14.3	0.69
28.81	74.4	1023.8	56.6	0.69
30.2	71.4	1022.5	45.8	0.66
30.35	71.2	1020.6	30.3	0.71
30.56	75.1	1020.4	279.5	0.71
30.59	75.7	1021.4	323.9	0.73
30.29	72.9	1023.6	32.1	0.66
30.4	59.9	1023.2	56.9	0.65
30.73	58.9	1021.6	56.4	0.6
30.11	64.7	1022.1	39	0.68
29.7	70.5	1023.1	53.5	0.67
29.67	72.7	1022.8	47.5	0.66
30.6	72.1	1020.9	45.3	0.63
30.63	73.5	1021.3	24.6	0.65
30.5	76.3	1021.9	55.5	0.64
30.36	78.6	1022.7	349	0.64
30.34	78.8	1024	297.9	0.61
29.69	78.2	1023.1	329.3	0.66
29.74	74.4	1024.3	338.1	0.61
29.71	74.3	1023.5	52.9	0.58
30.45	75.9	1022.8	30.1	0.57
31.37	74	1023.3	16.4	0.68
31.28	79	1022.6	306.2	0.63
31.42	78.7	1021.5	287.5	0.59
32.17	74.1	1021.2	347.5	0.59
31.87	75.5	1022.3	313.3	0.65
31.82	76.9	1021.7	300.5	0.6
31.77	77.2	1021	293.1	0.64
32.11	74.4	1021.6	341.6	0.57
32.65	73.1	1021.2	338.4	0.5
33.87	61.7	1020.2	41.4	0.53
32.05	68.9	1021.4	338.8	0.59

31.83	74.7	1021	14.6	0.6
31.94	75.3	1021.4	0.8	0.63
32.65	73.4	1020.9	21.2	0.6
32.04	70.8	1021.9	336.3	0.6
31.43	72.3	1022.2	21.7	0.55
31.68	71.1	1023.4	348.5	0.56
32.25	74	1021.8	45.3	0.5
32.45	75.5	1021.4	1.2	0.69
32.52	74.6	1022.5	326	0.59
32.49	73.7	1022.8	355.1	0.56
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32.49	71.9	1018.1	18	0.45
32.38	70.5	1017.8	24.4	0.62
32.08	71.1	1017.6	318.7	0.86
32.58	71.9	1019.2	355.7	0.89
32.79	72	1020.2	346.9	0.88
32.63	74.1	1020	8.8	0.86
32.47	76.6	1020.7	18.3	0.87
32.49	77.6	1020.9	29.2	0.84
32.69	76.4	1021.2	354.4	0.88
32.88	73.7	1020.9	340.3	0.88
33.08	72.1	1019.9	336.3	0.87
33.37	73.3	1019.4	328.1	0.85
33.63	73.2	1019.8	40.2	0.86
33.83	70.5	1019.8	102.3	0.86
31.29	79.3	1020.5	295.8	0.87
30.84	78.1	1017.4	118.4	0.86
27.54	89.5	1011.7	89.6	0.88
28.29	90.25	1017.67	228.57	0.87
32.23	69.16	1018.28	286.77	0.92
29.96	83.9	1018.5	269.1	0.88
31.06	75.4	1018	249.6	0.88
28.64	79.9	955.1	265.8	0.87
30.47	80	924.9	311	0.9
31.38	79.8	944.3	294.4	0.88
30.45	83.3	937.7	262.4	0.89
30.62	81	942.4	257.7	0.89

30.41	82.8	944.9	273.9	0.88
30.56	84.1	951.9	242.5	0.89
30.32	86.9	954.2	242.7	0.9
29.72	88.7	956.1	246	0.9
30.22	82	954.9	221.5	0.89
28.49	91.9	956.1	236.8	0.89
30.39	88.3	961.4	244.3	0.89
31.34	82.1	963.5	301.9	0.91
31.14	81.8	961.8	309.6	0.91
30.52	85.1	961.7	268.5	0.9
30.1	81.7	962.2	288.1	0.92
31.09	77.9	960.9	253.8	0.93
31.58	80.4	957.6	283.9	0.92
30.68	86.2	959.8	41.5	0.9
32	78.5	958.3	125.2	0.9
30.85	83.3	959.7	305	0.9
30.44	86.2	959.8	348.9	0.91
29.25	89.7	959.6	232	0.9
29.48	88.1	960.9	260	0.91
29.82	85.6	961.1	271.8	0.89
27.61	97.7	959.3	281.1	0.88
27.42	98.5	958	291.1	0.88
27.81	96.3	958	316.5	0.88
29.81	87.5	957.3	304.1	0.91
28.41	96.9	958.4	298.6	0.88
29.37	93.7	962.4	314.9	0.88
29.81	90.3	964.1	271.1	0.89
30.59	85.8	965.1	318	0.89
30.45	86.8	965.5	325	0.89
26.79	99.5	964.6	213.8	0.89
27.76	96.8	964.1	204.2	0.86
27.46	97	963.5	301	0.86
26.77	99.9	961.7	241	0.86
26.66	99.9	958.6	262.8	0.87
27.23	98.2	958.5	201.2	0.88
29.11	91.4	963.1	224.9	0.88
29.88	91	966.7	296.6	0.87
30.45	86.3	965.6	314.6	0.87
30.6	83.9	966.3	285.2	0.86
30.71	82.6	968.1	260.2	0.89
29.42	90.3	966.8	20.3	0.87
28.82	90.7	966.5	205.7	0.85
29.47	84.7	988.8	263.3	0.87
28.69	90.9	1019.4	183.8	0.86
27.36	98.1	1020.2	239.2	0.85
26.91	99.9	1019.2	183.9	0.87
28.41	94.5	1016.8	133.1	0.87
28.11	96	1016.3	226.2	0.85
29.57	89.2	1016.3	289.9	0.87
29.66	87.2	1015.6	207.3	0.76
30.1	84.2	1014.7	234.4	0.52
29.1	89.9	1012.5	279.4	0.54

840

27.3	97.5	1008.8	321.3	0.61
27	98.7	1006	320.3	0.6
26.79	99.2	1007.7	321.5	0.62
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29.06	92	1016.6	309.6	0.61
29.7	89.2	1016.1	320.1	0.63
29.4	90.8	1015.7	322	0.65
28.98	91.3	1017.4	316.1	0.67
27.5	98.4	1018.8	318.2	0.63
28.61	93	1016.9	312.9	0.66
26.91	99.2	1014.8	308.2	0.63
28.12	95.9	1014.3	310.1	0.65
28.6	94.5	1015.5	317.6	0.67
27.78	97.2	1015.2	327.3	0.64
27.8	95.7	1016.7	321.3	0.67
28.41	93.5	1016.3	314.1	0.64
27.52	98.5	1015.3	313.8	0.66
26.9	99.9	1016.4	308.9	0.63
27.81	97.9	1017.3	311.9	0.66
28.81	92.5	1017.9	308.4	0.67
28.88	91.3	1018.6	306.2	0.59
29.4	88.3	1020.9	302.9	0.61
29.16	88.5	1021.4	303.5	0.62
29.05	88.6	1020.1	320.3	0.6
26.74	98.8	1018.3	292.3	0.64
26.39	99.9	1017.6	320.3	0.63
26.53	99.6	1017.9	315.5	0.62
27.69	95.4	1020	295.8	0.61
28.1	94.5	1021.7	263.9	0.76
29.36	89.5	1021	23.7	0.71
30.21	86	1019.8	81.9	0.72
30.69	84.5	1018.6	68.2	0.76
30.94	87.5	1018.1	333.7	0.76
31.36	87.8	1017	9.3	0.79
29.66	88.1	1018.8	334.6	0.66
30.88	83	1019.1	29.2	0.7
31.18	85.6	1017.3	84	0.7
31.04	83	1015.9	311.5	0.68
30.31	86.9	1015.2	168.4	0.75
28.93	91.2	1016.5	209.4	0.68
28.96	90.2	1019	302.5	0.64
28.61	89.6	1018.9	236.2	0.71
28.73	90.1	1018.7	235.3	0.69
28.37	94.7	1018.9	354.4	0.72
27.95	95.2	1019.3	287.5	0.72
27.83	95.2	1018.5	215.8	0.74
28.2	96.8	1016	165.6	0.76
29.78	88.3	1014.3	356.9	0.74
29.25	93.5	1013.1	262.7	0.7
27.59	98.7	1013.2	204.2	0.67
26.61	99.9	1015.02	306.7	0.6
28.12	96.1	1019.45	230.8	0.78

841

28.8	92.47	1020.18	281.07	0.71
29.62	83.13	1019.98	317.41	0.62
29.53	83.97	1021.14	320.54	0.68
29.22	85.34	1021.37	345.83	0.65
29.56	83.09	1020.82	349.4	0.64
29.76	81.46	1020.01	28.87	0.56
29.95	80.17	1020.46	21.63	0.55
30.13	83.75	1020.47	349.76	0.61
30.63	85.38	1019.96	245.75	0.59
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29.93	82.51	1021.3	1.39	0.7
30.61	85.63	1020.31	6.18	0.74
31.75	77.97	1019.37	19.29	0.71
31.21	83.5	1019.18	227.2	0.63
29.87	86.89	1017.97	225.68	0.72
29.33	92.41	1015.96	249.64	0.77
30.45	90.6	1015	215.6	0.87
29.55	92	1015.5	207.6	0.88
27.98	97.8	1013.6	73.7	0.86
29.4	85.8	1013.9	171.4	0.87
30.19	75.4	1017.6	247.8	0.85
29.6	82.5	1020.1	199.8	0.85
29.45	88.4	1020	306.2	0.85
30.45	88.8	1019.3	10.3	0.86
30.75	87.8	1019.8	300.2	0.85
29.81	89.9	1019	157.2	0.86
29.91	85	1018.9	160.3	0.87
30.57	89.6	1020.7	246	0.87
30.7	85.4	1022.3	139.6	0.84
30.1	79.4	1023.1	133	0.87
30.47	68.9	1022.2	19.2	0.87
30.48	72.9	1022.5	185.2	0.83
30.1	75.6	1023	235	0.85
30.38	73.5	1022.9	153.1	0.86
29.76	68.2	1022.9	143.9	0.88
29.57	64.9	1023.9	133	0.86
30.57	70.6	1024.2	231.2	0.86
30.74	67.7	1024.2	164.6	0.85
30.6	64.8	1023.8	258	0.8
30.28	60.7	1024.1	168.4	0.86
30.08	52.8	1025.7	307.9	0.84
29.78	61.3	1026.3	21.4	0.85
30.63	57.1	1026	295.9	0.87
30.32	54.6	1025.6	267.3	0.83
29.15	55.5	1023.3	358.8	0.81
28.62	49.2	1023.9	268	0.81
28.42	49.2	1025.1	118.8	0.83
28.81	62.5	1023.9	358.6	0.84
30.01	67.5	1022.4	358.4	0.86
30.18	71.9	1022.6	57.5	0.82

30.68	68.4	1023.1	286.8	0.84
30.57	68.5	1021.8	1.7	0.85
30.27	70.4	1021.7	142.4	0.85
29.55	68.7	1021.9	3	0.86
29.08	63.6	1023.5	83.2	0.86
28.48	68.9	1024.2	31.4	0.88
28.25	72.7	1024.7	27.4	0.87
28.55	63.1	1025.1	33.7	0.86
27.92	63.8	1023.5	22.6	0.86
28.28	67.1	1022.7	36	0.88
28.49	65.7	1023.5	12	0.85
29.23	50.2	1025.1	168.9	0.87
29.1	54	1025.5	116.4	0.87
29.88	62.6	1025.3	192.2	0.89
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29.48	70.7	1024.3	60	0.89
29.05	60.5	1023.8	131.5	0.88
28.2	59.5	1023	164.9	0.87
28.1	60.5	1023.3	89	0.89
27.98	53.2	1024.2	181.4	0.89
28.57	52.1	1025.7	157.4	0.89
28.49	56.5	1025.7	153.7	0.89
29.27	59.4	1024.2	193.8	0.88
29.75	68.2	1023.5	314.7	0.89
27.38	77.7	1024.9	139.7	0.88
27.29	79.5	1024.1	45	0.89
26.69	76.7	1023.6	132.3	0.89
25.44	89.6	1024.5	124.3	0.9
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26.92	83.1	1026.1	50.6	0.9
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27.65	76.7	1026	133.9	0.91
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27.56	59.7	1026.8	19.7	0.9
27.33	56.1	1025.8	153.5	0.91
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27.85	65.7	1023	8	0.9
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27.2	71.1	1024.7	11.5	0.89
24.81	57.2	1024.7	42.8	0.91
23.97	63.4	1023.7	47.1	0.9
24.72	71.5	1023.7	9.4	0.89
27.01	69.2	1023.6	22.8	0.9
27.91	73.3	1023.7	35.6	0.89
26.85	78.2	1024.6	33.4	0.89
25.44	72.2	1023	27.9	0.89
25.63	69.7	1023	72.2	0.87
25.59	67.7	1024.2	36.8	0.89
25.42	68.1	1023.5	28.5	0.89

843

26.55	69.3	1021.4	42.7	0.88
27.02	82.3	1021	330.6	0.9
27.3	82.9	1021.8	26.8	0.89
28.61	79.4	1022.2	47.9	0.89
28.89	78.6	1023	15	0.88
29.14	75.3	1023.8	62.3	0.9
28.39	71.5	1023.4	43.6	0.88
27.18	70.2	1023.2	82.4	0.88
25.92	73.7	1022.3	42.9	0.87
25.61	67.1	1021.5	71.5	0.88
26.24	70.6	1022.1	62.4	0.88
26.91	71.2	1023.5	35.8	0.9
27.33	65.8	1023.5	9.2	0.89
27.16	62.7	1024.9	38.2	0.89
25.98	61.3	1024.6	24.9	0.89
25.74	70.5	1024	26.9	0.87
26.83	68.5	1023.9	12.8	0.89
25.93	71.1	1025.2	45.9	0.9
24.88	63.5	1025.7	50.4	0.88
24.41	69.1	1025.1	45	0.89
24.02	71.5	1024.8	41.2	0.89
24.07	72.4	1025.1	19.3	0.87
24.43	70.9	1025.9	358.3	0.9
25.82	63.8	1025.4	62.3	0.91
25.79	61.7	1025.4	58.6	0.89
27.58	62.6	1026.8	62.4	0.9
29.14	54.7	1026.8	129.4	0.87
28.1	57.6	1026.4	196.3	0.88
26.94	61.8	1026.1	93.1	0.87
26.65	60.5	1025.8	35.9	0.87
27.15	48.6	1025	136.7	0.88
28.8	40	1025.5	146.2	0.87
28.3	41.9	1026	174	0.88
27.71	47.5	1024.9	67.3	0.86
26.55	61.1	1023.8	13.2	0.88
26.9	65.5	1022.5	35.7	0.88
26.81	68.5	1023.4	59.3	0.86
26.86	62.7	1024.9	170.6	0.88
26.93	72.3	1025.2	20.4	0.88
26.37	73.3	1024.7	8.1	0.89
26.01	79.2	1024.1	42.4	0.87
26.2	75.4	1024.1	34.6	0.88
27.66	68.6	1023.9	66.9	0.88
27.96	58.6	1025.7	145.1	0.88
28.12	57.1	1025.8	154	0.89
29.64	47.5	1025.4	116.8	0.89
30.2	52.3	1025.6	96.7	0.89
29.87	56.1	1024.4	151	0.89
30.25	58.7	1023	111.9	0.88
29.56	58.2	1023.6	28.6	0.89
28.87	65.9	1022.9	31.3	0.88
28.79	66.8	1022	57	0.88

844

30	59.9	1021.7	48.3	0.89
30.15	58.5	1024.1	5.6	0.88
29.89	56.5	1025.1	93.9	0.88
29.75	50.9	1023.4	29.1	0.89
29.88	54.5	1023	306.4	0.9
29.91	65	1024.3	287.7	0.9
28.84	79.7	1024.9	326.6	0.88
29.35	66.4	1024.2	5.2	0.91
28.68	61.8	1023.7	23.1	0.91
30.27	60.9	1023.7	53.8	0.89
29.73	66.8	1023.7	341.9	0.9
28.86	74.2	1023.9	7.8	0.9
28.71	71.4	1024.7	14.5	0.91
30.87	57.5	1024.4	52.9	0.91
30.76	52.2	1022.4	25.7	0.91
30.94	54.4	1021.8	30.8	0.91
30.88	53.9	1022.3	41.1	0.91
31.13	57.4	1021.1	66.3	0.92
30.29	65	1021.4	210.9	0.9
29.62	67.5	1022.4	73.1	0.92
28.95	71.7	1021	23.6	0.9
29.47	72.8	1020.4	234.3	0.92
29.94	74.9	1022.2	105.5	0.91
30.79	58.2	1022.5	119	0.91
32.13	53.5	1022.3	126	0.9
32.96	43.6	1021.8	116.3	0.91
32.55	46.1	1020.8	29.2	0.9
33.56	38.1	1019.5	63.1	0.9
30.8	68.9	1019.5	245.5	0.89
30.57	79.7	1020	15.6	0.9
29.72	78.3	1020.5	45.5	0.89
29.38	77.9	1019.8	79.6	0.9
28.82	72.5	1020.7	338.9	0.77
28.37	75	1020.2	353.9	0.67
30.14	70.8	1019.2	22.3	0.59
29.54	78.1	1020.4	325.2	0.67
30.44	72.1	1022	313.6	0.59
30.09	70.7	1021.6	353	0.65
30.05	72.5	1019.8	18.7	0.63
30.41	72.4	1018.6	25.1	0.57
30.15	72.3	1019.8	350.8	0.62
30.1	74	1020	22.9	0.54
30.32	74.5	1019.6	19	0.54
30.53	76.3	1019	19.6	0.57
31.19	66.6	1018.6	37	0.58
31.53	67.6	1019	22.6	0.54
31.26	70.3	1018.8	357.9	0.59
31.01	72.1	1019	311.4	0.61
30.45	55.9	1020.9	25	0.48
29.78	64.3	1020.7	45.2	0.44
30.81	65.7	1018.4	37.6	0.56
30.47	69.1	1017.1	2.8	0.59

845

30.1	69.8	1017.2	316	0.56
30.4	69.5	1017.6	1.1	0.5
30.85	72	1018.5	35.2	0.5
30.79	73.2	1019.1	33.9	0.59
31.16	67.6	1018.9	31.6	0.63
31.51	74.3	1017.1	30.1	0.6
32.41	69.6	1016	5.7	0.6
32.56	72.2	1016.3	283.2	0.61
31.3	75.5	1017	302.3	0.65
30.74	74.8	1017.1	300.4	0.6
30.77	70.7	1016.4	306.5	0.63
30.53	66.9	1016.5	314.6	0.58
30.72	66.8	1018	303.8	0.57
31.04	66	1020.2	312.7	0.69
31.1	67	1021.8	354.8	0.76
30.73	70.5	1019.6	29.6	0.61
30.77	70.6	1019.5	340.1	0.64
31.12	68.3	1020.3	353	0.55
31.07	65.1	1019.6	1.8	0.54
31.28	67.2	1019	350.9	0.58
31.04	66.4	1019.9	19.8	0.54
30.9	69.2	1019.1	7.3	0.54
31.14	69.5	1018.4	354	0.56
31.11	68.6	1018.4	341.3	0.56
30.89	69	1019.2	350.1	0.55
31	68.6	1020.2	358.3	0.59
31.19	71.4	1020.1	24.4	0.57
31.4	75.4	1019	45.6	0.64
31.88	72.5	1018.5	48.3	0.6
31.72	75.9	1018.6	38.4	0.61
31.77	76.8	1018.1	15	0.61
31.55	72.3	1018.2	354.3	0.59
31.65	73.7	1017.5	2	0.66
31.94	71.8	1018.6	351	0.6
31.89	71.1	1017.7	13.2	0.67
31.63	68.6	1016.9	331.8	0.63
31.95	70.9	1016.7	347.3	0.58
32.01	70.7	1016.4	11.2	0.54
32.04	71.7	1015.6	349.3	0.61
31.96	71.2	1015.5	336.3	0.6
32.03	69.6	1015.2	325.6	0.62
32.12	70.3	1016.8	313.9	0.59
32.26	71.3	1016.4	329.4	0.6
32.4	71.6	1016.6	319.1	0.59
32.19	71.1	1016.4	330.6	0.58
32.17	72.2	1015.5	347.7	0.6
32.33	72.9	1016	339.1	0.59
32.54	72.7	1015.8	334.4	0.57
32.87	73.5	1015.2	348.4	0.6
32.95	72.9	1014.1	315.8	0.61
31.89	73.4	1012.6	294	0.56
31.02	76.9	1010.4	200.1	0.6

846

29.57	78.1	1009.8	207.4	0.52
29.88	80.1	1011.4	232.1	0.56
29.62	84.1	1012.7	258.2	0.63
29.94	84.4	1014.3	250	0.51
30.77	80.5	1015.9	291.5	0.66
30.97	79.3	1015.2	287.9	0.64
28.35	93.4	1014.5	177.8	0.72
27.19	90	1016.9	178.3	0.6
27.65	88.2	1018.2	179	0.72
28.69	86.5	1019.1	163.6	0.73
28.29	82.3	1019	191.7	1.1
28.37	79.7	1018.4	187.5	0.67
29.11	81.9	1018.9	208.8	0.71
28.75	87.7	1018.2	53.7	0.53
27.57	86.5	1018.2	156.4	0.6
28.76	93.2	1020.6	355.5	0.9
27.78	89	1019.7	167.3	0.64
48.14	86	1019	15.9	0.91
56.29	87.6	1018.9	17.1	0.92
28.75	80.6	1016.9	16.5	0.61
28.69	81.1	1017.3	16.5	0.91
3.73	77.9	1018.3	16.3	0.91
1.6	80.3	1019.1	16.3	0.91
11.24	79	1018.4	16.1	0.91
29.3	80.5	1017.6	226.1	0.55
28.96	79.3	1017.9	226.1	0.48
29.1	92.5	1017.5	189.5	0.55
29.03	93	1016.4	53.1	0.97
27.61	95.6	1015.4	156	0.58
27.55	94.5	1014.7	177.7	0.68
27.3	95.5	1012.5	35.4	0.98
28.39	99.4	1018	36.9	1.25
26.31	99.1	1015.2	26.4	0.96
20.98	96.7	1013.7	26	0.95
20.31	98.3	1015.8	25.9	0.94
45.94	98.8	1018.8	28	1.04
26.75	98.4	1016.9	26.2	0.94
22.45	99.6	1016.9	26.8	0.97
26.57	94.3	1019.1	27.7	1.02
26.66	97.7	1017.1	25.9	0.93
26.47	97.1	1013.4	24.9	0.9
26.75	98	1012.8	24.6	0.88
26.75	91.5	1015.1	25.2	0.91
26.75	92.4	1015.7	25.1	0.9
55	84.13	1016.54	25.06	0.91
57.9	85.3	1016.4	25.3	0.91
57.9	86.7	1016.6	25	0.9
57.65	87.2	1017.8	24.9	0.9
47.03	88.2	1019.1	24.8	0.9
44.54	86.4	1019.8	24.7	0.9
56.25	86.8	1018.6	25	0.9
26.92	88.2	1019.3	214.6	0.64

847

26.63	93.1	1019.6	223	0.56
27.21	89.2	1019.9	203.6	0.44
27.23	87.7	1017.3	194.9	0.53
27.76	86.3	1016.5	199.1	1.09
28.93	82.7	1005.5	235.8	1.55
28.18	82.1	1006.6	223	0.88
26.96	83.2	1018.8	192.9	0.52
27.9	82.3	1019.3	221.2	0.48
28.46	84.7	1029.5	223.5	0.88
27.68	88.5	997.2	180.3	0.93
27.76	87.1	929.3	100.8	0.84
26.22	87.1	929	218.7	1.24
25.75	90.3	931.3	199.5	0.89
25.86	89.3	929.6	188.7	0.82
25.91	88.4	929.1	196.5	0.93
24.29	78.9	927.7	200.1	0.86
24.36	87.8	927.5	212.9	0.74
24.31	95.3	1005.7	194.3	0.95
24.51	94.5	1007.1	218.7	1.09
25.56	90.3	1007.6	168.5	0.94
27.03	86.7	1007.4	185.1	1.35
25.82	87.2	929	182.4	0.57
26.42	88.7	929.5	193.5	0.78
27.02	84.1	1004.7	202.4	0.95
27.35	84.8	1004	195.4	0.97
28.4	78.6	1003.1	214.2	1.01
28.1	79.8	1002.9	220.1	0.87
26.44	85.4	955.5	202	0.72
25.05	77.5	954.5	180.1	0.55
25.94	82.5	956.7	186.2	0.76
26.56	84.2	941	193.8	0.74
26.02	88.7	926	194.8	0.4
25.42	78.4	926.7	170.7	0.64
26.48	65.7	928.3	203	0.67
26.43	86.2	927.4	184.5	0.82
26.32	91.2	925	180.1	0.57
26.34	86.4	924	178.4	0.76
26.62	89.7	1005.5	232.2	1.73
27.3	89.7	935.4	192.4	0.87
26.01	93.2	1003.5	221.6	1.9
25.48	97	1001.2	213.7	1.26
24.29	97.2	999.8	240.7	1.32
25.39	90.2	1001.1	243.4	1.11
25.64	88.5	1002.4	215.7	0.66
26.09	82.3	1003.8	210.5	0.68
27.4	86.4	1003.2	218.6	1.66
25.36	93.1	1002.2	194.4	1.24
27.18	87.6	1002.9	217.5	1.62
25.47	94.6	1003.2	38.9	1.02
27.15	88.9	1002.5	214.2	1.55
26.76	90.4	1003.1	217.1	1.28
27.06	88.9	927.1	214.4	1.47

848

27.99	86.6	1006.5	120.1	1.95
27.64	86.6	928.6	70.2	1.3
25.47	89.7	928.8	145.5	1.43
26.55	87.8	1004.7	212.2	1.34
24.76	97.2	1001.6	192.1	1.2
26.09	92.9	1003.6	222.3	1.99
26.69	91.4	1003.7	210.1	1.86
28.11	84.9	1005.7	235.7	1.27
30.06	83.6	1007.7	78.7	1.73
30.27	80.8	1007.2	145.3	1.72
28.06	81.7	1006.5	113.2	2.13
28.55	83.7	1006.1	22.2	0.88
29.91	78.3	997.9	190.4	1.08
27.49	81	1005.9	144.2	1.74
30.06	83.6	1007.7	78.7	1.71
27.28	81.5	1007.7	186.6	1.44
26.19	85.2	1007.9	333.5	1.65
28.01	88.5	1006.4	246	1.82
27.98	85.5	1006	180.9	0.97
27.92	87.1	1005.3	191.1	1.19
28.14	84.6	1006.3	187.2	1.49
27.86	84.1	1007.8	174.1	1.4
27.81	82.2	1007.9	168	1.37
27.41	86.5	1006.3	183.3	1.17
27.29	88	1005.5	188.8	1.05
28.68	80.7	1005.3	207.3	0.96
29.5	83.2	1004.8	217.4	1
29.81	72.9	1002.7	195.8	0.99
28.6	65.9	1002.2	203.3	1.2
28.49	74	1003.1	221.2	0.9
28.93	75.5	1006.3	236.1	1.04
28.3	75.8	1010	222.1	0.9
27.62	76.6	1012.2	201.2	1.22
28.23	74.5	1012.1	207.8	1.19
28.78	77.9	1008.4	233.4	1.18
26.19	77.6	1012.1	216.7	1.94
26.7	76.8	1010.3	226.6	1.92
27.8	64.6	1010.5	325.3	1.93
28.01	88.5	1006.4	246	1.85
29.76	66.4	1009.2	23.6	0.7
29.79	63.4	1009.4	141.4	0.63
27.03	60	1008.4	30.2	1.38
27.9	67.8	1008.9	336.9	1.3
28.53	68.4	1007.6	251.9	0.94
27.31	63	1011.8	275.2	1.29
26.64	63.1	1007.9	113	1.96
26.28	55.5	1008.8	76.6	2.08
26.24	47.4	1008.3	77.5	2.63
26.25	42.8	1006.7	69.6	2.52
26.31	41.8	1006.2	87.4	2.28
27.15	51.9	1006.1	79.7	2.23
27.78	63.5	1005.6	107.9	1.86

849

57.54	74.5	930.2	24.6	0.89
28.01	88.5	1006.4	246	1.82
27.3	89.7	935.4	192.4	0.87
29.91	78.3	997.9	190.4	1.08
27.29	88	1005.5	188.8	1.05
27.62	71.6	1012.2	201.2	1.19
31.77	76.8	1018.1	15	0.61
31.55	72.3	1018.2	354.3	0.59
31.65	73.7	1017.5	2	0.66
27.99	83.9	1007.2	65.5	1.46
28.3	75.8	1010	222.1	0.9
28.29	79.6	1008.5	89.3	0.69
28.01	88.5	1006.4	246	1.82
27.62	89.4	934.7	192.1	0.86
27.7	89.7	935.4	192.4	0.87
29.02	79.3	1007.9	251.3	0.66
25.81	62.1	949.8	111.3	0.55
24.87	59.1	949	106.4	0.63
23.48	52.6	948.5	104.8	0.69
22.69	53.4	947.6	116	0.69
22.51	53	948	115	0.73
21.82	50.4	949.3	113.2	0.8
21.91	54.8	950.6	125.6	0.77
23.66	51.6	950.4	121.7	0.78
24.74	55.8	949.1	124.8	0.81
26.66	52.4	948.6	126.8	0.77
24.3	64	948.9	127.4	0.75
25.49	54.9	947.7	123.3	0.8
24.26	59	947.1	120.2	0.8
21.81	74.7	947.5	135.2	0.75
24.69	64.2	948.7	135	0.72
24.4	60.7	949.8	140.7	0.75
23.7	61.2	950.2	143.5	0.82
23.28	59.7	950.1	145.1	0.79
22.34	57.9	950.6	146.4	0.81
22.31	48.6	951.2	186.5	0.82
21.22	45.2	950	121.1	0.71
19.28	52.8	949	173.3	0.78
20.47	52.2	947.6	207.8	0.68
21.09	55	946.9	207.1	0.68
22.24	56.5	947.8	180.7	0.68
23.02	56	949	138.6	0.75
23.95	56.7	948.4	134.5	0.8
23.62	58.1	947.5	164.8	0.78
23.35	55.7	947.1	175.7	0.77
23.03	57.1	947.6	167.5	0.88
23.2	58.4	948.1	143.9	0.84

850

SR	RF	Benzene	Toulene	EthylBenzene
W/M2	mm	µg/m3	µg/m3	µg/m3
93	0	1.61	173.49	8.92
104.3	0	2.84	132.22	5.11
90.6	0	2.2	112.05	21.3
107.4	0	1.95	232.91	11.62
110.7	0	2.1	180.11	9.08
120.8	0	2.81	79.14	9.23
92.9	0	3.77	82.5	17.44
117.7	0	1.48	67.13	5.8
119.4	0	2.86	56.14	6.03
67.9	0	2.64	52.01	3.88
104.7	0	1.78	49.57	4.33
115.6	0	2.35	64.59	4.31
117.3	0	3	81.57	7.82
113.6	0	3.3	99.53	12.09
122.6	0	5.84	61.02	19.33
118.4	0	4.26	-113.78	13.87
121	0	1.84	14.84	12.91
119	0	2.63	13.79	20.16
116	0	2.79	54.33	18.68
116.5	0	1.96	112.86	6.13
113.2	0	3.83	64.21	20.75
117.2	0	4.51	20.35	28.59
118.3	0	4.48	28.01	41.88
114	0	5.4	12.65	64.92
108.9	0	4.57	4.2	37.47
110.7	0	2.75	3.39	9.61
109.9	0	1.72	4.73	6.72
112.8	0	1.88	57.48	6.57
109.7	0	1.59	155.16	4.01
109.2	0	2.61	111.88	7.2
114	0	1.28	187.88	5.15
120.5	0	5.91	30.5	0.33
127.1	0	3.5	37.23	0.63
131.9	0	4.68	24.74	1.29
118.2	0	3.94	8.83	1.96
114.1	0	0.52	7.9	0.29
110.6	0	0.58	8.61	0.28
97.4	0	3.89	31.63	1.16
106	0	6.31	25.07	1.88
103.3	0	5.34	19.72	1.98
105.8	0	5.17	16.56	1.82
113.2	0	6.95	30.07	9.45
94.4	0	5.81	36.16	3.31
108	0	6	103.14	14.42
108.4	0	3.49	141.22	6.29
105.6	0	1.95	160.62	3.08
108	0	1.77	166.07	22.07
113.9	0	1.37	137.89	3.27

851

110.6	0	1.92	102.09	1.46
97	0	1.49	100.99	2.03
105.5	0	1.94	95.93	2.89
113.2	0	1.69	105.91	2.2
118.5	0	1.37	94.04	1.96
142.2	0	1.39	91.6	1.9
108.9	0.5	1.56	73	1.36
115.2	202.5	2.57	75.73	2.94
111.1	0	55.94	207.55	69.84
120.6	0	48.32	231.73	70.44
137.6	0	3.24	132.73	50.57
134.5	0	4.25	154.38	98.49
129.6	0	2.95	131.23	39.14
133.5	0	1.3	63.06	3.56
132.5	0	1.18	63.56	2.28
131.4	0	1.11	53.06	1.43
128.3	0	1.4	57.38	1.3
130.1	0	1.95	59.16	1.37
135.5	0	1.15	64.17	1.67
142.8	0	1.11	58.44	1.4
113	0	1.31	49.03	1.04
123.2	0	1.62	48.15	0.74
117.3	20	1.7	43.33	0.66
124.4	2.1	4.98	55.75	1.98
115.2	0	6.09	54.66	2.8
91.5	4	4.79	55.37	3.14
137.6	0	2.6	44.49	1.47
130.1	0	2.74	48.57	1.5
109.6	0	1.33	41.88	0.54
117.8	1	0.92	45.74	1.36
104.6	19	2.03	44.09	2.34
94.8	0	1.27	47.42	2.01
102.1	0	0.52	42.6	1.78
127.9	0	1	34.54	2.3
113.2	4	0.56	33.32	1.46
85.5	16	1.52	34.25	0.7
64.1	34.5	2.33	39.9	1.13
67.7	5.5	2.62	52.52	1.44
108.6	0	2.16	31.33	1.01
57.8	23	2.55	37.42	1.21
74.4	10.1	3.66	42.43	1.76
68.2	12.5	2.54	31.19	1.73
68.4	25.5	2.49	32.12	1.85
100.4	14	1.89	28.02	2.19
60.1	26.5	2.21	25.7	2.18
75.3	95.5	0.95	43.59	1.15
25.5	245.5	0.13	53.01	0.6
89.8	14.5	0.31	51.52	0.83
104.2	10	0.92	61.31	4.75
73	20	1.35	46.68	3.14
34	47.5	1.05	56	1.34
38.8	85.5	4.33	48.72	3.02

852

15.4	280.5	0.64	54.91	2.19
29	88.5	0.16	42.91	1.21
34	46.5	0.23	45.6	0.83
20.7	99	0.55	69.76	0.69
57.5	18	0.54	83.97	1.13
33.5	6	0.63	88.08	1.23
65.3	2.5	0.61	86.75	1.55
39.4	2	0.53	91.01	1.72
31.3	1	0.3	98.42	2.07
42.3	2	0.34	96.13	1.48
68.6	0.5	0.37	98.82	2.56
73.7	7.5	0.59	89.89	3.26
74	4	0.26	79.28	2.83
73.7	2	0.4	66.46	1.79
62.3	5.5	0.18	38.47	1.03
70	1.5	0.12	37.77	1.03
76.4	0.5	0.06	45.8	1.92
74.6	0	0.08	52.02	2.15
70.9	2.5	0.19	50.25	2.37
71.5	1	0.67	65.45	3.01
61.4	0	0.69	43.76	2.56
64.6	5	0.02	39.12	1.51
77	0	1.24	30.8	1.22
81.2	0	1.3	30.56	1.58
89.3	0	1.82	25.64	2.06
58.5	0	1.16	23.5	1.63
44.5	0	1.15	27.45	1.45
26.1	123.5	1.27	39.45	0.71
15.3	25.5	4.1	61.23	2.01
29.3	84.5	4.59	56.52	1.59
45	77	4.09	60.08	3.53
55.9	1.5	3.04	47.77	3.73
31.4	29.5	3.28	48.56	3.13
35.9	21	3.64	62.5	2.68
17.2	115.5	2.46	60.75	1.74
19.7	26.5	1.04	47.74	0.82
33.7	13.5	0.98	42.61	0.65
44.8	31	1.16	48.27	1.1
7.5	92	1.55	60.96	1.1
17	3.5	1	61.62	0.98
35.4	2.5	0.88	50.09	0.68
75.1	0.5	0.74	57.69	2.2
55	0	1.3	67.73	2.59
39	2.5	1.36	61.86	1.51
49.3	1	1.17	52.4	1.08
34.8	6.5	1.12	51.81	0.89
41.3	0.5	1.32	64.75	1.04
57.2	0.5	0.98	68.21	1.45
44.5	0	0.72	66.57	1.57
45.4	6.5	1.05	66.58	1.35
22.2	27.5	1.09	77.97	1.4
82	2	0.93	66.93	4.08

853

82.9	0.5	0.93	69.97	7.36
69.2	21.5	1.79	46.72	3.65
79.7	14	2.19	15.15	1.02
49.5	0.5	3.57	17.89	1.03
46.5	1.5	3.61	19.35	3.42
27.4	0	2.63	21.69	1.01
44.4	53	1.66	17.57	0.69
35.6	17	0.92	15.84	0.6
16.1	51.5	1.6	17.73	1.02
39.8	29.5	1.46	15.02	1.37
31.2	22.5	1.08	46.78	1.35
30.1	8	0.8	65.29	2.29
60.1	14	2	74.81	7.73
56.3	3	3.26	57.88	6.19
60.2	22	3.67	62.05	5.04
42.5	17	1.25	59.29	3.21
57.3	4	1.63	47.51	2.68
32.5	13	2.02	52.76	3.17
73.3	0	1.91	41.34	4.43
71.9	0	4.28	75.58	17.08
57.8	0.5	3.74	68.06	16.4
52.3	0.5	4.83	64.85	13.04
74.6	0	3.28	67.92	15.54
74.7	0	7.55	56.2	17.85
81.5	0	3.61	58.31	17.87
62.7	0	1.9	55	11.84
71.5	0	2.38	58.92	19.67
68.1	0	3.58	77.9	20.95
24.2	35.5	2.84	72.63	12.04
40.5	14	2.73	71.96	11.08
45.6	62.5	1.92	70.17	9.54
27.6	43.5	5.45	79.18	7.94
25.7	22	5.07	79.75	7.14
49.8	5.5	4.04	83.37	8.33
48.4	19	3.58	66.37	5.58
33.5	8	1.74	17.29	1.08
24.3	65	2.04	30.85	1.29
48.9	0	5.15	77.32	2.5
19	11.5	3.52	83.77	3.44
65.4	8.5	3.29	105.85	7.74
67.2	0	1.97	80.17	6.27
69.1	0	2.07	84.72	6
57.7	0	2.34	92.79	6.72
60.7	0	2.63	69.13	4.62
66.8	0	0.91	32.59	3.16
59.4	0	1.65	29.52	2.79
54.3	0	1.96	58.16	4.45
54.6	0	3.75	78.84	7.6
31.1	0	1.78	64.63	5.23
17.9	0	5.49	87.75	5.63
46.3	0	2.06	92.53	6.7
54	0	3.58	82.72	7.3

854

50.2	0	8.41	102.01	9.99
45.2	0	10.99	51.18	5.42
57	0	3.25	107.59	12.4
54.6	0	3.6	81.4	12.05
50.3	0	5.46	63.19	9.25
50.1	0	7	151.24	13.57
50.9	0	4.47	75.78	9.85
49.3	0	3.83	126.86	13.25
47.2	0	2.99	59.19	7.43
44.2	0	5.25	60.79	7.61
44.1	0	3.08	74.4	9.33
48.1	0	4.39	95.52	10.28
48.8	0	3.33	73.16	8.18
48.8	0	3.76	86.97	11.17
55.1	0	6.15	130.01	15.82
54.2	0	8.98	100.04	11.92
53.2	0	3.98	100.72	14.72
33.5	0	3.88	83.67	12.88
45.2	0	9.21	104.55	15.6
31.6	0	4.3	74.08	7.95
26.8	6.5	3.65	49.6	3.5
48	0	4.85	69.47	5.71
41.4	0	5.57	78.21	7.72
46.2	0	6.36	87.03	8.52
46.4	0	5.2	69.01	7.67
45	0	4.53	51.37	5.18
43.2	0	1.14	16.09	1.05
39.3	0	2.93	30.07	2.33
38.9	0	10.2	62.3	5.55
41.2	0	3.36	32.76	2.17
40.4	0	4.28	34.75	2.45
38.7	0	7.24	37.42	3.2
38	0	9.04	44.01	4.17
39.7	0	6.41	45.53	4.1
39.7	0	7.29	41.58	3.09
40.3	0	6.73	41.34	3.61
42.3	0	5.67	26.73	2.27
42.2	0	2.58	15.02	1.51
40.8	0	3.1	15.04	1.74
44	0	4.21	24.67	3.35
42.7	0	5.63	15.54	2.17
45.4	0	3.79	21.7	2.73
46.8	0	5.62	31.76	3.89
46.7	0	5.65	24.8	3.13
46.6	0	6.22	28.8	2.54
45.9	0	10.24	39.31	4.11
75	0	8.97	52.28	5.69
197.8	0	5.55	38.41	4.94
155.2	0	8.02	43	7.1
132.1	0	7.99	48.1	6.17
111.7	0	8.33	113.22	16.54
152	0	7.04	137.07	12.36

855

164.4	0	7.52	103.14	9.04
147.2	0	5.13	93.53	6.81
128.2	0	8.46	105.94	8.08
113.4	0	7.6	98.25	7.55
126.5	0	6.39	94.02	7.15
164	0	6.62	85.66	8.04
149.1	0	6.11	71.02	8.29
147.4	0	4.74	80.02	8.22
147.2	0	6.13	76.57	7.88
146.6	0	6.29	95.11	6.26
133.6	0	4.91	54.13	2.97
140.1	0	4.09	44.16	2.75
133	0	4.18	50.63	2.47
133.6	0	5.55	90.36	6.12
143.9	0	5.96	69.7	5.55
152.4	0	3.85	45.6	3.96
143	0	3.77	52.85	4.22
117.1	0	3.96	51.58	5.01
133.5	0	4.19	59.94	5.07
134.1	0	4.58	53.88	5.14
144.2	0	7.2	72.65	8.85
140.7	0	8.04	47.56	6.45
133.8	0	5.97	56.25	5.87
141.8	0	2.97	29.3	2.46
144.8	0	5.13	29.23	3.53
154.3	0	3.99	24.04	2.34
151.7	0	4.54	24.01	1.7
136.1	0	4.55	21.89	1.26
139.7	0	7.07	24.42	1.45
150.2	0	5.44	39.39	2.06
154.4	0	3.73	26.05	1.13
135.2	0	6.98	36.86	4.54
133.7	0	11.32	64.49	7.37
137.2	0	11.18	79.26	8.8
138.7	0	9.66	64.8	7.57
129.4	0	9.36	60.85	5.91
103.7	0	7.77	58.11	5.5
120.5	0	7.32	54.42	5.5
113.4	0	9.74	54.77	5.07
118.5	0	4.71	31.88	2.16
129.6	0	5.55	49.72	4.77
136.4	0	10.66	90.06	10.3
133.6	0	9.98	52.55	6.59
136.2	0	8.52	50.83	5.93
142.2	0	8.33	46.94	5.92
140.4	0	10.08	58.04	5.19
153.6	0	8.57	37.79	16.51
162.7	0	2.72	24.27	1.72
164.2	0	2.87	13.4	0.63
149.8	0	3.37	17.02	1.04
141.3	0	3.66	19.08	1.49
150.7	0	3.38	28.21	1.63

856

142.4	0	1.83	8.47	0.4
156.7	0	1.63	7.2	0.31
167.7	0	0.99	6.45	0.41
159.9	0	1.21	4.51	0.15
157.1	0	1.69	9.83	0.65
153.3	0	2.81	14.17	1.52
142	0	1.96	11.22	0.93
176.3	0	3.77	22.27	1.26
166.4	4.5	6.74	35.37	2.66
171.8	0	11.86	65.72	6.46
144.5	0	9.56	48.04	1.45
180.3	0	3.72	20.24	0.29
195.1	0	6.38	37.91	0.58
189.3	0	6.23	42.27	1.39
186	0	4.45	27.78	0
202.7	0	4.14	40.52	0.06
188.7	0	5.18	39.9	0.27
182.3	0	5.65	55.56	0.51
182.6	0	8.06	51.41	1.49
178.5	0	8.32	60	2.31
168	0	13.95	62.71	2.48
167.2	0	14.23	58.42	2.98
185.9	0	7.27	55.41	2.91
174.5	0	7.72	52.62	2.87
199.1	0	5.47	29.97	1.32
168.3	0	4.07	15.22	0.31
161.7	0	5	26.09	1.08
167.2	0	6.05	21.07	0.86
179.5	0	6.59	34.63	1.71
184.7	0	5.56	29.67	2.02
193.3	0	1.01	12.46	0.1
179.2	0	2.96	12.09	0.06
193.6	0	5.11	14.81	0.16
188.5	0	6.15	37.48	1.87
177.4	0	7.9	44.6	2.54
178.3	0	8.33	43.29	2.85
173	0	7.19	31.55	2.01
173.6	0	5.77	25.47	1.22
172.7	0	5.9	28.75	1.56
178.2	0	2.51	12.05	0.14
173.5	0	3.25	25.93	0.7
164.7	0	2.51	17.87	0.65
157.5	0	2.33	18.17	0.63
150.7	0	4.2	19.08	0.56
149.6	0	5.23	30.52	1.51
144.4	0	10.05	37.19	2.37
124.5	0	4.45	25.77	0.92
143.8	0	2.28	23.8	0.58
143.1	0	1.51	26.56	1.02
178.4	0	1.56	27.32	1.14
174.9	0	3.12	28.24	1.83
168.7	0	1.45	25.42	1.44

857

177.1	0	2.42	36.83	3.14
139.1	0	1.23	25.87	1.36
177	0	0.47	30.07	0.99
179.8	0	0.11	24.11	0.84
197	0	0.12	21.32	1.02
175.7	0	2.62	39.35	3.14
164.5	0	3.28	42.76	3.24
164.3	0	1.5	32.2	4.07
178.5	0	0.68	24.09	1.82
173.3	0	2.36	19.39	1.91
174	0	0.62	21.65	1.97
164.4	0	0.1	14.75	1.24
179.1	0	0.62	13.17	1.02
180.5	0	0.36	5.24	0.79
200.1	0	0.25	5.59	0.9
209.1	0	0.1	4.22	1.03
179.7	0	0.69	4.91	0.89
193.1	0	0.76	7.62	1.22
199.5	0	0.28	8.72	1.21
171.1	0	0.1	7.01	0.99
189.7	0	0.1	7.66	0.97
195.5	0	0.1	6.99	0.87
165.8	0	0.37	5.97	0.79
181.7	0	0.95	8.44	0.96
183.9	0	0.75	6.26	0.93
168.1	0	0.52	6.18	0.78
178.1	0	1.18	4.16	0.6
186	0	0.37	6.08	1.18
175.3	0	0.16	6.61	1.15
182.8	0	0.36	5.25	0.99
190.2	0	0.14	4.26	1.06
169.3	0	0.1	4.22	0.85
186.2	0	0.1	5.29	1.1
184.8	0	0.1	3.85	0.8
192.3	0	0.3	3.73	1.16
182.1	0	0.15	4.43	1.04
179.6	0	0.51	4.05	1.19
172.3	0	0.18	3.12	0.81
172.4	0	0.35	3.02	1.1
176.1	0	0.38	3.87	0.52
169.6	0	0.23	3.89	0.29
165.5	0	0.1	2.96	0.46
173.8	0	0.1	4.11	0.74
165.3	0	0.1	3.01	0.43
174.1	0	0.14	3.37	0.46
170.6	0	0.2	3.26	0.48
163.1	0	0.1	4.6	1.09
188.2	0	0.38	4.18	1.19
181.1	0	0.17	2.79	0.67
182.8	0	0.1	4.11	1.29
187.9	0	0.1	2.79	0.95
158.4	0	0.1	2.18	0.51

858

178.6	0	0.56	1.76	0.35
171.5	0	0.42	2.2	0.45
181.6	0	0.62	2.75	0.69
184.2	0	1.24	3.67	0.71
177.8	0	1.69	3.66	0.7
187.9	0	0.8	2.69	0.65
190.8	0	0.91	2.2	0.58
200.5	0	0.49	2.08	0.46
207.1	0	0.71	2.43	0.54
216	0	0.14	2	0.48
199.7	0	0.1	2.08	0.68
191.4	0	0.1	2.47	0.75
219.4	0	0.1	2.14	1.21
205.6	0	0.1	2.25	0.62
195.7	0	0.1	2.53	0.33
212.6	0	0.1	2.05	0.95
216.6	0	0.1	1.91	1.11
203.8	0	0.1	2.29	1.03
199.7	0	0.1	3.73	1.41
198.6	0	0.1	2.73	1.1
198.7	0	0.1	2.14	0.55
209.4	0	0.1	1.62	0.52
207.6	0	0.1	2.11	1.07
207.6	0	0.1	1.63	0.86
194.2	0	0.1	1.69	1
201.7	0	0.1	4.17	1.97
189.1	0	0.1	2.3	1.07
191.7	8.5	0.17	2.74	0.94
197.4	0	0.48	3.99	0.45
175.8	23	0.2	1.79	0.19
89.1	225	0.9	3.6	0.18
67.4	345	0.24	3.93	0.12
65.1	99.5	0.2	3.93	0.1
45.7	37	0.23	2.58	0.11
82.8	53	0.31	3.17	0.13
76.2	89	0.19	2.71	0.12
70	62	0.37	1.61	0.11
79.6	11	0.1	0.81	0.1
49.8	24.5	0.1	0.2	0.1
84.5	1	0.1	0	0.1
99.4	2	0.1	0	0.1
110.6	0	0.1	0	0.1
129.4	0	0.1	0	0.1
125.3	0	0.1	0.04	0.1
126	5.5	0.1	0.84	0.1
118.1	0	0.1	1.27	0.1
83.5	0	0.1	1.13	0.1
145.1	0.5	0.1	1.06	0.1
139.7	4.5	0.1	0.78	0.1
71.8	245	0.3	2.55	0.1
130.1	8.5	0.1	2.25	0.1
135.9	2	0.1	1.8	0.1

859

131.8	0.5	0.1	1.19	0.1
86.5	23	0.1	1.66	0.1
57.5	233.5	0.1	0.75	0.1
23.6	145.5	0.1	0.8	0.1
126.7	3	0.1	0.79	0.1
60.5	2.5	0.1	0.89	0.1
74.8	31.5	0.1	0.97	0.1
101.1	9.5	0.1	1.2	0.1
135.3	1	0.1	1.1	0.1
111.9	1	0.1	0.92	0.1
123.2	0.5	0.1	0.78	0.1
85.1	0	0.1	0.98	0.1
65.3	18.5	0.1	1.21	0.1
50	3.5	0.1	1.15	0.1
119.5	4.5	0.1	0.8	0.1
134.8	10	0.1	0.4	0.1
124.3	4	0.1	0.71	0.1
69.1	7.5	0.45	1.62	0.13
108	0	0.25	1.3	0.1
132.5	0	0.1	1.02	0.1
138.9	0.5	0.1	2.31	0.36
126.4	1.5	0.1	3.27	0.35
112.1	0	0.1	0.81	0.1
122	0	0.1	0.67	0.1
135.1	1	0.5	13.13	0.22
96.7	0.5	4.01	56.57	1.33
41.8	138	23.49	120.98	3.13
67.3	53.5	13.42	77.46	2.52
45.1	73.5	2.47	49.19	1.29
38.8	95	2.9	52.26	1.3
9.5	119	2.24	33.15	0.76
52.1	19.5	1.55	27.5	0.49
54.9	6	1.57	25.73	0.65
161.9	2.5	2.28	32.02	1.02
134.7	1.5	2.36	26.95	0.91
55.9	13.5	1.84	24.75	0.58
133.9	5.5	2.34	23.76	0.61
87	6	1.76	20.78	0.52
48.2	35.5	2.3	26.54	0.6
42.3	85	1.88	28.56	0.61
53.2	2	1.1	25.13	0.46
28.8	87.5	1.41	21.28	0.43
59	7	1.56	15.56	0.37
27.5	29	1.12	11.66	0.18
9.5	51.5	0.88	8.88	0.12
29.7	9	1.72	10.56	0.25
56.6	22.5	1.26	12.35	0.31
85.6	26.5	1.69	14.43	0.31
99	8	0.69	16.42	0.38
81.1	9	1.74	14.31	0.35
85.6	4	1.38	20.36	0.48
115.9	0	1.18	18.41	0.54

860

119.7	0	0.86	19.73	0.5
123.9	0.5	1.45	23.84	0.94
124.8	0	1.8	20.64	1.07
146.6	0.5	2.13	19.32	0.75
61.5	1	2.56	23.11	0.58
53.6	14	2.04	24.03	0.63
137.2	2	4.15	27.55	1.2
58.7	0	1.82	20.46	0.73
115.7	0	2.74	29	1.12
131.9	0	2.6	24.97	1.11
61	0	4.19	34.95	1.4
144.9	0	2.7	21.25	1.58
77.3	0	1.94	26.16	0.98
68.8	0	3.51	32.92	1.37
112.9	0	2.16	25.96	0.99
106.8	0	5.71	36.87	1.1
70.4	0.5	6.21	34.45	1.24
24.1	25	6.51	38.31	1.34
62.7	0	4.76	21.6	4.46
116.2	9	1.81	23.51	3.14
41.8	194	5.06	25.15	8.08
36.9	16.5	1.17	19.24	2.45
49.6	191	1.9	13.78	1.4
71	5.5	2.34	14.91	1.51
76.3	6	2.36	11.57	1.35
56.9	7	1.59	7.91	0.56
25.9	31.5	0.87	5.23	0.34
86.8	24.5	0.29	4.12	0.25
43.6	74.5	0.26	2.44	0.12
75.7	13	0.21	3.03	0.14
118.6	1	0.37	3.1	0.55
22.7	7.5	0.24	2.46	0.39
42.8	1.5	0.62	4.49	0.21
128.7	1	0.64	5.21	0.72
123.3	0	0.49	7.02	1.44
81.1	0	1.28	5.95	1
116.9	0	0.87	7.87	1.25
119.3	0	0.89	5.81	1.07
121.8	0	1.05	6.96	1.21
111.5	0	1.72	9.36	3.23
109	0	2.82	25.05	5.52
110.9	0	1.81	21.39	3.04
107.7	0	2.71	25.65	3.63
110.5	0	2.98	11.93	3.9
110.6	0	1.55	5.48	1.2
34.8	0	7.01	15.84	2.45
95.7	0	7.05	10.27	3.91
87	0	5.7	20.73	1.45
100.1	0	3.68	15.48	1.62
75.5	1.5	9.2	33.07	1.8
52.7	0	6.96	30	1.71
102	0	8.45	31.72	2.17

861

110.8	0	3.36	22.95	2.03
110.1	0	4.88	25.89	2.54
91.1	0	8.3	25.65	1.48
63.4	0	6.14	23.42	1.72
99.9	0	3.98	15.93	2.54
103.8	0	3.9	17.89	2.38
102.3	0	6.92	26.31	2.68
98	0	6.73	26.64	2.53
95.8	0	4.12	24.43	3.54
81.9	0	3.17	12.52	1.17
95.7	0	5.33	27.47	2.48
101.5	0	3.33	11.38	1.04
101.2	0	4.18	16.12	1.5
98.4	0	3.72	12.95	1.02
103.2	0	4.89	20.39	1.88
91.3	0	6.83	20.17	2.45
75.1	0	6.25	19.52	1.93
82.5	0	6.97	24.53	3.06
82.6	0	3.57	14.7	1.41
86.9	0	3.06	7.69	0.38
84.5	0	3.32	13.04	0.91
91.3	0	4.31	17.3	1.41
88.5	0	3.92	17.63	1.44
89.5	0	6.07	17.44	1.84
91.2	0	3.48	12.2	0.94
88.7	0	8.09	22.19	2.2
87.9	0	7.09	21.72	2.03
83.8	0	4.74	21	2.04
82.7	0	6.16	25.79	3.17
77.2	0	6.87	24.87	2.93
77.3	0	4.56	17.8	1.85
73.2	0	4.45	15.01	1.56
78.3	0	6.53	26.38	2.51
75.7	0	6.32	27.03	3.12
79.6	0	2.95	15.89	1.74
72	0	3.16	18.76	1.67
55	0	4.96	18.86	2.07
66.5	0	3.72	15.8	1.35
49.2	0	5.3	17.2	1.59
50.3	0	3.99	12.73	1.15
69	0	3.16	15.48	1.5
67	0	4.64	17.31	1.44
66.5	0	4.63	10.4	1.15
70.2	0	3.89	11.57	1.18
77.7	0	3.54	10.22	0.92
81.3	0	4.15	10.02	1.19
85	0	6.04	20.08	1.9
84	0	5.65	21.29	2.11
82.6	0	4.4	17.81	1.98
41.8	0	2.4	11.19	1.06
33.3	0	4.35	9.15	1.01
25.8	0	4.09	10.8	1.31

862

33.7	0	5.56	13.2	1.18
72.4	0	3.75	12.69	1.12
57.1	0	7.21	14.94	1.03
63.3	0	5.39	16.26	1.77
70	0	9.25	23.76	3.04
69.2	0	9.77	22.36	2.48
72.1	0	8.87	18.85	2.16
68.2	0	6.95	18.96	2.51
60.9	0	5.77	19.12	2.42
52.8	0	8.9	25.12	3.12
53.1	0	5.42	17.92	2.14
48.4	0	3.19	10.97	1.01
77.8	0	3.89	13.95	1.49
92.1	0	5.51	17.64	1.78
85.9	0	8.41	23.38	2.72
93.1	0	9.45	29.21	3.31
90.3	0	5.28	19.48	2.52
84.9	0	6.44	18.55	2.29
71.3	0	4.11	14.59	1.39
28.7	0	3.31	13.64	1.62
60.1	0	3.17	8.42	0.95
71.7	0	3.01	11.62	1.19
77.9	0	6.74	23.4	2.88
89.2	0	8.72	36.31	4
91.4	0	5.99	20.47	2.68
91.9	0	6.03	15.89	2.03
90.9	0	6.69	22.08	3.16
95.9	0	4.51	10.22	1.19
90.4	0	3.7	12.35	1.04
93.2	0	7.45	20.04	2.49
92	0	3.48	13.58	1.17
90.4	0	7.56	20.27	2.6
82.1	0	6.91	21.39	2.51
74.6	0	9.51	23.18	2.24
74	0	4.35	11.88	1.32
45.8	0	5.41	8.62	2.76
88.9	0	2.42	7.95	0.79
77.6	0	4.96	11.02	1.23
78.3	0	6.46	15.7	2.02
15.03	0	4.61	17.48	1.73
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76.9	0	11.14	28.85	3.9
72.5	0	7.18	15.87	2.09
82.1	0	8.94	17.38	2.38
83.9	0	7.79	15.76	2.13

863

82.6	0	5.32	10	1.36
91.3	0	9.99	21.16	3.69
79.5	0	11.1	21.37	2.68
85	0	8.75	16.22	2.92
93.2	0	7.39	6.67	0.93
97.8	0	6.61	6.77	1.18
91.4	0	8.23	12.68	1.83
52.1	0	9.17	14.65	2.02
75.5	0	11.07	17.73	2.67
93.7	0	9.88	14.47	2.11
102.6	0	12.25	23.04	3.36
104.9	0	9.9	12.07	1.9
108.1	0	11.08	13.79	2.62
112.3	0	6.78	12.71	1.94
101.5	0	10.3	23.16	3.22
104.3	0	6.1	10.05	1.22
101.8	0	8	16.26	2.6
101.7	0	8.15	15.31	3.08
106.5	0	9	11.39	2.65
102.3	0	3.92	7.05	1.35
120.1	0	3.3	5.95	0.45
119.1	0	4.77	11.5	1.54
119.3	0	7.84	15.43	1.81
111.3	0	4.82	10.85	1.67
116.9	0	5.5	11.01	0.29
113.1	0	5.87	15.32	1.36
101.3	0	9.57	27.84	3.95
96.9	0	12.96	38.54	5.54
109.7	0	6.95	19.21	2.09
106.4	0	31.48	52.63	28.69
108.3	0	39.14	31.61	36.67
101	0	56.59	57.98	25.95
116.1	0	28.15	82.64	22.49
130.5	0	14.27	49.22	9.08
131	0	27.3	60.99	11.48
136.9	0	13.31	43.25	6.33
121.8	0	29.07	90.46	15.78
125.7	0	20.65	67.77	10.7
126.5	0	33.75	91.99	13.89
124.3	0	25.85	82.73	10.41
130.8	0	19.09	64.63	8.11
128.4	0	13.44	45.69	6.2
115.5	0	7.74	28.78	4.72
121.8	0	5.44	23.35	3.42
123.3	0	10.75	37.49	5.61
119.7	0	3.78	14.09	2.03
117.6	0	8.73	27.15	3.57
99.1	0	32.21	88.16	12.77
104.5	0	35.11	70.79	10.87
114.7	0	22.5	55.23	7.3
100.5	0	10.94	29.98	3.85
124.2	0	8.57	28.91	3.03

864

119.7	0	8.14	26.75	3.3
116	0	6.98	19.28	2.81
121.4	0	6.33	23.62	3.19
128	0	3.79	15.09	1.74
136.3	0	3.31	14.01	1.92
147.5	0	2.32	6.76	0.8
147.3	0	2.44	8.67	1.32
146	0	3.07	9.67	1.2
143.4	0	3.73	14.47	1.76
147.3	0	5.41	17.26	2.63
144.8	0	6.8	21.37	2.93
153.1	0	3.18	15.34	2.24
159.4	0	1.69	8.11	1.95
152.8	0	2.04	8.72	1.53
146.9	0	2.5	9.17	1.26
147	0	4.83	13.47	1.76
144	0	6.41	21.15	2.59
143.7	0	9.88	21.37	2.86
137.1	0	5.84	17.75	2.53
107.8	0	5.77	16.39	2
118.8	0	4.82	12.59	1.21
135.6	0	3.56	13.34	1.43
141.6	0	3.93	14.59	1.51
151.7	0	2.53	10.83	1.19
171.7	0	1.43	4.15	0.34
172.6	0	2.37	9.54	0.99
172.1	0	7.48	31.5	4.63
160.3	0	9.67	36.15	4.77
160.6	0	4.01	15.93	1.71
157.2	0	3.23	7.97	0.61
158.1	0	1.76	3.58	0.44
158.5	0	1.96	4.18	0.65
151.2	0	2.08	6.9	1.3
166.5	0	2.04	5.14	0.81
170.9	0	3.95	12.28	3.34
168.3	0	4.89	9.78	1.33
162.4	0	2.07	4.81	0.85
166.7	0	1.33	3.85	0.56
174	0	2.69	5.55	0.87
174.8	0	2.91	7.94	1.25
158.7	0	3.64	10.51	1.65
114.7	0	2.74	10.16	1.43
167.7	0	3.4	9.65	1.31
175.7	0	2.87	9	1.52
172.6	0	3.16	7.38	1.11
160.7	0	2.78	6.82	0.95
168.5	0	2.15	4.59	0.75
179.3	0	1.42	3.59	0.75
191.7	0	1.71	4.27	0.82
199.3	0	1.74	5.06	1.05
203.5	0	2.39	5.74	1.25
184.6	0	3.23	5.27	0.98

198.7	0	2.02	4.09	0.92
204.3	0	2.19	5.16	1.18
207.7	0	2.28	6.19	1.31
219.2	0	1.72	5.01	1.16
236.8	0	2.12	4.93	1.15
230.8	0	1.31	1.89	0.81
246	0	3.04	1.79	7.92
244.8	0	3.45	1.87	7.14
238.8	0	1.82	2.19	0.96
241.3	0	1.61	3.26	0.85
241.9	0	1.63	2.06	1.17
260.7	0	1.63	3.32	1.13
249.9	0	2.85	4.11	1.3
231.1	0	4.33	4.66	5.35
225.9	0	2.26	6.24	7.55
213.6	0	6.75	11.3	4.92
198.2	0	18.37	25.57	6.82
238.9	0	6.17	8.58	6.2
256.7	0	6.78	2.79	2.5
256.9	0	3.92	1.28	1.41
269.7	0	2.78	2	1.72
269.6	0	1.81	1.44	1.06
272.6	0	3.21	1.78	1.03
258	0	2.1	1.39	0.89
261.3	0	1.86	1.96	1.11
242.3	0	2.23	1.72	1.23
257.8	0	2.02	1.63	1.2
269.9	0	1.76	1.88	1.2
276.3	0	1.49	1.88	1.5
272.6	0	1.36	1.55	1.02
247.5	0	1.78	1.9	1.55
248.9	0	2.11	1.86	0.98
241.7	0	1.68	1.44	1.29
254.2	0	1.67	1.65	0.73
254	0	2.46	1.79	0.78
260.9	0	1.66	1.64	0.73
221.2	0	2.31	1.95	0.8
216.4	0	2.1	1.86	0.63
269.5	0	2.46	1.73	0.64
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181.7	2	2.26	6.04	1.19
199.1	0	2.4	4.38	1.06
95.4	4.5	2.6	4.7	0.83
160.8	6	4.13	5.41	0.92
160.7	12.5	3.47	3.9	0.94
24.8	48	5.53	8.84	0.62

158.6	4.5	4.45	5.26	0.52
99.8	14	3.06	3.72	0.72
102.9	15.5	3.27	7.92	0.95
189.5	1	4.66	6.71	1.36
110.8	2.5	6.66	13.8	3.4
75.3	8	12.13	22.63	3.82
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70.2	2	5.01	13.01	1.92
73	2	5.22	10.78	1.61
54	91.5	2.92	8.96	1.61
84	34	2.85	7.74	1.35
88.3	20.5	3.57	9.07	1.22
65.5	6.5	1.79	4.31	1.21
141.2	3.5	1.1	2.14	0.96
173	67	1.49	3.2	1.12
14.5	224.5	2.28	6.01	1.8
61.7	107	2.45	8.15	2.05
92	9.5	2.94	7.37	1.99
154.8	21.5	2.79	6.45	1.71
153.4	3	2.68	6.72	2
181.3	13	2.06	6.44	1.79
28.6	21.5	1.75	6.31	1.42
52.6	15	1.27	4.78	1.02
37.5	28.5	0.79	3.23	0.66
64.5	44.5	0.69	2.73	0.57
138.3	8.5	0.7	1.41	0.6
119.8	1.5	<Samp	<Samp	<Samp
61.1	206.5	1.24	2.28	0.69
110.6	5	1.11	2.27	0.66
121.5	2	0.9	2.56	0.55
131.9	0	1.07	2.35	0.61
137.1	1.5	0.94	2.76	0.69
110.8	1	1.02	2.51	0.63
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135.8	0	0.63	7.55	0.44
141.9	0.5	0.39	3.63	0.33
136.1	0	0.31	2.65	0.5
139.1	1	0.29	1.55	0.24
143.1	0	0.25	1.17	0.26
150.5	0.5	0.24	0.96	0.21
127.7	1	0.29	1.69	0.23
113.7	0	0.5	1.81	0.34
173.6	7	0.84	2.69	0.18
213.1	0	0.22	1.05	0.17
170.1	0	0.34	1.6	0.23
149.1	0.5	0.22	1.18	0.24
227.9	3	0.32	0.74	0.22
214.6	0	0.42	1.58	0.4

867

118	14.5	0.53	2.61	0.17
140.5	0	0.8	3.49	0.51
138.6	20.5	1.01	4.48	0.71
97.5	61	1.58	4.14	0.72
96.9	7	1.22	3.36	0.33
103.2	59.5	1.46	3.46	0.34
72.5	0.5	1.62	2.97	0.48
141.1	20	1	2.28	0.66
176.9	417	1.22	3.67	0.79
220.8	192	0.52	2.09	0.52
154.8	1	0.56	2.02	0.66
134.8	5	0.62	2.28	0.61
160.6	12.5	0.6	2.27	0.55
205.9	6	0.61	2.92	0.51
211.7	9	1.15	3.18	0.65
74.2	38.5	1.51	3.79	0.65
52.9	22.5	1.8	4.36	0.82
57.1	115.5	1.04	2.47	0.58
50.9	0.5	0.83	1.5	0.33
41.2	30	2.5	6.61	0.65
45.7	30	3.76	11.87	1.16
170.4	0	3.06	7.29	0.45
132	0	1.82	3.94	0.39
203.1	0	1.38	3.35	0.24
237.8	3.5	1.86	3.61	0.27
99.2	0	1.7	5.39	0.45
57.4	39	4.1	11.2	0.66
169.5	0	3.45	8.97	0.46
227.1	0	3.09	8.23	0.71
271.1	0	3.36	8.54	0.67
261.6	0	1.28	6.42	0.61
259.8	0	1.13	3.87	0.29
243.7	0	0.91	2.85	0.39
241.9	0	1.06	0.85	0.81
225.4	0.5	0.63	1.4	0.34
213.8	46	1.7	6.9	0.53
171.6	1	1.19	4.11	0.25
166.5	0	1.54	6.23	0.49
228.1	0	1.06	2.5	0.29
239.2	1	0.31	1.4	0.2
239.8	0	0.59	2.92	0.33
80	0	0.86	2.02	0.05
175.1	0	0.29	1.49	0.32
212.6	0.5	0.2	1.32	0.34
173.6	0	0.47	1.89	0.2
131.8	1.5	1.56	3.39	0.28
149.9	18.5	2.04	3.19	0.19
20	55.5	1	2.28	0.23
27.2	46.3	26.39	2.43	0.28
57.7	24.5	1.39	3.76	0.29
206.2	0	0.84	2.53	0.2
211.3	0	0.89	2.22	0.17

868

239.9	0	0.74	2.12	0.12
225.2	0	1.72	3.05	0.15
207	0	0.99	3.42	0.25
211.6	0	1.3	4.2	0.25
83.5	0	1.73	4.02	0.26
179.3	0	2.03	6.32	0.55
166.5	0	1.69	5.5	0.38
85	0	3.05	11.13	1.05
191.3	0	2.78	8.89	0.94
200.2	0	1.86	4.47	0.51
199.8	0	1.68	3.42	0.46
190.4	0	1.25	4.11	0.51
181.2	0	1.59	5.89	0.59
189	0	1.46	5.34	0.5
182	0	1.83	6.99	0.76
181	0	2.5	7.94	0.71
186.7	0	1.75	5.58	0.5
184.4	0	1.98	7	0.77
182.3	0	2.64	7.75	0.98
168.9	0	2.83	7.34	0.93
164.8	0	2.84	7.89	0.86
168.1	0	3.06	8.04	0.97
174.9	0	2.06	7	0.82
170.6	0	2.12	7.09	0.8
168.4	0	2.58	7.78	0.81
166.2	0	2.07	7.03	0.78
158.6	0	2.04	6.55	0.75
199.8	0	1.26	4.87	0.43
189.2	0	1.55	4.53	0.46
187.5	0	1.25	5.38	0.48
174.1	0	2.04	4.41	0.42
125.2	0	1.79	3.64	0.32
22.3	19.5	1.48	4.27	0.41
32.1	14.3	0.78	1.84	0.3
197	1	0.98	2.05	0.3
170.6	0.5	1.45	4.54	0.39
114.2	0	1.7	6.62	0.58
155.2	0.5	1.3	3.47	0.36
83.8	0	0.86	4.4	0.28
153.8	0	1.1	4.41	0.37
128.1	0	1.24	5.58	0.49
152.1	0	1.92	6.55	0.59
173.8	0	1.33	4.27	0.43
185.7	0	1.33	5.33	0.53
171	0	1.63	6.02	0.75
160.6	0	2.03	6.41	0.66
170.6	0	1.51	6.83	0.76
153.7	0	1.26	7.15	0.71
138.9	0	1.89	9.43	1.08
144.1	0	1.85	8.19	0.93
145.5	0	1.33	5.75	0.71
141.4	0	1.26	3.69	0.37

869

154.2	0	1.24	4.38	0.4
142.8	0	1.08	4.94	0.39
137.4	0	1.36	3.2	0.38
137	0	1.01	1.83	0.35
108.3	0	1.46	6.54	0.68
102.2	0	2.11	6.9	0.74
103.5	0	1.53	6.75	0.7
88.8	0	2.22	6.97	0.62
109	0	2.14	8.6	1.15
136.4	0	1.33	5.96	0.61
124.3	0	1.32	6.3	0.58
115.6	0	1.75	7.01	0.61
122	0	1.1	3.73	0.32
118.7	0	1.16	4.95	0.38
111.8	0	1.18	4.68	0.39
100	0	1.12	5.62	0.64
105.3	0	1.71	6.48	0.62
99.6	0	1.77	4.68	0.36
104.4	0	0.57	3.39	0.17
125.6	0	1.24	3.69	0.19
129	0	1.22	3.97	0.2
118	0	1.51	4.65	0.28
128.7	0	1.46	5.32	0.34
127.4	0	1.3	3.88	0.27
136.2	0	1.05	5.26	0.26
140.9	0	1.36	4.79	0.36
120.1	0	1.44	5.22	0.41
111	0	1.44	6.33	0.55
124.2	0	1.07	2.66	0.1
122.1	0	0.94	3.79	0.33
135.6	0	1.12	3.69	0.26
127.4	0	1.39	6.39	0.48
112.1	0	0.84	4.89	0.29
104.8	0	0.84	4.56	0.29
92.6	0	0.76	4.01	0.3
109.9	0	0.95	1.67	0.07
115.3	0	1.29	3.19	0.19
112	0	1.27	5.49	0.42
113.9	0	1.54	3.78	0.16
108.3	0	1.45	4.87	0.67
99.4	0	1.37	5.09	1.61
94.8	0	1.72	6	1.69
59.1	0	2.38	7.11	1.13
117.3	0	0.48	1.27	0.13
118.2	0	0.52	1.81	0.1
123.7	0	1.4	3.63	0.23
94.2	0	1.18	5.78	0.41
120	0	1.19	4.98	0.3
133.9	0	0.91	6.36	0.42
113.1	0	0.77	1.73	0.15
113.4	0	1.21	8.33	0.36
104	0	1.23	6.34	0.38

870

106.4	0	0.68	6.21	0.35
110.8	0	1.58	6.49	0.47
111.3	0	1.13	6.4	0.55
107	0	1.68	3.07	0.17
99.7	0	1.45	5.81	0.39
114.7	0	1.27	5.18	0.28
84	0	1.86	6.66	0.42
104.1	0	1.02	4.93	0.4
105.9	0	1.45	6.44	0.47
107.7	0	1.21	6.24	0.33
36.8	0	1.29	6.12	0.54
89.8	0	0.96	4.81	0.32
105.6	0	1.03	2.06	0.06
114.2	0	0.95	2.3	0.16
107.6	0	1.48	2.76	0.22
108.3	0	1.25	3.17	0.27
108.5	0	1.16	5.04	0.28
101	0	1.56	6.99	0.47
108.7	0	1.14	5.72	0.38
85.9	0	1.08	3.26	0.24
101.9	0	0.56	1.13	0.13
121.5	0	0.61	1.13	0.15
111.2	0	0.65	2.41	0.18
124	0	1.5	2.33	0.1
136.9	0	1.11	2.46	0.09
125.1	0	1.02	2.18	0.17
144.1	0	0.89	4.01	0.29
150.9	0	0.87	3.18	0.1
143.6	0	1.44	4.33	0.32
140.2	0	1.18	4.99	0.46
148.4	0	1.42	3.8	0.22
122.1	0	1.09	2.63	0.09
121.8	0	0.44	1.38	0.06
170.7	0	0.67	1.52	0.11
169.4	0	0.16	0.89	0.12
170.4	0	0.36	0.9	0.16
158.6	0	0.73	3.3	0.24
155.8	0	1.63	8.34	0.65
149.2	0	1.78	7.02	0.56
134.3	0	2.46	5.44	0.43
127.9	0	1.16	1.43	0.02
160.6	0	0.22	0.53	0.14
155.6	0	0.57	0.84	0.18
155	0	0.43	1.05	0.17
162.1	0	0.65	1.12	0.1
167.7	0	0.06	0.42	0.04
163.4	0	0.56	1.38	0.14
147.3	0	0.75	4.41	0.16
104.4	0	1.14	7.77	0.84
121.5	0	0.48	3.51	0.19
123.8	0	1.42	5.46	0.5
132.8	0	1.54	6.04	0.37

871

128.2	0	0.83	1.75	0.04
150.3	0	0.11	0.31	0.13
137.4	0	0.09	0.89	0.13
126.3	0	0.33	1.15	0.14
122.9	0	1.54	2.53	0.04
115.9	0	1.01	1.69	0.22
122.9	0	0.5	0.97	0.24
115.7	0	0.58	1.13	0.05
121.8	0	0.58	2.64	0.18
127.7	0	0.97	1.94	0.15
125	0	0.2	1.22	0.19
115.1	0	0.79	1.53	0.27
112.7	0	0.51	1.29	0.16
113.8	0	0.29	1.72	0.09
129.8	0	0.25	1	0.25
128.4	0	0.48	1.25	0.16
131.7	0	0.12	1.74	0.07
130	0	0.5	0.5	0.03
124.6	0	0.06	0.14	0.04
132.4	0	0.15	0.19	0
137	0	0.31	1.14	0.1
133	0	0.18	2.55	0.1
130.5	0	0.56	1.71	0.08
124.5	0	0.67	1.52	0.2
89	0	0.6	1.54	0.12
91.5	0	0.36	1.87	0.08
63.9	0	0.39	1.19	0.13
73	0	0.12	1.3	0.16
122.6	0	0.03	0.57	0.04
120.9	0	0.44	1.88	0.13
131	0	0.27	1.18	0.1
118.3	0	0.46	0.92	0.35
119.3	0	0.72	1.86	0.33
109.9	0	0.55	3.54	0.64
114	0	0.31	1.72	0.58
112	0	0.14	0.66	0.11
124.1	0	0.37	1.17	0.12
123.6	0	0.18	0.84	0.27
119.3	0	0.13	1.28	0.09
118.4	0	0.08	0.49	0.36
114.4	0	0.41	1.87	0.19
107.7	0	0.13	1.31	0.04
119.5	0	0	0.73	0.01
119.2	0	0.27	0.94	0.17
124.4	0	0.36	0.91	0.23
122.2	0	0.39	0.37	0.1
120.6	0	0.13	0.33	0.19
137.4	0	0.37	1.15	0.15
141	0	0.11	0.35	0.05
149.4	0	0.04	0.09	0.07
153.7	0	0.11	0.78	0.1
151.9	0	0.22	0.96	0.17

872

148.2	0	0.07	2.12	0.08
150.3	0	0.36	1.26	0.11
164.4	0	0.18	0.67	0.06
153.1	0	0.1	0.37	0.07
175.7	0	0.02	0.11	0.01
171.2	0	0.28	1.23	0.13
194.7	0	0.12	0.1	0.08
167.6	0	0.03	0.41	0.1
185.5	0	0.21	0.29	0.12
179.4	0	0.07	0.2	0.11
188.5	0	0.15	0.25	0.07
181.1	0	0	0.09	0.04
169	0	0.06	0.14	0.09
168.9	0	0.14	0.7	0.29
109.6	0	0.3	0.94	0.42
156.6	0	0.1	0.26	0.07
132.8	0	0.21	0.99	0.14
154.6	0	0.14	0.34	0.07
163.9	0	0	0.06	0.01
157.2	0	0.3	0.55	0.1
158.4	0	0.24	0.67	0.22
162.8	0	0.09	0.14	0.13
165.7	0	0.47	0.55	0.44
169.8	0	0.93	0.98	0.85
172.9	0	0.48	0.44	0.51
171.9	0	0.56	0.66	0.74
163	0	0.63	0.67	0.72
160.9	0	0.64	0.7	0.52
158.7	1.5	0.76	0.74	0.4
163.9	0	0.62	0.67	0.4
168.6	0	0.64	0.71	0.4
167.1	0	0.6	0.72	0.44
141.9	1	0.5	0.52	0.39
135.7	11.5	0.79	0.86	0.48
118.1	2.5	1.6	2.06	1
158.3	3.5	1.8	1.3	1.05
87	0	1.66	1.42	1.1
108.7	7.5	1.04	1.49	1.01
51.5	0	0.98	0.62	0.49
38.6	8	0.7	0.6	0.4
41.7	93.5	0.84	0.58	0.43
63.5	22.5	0.57	0.65	0.47
34.1	74	0.64	0.64	0.42
72.4	0	1.01	1.08	0.45
76.7	24	1.51	1.54	0.5
74.1	1.5	1.08	1.81	0.44
118.5	18	0.82	0.91	0.38
87.1	0	0.88	0.76	0.5
107.8	8	1.19	1.08	0.58
43.2	86	0.68	1.25	0.52
36.2	56.5	0.86	1.94	0.53
89.2	60.5	0.74	1.11	0.44

873

156.3	0	0.7	1.36	0.49
116.1	0.5	0.71	1.02	0.43
106.6	34	0.72	1.03	0.44
83.3	4.5	0.65	0.76	0.44
63.5	2	0.33	0.52	0.23
121.5	0	0.09	0.59	0.1
46.7	42	0.17	0.74	0.11
22	180.5	0.25	0.82	0.1
92.2	31.5	0.02	0.34	0.03
128.7	26	0.06	0.25	0.08
85.8	47.5	0.39	0.6	0.32
47	40.5	0.16	3.65	0.3
62.5	27	0.14	0.59	0.23
73.2	65.5	0.09	0.42	0.09
49.6	71.5	0.13	0.87	0.12
100.7	5.5	0.07	0.35	0.08
66	6	0.12	0.17	0.11
59.7	43.5	0.06	0.23	0.06
125.2	0	0.08	0.12	0.08
78.6	11	0.07	0.22	0.1
63.8	62.5	0.08	0.3	0.1
62.8	20	0.09	0.23	0.09
70.6	3	0.04	0.47	0.05
99.1	13	0.04	0.41	0.03
83.8	12	0.09	0.14	0.12
54.3	60	0.07	0.13	0.1
28.6	91	0.11	0.18	0.11
62.2	9.5	0.13	0.13	0.09
4.9	99	0.12	0.24	0.1
65.6	6	0.13	0.17	0.11
40.4	40	0.09	0.75	0.08
110.9	11	0.04	0.69	0.03
101.9	9	0.03	0.06	0.07
72.9	39	0.09	0.27	0.1
51.8	7.5	0.09	0.17	0.11
32.7	102.5	0.06	0.09	0.05
49.4	18	0.06	0.08	0.1
49.3	7	0.05	0.1	0.08
11.7	31	1.95	4.17	2.79
28.2	2	0.83	1.48	0.59
100.9	1	0.74	0.89	0.81
37.6	3	0.35	0.47	0.84
10.9	38.5	0.24	0.65	0.29
22.8	2.5	0.11	0.23	0.19
75.4	11	0.25	0.46	0.12
108.9	0.5	0.13	0.55	0.29
92.6	0.5	0.11	1.05	0.38
29.7	16.5	0.09	0.86	0.3
49.5	27	0.07	0.89	0.31
49.7	11.5	0.09	0.51	1.72
62.9	0.5	0.09	1.14	1.14
32.1	1.5	0.14	0.41	0.79

874

63.8	8	0.14	0.47	0.26
71.1	18	0.13	0.6	0.14
55.2	3	0.22	0.87	0.42
31.1	20	0.2	1.05	0.42
46.5	26	0.17	0.46	0.14
71.1	7	0.16	0.62	0.21
124.1	0	0.11	0.5	0.19
62.6	12	0.11	0.46	0.24
48.5	8	0.13	0.53	0.26
66.4	8	0.17	0.39	0.18
46.2	57.5	0.14	0.44	0.33
105.8	0.5	0.11	0.55	0.18
25.8	55	0.12	1.24	0.36
20.4	110	0.08	0.75	0.19
22.5	119.5	0.06	2.42	0.13
133.9	11.5	0.07	1.68	0.2
116.1	10.5	0.06	0.44	0.14
107.7	0	0.08	0.38	0.19
72.5	0	0.05	0.31	0.13
67.1	2.5	0.07	0.16	0.13
95.9	2.5	0.07	0.2	0.12
54.1	13.5	0.1	0.3	0.11
31.1	39.5	0.08	0.21	0.11
50.4	1.5	0.1	0.43	0.12
130	3.5	1.03	0.32	0.04
118.2	2	0.75	2.88	0.5
132.5	0	0.34	0.07	0.07
52.9	2	0.14	0.2	0.1
71	0	0.77	0.32	0.09
113.8	0	0.39	0.31	0.09
38.8	0	0.28	0.45	0.1
78.7	0	0.38	0.43	0.09
117.4	0	0.17	0.27	0.09
111.6	0	0.22	0.31	0.1
67.1	0	0.24	0.31	0.09
75.4	0	0.25	0.4	0.09
103.9	0	0.24	0.33	0.08
110.3	0	0.22	0.33	0.08
96.7	0	0.21	0.32	0.09
85.8	0	0.18	0.27	0.08
107.7	0	0.15	0.26	0.09
105.2	0.5	0.17	0.25	0.07
109.9	0	0.17	0.27	0.07
112.9	0	1.03	0.27	0.19
73.8	1	0.96	0.87	0.47
112.8	0	1.97	1.3	1.04
113	0	1.82	1.28	0.76
94.2	0	2.27	0.97	0.92
79.2	0	0.77	0.68	0.76
101.4	0	1.8	0.92	0.66
98.7	0	1.62	1.14	0.89
98.2	0	1.36	0.9	0.49

875

88.9	0	2.09	1.25	0.85
100.4	0	1.06	0.84	0.79
96.7	0	0.75	0.7	0.63
36.5	19.5	1.27	0.67	0.36
113.9	0	1.28	0.6	0.51
99.4	0	1.3	0.8	0.59
58.2	0	0.84	0.64	0.51
58.5	103	0.85	0.5	0.5
63.4	0	0.51	0.56	0.16
26.6	0	0.43	0.44	0.17
54.9	2.5	1.39	0.86	1.74
74.4	38.5	2.04	0.43	2.59
46.6	0	1.73	0.75	0.68
110.3	2	0.96	1.23	0.92
76.9	0	1.42	1.34	0.94
45.1	0	1.31	1.16	1.94
70.2	0	1.05	0.3	2.48
13.9	0	1.33	0.89	1.23
73	0	1.67	1.12	0.19
73.2	0	2.76	0.06	0.08
72.8	0	1.43	0.28	0.19
54.9	0	0.73	1	0.38
65.4	0	0.57	0.91	0.35
73.3	0	0.08	0.16	0.09
72.7	0	0.82	0.5	0.19
73.4	0	2.44	0.91	0.38
77.8	0	0.96	0.66	0.28
63.4	2	2.19	1.23	0.41
75	0	0.73	0.47	0.19
75.1	0	0.76	0.66	0.23
74.1	0	1.18	0.56	1.03
68.5	0	0.98	0.52	0.97
42.1	1	1.34	0.68	1.08
46.9	0	2.91	0.86	0.79
50.2	0	0.59	1.3	0.83
45.2	0	0.87	4.76	1.15
58.9	0	0.9	5.16	1.58
58.1	0	0.82	5.88	1.76
52.4	8	0.95	5.91	1.36
53.1	0	0.86	6.14	1.58
87.9	0	1.42	8.14	2.18
77.4	0	0.78	5.16	1.53
76.1	0	0.82	5.95	1.83
62.8	0	1.03	6.49	1.55
56.2	1	0.85	6.45	1.83
34	0	1.08	7.2	1.57
61.9	0	1.48	6.16	1.55
32.5	2	0.74	4.93	1.08
40	0	0.87	6.99	1.4
66.8	0	1.02	6.78	1.71
71.6	0	0.99	6.42	1.32
75.5	0	1.33	7.24	1.42

876

75	0	2.64	16.25	2.86
72.4	0	5.87	33.76	7.06
70.8	0	7.01	41.31	7.92
67.9	0	8.95	48.78	8.33
63.4	0	10.4	47.45	9.45
63.5	0	9.08	22.52	8.01
65.4	0	8.11	23.3	7.57
64.7	0	7.07	23.29	6.61
67.6	0	5.26	17.74	5.56
68.9	0	5.79	18.16	5.64
87.6	0	6.51	19.52	5.58
67.3	0	6.33	22.4	6
51.5	0	9.77	30.41	6.2
56	0	11.4	42.41	6.24
64.4	0	16.47	47.2	12.35
66.4	0	26.79	82.1	19.62
64	0	23.68	48.24	19.16
53.9	0	21.3	20.9	14.01
68.4	0	13.65	21.11	9.91
66.9	0	19.63	44.13	13.93
66.4	0	27.79	43.19	15.29
75.2	0	25.29	45.45	16.1
84.5	0	30.33	43.38	21.89
83.7	0	22.35	29.29	18.24
87.4	0	23.16	22.01	23.66
85.1	0	12.3	27.46	13.87
80.1	0	12.92	19.13	11.59
67.1	0	17.6	25.19	14.85
72.1	0	15.29	22.06	13.43
76	0	5.68	14.53	2.78
69	0	7.2	17.63	3.33
64	0	3.98	9.83	2
72.6	0	3.58	8.17	1.74
77.1	0	5.21	10.26	2.27
80.7	0	3.37	7.27	1.33
80.4	0	5.17	10.91	2.13
72.8	0	4.44	12.11	2.33
71.4	0	5.48	14	2.8
71	0	3.68	10.23	1.83
83.4	0	5.93	14.57	2.76
82.6	0	9.75	20.08	3.99
80.6	0	9.66	21.34	4.65
81.8	0	6.53	13.05	2.72
82	0	9.78	20.4	3.99
82.9	0	9.43	23.81	4.54
78.1	0	14.56	30.03	7.06
73.1	0	12.14	24.41	4.82
78.4	0	6.6	17.17	3.72
87.1	0	3.89	9.92	2.28
84.6	0	10.29	20.65	4.44
78.2	0	11.64	28.74	6.21
83.8	0	11.75	25.46	5.87

877

81.7	0	7.87	20.73	4.25
82	0	8.19	23.98	4.56
75.7	0	8.63	23.02	4.66
53.6	0	9.7	23.09	4.79
48.5	0	10.54	28.36	4.68
85.6	0	13.26	60.67	6.83
91.1	0	7.47	35.03	4.37
102.5	0	9.76	34	4.04
101.9	0	14.63	56.64	6.36
105.8	0	8.82	36.52	4.37
108.6	0	7.61	29.77	3.52
108.8	0	8.74	36.76	4.36
98.3	0	17.44	63.99	7
106.8	0	17.56	70.59	7.69
96.6	0	17.43	59.92	6.57
100.9	0	12.39	41.58	4.76
115.9	0	16.03	58.44	6.55
122	0	16.49	58.26	5.64
137.9	0	3.99	20.74	1.64
116.4	0	3.03	15.36	1.08
126.5	0	3.95	21.14	1.78
122.9	0	6.53	27.56	2.13
118	0	18.07	39.24	6.24
113.6	0	13.02	45.25	5.87
119.3	0	15.81	60.43	6.37
126.9	0	2.51	14.3	1.24
129	0	2.56	12.66	1.16
116.5	0	4.92	19.9	1.4
172.6	0	4.17	22.2	2.08
148.9	0	2.75	13.45	0.84
165.4	0	2.81	14.12	1.33
141	0	2.16	12.15	0.73
126.6	0	3.11	9.31	0.61
117.5	0	3.04	14.81	1.26
99.8	0	14.69	29.61	1.99
112.9	0	6.04	22.3	2.1
111.4	0	9.86	35.3	2.74
121.1	0	11.84	41.1	2.59
115.3	0	8.18	38.18	2.75
105.9	0	7.68	25.57	1.19
88.3	0	13.13	53.24	3.9
100.2	0	20.51	43.39	5.85
104.3	0	7.34	35.06	2.68
105.1	0	7.78	24.63	1.6
118.5	0	9.81	24.14	1.57
107.7	0	5.89	29.35	2.14
108.9	0	9.52	36.33	3.58
111.5	0	4.98	20.88	1.83
121.5	0	1.89	11.36	0.68
132	0	2.11	12.79	0.93
192	0	7.12	30.46	3.51
127.4	0	5.5	25.62	2.48

878

113.4	0	9.07	39.11	4.11
102.1	0	14.73	38.58	4.05
117.3	0	11.2	49.22	5.21
122.5	0	8.98	41.96	4.59
110.2	0	16.17	56.38	6.08
104.4	0	15.23	55.7	7.45
104.2	0	6.84	11.48	0.91
116.8	0	3.84	8.9	0.72
118.7	0	1.08	6.49	0.26
115.2	0	0.97	5.24	0.41
107.9	0	0.5	6.57	0.34
113.2	0	0.64	7.79	0.95
125.4	0	2.24	11.98	1.5
114.4	0	0.88	9.17	0.92
110.8	0	3.94	13.1	2.04
113.8	0	6.86	27.04	2.3
115	0	1.77	12.5	0.78
116.9	0	4.23	14.69	0.92
126.3	0	1.88	8.65	0.21
123.4	0	4.01	14.1	1.53
119	0	3.3	6.36	0.66
112.6	0	2.92	7.5	1.14
119.7	0	1.89	8.36	0.74
110.8	0	2.24	15.08	1.13
119.1	0	1.7	5.32	0.32
106.1	0	5.17	9.43	0.34
107.4	0	3.79	11.98	0.49
111.7	0	7.17	21.89	0.68
112.8	0	2.41	22.32	0.61
105.5	0	0.9	12.43	0.48
108.2	0	0.86	12.92	0.61
115.1	0	1.6	18.07	0.71
125.2	0	1.31	15.6	0.64
118.7	0	2.57	13.14	0.59
140	193	2.98	18.57	0.51
139.8	0	2.55	25.57	1.55
146.8	0	1.4	12.6	0.61
143.2	0	1.33	16.43	0.85
144.9	0	4.4	13.09	0.58
143.6	0	2.32	12.79	0.47
152.8	0	4.06	12.24	0.66
144.5	0	6.17	18.62	0.9
140.1	0	6.1	13.15	0.71
140.9	0	0.41	6.92	0.64
146.8	0	1.18	7.76	0.54
142.1	0	1.41	5.95	0.63
103	0	1.65	5.06	0.48
113.5	0	2.82	9.12	0.34
119.1	0	1.11	7.47	0.48
126.7	0	0.6	1.74	0.38
127.8	0	0.35	5.51	0.27
151.5	0	1.28	7.51	2.53

879

151.5	0	2.44	13.6	3.53
152.5	0	2.02	10.32	1.04
146.7	0	2.19	10.44	2.19
130.9	0	1.51	10.19	1.11
142.6	0	3.4	9.36	1.2
126	0	3.51	13.28	1.18
140.2	0	2.19	11.78	0.73
154.1	0	10.29	31	3.21
154.9	0	14.93	18.01	3.57
153.2	0	14.47	11.59	1.02
142.4	0	6.8	13.26	0.8
142.4	0	3.92	18.21	1.06
34.6	0	8.3	40.13	4.34
105.3	0	4.05	18.01	1.43
83.8	0	2.79	11.91	0.63
139	0	2.81	15.49	0.92
140.6	0	1.62	13.79	0.49
131.9	0	0.53	8.61	0.42
142.4	0	0.45	7.11	0.39
143.3	0	1.62	10.77	0.7
148.5	0	1.45	9.35	0.6
151.2	0	1.18	7.94	0.49
141.5	0	3.52	9.03	0.96
96.5	0	1.77	10.71	0.92
139.6	0	2.08	8.89	0.58
144.4	0	1.81	8.61	1.23
195.53	0	0.31	5.78	0.41
189.14	0	4.97	17.29	10.39
124.2	0	3.3	11.24	4.74
150.4	17	14.53	39.27	1.75
72.2	36.5	12.33	43.39	2.37
57.2	26.5	17.86	64.1	2.98
92.6	19.5	25.07	58.29	3.1
118.8	0	17.14	59.03	2.75
177.5	0	20.96	48.53	0.86
179.7	0	15.99	54.49	0.85
122.1	31.5	20.66	40.2	1.16
62.8	54.6	14.02	36.06	1.83
42.1	60	17.49	35.37	1.32
96.2	17.9	16.83	34.58	2.63
176.1	2.3	13.12	30.04	1.86
94.9	23.5	8.9	38.79	2.41
153.1	36.8	5.95	25.17	1.62
142.4	23	5.02	20.88	1.37
139.3	23.3	4.26	17.34	1.17
142.7	6.5	5.26	21.99	1.44
165.8	3.5	5	20.78	1.37
134.6	3.5	4.96	20.6	1.41
98.1	5	5.72	19.69	1.5
90	3	5.97	19.29	1.34
132.6	2.5	4.89	15.27	1.2
99.2	1	5.49	16.45	1.4

880

94	1.5	5.69	15.08	1.55
73.5	5.5	6.75	17.73	1.38
124.7	16	7.94	21.3	1.62
91.3	62	8.41	19.8	1.3
69.8	4	10.02	21.61	1.31
161.1	2	9.11	21.39	1.54
117.1	0	9.46	22.83	1.69
122.8	48.5	0.36	0.34	0.39
126.7	24	0.13	0.12	0.12
102.1	4	0.17	0.17	0.21
127.6	6	0.11	0.14	0.12
55	16	0.14	0.14	0.16
67.1	16	0.17	0.15	0.19
46.6	182.8	0.07	0.16	0.12
66.7	14.5	0.25	0.14	0.28
126.8	15	0.08	0.07	0.09
131.2	6	0.12	0.16	0.07
101.3	34.5	0.16	0.36	0.25
51.5	47	0.11	0.1	0.13
53.1	115	0.09	0.14	0.13
88.7	8	0.11	0.27	0.14
88.4	14	0.1	0.16	0.08
81.5	79.5	0.11	0.12	0.13
107.4	25.5	0.17	0.53	0.1
71.5	69.5	0.1	0.15	0.19
50.2	0	0.13	0.18	0.12
76.3	0	0.08	0.13	0.12
84.5	0	0.08	0.32	0.12
87	0	0.15	0.17	0.29
68.7	0.5	0.09	0.18	0.14
67.9	9.5	0.07	0.15	0.09
79	34.5	0.15	0.33	0.09
83.9	17	0.13	0.28	0.12
91	115	0.06	0.17	0.2
52.5	60.5	0.15	0.16	0.17
70.8	106.5	0.14	0.07	0.14
59.5	75	0.05	0.02	0.01
72	18	0.07	0.1	0.39
103.2	10	0.09	0.32	0.25
89	1.5	4.45	0.61	3.16
55.7	21	0.17	3.47	0.12
88.4	13.5	0.54	0.57	2.97
63.2	10	4.41	0.06	0.04
72.3	0	2.07	3.79	9.55
73.5	4	0.9	2.97	9.07
44.7	1.5	3.91	9.7	1.13
89	1	16.55	18.8	2.88
97.8	4	9.3	19.14	2.56
49.3	17.5	5.38	11.65	2.67
45.9	11	11.79	17.65	2.78
65.9	5	5.4	10.07	13.63
98.4	2.5	4.16	7.5	8.31

881

116.5	9.5	8.37	22.47	4.95
102.8	7	12.32	27.57	9.42
54.4	41.5	14.92	33.85	12.7
94.9	2.5	8.73	16.36	9.32
95	0.5	20.61	38.32	17.16
70	8	18.89	23.1	4.65
37	3	31.66	25.66	3.57
69.1	10.5	18.23	22	13.45
75.8	13.5	10.78	14.74	8.31
54.6	58.5	13.06	13.56	16.08
52.6	30.5	7.52	22.65	6.42
34.7	164	1.31	3.59	19.11
20.7	116.5	0.86	2.08	0.47
29.6	161	1.35	2.53	0.66
98.6	34	1.04	2.4	2.35
70.1	0	0.44	0.77	0.34
55	3.5	1.18	2.44	0.91
102.7	31	1.14	1.91	0.94
13.8	31.5	0.73	2.72	0.68
77.2	7	0.48	0.67	0.38
99.1	4.5	0.48	2.64	0.52
39.7	9.5	0.28	1.65	0.71
58.6	11	3.13	5.42	0.92
110.3	1	6.74	20.97	6.17
69.9	0	9.4	15.51	1.91
82.7	1	9.6	15.95	2.05
49.3	6.5	4.74	14.16	1.18
54.6	21	7.07	11.92	2.51
85.4	4.5	1.6	4.52	0.76
125.7	16.5	0.17	0.07	0.13
66.8	10	0.18	0.56	0.17
101.7	8	0.31	0.24	0.23
72.3	6	0.25	0.34	0.12
122.9	0.5	0.21	0.29	0.14
129.9	0	0.26	0.69	0.25
97.8	0.5	0.28	0.47	0.31
63.5	5.5	0.45	0.57	0.47
117.6	0	0.22	0.37	0.21
131.4	2.5	0.14	0.38	0.14
117	97.5	0.09	0.25	0.13
120.5	0	0.16	0.06	0.1
110.8	0	0.44	0.31	0.08
119.9	0	0.22	0.08	0.07
111.5	0	0.08	0.13	0.06
87.1	0	0.45	0.57	0.07
98.3	0	0.24	0.97	0.08
84.4	0	0.23	1.67	0.08
74	0	0.35	1.06	0.06
68.3	0	0.17	0.5	0.13
48	0	0.3	1.19	0.19
113.7	0	0.21	0.96	0.08
103	0	0.78	1.82	0.03

882

109.6	0	0.32	1.87	0.15
68.4	0	0.38	0.77	0.12
105.6	0	0.14	0.28	0.08
98	0	0.11	0.28	0.08
89.1	0	0.14	0.31	0.11
51.4	26	0.61	1.16	0.14
87.7	2.5	0.12	0.42	0.12
92.7	0	0.22	0.29	0.15
88.6	0	0.31	0.5	0.13
84.1	5	0.42	0.4	0.12
102.6	0	0.23	0.46	0.13
51	0	0.48	0.8	0.11
80.7	0	0.53	0.7	0.07
89.4	0	0.41	0.76	0.11
95.7	0	0.5	0.9	0.19
94.4	0	0.61	0.9	0.2
92.8	0	0.26	0.62	0.13
86.7	0	0.98	0.64	0.14
84.9	0	0.86	0.89	0.26
83.3	0	0.76	0.6	0.66
63.8	0	0.61	0.67	0.63
64.9	0	0.81	0.49	0.38
47.2	0	0.85	0.48	0.3
67.6	0	0.84	0.54	0.26
72.9	0	0.82	0.48	0.25
71.9	0	0.71	0.77	0.23
58.7	0	0.69	0.75	0.41
64.3	0	0.76	1.45	0.32
65.5	0	0.83	1.22	0.3
66.7	0	0.84	1.07	0.28
61	0	0.83	1.12	0.32
60.4	0	0.77	1.05	0.25
61	0	1.05	0.97	0.39
61	0	0.61	1.06	0.37
63.8	0	0.7	0.97	0.33
59.6	0	0.81	1	0.28
59.4	0	0.68	1.24	0.44
61.1	0	1.65	1.64	0.47
55.5	0	1.97	1.69	0.27
54.9	0	1.85	2.91	0.2
56.7	0	1.27	1.26	0.21
61.7	0	1.28	1.06	0.14
58.9	0	1.55	1.5	0.28
63.2	0	2.14	1.59	0.24
64.7	0	1.42	1.38	0.19
61.9	0	1.39	1.31	0.22
60	0	1.62	1.64	0.27
58.2	0	1.46	0.79	0.28
48.9	0	1.62	1.71	0.31
50	0	1.09	3.04	0.39
52.6	0	1.17	0.89	0.4
52.1	0	1.25	0.9	0.4

883

42.5	0	1.07	1.09	0.32
44.6	0	0.6	0.63	0.36
47.3	0	1.27	1.52	0.39
46.5	0	1.1	0.98	0.39
46.8	0	1.65	1.14	0.35
46.3	0	1.11	1.11	0.31
43.2	0	1.24	2.08	0.34
35.9	0	1.09	2.25	0.3
36.9	0	0.97	2.61	0.32
38.3	0	0.95	2.37	0.29
38.1	0	0.94	1.67	0.29
35.5	0	0.7	1.95	0.28
36.4	0	1.03	1.84	0.29
38.5	0	0.74	0.9	0.29
39.2	0	0.52	0.96	0.31
34	0	0.51	1.52	0.3
35.3	0	0.58	1.18	0.29
33.9	0	0.56	1.57	0.28
36.1	0	0.8	1.81	0.25
34.7	0	1.08	1.94	0.34
34.9	0	0.69	1.33	0.33
34.7	0	0.91	2.08	0.33
30.8	0	0.79	2.25	0.44
33.3	0	1.22	2.87	0.3
34.5	0	1.26	3.3	0.33
33.1	0	1.77	2.94	0.33
31.8	0	1.53	2.69	0.3
33.7	0	1.4	2.17	0.35
30.1	0	1.01	2.81	0.29
29	0	1	1.63	0.34
31.1	0	0.74	1.4	0.3
29	0	0.72	1.4	0.27
31.6	0	0.79	2.59	0.36
28.7	0	0.65	1.29	0.4
27.9	0	0.8	0.63	0.3
31.1	0	0.57	0.71	0.28
32.9	0	0.93	2.14	0.35
33.9	0	1.26	1.54	0.29
32.8	0	1.04	2.73	0.31
33.3	0	1.4	3.42	0.33
34.2	0	1.12	2.17	0.35
35.4	0	1.19	0.83	0.39
35.9	0	1.27	0.99	0.32
34.8	0	1.13	1.3	0.34
41.2	0	0.89	1.96	0.35
40.2	0	0.74	1.04	0.32
42.3	0	1.5	1.72	0.29
40.4	0	1.38	2.01	0.33
39	0	0.98	2.56	0.39
41.7	0	0.65	1.17	0.37
42	0	0.69	0.9	0.33
43.7	0	0.52	0.81	0.32

884

35.8	0	0.65	1.32	0.42
46.4	0	0.55	0.82	0.36
48.6	0	1.18	0.97	0.37
40.2	0	0.74	1.12	0.3
47	0	0.54	0.73	0.49
43.2	0	0.72	1.19	0.33
40.7	0	0.57	0.73	0.36
48.2	0	0.74	0.95	0.4
44.5	0	0.87	1.33	0.38
50.9	0	0.91	1.05	0.42
57.4	0	0.66	0.97	0.39
50.4	0	0.81	1.26	0.37
50.6	0	0.82	2.53	0.38
56.4	0	0.55	0.75	0.34
58.8	0	0.6	1.09	0.35
56.4	0	0.75	1.86	0.44
58.4	0	0.82	1.77	0.36
63.4	0	0.71	0.75	0.41
64.8	0	0.89	1.04	0.37
72.6	0	0.73	1	0.34
75.8	0	0.78	0.92	0.43
75	0	0.7	0.98	0.43
72.4	0	0.86	1.26	0.41
72.3	0	0.97	1.98	0.39
66.4	0	0.97	3.22	0.41
74.3	0	0.86	2.03	0.39
77.2	0	0.93	0.77	0.44
81.4	0	0.89	1.06	0.32
84.1	0	0.54	1.43	0.26
84.6	0	1.02	1.4	0.31
76.7	0	1.28	2.05	0.39
79.1	0	1.06	2.37	0.34
78.8	0	0.82	2.19	0.31
82	0	0.93	1.5	0.31
78.5	0	0.86	1.55	0.4
102.6	0	0.6	0.93	0.33
98.5	0	0.68	1.33	0.3
92.3	0	0.55	1.08	0.27
88.8	0	0.84	1.21	0.32
96.8	0	1.37	2.12	0.36
78.1	0	0.53	0.68	0.38
81.2	0	0.66	0.88	0.32
93.2	0	0.6	0.9	0.4
83.6	0	0.68	0.72	0.42
93.1	0	0.69	1.26	0.41
104.8	0	0.87	1.13	0.56
102.1	0	0.64	1.36	0.48
106.1	0	0.68	0.84	0.5
111.4	0	0.64	0.64	0.39
103.5	0	0.56	0.65	0.52
109.1	0	0.48	0.7	0.48
107.9	0	0.78	1.18	0.4

885

112.7	0	1.42	2.15	0.43
168.3	0	0.85	0.98	0.31
127.2	0	0.99	1.09	0.31
119.4	0	1.02	1.64	0.4
111.1	0	1.07	2.01	0.49
124.6	0	0.57	0.89	0.62
165.7	0	0.95	1	0.49
180	0	0.78	0.73	0.43
220.4	0	0.72	0.7	0.61
138.4	0	0.57	0.65	0.39
117.9	0	0.46	0.47	0.35
130.5	0	0.6	0.69	0.37
131.5	0	0.67	0.86	0.51
128.3	0	0.62	0.79	0.44
134.4	0	1.02	1.42	0.5
124.9	0	0.66	0.89	0.43
121.5	0	0.69	1.09	0.41
120.1	0	0.9	0.85	0.59
125.4	0	0.84	1.3	0.48
122.9	0	0.67	0.8	0.48
93.7	0	0.76	0.62	0.45
109.7	0	0.63	0.78	0.52
83.1	0	1.01	1.07	0.59
83.8	0	0.69	1.05	0.61
103.5	0	0.57	0.6	0.55
144.9	0	0.67	0.52	0.41
155	0	0.74	0.93	0.67
155.7	0	0.58	0.58	0.4
64.9	0	1.04	0.44	0.52
95.9	0	0.68	0.56	0.6
99.3	0	0.78	0.73	0.61
97.4	0	0.7	0.69	0.56
101.4	0	0.68	0.72	0.57
102.2	0	0.56	0.64	0.72
103.9	0	0.61	0.67	0.53
113.9	0	0.77	0.73	0.63
107.4	0	0.81	0.81	0.66
99.8	0	0.69	0.73	0.64
98.3	0	0.61	0.75	0.6
75.5	0	0.69	0.67	0.52
89	0	0.65	0.67	0.63
109.7	0	0.61	0.55	0.46
107.8	0	0.55	0.58	0.4
134.7	0	0.56	0.54	0.41
116.1	0	0.57	0.53	0.4
107.4	0	0.6	0.56	0.43
130.6	0	0.6	0.56	0.43
137.5	0	0.6	0.5	0.29
155.9	0	0.64	0.75	0.49
157.5	0	0.45	0.41	0.28
160.7	0	0.45	0.39	0.27
155.3	0	0.41	0.62	0.34

886

157.7	0	0.59	0.63	0.33
151.5	0	0.64	0.81	0.54
143.6	0	0.7	0.77	0.47
144.7	0	0.69	0.72	0.5
138.2	0	0.69	0.74	0.5
152.8	0	0.75	0.58	0.53
149.9	0	0.73	0.72	0.52
146.2	0	0.88	0.9	0.57
153.1	0	0.87	0.9	0.51
158.9	0	0.7	0.63	0.7
148.9	0	0.67	0.61	0.56
152.8	0	0.87	0.69	0.55
148.8	0	0.77	0.71	0.69
143.2	0	0.72	0.68	0.6
156.3	0	0.79	0.87	0.78
157	0	0.82	0.65	0.62
152	0	1.13	0.82	0.73
125.1	0	0.89	0.59	0.51
123.5	0	1.05	1.02	1.12
143	0	1.04	0.74	0.72
119.6	0	0.88	0.96	0.89
133.6	0	0.86	0.86	0.94
124.8	0	1.03	0.97	0.9
127.2	0	1.09	1.04	1
134.7	0	0.92	0.95	0.78
126.8	0	1	1.18	0.87
115.4	0	0.94	0.81	0.79
118.3	0	0.78	0.87	0.67
123	0	0.78	0.92	0.71
127	0	1.17	1.06	0.63
116	0	0.94	1.01	0.61
118.6	0	0.91	0.89	0.7
122	0	0.74	0.84	0.77
125.2	0	0.93	0.87	0.94
110.9	0	0.86	0.87	0.78
29.4	0	0.79	0.92	0.81
105.1	1	0.66	0.96	0.64
91.2	0	0.68	0.87	0.54
112	0	0.53	0.79	0.45
67.5	16.8	0.66	0.84	0.64
125.1	1.5	0.77	0.86	0.65
103.6	13.3	0.69	0.82	0.6
124.8	0	0.66	0.82	0.69
130.9	9	0.79	0.76	0.66
102.8	0	0.78	0.54	0.87
108.8	0	0.82	0.59	0.83
86.4	66.1	0.69	0.58	0.6
70.3	1	0.85	0.52	0.82
92	0	0.89	0.53	0.76
91.2	10	0.85	0.46	0.82
113.3	0	0.79	0.43	0.8
104.9	2.5	0.88	0.42	0.99

887

115.9	2.5	0.89	0.6	0.8
75.7	8.5	0.89	0.43	0.89
112.3	1	0.98	0.61	0.92
111.4	9.1	0.85	0.29	0.85
114.7	9	0.98	0.47	0.93
60.2	51.5	1.05	0.51	0.89
74.7	0	0.91	0.46	0.79
73	21	0.94	0.51	1.05
66.8	9	1.16	0.81	1.1
75.3	23	1.09	0.69	0.89
51.6	74	0.83	0.43	0.82
39.2	110	0.88	0.44	0.86
81.6	120	0.9	0.42	0.87
94.2	0	0.63	0.57	0.7
115.3	28	0.46	0.9	0.57
117.2	27.5	0.46	0.83	0.46
106.9	118.5	1.07	0.93	0.69
89.7	109	0.92	1.19	1.2
77.4	157	0.82	1.35	0.74
65	117	0.86	1.13	0.87
68.1	150	0.61	0.96	0.73
99.4	30	0.68	1.41	1.21
77.3	11	0.91	1.51	1.56
78.7	14	0.7	1.18	1.07
92.8	101.5	0.76	0.99	0.56
51.5	151.5	0.62	0.91	0.55
54.6	71.5	1.16	1.22	1.03
61.2	15.5	0.93	1.21	0.91
68.5	9	0.9	1.11	1.17
62.4	10	0.9	1.23	1.35
62.9	7.5	1.02	1.36	1.04
45.2	33	0.84	1.46	0.86
62.2	13	1.09	1.6	0.86
44.1	104.5	1.73	1.48	1.21
82.6	0	1.15	1.24	1.21
48.4	100	0.37	0.39	0.68
48.8	40	0.5	0.7	0.67
75.2	182.5	0.67	0.64	0.46
36.1	79.5	0.61	0.51	0.83
91.9	17	0.47	0.46	0.57
58.3	0	0.53	0.52	0.65
61.2	2.5	0.51	0.49	0.63
53.5	10	0.63	0.42	0.66
51.6	0	0.69	0.61	0.66
47.2	18.3	0.55	0.6	0.58
59.3	7.5	0.34	0.31	0.33
96.5	5	0.37	0.37	0.39
61.8	4	0.36	0.37	0.36
69.8	10.5	0.36	0.37	0.37
56.4	5	0.38	0.39	0.39
35.8	6.5	0.39	0.38	0.37
68.5	6.5	0.37	0.38	0.39

888

55.5	1.5	0.38	0.37	0.39
69	0.5	0.42	0.4	0.37
107	0	0.38	0.29	0.19
107.5	0	0.26	0.22	0.12
79.7	74	0.59	0.92	0.65
55.2	14.5	0.65	0.62	0.8
83.6	10.5	0.46	0.75	0.36
83.8	15	0.58	0.44	0.28
73.7	24.5	0.4	0.39	0.33
117.3	0	0.4	0.39	0.24
116.6	2.5	0.57	0.63	0.44
104.6	60.5	0.75	0.4	0.72
70.4	71	0.75	1.04	0.63
39.7	59.9	0.93	0.61	0.66
55	25.8	1.08	0.98	0.84
57.9	23.5	0.88	0.82	0.65
64.7	9	0.85	0.77	0.71
78.8	4	1.14	1.09	0.72
48.8	15.5	0.69	0.6	0.58
63.3	19.5	0.64	0.5	0.51
13.3	187.9	0.67	0.59	0.48
20.2	39.5	0.63	0.59	0.46
32.3	14.5	0.56	0.52	0.43
32.5	21	0.54	0.42	0.38
26.9	1.9	0.64	0.5	0.46
26.8	1.5	0.57	0.49	0.43
25	25	0.44	0.37	0.34
24.4	12.5	0.55	0.45	0.42
18.4	36	0.55	0.47	0.41
31	17	0.56	0.47	0.43
30	11.5	0.67	0.56	0.5
25.4	16.5	0.61	0.52	0.47
27.1	13.5	0.62	0.52	0.47
25.4	4.5	0.5	0.42	0.39
53.6	0	0.52	0.44	0.4
71	4.5	0.7	0.58	0.52
78	21.5	1.03	0.85	0.76
59.1	21.5	1.08	0.9	0.8
53.7	21.5	1.14	0.94	0.84
48.3	7.5	1.09	0.9	0.8
63.5	5.5	0.96	0.79	0.71
73.2	7	0.98	0.81	0.73
73.1	5.5	0.91	0.76	0.68
61.1	0	1.1	0.91	0.82
80.1	0	1.19	0.99	0.88
86.8	0	1.11	0.92	0.82
82.3	0	1.31	1.08	0.95
102.8	0	1.8	1.49	1.31
86.9	10.5	1.3	1.07	0.95
104.1	4.5	1.02	0.84	0.75
92	21.5	0.66	0.55	0.5
69.3	17.5	0.79	0.66	0.59

889

80.9	13	0.98	0.81	0.72
93.9	16.5	1.04	0.86	0.77
122.9	39.5	0.75	0.62	0.56
148.3	9	1.4	1.16	1.03
130.4	10.5	0.97	0.81	0.73
106.8	5.5	0.91	0.79	0.69
106.3	0	1.21	1.06	0.88
109.8	0	1.02	0.96	0.75
107.9	0	1.08	0.97	0.85
103.1	0	0.85	0.8	0.7
93.5	0	0.76	0.7	0.51
95	0	0.81	0.68	0.56
89.8	0	0.81	0.72	0.53
96.8	0	0.82	0.69	0.61
96	0	0.81	0.72	0.6
80.9	0	0.82	0.72	0.63
57.5	0	0.75	0.65	0.59
57.3	0	0.73	0.68	0.57
63.51	5.5	0.96	0.79	0.71
73.21	7	0.98	0.81	0.73
40.4	0	0.25	0.35	0.24
102.6	0	1.45	1.33	1.31
74.9	0	1.39	1.18	0.86
59.4	0	1.41	1.12	0.89
92.2	0	1.45	0.89	0.81
145	0	1.1	1.06	0.79
135.9	0	1.01	0.74	0.62
114.4	0	0.92	0.77	0.6
129	0	0.82	0.83	0.65
113.3	0	0.83	0.78	0.6
106.6	0	0.56	0.47	0.36
113.6	0	0.61	0.47	0.4
117.1	0	0.54	0.42	0.45
114.7	0	0.45	0.36	0.37
109.5	0	0.45	0.38	0.46
103.7	0	0.44	0.4	0.45
112.4	0	0.66	0.53	0.62
103.9	0	0.99	0.74	0.84
100.5	0	0.88	0.67	0.77
87.9	0	0.88	0.71	0.79
95.8	0	0.94	0.7	0.8
87.8	0	0.91	0.68	0.78
100.7	0	0.74	0.56	0.66
105.1	0	0.69	0.52	0.62
107.8	0	0.75	0.56	0.66
108	0	0.7	0.53	0.63
106	0	0.68	0.51	0.61
102.8	0	0.83	0.62	0.72
124.4	0	0.77	0.58	0.67
107.7	0	0.81	0.61	0.71
108.8	0	0.91	0.68	0.78
118.4	0	1.04	0.77	0.87

118.1	0	1.05	0.79	0.89
115.4	0	1.01	0.76	0.86
121.2	0	0.96	0.72	0.82
112.6	0	1.06	0.79	0.89
102.2	0	0.93	0.7	0.8
111.9	0	0.93	0.7	0.8
125.6	0	1.06	0.79	0.89
107	0	0.98	0.73	0.83
131.4	0	0.98	0.73	0.83
133	0	0.91	0.68	0.78
178.4	0	0.96	0.71	0.81
179.2	0	1.08	0.81	0.91
164.1	0	1.15	0.86	0.96
113.8	0	1.1	0.82	0.92
164	0	0.96	0.72	0.82
216.4	0	0.86	0.64	0.74
111.9	0	0.83	0.62	0.72
119.8	0	0.54	0.42	0.53
103.3	0	0.59	0.52	0.6
133.1	0	0.2	0.79	0.13
136.3	0	0.14	0.66	0.15
138.6	0	0.35	0.68	0.11
136.6	0	0.38	0.47	0.13
136.4	0	0.17	0.36	0.11
140.9	0	0.22	0.37	0.1
141.1	0	0.32	0.35	0.18
133.8	0	0.34	0.98	0.14
128.8	0	0.6	0.48	0.13
126.4	0	0.3	0.47	0.13
152.6	0	0.32	0.7	0.27
185.6	0	0.61	1.42	0.1
170.3	0	0.35	0.78	0.14
150.2	0	0.68	1.53	0.17
129.2	0	0.78	0.87	0.1
109.8	0	0.55	3.13	0.19
89.2	0	0.19	0.33	0.26
68.62	0	0.26	0.08	0.17
5.79	0	0.21	0.7	0.25
85.3	0	0.3	0.29	0.35
121.6	0	0.46	0.42	0.49
130.1	0	0.41	0.6	0.24
139.7	0	0.48	1.24	0.19
137.1	0	0.42	1.49	0.13
129	0	0.67	1.86	0.25
125.5	0	1.29	1.62	0.33
126	0	0.96	1.12	0.48
124.1	0	1.47	1.1	0.72
126.9	0	1.19	0.87	0.6
128.8	0	1.1	0.8	0.67
126.3	0	1.19	0.85	0.69
124.2	0	1.17	0.84	0.7
107.6	0	1.81	1.49	1.12

891

122.2	0	1.53	1.28	0.96
134.2	0	0.74	0.63	0.46
140.9	0	0.87	0.74	0.55
148.4	0	1.29	1.02	0.75
150.1	0	1.26	1.07	0.83
142.3	0	1.19	1.01	0.75
137	0	1.19	1.01	0.8
140.5	0	1.35	0.92	0.71
136.8	0	1.28	0.98	0.68
129.1	0	1.19	0.96	0.65
130.1	0	1.41	1.11	0.72
141.6	0	1.41	1.07	0.71
143.5	0	0.99	0.8	0.58
140.5	0	0.88	0.72	0.49
135.2	0	1	0.78	0.52
125.8	0	1.03	0.81	0.55
119.7	0	1.09	0.88	0.6
110.3	0	0.97	0.75	0.51
118.9	0	0.83	0.7	0.45
109.1	0	0.66	0.55	0.36
119.8	0	0.74	0.65	0.48
126.8	0	0.99	0.82	0.63
121.2	0	0.85	0.68	0.46
124	0	1.08	0.86	0.55
117.1	0	1.35	1.05	0.67
112.1	0	1.29	1.08	0.69
113.9	0	0.94	0.77	0.52
124.9	0	0.88	0.74	0.54
119.5	0	0.85	0.71	0.48
130.2	0	0.88	0.74	0.52
146.4	0	0.71	0.6	0.43
155.5	0	0.68	0.55	0.39
155.2	0	0.8	0.67	0.45
157.5	0	0.87	0.73	0.51
160.4	0	1.08	0.85	0.55
150.7	0	1.22	0.96	0.63
149.7	0	0.96	0.76	0.5
157.1	0	0.72	0.58	0.37
179.1	0	0.69	0.55	0.35
168.1	0	1.08	0.86	0.55
173.9	0	0.91	0.7	0.48
168.2	0	0.99	0.72	0.53
163.9	0	1.26	0.89	0.64
162.7	0	1.78	1.25	0.89
155.1	0	1.67	1.17	0.84
169.2	0	1.8	1.26	0.9
150.3	0	1.79	1.25	0.89
136.8	0	2.17	1.52	1.09
432.39	845.5	1.63	1.14	0.81
308.4	554.5	2.05	1.43	1.02
184.3	0	1.73	1.25	0.92
185.5	0	2.32	1.63	1.16

892

207.5	0	0.79	0.56	0.4
163.8	0	1.1	0.77	0.55
116.8	0	1.53	1.07	0.77
105.9	0	0.87	0.61	0.43
110.1	0	0.82	0.57	0.41
105.4	0	0.93	0.65	0.47
111.8	0	0.94	0.66	0.47
141.8	0	1.02	0.72	0.51
137.1	0	1.23	0.86	0.61
159.2	0	1.15	0.81	0.58
193.6	0	1.29	0.9	0.64
187.3	0	1.08	0.76	0.54
182.3	0	0.86	0.6	0.43
192.8	0	0.75	0.53	0.38
201.7	0	0.59	0.41	0.3
194.7	0	0.85	0.59	0.42
164.7	0	1.12	0.78	0.56
191.9	0	0.7	0.49	0.35
217.7	0	0.71	0.5	0.36
217.6	0	0.81	0.56	0.4
211.7	0	1.3	0.91	0.65
130	0	0.93	0.65	0.5
107.5	0	0.96	0.7	0.54
152	0	0.77	0.39	0.28
131	0	0.74	0.52	0.37
113.7	0	0.93	0.65	0.46
114.8	0	1.08	0.75	0.54
114.1	0	1.03	0.72	0.51
114.8	0	1.04	0.73	0.52
116.8	0	0.9	0.63	0.45
111.6	0	0.91	0.64	0.46
102.1	0	2.21	1.44	1.21
100.3	0	1.29	0.77	0.64
105.5	0	0.73	0.44	0.29
102.8	0	0.7	0.42	0.28
105	0	0.7	0.42	0.28
112.5	0	0.56	0.33	0.22
101	0	0.62	0.37	0.25
117.8	0	0.5	0.3	0.2
101.8	0	0.46	0.27	0.18
235	0	0.45	0.27	0.18
229.6	0	0.39	0.23	0.15
232.7	0	0.35	0.21	0.14
221.6	0	0.44	0.26	0.17
211	0	0.56	0.34	0.22
202.3	0	0.55	0.33	0.22
203.7	0	0.54	0.33	0.22
216.2	0	0.63	0.38	0.25
224.8	0	0.77	0.46	0.31
235.8	0	0.56	0.33	0.22
203.2	0	0.39	0.23	0.16
193.4	0	0.39	0.23	0.16

893

194.6	0	0.42	0.25	0.17
185.3	0	0.67	0.4	0.27
<Samp	<Samp	0.42	0.26	0.17
169.5	0	0.4	0.24	0.16
212.5	0	0.44	0.27	0.18
218.3	0	0.49	0.29	0.19
206.6	0	0.5	0.3	0.2
199.8	0	0.59	0.36	0.24
205.3	0	0.66	0.39	0.26
216.3	0	0.67	0.4	0.27
202.1	0	0.5	0.3	0.2
170.1	0	0.85	0.51	0.34
180.5	0	0.7	0.42	0.28
174.7	0	0.49	0.29	0.19
170.6	0	0.45	0.27	0.18
156	0	0.47	0.28	0.19
151.9	0	0.43	0.26	0.17
174.2	0	0.44	0.26	0.18
168.9	0	0.49	0.29	0.19
162.5	0	0.51	0.31	0.21
163.5	0	0.44	0.26	0.17
158.6	0	0.34	0.2	0.13
166	0	0.32	0.19	0.13
166.3	0	0.29	0.17	0.11
156	0	0.21	0.13	0.09
155.9	0	0.16	0.1	0.06
151.9	0	0.2	0.12	0.08
160.8	0	0.24	0.15	0.1
163.2	0	0.36	0.22	0.14
153.2	0	0.73	0.44	0.29
160	0	0.47	0.29	0.19
156.7	0	0.44	0.26	0.18
150.6	0	0.29	0.18	0.12
131.4	0.5	0.34	0.2	0.14
141.5	84	0.27	0.16	0.11
109.4	0	0.37	0.22	0.15
152.3	0	0.29	0.17	0.12
82.2	43.5	0.26	0.16	0.1
129.8	59	0.21	0.13	0.08
76.9	208	0.16	0.1	0.06
78.1	87	0.22	0.13	0.09
111.6	2	0.76	0.46	0.3
82.7	106	0.8	0.48	0.32
90.2	88.5	0.63	0.38	0.25
56.6	183	0.45	0.27	0.18
74.8	58	0.34	0.21	0.14
31.2	245.5	0.13	0.08	0.05
81.3	-69.5	0.13	0.08	0.05
53	121.5	0.17	0.1	0.07
161.8	54	0.31	0.19	0.12
115.3	0	0.33	0.2	0.13
116.2	5.5	0.38	0.23	0.15

894

143.6	95	0.3	0.18	0.12
76.9	107.5	0.28	0.17	0.11
35.8	128.5	0.26	0.16	0.11
32.5	101.5	0.27	0.16	0.11
248	1400.1	0.27	0.16	0.11
127.8	12.5	0.25	0.15	0.1
144.4	8.5	0.27	0.17	0.12
<Samp	<Samp	0.26	0.17	0.12
RS232	RS232	0.32	0.2	0.14
RS232	RS232	0.34	0.22	0.16
<Samp	<Samp	0.32	0.23	0.17
44.7	100.5	0.59	0.46	0.37
54.8	21	0.81	0.6	0.48
96.6	70.5	0.51	0.3	0.16
46.7	5	0.75	0.38	0.2
77.4	113	0.76	0.38	0.2
42	321	0.84	0.38	0.21
94.8	12.5	0.78	0.32	0.19
20.6	57	0.81	0.32	0.19
40.8	28	0.83	0.33	0.2
27.04	201.5	0.88	0.35	0.21
52.2	75	0.9	0.36	0.22
98.4	97.5	0.94	0.38	0.23
163.9	0	0.84	0.39	0.23
329.7	647.2	0.8	0.41	0.25
283.5	<Samp	0.75	0.39	0.23
35.2	533	0.77	0.4	0.24
29.8	102.5	0.8	0.41	0.25
35.8	230	0.82	0.42	0.25
87.7	92	0.83	0.43	0.26
140.5	85	0.8	0.41	0.25
69.2	195.5	0.84	0.43	0.26
103.8	21.5	0.84	0.43	0.26
102.3	65.5	0.9	0.47	0.28
<Samp	496.5	0.9	0.47	0.28
RS232	<Samp	0.82	0.42	0.25
RS232	RS232	0.84	0.44	0.26
RS232	<Samp	0.89	0.46	0.28
RS232	RS232	0.85	0.44	0.26
RS232	RS232	0.9	0.47	0.28
RS232	RS232	0.94	0.49	0.29
RS232	RS232	0.87	0.45	0.27
RS232	RS232	0.92	0.48	0.29
RS232	RS232	0.97	0.5	0.3
RS232	RS232	0.97	0.5	0.3
RS232	RS232	0.98	0.51	0.3
RS232	RS232	0.99	0.51	0.31
<Samp	<Samp	0.92	0.43	0.42
90.7	104	0.68	0.18	0.73
112.8	99.5	0.57	0.14	0.85
153.5	5	0.57	0.14	0.85
142.5	100.5	0.59	0.14	0.87

895

47.7	100.5	0.61	0.15	0.91
113.1	7	0.61	0.15	0.91
142.2	4	0.6	0.15	0.9
127	97	0.6	0.15	0.9
<Samp	208	0.61	0.15	0.91
0.4	81	0.63	0.16	0.94
42.8	99.5	0.62	0.15	0.93
137.3	0	0.62	0.15	0.93
199.8	0	0.62	0.15	0.93
196.1	0	0.64	0.16	0.96
144.4	0	0.63	0.16	0.94
93.4	0	0.6	0.15	0.9
48.8	0	0.61	0.15	0.91
55.73	12.5	0.63	0.16	0.94
150.4	87.52	4.15	1.49	0
190.3	99.5	0.68	0.79	0.02
202.4	-792.5	0.86	0.8	0
184.9	1.5	0.65	0.87	0.06
108.4	0.5	1.19	3.49	0.03
212	0	1.25	4.36	0.02
211.7	0	0.81	3.41	0.05
194.6	0	0.51	0.88	0.04
215	0.5	1.65	5.08	0.02
188.7	0	2.62	3.24	0.01
207	0	1.32	1.24	0.03
195.7	2	0.87	1.52	0.01
100.1	0	1.2	4.57	0.02
48.7	1	0.92	5.26	0.02
118.4	1	1.82	6.38	0.13
158.6	0.5	1.48	5.2	0.1
189.9	0	0.97	4.54	0.19
147	0	2.07	6.38	0.1
103.1	5	1.65	5.62	0.09
114.3	26.5	1.06	2.9	0.05
113.6	9.5	0.91	3.1	0.07
68.9	34	0.78	3.99	0.05
102.6	4.5	0.4	1.92	0.05
45.9	34.5	1.43	4.87	0.11
143.4	0	2.83	4.26	0.06
164.5	0	0.62	1.38	0.08
180.6	0	0.1	0.57	0.06
91.6	0	0.07	0.64	0.04
33.8	13	0.23	1.24	0.04
115.5	2.5	1.34	2.86	0.1
154.7	5.5	2.11	3.67	0.03
143.2	1	3.35	4.46	0.06
154.2	0	1.89	3.38	0.04
158	0	0.9	1.61	0.05
163.4	0	0.13	0.81	0.04
185.3	0	0.21	0.74	0.05
141.2	0	0.71	1.98	0.03
160.6	0	1.41	4.46	0.01

896

126.9	0	2.09	5.83	0.02
119.6	0	1.85	4.21	0.03
175	0	2.65	2.09	0.03
89	0	0.92	2.04	0.02
159.1	0	0.87	3.09	0.04
151.5	0	0.35	1.02	0.04
179.9	0	0.77	2.06	0.03
126.9	67.5	1.71	4	0.02
90.7	0	1.54	3.58	0.06
156.4	38.5	2.64	5.73	0.06
105.7	8	0.78	2.15	0.05
67.8	1	2.91	9.55	0.01
106.1	0	1.84	10.19	0.01
107	5.5	2.88	7.99	0.1
137.7	0	2.6	11.35	0.03
156.1	0	1.51	8.19	0.04
139.6	0	2.51	10.39	0.02
147.9	0	2.15	8.13	0.15
159.5	0	2.35	10.71	0.04
152.3	0	1.32	6.68	0.39
116.8	0	1.23	5.77	0.21
144.5	0	2.56	10.19	0.02
121.9	0	2.33	4.81	0.06
126.1	0	1.15	2.55	0.1
103.5	2	0.83	2.98	0.1
100.1	0	1.71	6.08	0.13
115.5	0	2.57	9.53	0.19
116.1	0	3.35	12.29	0.31
106.6	0	3.48	11.3	0.19
104.9	0	2.12	8.34	0.08
108.9	0	1.99	6.89	0.11
102.9	0	1.59	5.09	0.15
98.2	0	1.41	5.22	0.29
94.2	0	1.94	5.92	0.5
93.6	0	0.98	3.35	0.05
86.3	0	2.29	7.25	0.02
87.8	0	2.69	8.71	0.01
91.9	0	1.88	6.21	0.08
87.2	0	2.07	6.83	0.15
78.2	0	2.73	8.62	0.2
78.6	0	3	9.55	0.26
75.9	0	4.05	11.76	0.07
79.8	0	3.73	10.56	0.24
81.7	0	1.9	7.15	0.18
81.1	0	2.01	6.38	0.33
65.3	0	2.06	4.93	0.19
63.1	0	2.68	7.82	0.55
67.2	0	2.79	9.31	1.38
60.1	0	3.67	11.55	3.07
61.2	0	3.4	10.46	1.87
56.2	0	2.58	7.17	0.85
58.9	0	3.56	8.11	0.05

897

56.5	0	2.26	2.9	0.1
53.3	0	2.3	5.53	0.12
56.2	0	1.57	6.3	0.06
52.3	0	3.12	10.31	0.07
54.1	0	1.58	5.13	0.16
58.3	0	5.98	12.9	0.08
58	0	9.96	10.11	2.34
54.3	0	10.94	14.03	0.38
52.4	0	6.13	8.39	1.27
56.9	0	2.36	8.39	0.58
53	0	1.66	6.01	0.47
50.2	0	1.89	6.91	0.56
48.3	0	1.87	6.99	0.55
50.4	0	2.28	7.14	1
49.9	0	2.15	7.85	0.38
47.2	0	2.85	11.21	0.22
46.3	66.6	4.99	12.1	1.76
48.2	0	1.98	7.96	0.54
47	0	1.45	5.46	0.16
46.5	0	2.54	8.81	0.41
44.5	0	3.01	9.51	0.75
44.1	0	2.52	8.66	1.75
43.3	0	3.09	11.69	1.68
41.4	0	3.15	10.17	2.19
37.4	0	3.55	11.68	5.97
36.7	0	1.66	6.45	3.58
38.2	0	2.04	7.44	1.25
36.7	0	2	7.55	2.22
38.3	0	2.34	8.62	1.52
38.1	0	1.57	6.16	0.48
37.6	0	1.79	5.82	0.57
35.7	0	2.13	7.37	0.95
38.2	0	1.29	4.85	0.62
34.7	0	0.97	3.18	0.31
33.1	0	1.54	4.98	0.42
37.1	0	1.19	4.24	1.04
37.3	0	1.13	4.4	0.61
32	0	1.76	4.88	0.35
30.8	0	1.9	6.31	0.61
32.2	0	1.9	7.75	2.08
36.9	0	1.24	3.83	0.96
37.9	0	0.77	2.84	0.22
47.4	0	1.46	4.95	0.51
48.7	0	2.05	8.52	0.44
48.2	0	1.64	6.79	1.33
53	0	0.63	1.85	0.23
53.9	0	0.83	3.56	0.57
59.9	0	0.54	1.98	0.37
52.8	0	1.64	4.92	0.56
55.6	0	1.23	3.51	0.69
54.5	0	0.77	2.14	0.43
55.5	0	0.7	3.1	0.4

55.5	0	0.96	2.87	0.38
59.2	0	1.11	3.41	0.4
63.8	0	1	3.82	0.17
57.1	0	1.14	3.53	1.01
47.2	0	2.16	4.75	0.43
41.2	0	0.94	3.97	0.47
75	0	0.87	3.98	0.81
<Samp	<Samp	<Samp	<Samp	<Samp
58.2	0	0.73	1.86	0.75
52.9	0	1.63	5.26	3.65
59.4	0	1.54	5.18	3.11
62.8	0	1.57	4.38	2.75
52.4	0	0.5	1.25	0.53
55.5	0	1.32	3.37	2.38
46.3	25.4	1.9	5.13	4.06
69.9	0	1.79	5.08	4.42
71.9	0	2.84	7.39	5.26
72.6	0	1.21	2.69	2.03
67.2	36.5	1.53	3.72	2.86
65.8	0	1.06	2.11	1.28
74.5	0	2.06	4.34	3.58
89.6	0	1.21	2.72	2.29
102.3	0	0.71	2.59	1.04
107.5	0	0.34	0.6	0.42
119.7	0	0.27	0.52	0.23
108.5	275	0.49	0.8	0.49
121	0	0.38	0.68	0.44
123.4	0	0.48	0.91	0.84
84.2	0	0.87	1.45	1.31
124.2	0	0.14	0.21	0.38
65.3	0	0.74	1.56	1.42
125.1	0	1.01	1.95	1.93
131.7	56.7	0.46	0.88	0.46
141.4	0	0.56	1.13	0.89
153.6	25831.5	1.23	2.15	1.83
199.7	59556.4	1.95	2.14	2.18
138.1	4400.8	1.01	0.53	0.21
152.7	4729.2	0.37	0.68	0.41
142.3	521.1	0.23	0.45	0.14
129.3	8303.2	1.33	1.66	3.05
137.9	16248.4	1.56	2	2.43
128.9	24229.7	0.3	0.41	0.37
150.8	0	0.16	0.17	1.61
153	0	0.05	0.1	0.15
152.3	0	0.28	0.47	0.54
158.7	40.8	0.48	0.68	0.85
144.1	0	0.66	1.17	0.86
143.3	0	1.19	2.1	2.02
148.2	0	1.2	2.06	1.89
126.3	0	2.24	0.84	0.38
119.9	0	0.44	0.56	0.44
132.7	0	0.7	1.16	1.22

899

140.8	0	0.68	1.15	0.79
150.8	0	0.26	0.47	0.24
162.2	0	0.56	1.05	0.75
156.4	0	0.55	1.07	0.81
139	0	2.43	4.25	3.5
148.2	0	1.38	2.87	2.36
151	0	1.81	4.47	3.75
155.9	0	1.17	2.14	2.2
152	0	0.52	0.48	0.21
160.7	2141.7	0.22	0.43	1.04
161.5	0	0.87	1.68	1.41
163.1	0	0.55	1.1	0.87
182	21	0.22	0.6	0.3
221.2	0	0.05	0.14	0.33
199.5	0	0.12	0.31	0.76
181.4	0	0.14	0.2	0.12
188.8	1090	0.09	0.23	0.13
183.3	2251.6	0.19	0.31	0.16
181.8	639.1	0.15	0.25	0.44
173.9	1262.1	0.05	0.2	0.32
178.2	4313	0.1	0.28	0.23
168.7	28382.2	0.1	0.22	0.2
171.3	0	0.07	0.08	0.15
187.8	1117.3	0.07	0.11	0.23
188.1	4933.8	0.05	0.11	0.11
192.1	0	0.2	0.33	0.11
179	0	0.66	0.95	0.33
163	0	0.75	1.02	0.37
123.9	0	1.17	0.92	0.59
80.1	0	0.62	0.81	0.31
164.8	0	0.33	1.12	0.17
181.3	0	0.35	1.13	0.18
189.7	0	0.37	1.11	0.18
196.6	0	0.3	0.72	0.15
203.4	0	0.28	0.72	0.14
192.2	0	0.41	0.85	0.21
189.8	0	0.25	0.63	0.13
180.2	0	0.3	0.59	0.15
172.3	0	0.26	0.63	0.13
152.2	0	0.25	0.49	0.12
177.7	0	0.35	0.45	0.18
197.2	0	0.27	0.58	0.13
190.1	0	0.26	0.74	0.13
183	0	1.77	5.81	0.37
166.3	0	2.1	6.02	0.25
172.9	0	2.9	8.79	0.24
186.4	0	2.38	4.17	0.18
182.4	0	0.74	2.08	0.16
190.1	0	0.45	2.93	0.26
179.5	0	1.18	1.49	0.16
0	219.64	1.46	0.17	0.22
0	73.13	1.65	0.19	0.2

900

1.43	271.76	1.61	0.16	0.16
0	40.59	0.9	0.24	0.17
0	32.28	0.43	0.28	0.18
0	37.16	2.07	0.14	0.11
0	59.45	2.52	0.19	0.18
0	22.37	1.15	0.24	0.19
0	41.52	1.52	0.16	0.13
0	414.27	6.2	0.31	0.7
0	265.13	2.16	0.12	0.19
0	187.72	0.99	0.3	0.23
0	73.53	1.37	0.4	0.26
0	25.77	0.42	0.17	0.15
0	112.22	2.16	0.59	0.99
0	23.75	0.48	0.16	0.08
0	16.66	0.23	0.14	0.1
0	18.46	0.46	0.26	0.09
0	20.79	0.46	0.18	0.16
0	26.79	1.13	0.13	0.16
0	25.95	0.4	0.22	0.11
0	21.81	0.41	0.22	0.2
0	24.07	0.33	0.18	0.11
0	24.47	0.16	0.19	0.19
0	22.82	0.22	0.19	0.15
0	20.98	0.2	0.13	0.09
0	29.26	0.96	0.1	0.14
0	63.87	1.05	0.19	0.15
0	23.04	0.39	0.21	0.2
0	34.73	1.67	0.06	0.1
0	193.59	1.36	0.14	0.26
0	34.83	0.67	0.1	0.11
0	18.77	0.44	0.15	0.23
0	47.15	0.4	0.2	0.16
0	40	0.39	0.23	0.1
0	25.42	0.36	0.14	0.2
0	21.86	0.29	0.12	0.1
0.07	57.01	0.64	0.14	0.15
0	27.36	0.62	0.21	0.09
0	22.11	0.42	0.17	0.31
0	26.43	0.28	0.17	0.11
0	25.57	0.25	0.23	0.13
0	19.53	0.59	0.17	0.08
0	131.12	1.43	0.09	0.13
0	30.84	1.59	0.18	0.25
0.07	134.1	1.39	0.1	0.14
0.02	82.15	1.42	0.14	0.28
0.11	24	0.19	0.22	0.11
0.24	81.49	0.2	0.27	0.23
0.24	175.67	2.37	0.1	0.37
0.16	161.43	0.74	0.09	0.15
0.01	26.42	1.32	0.18	0.14
0.02	37.6	0.3	0.12	0.1
0	40.63	0.18	0.2	0.16

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0	115.59	0.15	0.1	0.17
0	62.19	0.56	0.12	0.19
0	39.53	0.13	0.05	0.09
0	18.4	0.21	0.14	0.12
0	15.54	0.4	0.11	0.16
0	10.3	0.18	0.12	0.1
0	33.31	1.02	0.1	0.14
0	32.19	0.29	0.15	0.22
0	18.05	0.17	0.22	0.11
0	13.28	0.29	0.09	0.16
0	26.71	0.43	0.12	0.11
69.81	3.92	0.18	5.81	2.92
31.77	276.63	4.99	11.7	2.1
16.47	643.55	10.77	0.2	0.15
0.95	2346.19	12.51	4.21	7.64
0	18.86	0.38	0.12	0.07
40.46	505.03	13.94	1.11	3.17
38.63	280.97	5.72	0.31	1.31
26.83	792.26	9.84	0.32	1.09
16.42	224.91	4.76	0.19	0.46
19.03	66.35	0.89	0.15	0.23
38.24	362.53	8.69	0.29	1.16
68.21	328.21	21.53	0.45	1.89
0.14	7.81	0.14	0.09	0.08
2.67	148.78	4.58	0.25	0.56
2.02	19.83	0.65	0.16	0.33
0.85	20.42	0.22	0.17	0.21
1.54	30.09	0.44	0.21	0.27
0.04	20.64	0.29	0.16	0.17
0.63	23.17	0.41	0.17	0.17
4.51	37.51	0.26	0.39	0.18
0.64	36.37	0.37	0.15	0.39
5.4	53.27	0.77	0.15	0.24
1.59	20.47	0.57	0.14	0.39
1.01	41.94	0.76	0.24	0.27
0	39.85	1.11	0.19	0.33
0.36	29	1.1	0.17	0.4
2.04	25.92	0.76	0.16	0.25
0.99	22.33	0.8	0.36	0.29
1.26	30.85	0.74	0.17	0.2
3.54	45.3	0.48	0.2	0.26
0.21	31.19	0.6	0.35	0.3
0.26	41.79	0.49	0.26	0.26
0.3	44.18	0.6	0.46	0.27
0.93	27	0.32	0.31	0.46
0.14	32.13	0.48	0.25	0.25
0.23	23.2	0.23	0.25	0.19
0.13	25.15	0.37	0.22	0.2
0.14	38.26	0.23	0.33	0.29
0.14	49.24	0.79	0.2	0.26
0.02	27.68	0.45	0.26	0.28
0.03	49.15	0.6	0.25	0.31

902

126.16	2.5	0.5	0.57	0.29
157.21	1	0.5	0.57	0.25
108.05	3.5	0.22	0.25	0.2
119.49	3.5	0.32	0.29	0.1
120.94	0	0.25	0.21	0.08
162.11	5	0.3	0.31	0.12
71.06	10.5	0.96	2.59	0.15
74.75	2.5	0.97	4.84	0.29
48.34	3	0.29	1.79	0.2
115.77	10	0.93	3.5	0.32
44.38	10	5.16	21.78	1.76
142.13	0	5.88	21.06	2.43
120.22	9.43	6.42	21.08	1.69
0.24	274.52	9.18	0.53	1.74
0	84.74	5.25	0.27	0.73
0.46	179.19	5.21	0.35	0.76
0	170.95	4.82	0.34	0.66
0.27	647.48	17.41	1.16	3.32
0.2	214.15	7.44	0.49	1.4
2.27	91.99	2.82	0.25	0.4
1.09	23.02	0.39	0.22	0.21
1.13	11.52	0.68	0.15	0.16
0.74	1770.47	33.49	33.31	33.92
0.38	13.99	0.31	0.12	0.35
0.11	138.76	8.61	0.46	1.2
0.01	34.6	1.08	0.3	0.37
0.06	36.1	0.45	0.16	0.26
0.09	24.43	0.21	0.14	0.16
0.23	27.12	0.67	0.19	0.4
0.06	81.45	1.78	0.2	0.56
0.02	161.84	2.26	0.23	0.54
1.06	25.22	0.63	0.12	0.33
0	64.17	1.89	0.3	0.5
0	299.13	2.66	0.2	0.6
0.21	855.97	5.99	0.39	0.85
0.03	742.21	17.74	1.7	2.45
0.26	450.54	7.9	0.77	1.71
0	1172.89	20.85	1.72	3.84
15.12	812.56	12.34	3.48	1.89
130.57	0	1.48	3.89	0.22
111.33	27	9.28	20.23	1.42
132.42	45	5.79	7.67	0.31
137.67	0	13.32	32.02	3.68
168.5	0	4.51	10.85	1.67
159.44	0	3.15	10.3	0.64
51.1	23	9.12	20.37	1.87
153.9	547.5	10.78	28.38	2.33
153.49	2129	14.55	32.96	2.88
149.63	0	12.8	20.81	2
124.85	0.93	25.44	20.79	1.7
112.59	0	15.1	27.92	1.61
138.02	0	15.5	32.29	2.98

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130	0	14.43	28.33	3.29
113.54	0	12.24	19.7	1.6
37.18	10.19	33.08	72.18	5.86
183.12	0	5.82	16.22	1.21
62.58	0	15.48	32.52	2.39
103.55	0	5.47	13.98	1.42
67.29	0	10.59	21.24	2.15
101.65	0	18.7	30.8	3.8
127.44	0	22.91	33.14	4.12
133.73	0	18.02	36.48	5.96
112.92	0.67	8.48	18.52	2.55
109.11	0	25.76	22.38	2.42
113.99	0	16.25	31.3	4.01
102.55	0	17.05	30.24	7.05
140.43	0	9.11	12.58	2.67
82.1	0	17.91	20.64	4.73
85.72	0	3.68	6.31	3.07
82.68	0	2.93	4.37	1.76
79.16	0	2.63	4.41	1.94
75.25	0	4.73	8.49	1.4
87.88	0	6.74	9.37	0.29
64.37	0	9.1	7.91	1.08
34.98	0	7.67	8.57	1.19
49.67	0	5.94	6.94	0.77
33.33	0	12.17	11.29	1.49
64.63	0	9.24	11.2	1.99
55.14	0	11.25	13.78	2.75
61.9	0	15.12	17.67	3.29
57.78	0	16.49	20.01	3.77
10.94	0	31.95	36.3	6.77
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
25.91	0	5.13	14.31	1.55
64.35	0	9.56	19.39	1.83
68.19	0	5.46	11.4	1.2
56.87	0	6.67	12.03	1.13
51.54	0	11.91	20.57	1.94
2.96	0	5.05	11.69	1.45
43.56	0	6.71	13.18	1.59
24.46	0	6.77	15.46	1.53
20.95	0	6.06	14.34	1.52
NoData	NoData	NoData	NoData	NoData
44.48	0	5.68	11.34	1.15
42.84	0	13.02	20.11	2.21
41.69	0	9.44	14.78	1.68
44.52	0	11.07	21.01	1.96
43.82	0	12.25	21.3	2
60.06	0	4.87	9.45	0.83
51.45	0	7.79	17.14	1.58

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36.15	0	14.89	25.36	2.53
34.25	0	12.75	25.85	2.4
29.7	0	7.17	18.48	2.24
33.59	0	13.22	29.22	3.06
32.58	0	27.62	58.82	5.07
31.17	0	19.96	46.14	6.04
27.46	8.05	18.17	43.76	3.94
38.53	0	7.71	18.67	2.07
26.16	0	10.57	24.62	2.72
26.5	0	2.38	5.88	3.45
37.03	0	0.9	2.44	2.71
23.96	0	1.42	2.89	3.06
33.18	0	2	4.66	3.87
29.89	0	1.02	2.44	2.91
24.39	0	1.59	2.99	3.28
23.92	0	2.09	4.69	4.94
26.25	0	1.77	4.01	4.06
30.09	0	3.68	5.39	0.3
31.51	0	7.12	18.31	0.55
1.62	0	8.74	19.97	0.64
NoData	NoData	NoData	NoData	NoData
2.79	0	10.99	14.15	0.56
32.25	0	9.73	13.06	0.79
45.51	0	9.92	13.22	0.92
30.6	0	8.26	11.79	0.88
36.53	0	7.21	10.88	0.74
44.15	0	10.12	13.39	0.62
26.94	0	10.33	13.58	0.6
27.87	0	10.55	13.77	0.57
26.84	13.28	8.94	12.24	0.65
28.81	0	15.11	26.3	2.84
28.4	0	7.13	17.91	2.03
27.67	0	3.45	11.75	0.94
34.79	0	1.31	6.3	0.49
27.08	0	1.93	7.07	0.49
27.66	0	5.87	17.51	1.42
35.45	0	12.2	34.39	3.65
30.76	0	3.03	9.38	0.43
36.43	0	6.81	11.45	2.23
33.48	0	7.26	15.85	2.11
29.66	0	7.72	20.69	4.04
25.53	0	8.88	28.07	3.41
27.69	0	2.83	12.08	0.83
24.79	0	5.65	18.92	2.16
23.9	0	9.07	30.01	3.55
22.35	0	10.22	36.91	4.29
21.28	0	8.2	28.27	2.48
20.79	0	9.18	32.25	3.65
19.62	0	7.13	22.22	2.77
22.12	0	6.66	21.37	2.21
21.88	0	8.93	27.12	2.36
26.32	0	12.75	39.23	3.89

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23.59	0	12.35	41.4	4.68
24.57	0	7.82	27.91	3.13
25.91	0	7.22	26.2	2.73
25.12	0	10.81	35.86	3.8
27.1	0	6.75	19.13	1.75
24.14	0	5.52	18.44	2.29
20.94	0	6.06	22.24	3.03
36.49	0	4.79	18.74	2.24
28.35	0	1.43	6.57	0.38
35.3	0	3.06	10.8	1.17
30.29	0	5.27	16.51	1.95
32.5	0	1.96	7.25	0.49
30.7	0	1.65	5.75	0.39
31.31	0	2.97	9.81	0.68
30.08	0	3.43	12.93	0.99
16.34	0	4.33	17.57	1.73
30.96	0	4.84	19.12	1.69
28.24	0	12.31	41.82	4.95
31.05	0	3.24	13.37	1.1
31.44	0	9.05	30.37	3.39
33.43	0	18.7	55.24	6.6
34.03	0	26.96	56.21	5.33
33.03	0	11.34	32.29	3.71
36.92	0	4.71	14.47	1.44
36.61	0	2.7	10.81	0.7
36.39	0	5.71	19.02	1.71
36.19	0	5.98	20.05	2.02
36.97	0	10.63	33.66	3.9
36.74	0	7.27	21.64	2.74
38.26	0	5.82	21	2.69
39.28	0	4.25	11.62	0.9
46.52	0	3.29	13.19	1.27
48.73	0	3.28	11.45	0.91
57.33	0	2.3	9.83	0.84
55.6	0	2.8	11	1.01
52.97	0	1.83	7.6	0.81
54.46	0	3.66	15.68	1.59
60.62	0	9.84	35.28	4.73
60.75	0	10.09	28.31	2.89
59.05	0	22.77	48.47	4.75
56.91	0	4.48	11.57	1.09
78.17	0	0.4	2.25	0.25
92.14	0	0.32	2.73	0.19
92.34	0	1.32	4.36	0.28
30.66	0	3.38	6.06	0.16
84.43	0	1.2	2.15	0.14
121.12	1.05	0.65	1.19	0.16
119.57	1.3	2.27	7.06	0.54
127.44	1.25	2.13	8.3	0.47
132.22	1.3	3.09	9.45	0.65
127.61	0.9	22.27	26.73	3.14
100.73	0.7	4.69	13.74	1.28

906

130.44	0.2	0.9	5.62	0.34
127.84	0.8	1.21	5.15	0.33
122.07	0.6	11.52	8.56	0.73
122.32	0	41.24	9.82	0.64
128.35	0	13.9	5.18	0.44
128.52	0	17.1	5.35	0.53
130.03	0	60.57	7.16	0.62
152.33	0	4.07	0.21	0.12
153.76	0	9.55	7.35	1.39
177.4	0	33.52	11.05	2.41
177.5	4.93	33.07	10.66	2.51
154.18	0	37.25	11.4	2.05
158.05	0	24.72	5.81	0.52
143.26	0	31.57	6.89	0.12
44.19	0	0.48	<Samp	<Samp
217.72	0	6.53	8.85	6.86
156.76	0	1	1.97	0.07
159.48	0	3.03	1.47	0.03
156.95	0	0.51	0.14	0.09
156.26	0	0.96	0.33	0.04
153.59	0	1.91	0.19	0.07
149.54	0	2.53	0.14	0.03
173.77	0	0.35	0.06	0.03
192.24	0	0.46	0.19	0.04
195.74	0	3.35	1.4	0.04
191.64	0	1.73	0.24	0.04
195.57	0	2.28	0.25	0.05
191.33	0	1.4	0.33	0.07
140.37	0	0.97	0.11	0.05
186.25	0	0.93	0.06	0.02
174.46	0	2.46	0.28	0.04
164.43	0	0.99	0.1	0.03
152.97	0	0.24	0.07	0.04
167.61	0	0.5	0.07	0.05
162.67	0	4.39	0.1	0.06
195.92	0	0.95	0.07	0.05
183.42	0	0.76	0.07	0.05
155.97	0	5.54	0.66	0.03
184.95	0	2.74	1.16	0.05
170.52	0	36.63	3.82	3.67
176.87	0	1.01	0.11	0.07
195.04	0	4.82	0.22	0.09
192.37	0	1.84	0.37	0.06
169.04	0	1.18	0.21	0.04
198.27	0	2.13	0.11	0.05
166.48	0	1.43	0.1	0.05
201.02	0	1.08	0.06	0.05
224.25	0	3.58	0.15	0.05
216.6	0	1.81	0.1	0.06
163.39	0	5.54	0.37	0.12
189.71	0	3.59	0.76	0.15
206.65	0	9.14	1.13	0.27

907

204.76	0	0.89	0.09	0.07
204.02	0	0.95	0.12	0.04
196.41	0	8.35	0.22	0.06
217.66	0	1.6	0.15	0.05
183.63	0	2.11	0.09	0.05
201.48	0	0.99	0.32	0.04
173.94	0	3.98	0.48	0.05
238.64	0	2.62	0.44	0.04
211.73	0	0.75	0.06	0.02
180.42	0	0.69	0.04	0.03
174.43	0	0.59	0.05	0.04
195.73	0	0.92	0.04	0.03
192.39	0	0.54	0.03	0.04
0.67	0	0.62	0.04	0.05
214.94	0	0.79	0.04	0.03
227.13	0	0.05	0.06	0.03
203.54	0	0.03	0.04	0.03
187.43	0	0.05	0.05	0.03
196.11	0	0.04	0.04	0.03
196.76	0	0.07	0.03	0.04
195.66	0	0.4	0.06	0.03
212.99	0	1.09	0.07	0.05
215.42	0	2.1	0.1	0.05
195.29	0	0.86	0.07	0.04
200.95	0	2.74	0.11	0.08
198.37	0	2.29	0.11	0.09
210.78	0	3.22	0.11	0.13
182.39	0	2.35	0.18	0.12
200.25	0	1.71	0.11	0.06
190.18	0	0.74	0.07	0.03
204.57	0	0.75	0.04	0.04
64	0	0.62	0.04	0.05
182.83	0	0.85	0.06	0.03
205.35	0	0.6	0.06	0.04
231.22	6.78	0.67	0.08	0.05
314.15	0	20.52	1.27	1.27
211.51	0	0.85	0.07	0.04
99.29	0	15.36	0.02	0.06
164.62	0	1.56	0.29	0.06
176.93	0	3.01	0.83	0.02
213.44	0	5.63	0.53	0.04
216.25	0	2.63	0.17	0.03
223.52	0	2.04	0.11	0.03
165.82	0	1.9	0.12	0.03
128.85	0	3.38	0.16	0.04
41.78	0	3.23	0.62	0.03
33.7	0	14.38	1.73	0.03
80.56	0	11.38	1.45	0.01
167.63	0	9.17	0.59	0.02
88.15	1.45	1.41	0.92	0.03
44.92	2.5	7.19	1.69	0.02
5.85	9.75	3.62	0.61	0.03

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48.1	5.35	3.46	0.73	0.03
23.4	5.55	2.25	0.25	0.02
86.49	1.1	0.57	0.06	0.02
15.28	4.55	0.78	0.04	0.04
30.35	0.4	0.71	0.04	0.03
126.83	0.4	0.74	0.08	0.03
137.71	0.45	0.98	0.22	0.03
183.37	0	0.78	0.23	0.04
199.43	0.9	0.77	0.17	0.02
174.99	1.2	2.77	0.55	0.03
155.31	0	43.27	2.52	0.03
173.26	0	1.18	0.45	0.04
198.24	0	2	0.48	0.04
191.64	0	1.1	0.46	0.03
181.95	0	1.16	0.73	0.04
206.1	0	1.06	0.31	0.08
149.9	0	2.1	0.28	0.06
131.69	0	3.41	0.39	0.08
108.94	0	3.79	0.53	0.14
158.47	0	3.72	0.41	0.13
128.41	0	2.72	0.39	0.13
146.52	0	5.38	0.48	0.13
166.56	0	3.96	0.38	0.13
254.97	0	4.28	0.72	0.13
191.94	0	2.17	0.42	0.1
179.61	0	3.02	0.3	0.09
151.36	0	2.98	0.64	0.09
111.93	0	3.75	0.46	0.16
133.25	0	1.93	0.2	0.12
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86.31	0	1.46	0.77	0.05
16.35	0.85	6.72	2.17	0.04
26.77	1.4	4.29	1.28	0.06
67.67	1.25	2.78	1.21	0.07
61.29	1.45	2.03	0.55	0.06
85.38	0.15	1.48	0.71	0.05
127.16	0.7	2.76	0.29	0.09
43.77	1.25	1	0.3	0.05
62.89	2.25	0.96	0.37	0.04
65.15	1.15	1.57	0.48	0.04
90.53	0.3	1.53	0.68	0.05
175.59	0.1	2.71	0.61	0.06
188.52	0.2	1.81	0.53	0.08
183.08	0	3.5	1.2	0.06
103.71	0	1.61	0.86	0.04
95.66	0	1.19	0.68	0.04
44.94	0	2.08	0.98	0.04
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132	0	0.09	0.57	0.05
53.58	0	0.24	1.22	0.04
37.78	0	1.36	3.2	0.08
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909

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30.09	0	0.16	0.52	0.13
98.14	0	0.2	0.36	0.18
42.51	0	0.17	0.62	0.14
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150	0	1.21	4.37	0.72
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910

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108.28	0	3.07	11.16	0.09
93.37	0	1.31	7.02	0.19
113.63	0	5.54	18.89	0.19
136.25	0	5.89	22.08	0.17
135.19	0	2.32	12.65	0.16
141.42	0	3.02	10.28	0.09
131.26	0	3.2	11.58	0.13
139.38	0	1.72	6.07	0.07
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114.21	0	4.46	0.36	0.18
133.46	0	18.18	1.35	0.37
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127.5	0	7.33	19.63	0.53
111.12	0	10.02	24.13	0.43
118	0	10.5	27.28	0.24
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911

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98	0	1.78	5.06	0.09
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91.8	0	2.38	9.7	0.06
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99.2	0	2.87	11.1	0.11
100	0	3.37	11.31	0.14
93.8	0	3.41	10.11	0.19
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95.2	0	1.07	4.66	0.15

912

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106.9	0	1.41	3.63	0.12
113.6	0	0.83	4.01	0.35
97	0	2.3	7.25	0.33
120.9	0	3.56	10.98	0.39
123.5	0	2.94	5.44	0.35
121.3	0	1.17	4.64	0.21
122.2	0	0.88	4.01	0.22
117.2	0	2.14	7.89	0.3
119.3	0	3.72	11.13	0.41
135.2	0	4.01	11.49	0.14
135.7	0	4.78	13.88	0.44
120.5	0	0.8	2.53	0.1
123.5	0	4.37	12.17	0.37
118.6	0	3.99	11.18	0.07
114.4	0	1.73	5.09	0.1
111.9	0	2.08	9.41	1.06
111.6	0	2.57	10.32	0.63
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97.8	0	1.43	5.18	0.1
137.1	0	0.19	0.42	0.08
126.8	0	0.22	1.42	0.08
126.8	0	0.51	1.49	0.06
130.3	0	0.56	1.44	0.07
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124.3	0	0	0	0
127.1	0	0	0	0
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111.8	0	1.21	2.69	1.43
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93.8	0	1.17	2.65	1.39
103.8	0	1.41	2.89	1.63
115.5	0	1.19	2.67	1.41
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913

155.9	0	0.9	2.38	1.12
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167.5	0	0.68	2.16	0.9
161.6	0	0.64	2.12	0.86
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172.3	0	0.58	2.06	0.8
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175.7	0	0.97	2.45	1.19
170.4	0	0.95	2.43	1.17
158.5	0	0.67	2.15	0.89
128.9	0	0.63	2.11	0.85
157.3	0	0.56	2.04	0.78
157.5	0	0.69	2.17	0.91
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160.3	0	0.64	2.12	0.86
160.5	0	0.56	2.04	0.78
160.3	0	0.48	1.96	0.7
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119	0	0.54	2.02	0.76
117.4	0	0.53	2.01	0.75
175.5	0	0.53	2.01	0.75
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154.4	0	0.61	2.09	0.83
153.6	0	0.59	2.07	0.81
168.1	0	0.69	2.17	0.91
164.8	0	0.7	2.18	0.92
175.9	0	0.65	2.13	0.87
178.6	0	0.67	2.15	0.89
180.9	0	0.73	2.21	0.95
186.5	0	0.72	2.2	0.94
171.2	0	0.77	2.25	0.99
195.4	0	0.92	2.4	1.14
171.2	0	0.89	2.37	1.11
170.2	0	0.95	2.43	1.17
117.5	0	0.75	2.23	0.97
166.8	0	0.29	1.77	0.51
183.8	0	0.31	1.79	0.53
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182.9	0	0.6	2.08	0.82
164.5	0	0.53	2.01	0.75
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138.8	0	0.89	2.37	1.11
191.6	0	0.91	2.39	1.13
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222.8	0	0.89	2.37	1.11
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204.8	0	0.91	2.39	1.13
185.8	453.5	0.92	2.4	1.14
206	1.5	0.92	2.4	1.14
209.2	0	0.9	2.38	1.12
194.5	10	0.91	2.39	1.13

915

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919

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72.6	0	2.27	5.46	0.45
69.2	0	2.34	7.37	0.58
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105.6	0	1.69	5.43	0.45
104.4	0	2.24	6.85	0.56
136	0	1.04	2.12	0.15
106.7	0	0.48	1.71	0.14
108.1	0	0.3	1.04	0.07
104	1653.9	0.44	1.16	0.08
111.3	4508.6	1.07	3.05	0.25
112.1	0	0.94	3.02	0.24
111	0	1.1	3.74	0.29
111.4	0	1.31	4.32	0.38
123.2	0	0.58	1.49	0.14
121.8	0	0.91	2.67	0.24
106.2	0	1.99	5.82	0.51
113.5	0	2.32	8.03	0.76
108.7	0	1.46	5.31	0.49
110.7	0	1.32	5.14	0.43
122	0	1.04	3.33	0.31
122.4	0	1.18	4.09	0.42
117.9	0	3.39	6.12	0.56
120.2	0	1.05	3.29	0.26
125.3	0	0.15	0.53	0.05
127.5	0	0.41	1	0.1
129.9	0	0.63	2.01	0.2
128.9	0	1.34	4.48	0.46
130.5	0	1.34	4.63	0.46
133.9	0	2.28	8.38	0.9
123.2	0	3.69	7.89	0.75
119.8	0	2.9	9.14	0.99
117.9	0	1.6	5.34	0.5
113.9	0	0.97	2.96	0.3
118.1	0	0.48	1.66	0.17
131.5	0	0.58	1.84	0.2

920

127.9	0	0.63	1.72	0.28
126.1	0	0.73	2.35	0.37
122.2	0	0.85	1.49	0.2
122.8	0	0.54	1.79	0.2
123.2	0	0.35	1.23	0.14
126.5	0	0.24	0.49	0.1
143.2	0	0.35	0.45	0.07
133.8	0	0.59	1.34	0.12
131	0	1.97	2.88	0.55
132.5	0	1.35	3.48	0.33
119.4	0	1.89	3.7	0.4
127.8	0	1.4	3.39	0.34
120.4	0	0.79	1.98	0.22
128.1	0	0.31	0.83	0.1
134	0	0.2	0.58	0.07
133.6	0	0.47	0.99	0.09
133.2	0	0.26	0.82	0.07
129.8	0	0.31	0.88	0.08
128.9	0	0.34	1.17	0.13
128.7	0	0.4	1.14	0.1
127.5	0	0.48	1.34	0.17
127.2	0	0.44	1.07	0.09
135.5	0	0.7	2.05	0.23
139.5	0	0.29	0.86	0.07
130.6	0	0.66	0.63	0.05
137.1	0	0.18	0.45	0.04
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102.8	0	0.21	0.57	0.05
151.9	0	0.54	0.66	0.07
160.8	0	0.18	0.55	0.05
149.3	0	0.23	0.45	0.04
158.8	0	0.81	0.67	0.1
150.9	0	0.52	0.91	0.04
162.3	0	0.14	0.51	0.04
170.3	0	0.52	1.26	0.12
157.9	0	0.66	2.07	0.24
143	0	1.56	2.36	0.28
146.2	0	0.54	0.97	0.08
157.9	0	0.56	1.17	0.1
153.7	0	1.33	2.15	0.19
151.5	0	0.47	0.59	0.07
148.7	0	0.95	0.61	0.07
95.5	0	0.39	1.06	0.08
151.8	0	0.2	0.55	0.05
158.6	0	0.19	0.61	0.05
162.7	0	0.12	0.37	0.04
166.1	0	0.12	0.39	0.03
163.1	0	0.23	0.43	0.05
159.1	0	1.1	0.7	0.13
165.5	0	0.66	0.48	0.05
164.4	0	0.12	0.25	0.02
162.7	0	0.15	0.39	0.05

921

168.3	0	0.14	0.44	0.05
170.8	0	0.11	0.39	0.06
146	0	0.18	0.61	0.09
167.2	0	0.33	0.66	0.13
161.1	0	0.26	0.53	0.09
162.8	0	0.11	0.31	0.02
152	0	0.22	0.52	0.04
142.1	0	0.39	0.63	0.07
149.1	0	0.35	0.48	0.05
146.9	0	0.5	0.64	0.06
148.6	0	0.2	0.43	0.04
144.6	0	0.18	0.59	0.04
155.8	0	0.54	0.48	0.05
166.4	0	0.52	0.46	0.04
163.8	0	0.32	0.52	0.04
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142.4	0.5	0.22	0.98	0.05
130.7	0	0.35	1.26	0.14
210	0	0.15	0.31	0.03
221	0	0.09	0.25	0.02
227.2	8.5	0.11	0.31	0.16
228.1	0	0.15	0.32	0.09
237.2	0	0.09	0.26	0.05
218.6	0	0.1	0.26	0.05
244.5	0	0.11	0.32	0.06
242.5	0	0.09	0.2	0.04
213.9	0	0.09	0.29	2.35
221.8	0	0.09	0.27	0.29
234.5	0	0.11	0.29	0.05
223.2	0	0.09	0.2	0.03
290.82	0	0.1	0.27	0.05
215.18	0	0.12	0.34	0.06
191.78	0	0.13	0.28	0.05
203.96	0	0.17	0.31	0.06
274.63	0	0.12	0.3	0.08
218.6	0	0.1	0.25	0.09
198.2	0	0.64	0.48	0.05
224.2	2	0.53	0.65	0.07
217.1	0.5	0.29	0.65	0.05
237.2	0	0.25	0.36	0.04
229.4	1	0.18	0.32	0.03
208	1	0.34	0.37	0.1
158.4	0	0.17	0.48	0.07
144.6	1.5	0.5	0.48	0.03
194.7	61	0.32	0.51	0.08
88.8	11.5	0.32	0.54	0.07
81.9	8	0.53	1.3	0.11
153.3	7.5	0.41	0.88	0.09
130.7	0.5	0.98	1.23	0.12
207.1	2	0.78	0.72	0.07
193.3	1.5	0.5	1.09	0.1
238	0.5	0.51	0.55	0.04

922

216.1	0	0.55	0.57	0.04
239.6	0	0.09	0.28	0.02
198.3	2	0.09	0.33	0.03
214.8	1	0.07	0.29	0.02
139.1	0	0.07	0.26	0.03
137	16.5	0.14	0.43	0.04
306.53	0	0.09	0.32	0.03
137.3	0	0.07	0.27	0.03
34.7	51	0.67	1.2	0.11
100.1	8.5	0.32	0.53	0.1
49.5	107.5	0.1	0.28	0.03
31.3	58	0.06	0.22	0.04
138.7	19.5	0.1	0.26	0.04
138.2	7	0.06	0.24	0.04
92.3	66	0.07	0.28	0.03
128.6	36.5	0.06	0.28	0.09
240.4	13	0.07	0.35	0.08
203.83	45	0.08	0.33	0.07
167.01	0	0.08	0.27	0.05
196.71	6	0.07	0.27	0.04
197.14	192	0.07	0.3	0.06
267.63	74.6	0.07	0.31	0.06
229.8	152.5	0.12	0.38	0.06
158.7	152.5	0.26	0.47	0.1
178.4	12.5	0.07	0.32	0.06
151.4	4.5	0.06	0.27	0.04
100.9	8	0.07	0.34	0.04
77.5	0	0.07	0.32	0.05
50.5	378.1	0.06	0.26	0.06
112.9	219	0.09	0.31	0.12
35.6	364.5	0.12	0.47	0.12
45.8	70.5	0.25	0.74	0.1
96.6	24	0.2	0.65	0.09
85	12	0.07	0.25	0.03
67.5	35.5	0.06	0.21	0.03
71.2	106	0.06	0.25	0.03
91.9	18.5	0.05	0.18	0.02
109.3	9.5	0.06	0.25	0.03
135.3	17.5	0.06	0.25	0.03
93.1	41	0.06	0.26	0.02
75.6	152.5	0.07	0.31	0.02
97.2	0	0.07	0.27	0.02
185.4	1.5	0.07	0.31	0.02
179.6	1	0.06	0.23	0.02
130.3	66.5	0.08	0.32	0.02
138.8	9.5	0.09	0.35	0.04
165.7	1	0.08	0.27	0.03
146.6	21.5	0.08	0.27	0.02
196.4	5	0.08	0.25	0.02
148.8	1	0.07	0.28	0.02
171.9	1	0.06	0.21	0.02
110.6	0	0.12	0.33	0.03

923

163.9	0	0.09	0.31	0.03
167.3	0	0.1	0.32	0.1
121.3	0	0.09	0.36	0.03
224.7	0	0.09	0.32	0.03
219.2	1	0.07	0.3	0.04
143.9	0	0.06	0.21	0.03
69.5	15.5	0.26	0.66	0.07
124.6	0	0.82	2.04	0.44
184.9	0	0.37	2.68	0.28
177.6	0	0.19	1.24	0.15
137.6	0	0.19	1.5	0.21
48.8	7	0.86	8.38	0.89
26.5	0	0.49	3.16	0.32
75.4	0	1.55	6.37	0.65
195	0	1.13	4.17	0.46
204.5	0	0.31	2.29	0.25
215.1	0	0.23	1.75	0.18
41.8	84	0.31	2.49	0.25
114.5	40	0.19	1.6	0.27
104.5	9	0.19	1.46	0.17
47.3	72.5	0.37	3.24	0.37
27.38	273.5	0.12	0.83	0.09
206.94	6	0.27	2.83	0.43
191.5	1.5	0.15	1.3	0.17
168.8	13	0.45	3.24	0.59
162.3	9.5	2.14	3.1	0.36
93.1	14	0.58	2.87	0.33
239.4	0	0.83	3.9	0.56
228.9	0	0.52	1.94	0.39
194.4	0	1.4	2.88	0.34
173.5	0	1.1	4.88	0.77
141.4	0	0.87	4.24	0.5
123.3	0	1.04	7.12	1.06
123.2	0	0.9	7.38	0.93
186.2	0	1.2	6.59	0.73
150.4	0	1.83	9.68	1.15
119.7	0.5	1.41	4.92	0.56
169.8	1	2.02	5.44	0.87
195.11	0	7.24	2.14	0.25
78.55	0	6.45	2.64	0.3
77.4	0	2.54	1.82	0.21
227.09	0	7.18	2.88	0.37
61.3	23.5	2.27	1.95	0.27
16.4	143.5	3.35	3.6	0.39
101.4	5.5	2.5	4.49	0.6
183.1	0	1.63	2.46	0.3
196.5	0	2.46	2.08	0.24
119.1	0	0.91	4	0.52
139.9	0	0.63	2.59	0.32
183.5	0	0.68	2.33	0.32
154.2	0	0.46	1.31	0.12
165	0	0.49	1.3	0.19

924

119.1	8.5	0.62	1.78	0.23
168.3	0	1.04	3.81	0.44
187.2	0	0.45	1.89	0.19
166.7	0	0.55	1.44	0.18
175.3	0	0.79	2.41	0.31
186.7	0	0.96	4.02	0.55
173.9	0	1.2	5.09	0.66
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65.9	6	2.21	6.1	0.95
88.8	0	1.29	4.67	0.59
161.1	0	1	3.12	0.51
133.1	0	1.79	6.35	0.89
82.1	10	1.3	5.89	0.79
116.3	0	1.27	6.3	0.83
110.1	0	1.59	4.78	0.55
145	10	1.33	4.52	0.74
163	0	1.25	5.32	0.76
150.7	0	2.19	8.18	1.31
146.5	0	2.11	5	0.68
107.6	0	2.81	1.89	0.23
150.3	0	7.66	1.92	0.42
130.01	0	1.04	2.58	0.44
173.03	0	1.46	4.76	0.84
164.62	0	1.39	4.9	0.9
158.01	0	1.59	6.01	1.43
129.82	0	2.2	6.4	1.18
205.15	0	1.37	3.37	0.66
200.01	0	1.91	8.35	1.53
204.35	0	1.33	4.24	0.74
129.5	0	1.26	6.12	3.03
135.7	0	1.59	7.07	1.2
127.5	0	1.43	5.46	1.22
130.5	0	1.44	5.23	1
122.7	0	1.77	7.06	1.57
126.7	0	1.2	4.49	0.91
122	0	1.13	4.37	0.83
115.6	0	1.26	5.11	0.99
109.2	0	1.53	5.67	1.18
112.4	0	1.27	5.66	1.19
106.1	0	1.26	6.06	1.25
106.1	0	1.27	5.42	0.93
108.6	0	1.01	4.72	1.15
105	0	2.02	6.74	1.13
93.1	0	1.98	8.58	1.49
222.21	0	1.28	6.05	1.43
173.04	0	1.49	6.41	1.21
93.3	0	1.74	8.4	1.49
98.3	0	1.65	7.66	1.49
104.9	0	1.38	7.13	1.59

925

64.5	0	1.68	7.17	1.56
94	0	1.67	7.65	1.54
86.7	0	1.45	6.17	1.24
105.5	0	1.52	7.5	1.25
102.8	0	1.38	5.68	0.91
96.7	0	1.33	5.16	0.84
96.6	0	1.43	6.66	1.23
97.6	0	1.33	5.34	0.97
102.4	0	1.96	8.63	1.56
94.3	0	1.71	7.42	1.36
95	0	1.54	6.62	1.15
81.3	0	1.35	6.07	1.17
96	0	1.27	5.4	1.07
85.5	0	1.21	5.51	1.06
80.7	0	0.92	3.66	0.69
15.7	38	<Samp	<Samp	<Samp
64.1	1	0.42	0.95	0.59
94.5	138.5	0.43	1.49	0.64
99	0	0.42	1.47	0.63
91.4	0	0.52	1.72	0.64
91.9	0	0.61	1.99	0.68
97.9	0	0.5	1.63	0.56
106.3	0	0.53	1.71	0.58
105.4	0	0.55	1.78	0.6
97.1	0	0.63	2.03	0.69
89.6	0	1.94	4.17	1.89
87.4	0	2.77	8.76	2.99
88.6	0	2.59	11.89	1.8
74.7	0	1.81	9.82	1.65
86.3	0	1.56	8.12	1.26
97.9	0	2.39	13.58	1.99
93.5	0	2.24	10.17	1.56
79.6	0	2.83	12.63	2.26
90.2	0	2.19	9.41	1.28
82.7	0	3.63	14.64	2.01
79.9	0	3.53	14.36	2.22
85.3	0	2.65	11.79	1.74
83.3	0	2.25	10.52	1.42
85.3	0	2.79	12.8	1.84
82.9	0	3.28	14.04	2.04
79.1	0	3.02	13.16	1.96
78.3	0	3.43	14.31	2.3
82.1	0	2.73	8.64	1.19
81.7	0	2.86	10.56	1.64
76.8	0	2.96	11.9	1.81
77	0	3.24	12	1.81
80.2	0	1.94	8	1.07
91.8	0	2.19	10.52	1.48
107.2	0	1.48	6.79	0.89
87.1	0	1.71	7.03	0.82
87.8	0	1.86	8.42	1.22
89.1	0	2.29	10.99	1.87

926

88.8	0	2.23	9.6	1.38
75.9	0	2.28	10.5	1.59
88.8	0	1.96	8.43	1.22
83.8	0	2.9	11.8	1.74
72.8	0	3.58	15.35	2.01
75.2	0	2.83	12.73	1.99
103.9	0	2.18	10.88	1.69
84.7	40.2	1.77	8.96	1.26
97.7	0	1.99	9.94	2.54
93.7	0	1.56	7.11	1.2
107.5	0	1.9	9.6	1.54
96.4	0	1.83	7.91	1.82
95.9	0	0.89	3.06	0.36
102.4	0	0.9	3.96	0.5
99.9	0	1.68	6.89	1.04
70.7	0	2.12	8.98	1.06
83.6	0	1.24	6.44	1.37
119.1	0	1.02	5.86	1.35
116.1	0	1.89	7.54	1.07
115.4	0	2.04	9.58	1.49
105.7	0	2.25	11.17	2.43
119.6	0	2.68	11.42	2.25
155.2	0	1.86	8.1	1
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113.8	0	1.67	7.44	1.05
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75.6	0	1.68	6.34	1.07
110.9	0	1.97	6.34	1.27
153.9	0	0.77	3.28	0.62
129.4	0	1.26	5.69	1.25
145.3	0	0.61	2.94	0.38
149.5	0	0.67	2.8	0.36
142.8	0	0.93	4.11	0.99
72.9	0	1.42	7.37	3.16
129	0	0.8	3.02	0.46
144.2	0	1.28	5.79	0.81
138.9	0	1.31	5.75	0.81
140	0	1.28	5.74	0.81
143.8	0	1.69	6.77	0.96
134	0	1.57	7.13	1.16
136.1	0	1.18	5.03	1
131	0	2.18	9	1.21
139.3	0	1.57	5.49	0.88
115.5	0	2.06	10.1	1.37
132.6	0	2	8.62	1.37
141.2	0	2.96	9	1.24
141.2	0	3.54	13.28	2.13
143	0	3.58	12.05	2.46
118.7	0	3.23	10.62	2.6
116.1	0	2.83	7.2	1.39
128.2	0	2.65	6.57	1.1

927

131.1	0	1.36	3.35	0.41
150.4	0	0.96	3.42	0.41
148	0	1.04	5.11	0.66
139.2	0	0.65	3	0.39
157.5	0	0.96	3.78	0.56
159	0	0.91	4.37	0.61
155.6	0	0.54	2.09	0.19
168.5	0	0.99	3.95	0.63
176.2	0	1.19	4.52	0.65
163.1	0	1.11	3.24	0.46
142	0	1.07	1.44	0.73
36.2	0	0.59	2.89	1.29
132.7	0	0.94	5.91	0.97
144.5	0	0.69	4.47	0.77
152	0	0.39	1.74	0.2
183.1	0	0.4	1.46	0.16
195	0	0.42	1.82	0.22
197.4	0	0.25	1.21	0.16
205.1	0	0.26	1.39	0.23
192.5	0	0.39	2.13	0.28
198.2	0	0.47	2.8	0.4
170.8	0	1.01	5.25	0.73
165.1	0	1.22	6.63	1.03
198.7	0	0.37	1.46	0.2
178.7	0	0.75	1.42	0.17
197.2	0	0.52	1.4	0.15
195.9	0	0.58	1.26	0.24
186.7	0	0.73	1.12	0.17
191.1	0	1.23	2.08	0.38
188.1	0	0.35	0.72	0.32
195.1	0	0.16	1.33	0.25
191.8	0	0.16	1.18	0.18
187	0	0.16	1.01	0.13
174	0	0.23	1.15	0.19
193.5	0	0.22	1.49	0.2
211.2	0	0.52	2.25	0.3
217.1	0	0.33	1.94	0.58
207	0	1.9	2.74	2.8
186.3	0	0.2	1.21	0.27
206.1	0	0.18	0.95	0.12
218.3	0	0.13	1.06	0.15
227.6	0	0.18	1	0.12
198.4	0	0.14	0.86	0.11
194.5	0	0.34	2.64	0.24
192.8	0	2.07	2.36	2.11
195.5	0	0.22	1.12	0.15
213.9	0	0.26	3.42	1.95
226.5	0	0.23	2.3	1.26
86.27	0	0.24	1.63	0.42
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NoData	NoData	NoData	NoData	NoData
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928

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216.2	0	0.2	0.75	0.19
211.3	0	0.14	0.64	0.25
206.9	0	0.16	0.67	0.24
227.1	0	0.18	0.64	0.19
204.8	0	0.32	0.62	0.19
224.5	0	0.32	0.77	0.17
218.3	0	0.24	0.79	0.18
219.8	0	0.47	0.67	0.13
199.3	0	0.27	0.78	0.15
208.5	0	0.14	0.65	0.15
209.9	0	0.31	0.71	0.16
215.4	0	0.36	0.81	0.16
222.5	0	0.42	0.77	0.15
201.4	0	0.34	0.65	0.14
213	0	0.37	0.57	0.16
215.5	0	0.25	0.5	0.1
202.5	0	0.63	0.95	0.18
218.9	0	0.37	0.46	0.09
200	0	0.48	0.51	0.09
201.8	0	0.46	0.53	0.08
197	0	0.5	0.5	0.07
189.4	0	0.56	0.52	0.07
213.2	0	0.49	0.56	0.12
212.5	0	0.36	0.67	0.11
206.1	0	0.58	0.44	0.07
179.5	0	0.57	0.64	0.1
100.2	0	0.38	0.56	0.1
195.5	0	0.51	0.53	0.07
160.9	0	0.6	0.6	0.07
203	0	0.31	0.52	0.11
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201.4	0	0.26	0.39	0.71
177.2	0	0.35	0.4	0.06
201.9	0	0.43	0.42	0.04
193.1	0	0.37	0.55	0.06
199.5	0	0.22	0.48	0.1
208	26	0.49	0.82	0.1
149.6	0	0.4	1.47	0.22
177.4	24	0.69	1.05	0.12
129.6	0	0.45	2.22	0.26
196	0	0.44	0.82	0.08
44.8	30	0.51	1.48	0.16
170.8	8.5	0.65	2.08	0.17
31.1	65578.5	0.7	2.22	0.26
145.5	4.5	0.3	0.54	0.05
177.5	1	0.33	0.45	0.03
149.5	0	0.27	0.52	0.11
196.9	0	0.4	0.47	0.1
211.4	2	0.43	0.64	0.16
219.2	3.5	0.26	0.67	0.07

929

136.6	12	0.66	1.71	0.2
78.8	3	0.6	1.43	0.18
129.1	1	1.05	1.58	0.15
184.5	1	0.79	1.59	0.25
150.8	0.5	0.54	1.19	0.16
176.3	0	0.45	0.48	0.08
124.8	1	0.62	0.55	0.05
45.6	23.9	0.71	1.25	0.13
49.2	6	0.5	0.85	0.1
22.1	8.5	0.38	0.47	0.05
116.4	0	0.39	0.48	0.1
186.2	0	0.33	0.47	0.07
63.5	11.5	0.75	2.44	0.35
95.9	2	0.82	2.08	0.26
193.6	0	0.87	1.87	0.18
174.7	0	0.7	1.37	0.12
106.9	3	0.5	1.03	0.12
39.9	12	0.53	1.45	0.15
103.4	5	0.25	0.43	0.11
106.6	2	0.5	0.51	0.06
112.6	1	0.43	0.48	0.05
36.7	1	0.39	0.89	0.1
40.2	18.5	0.56	1.42	0.16
32.5	49.5	0.98	2.26	0.26
37	8	0.72	0.78	0.07
87.3	4.5	0.44	0.47	0.07
93.9	0	0.56	0.49	0.07
74.6	1	0.46	0.53	0.05
82.7	1	0.98	0.54	0.12
41.7	31.5	0.47	0.41	0.08
62.1	7	0.48	0.7	0.07
61.7	0	0.54	0.7	0.08
136.5	2	0.62	0.76	0.09
137.7	0	0.76	0.79	0.09
79.6	1	0.69	0.75	0.09
71.2	1	0.67	0.76	0.09
61.2	1	0.65	0.59	0.09
51.1	4	0.34	0.74	0.1
73.4	0	0.61	0.68	0.09
143.5	0	0.55	0.57	0.07
72.1	0	0.58	0.64	0.08
71.7	0	0.53	0.51	0.06
152.1	0	0.41	0.54	0.07
133.6	0	0.44	0.49	0.07
148.7	0	0.63	2.3	0.09
140.9	0	0.39	1.24	0.07
133.2	1	0.46	0.58	0.07
135.9	0	1.01	0.47	0.35
107.7	0	0.34	0.54	0.12
96.1	4	0.26	0.54	0.09
126.1	3.5	0.32	0.41	0.09
77.7	0	0.37	0.46	0.06

930

105.9	0	0.4	0.44	0.06
104.7	0	0.28	0.44	0.07
48.7	0	0.21	0.54	0.09
126.9	0.5	0.31	0.59	0.08
81.3	6.5	0.3	0.6	0.08
80.1	0	0.31	0.55	0.1
59.4	2.5	0.39	0.52	0.08
120.2	0	0.33	0.58	0.07
75.2	0	0.3	0.51	0.1
46.9	0	0.44	0.46	0.08
67.6	4	0.37	0.48	0.09
85.4	2	0.33	0.56	0.11
141.9	1	0.33	0.5	0.1
67.9	3	0.33	0.62	0.1
49.7	1	0.34	0.69	0.13
90.6	3	0.38	0.54	0.11
144.7	2	0.27	0.56	0.12
153.6	0	0.25	0.58	0.11
116.9	1	0.29	0.66	0.11
120.5	1	0.5	0.57	0.11
120.8	0	0.55	1.26	0.19
97.5	6	0.33	1.11	0.16
150.6	0	0.3	0.74	0.13
160.2	1	0.47	0.76	0.11
177.5	2.5	0.35	0.79	0.12
166.2	8.5	0.29	0.77	0.14
112.5	2	0.42	0.64	0.11
139	3.5	0.29	0.66	0.09
155.6	2	0.42	0.73	0.16
180.2	0	0.38	0.74	0.13
205.1	0	0.29	0.7	0.11
149.5	0	0.43	0.93	0.14
207.6	0	0.38	0.88	0.13
165.8	0	0.98	1.22	0.18
154.5	0	1.29	1.42	0.21
191.5	0	<Samp	<Samp	<Samp
197.7	0	0.76	2.18	0.35
168.7	0	0.84	2.01	0.26
82.1	5.5	1.1	2.79	0.4
182.7	0	1.9	3.97	0.6
116.8	3	1.43	3.88	0.64
193.9	0	0.89	2.74	0.44
181.8	0.5	0.79	3.05	0.46
72.2	5	0.56	1.8	0.25
128.1	0	0.91	3.41	0.48
149.2	0	1.33	5.49	0.73
95.7	0	0.55	1.37	0.19
161.3	0	0.57	1.34	0.19
125.4	0	1.18	2.19	0.29
182.8	0	0.61	2.43	0.4
182.9	0	0.65	2.25	0.34
131.1	0	0.93	2.73	0.39

931

148.6	1.5	2.18	4.92	0.77
91.7	0	1.41	5.26	0.87
158.7	0	1.65	6.44	1.25
167	0	2.02	5.69	0.97
154	0	1.48	4.76	0.77
138.1	0	1.82	4.77	0.73
144	0	1.61	5.64	1.1
122.2	0	1.71	5.41	1
164.3	0	1.51	5.24	0.9
157.2	0	1.01	3.89	0.7
141.6	0	2.09	3.32	0.58
119.5	0	1.74	3.33	0.56
121.7	0	0.96	2.81	0.55
134	0	0.77	2.06	0.45
136.4	0	0.96	2.97	0.55
129.3	0	1.8	4.34	0.75
135.9	0	2.45	6.71	1.3
140.4	0	1.93	6.56	1.2
141.3	0	2.25	6.93	1.43
113.6	0	3.09	4.75	0.77
103.64	0	2.65	3.14	0.51
187.76	0	0.67	2.03	1.63
133.8	0	0.99	2.37	0.86
127.1	0	1.08	2.64	1.03
131.8	0	1	2.67	0.99
143.1	0	1.22	4.54	1.15
148.1	0	1.25	5.24	1.34
126.5	0	1.4	6.22	1.45
130.4	0	1.24	3.52	0.99
116.5	0	2.1	6.18	1.48
151	0	1.42	4.45	1.22
137.1	0	1.07	3.24	0.78
138	0	1.02	2.97	0.62
135.2	0	1.02	3.33	0.92
131.6	0	<Samp	<Samp	<Samp
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117.4	0	1.74	4.16	0.9
113.7	0	2.56	7.29	1.57
119.5	0	2.59	5.97	1.21
118.8	0	3.27	5.96	1.44
107.7	0	3.37	6.68	1.63
105.8	0	3.81	8.62	1.71
107.9	0	3.26	8.25	1.34
106.3	0	3.18	7.41	1.15
93.6	0	3.06	6.72	1.11
94	0	2.69	6.64	1.3
96.7	0	2.93	7.15	1.22
97.2	0	2.86	7.08	1.18
95.4	0	3.38	8.8	1.62
96.4	0	3.26	9.28	1.78

932

4.42	0	<Samp	<Samp	<Samp
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83.7	0	3.23	8.31	1.92
81.6	0	2.37	5.39	8.01
93.7	0	2.96	5.84	1.55
86	0	1.49	5.75	1.34
79.8	0	2.09	7.36	1.47
80	0	2.03	8.42	1.41
85.8	0	1.5	7.01	1.31
88	0	2.25	6.98	1.15
84.6	0	2.16	7.52	1.3
85.8	0	2.12	6.5	1.08
79.2	0	2.33	8.12	1.45
74.7	0	2.66	7.31	1.29
72.3	0	2.22	6.5	1.12
84.6	0	1.89	6.15	1.11
74.1	0	2.16	7.46	1.49
80	0	1.84	5.79	1.19
75.8	0	1.8	6.36	1.83
79.7	0	1.74	5.63	1.31
80.9	0	1.99	6.22	1.47
78.9	0	1.37	4.15	0.97
80.6	0	1.32	3.62	0.76
71.7	0	1.32	4.97	1.12
76.2	0	1.46	4.38	0.99
72.6	0	1.08	3.25	0.79
67.3	0	1.02	2.93	0.76
77.6	0	0.95	2.64	0.76
68.5	0	1.02	2.7	0.69
68.7	0	0.96	2.95	0.69
74.9	0	1.45	4.64	0.92
73.4	0	1.18	3.46	0.69
69.1	0	1.7	4.31	0.59
69.3	0	2.51	6.95	1.03
66.7	0	1.91	5.18	0.87
63.6	0	2.19	5.61	0.99
61.7	0	1.85	5.3	1.2
64.4	0	1.57	4.66	1
71.8	0	<Samp	<Samp	<Samp
69.1	0	1.49	5.32	1.43
66.7	0	1.5	5.05	1.37
68.2	0	1.85	5.88	1.55
60.8	0	2.17	7.11	1.84
63.3	0	2.77	8.24	1.89
60.1	0	3.1	9.56	2.02
62	0	4.07	10.88	2.5
62.4	0	3.34	10.58	2.49
63.2	0	2.58	8.52	2.15
23.4	0	2.23	7.15	1.77
60.3	0	1.52	4.42	1.09
63.1	0	2.41	7.48	1.47
61	0	2.59	6.61	1.2

61.3	0	3.22	8.24	1.72
59.4	0	3.04	9.01	1.99
61.4	0	2.57	6.93	1.61
63	0	2.64	7.8	1.82
60.8	0	1.59	5.05	1.22
61.6	0	1.69	5.79	1.34
61.8	0	1.91	6.76	1.51
60.7	0	2.72	8.97	2.18
61.1	0	2.19	7.64	1.75
60.2	0	2.52	7.93	1.85
59	0	3.05	8.36	2.34
62.2	0	1.15	4.26	1.07
63.4	0	1.03	3.26	1
67	0	0.67	2.35	0.91
75	0	0.7	2.38	0.71
79.8	0	0.85	2.5	0.54
79.9	0	0.95	2.08	0.3
77.6	0	0.76	1.85	0.45
79.8	0	1.43	3.08	0.65
81.9	0	1.87	3.47	0.6
78	0	2.2	7.05	1.31
77.5	0	<Samp	<Samp	<Samp
73.2	0	1.63	5.67	1.03
77.2	0	1.97	5.69	0.96
70.2	0	3.44	9.92	1.84
75.8	0	3.12	9.27	1.6
78.3	0	2.84	6.96	1.4
85.1	0	0.96	2.43	0.42
95.1	0	0.58	1.72	0.3
95.4	0	0.7	2.05	0.35
104.5	0	1.32	3.88	0.75
96.7	0	3.1	8.1	1.57
91.5	0	2.9	9.26	1.48
83.1	0	3.36	11.19	2.09
86.6	0	2.19	9.04	1.56
93.9	0	0.92	3.38	0.5
97.5	0	0.88	3.22	0.49
99.1	0	1.58	3.8	0.67
95.9	0	1.72	4.55	0.82
91.4	0	1.31	4.29	0.62
105.6	0	1.36	4.91	0.75
92	0	3.89	8.83	1.54
98.2	0	0.52	2.06	0.37
94.4	0	0.9	3.75	0.6
101.1	0	1.84	6.69	1.08
110.3	0	0.83	3.17	0.45
107.5	0	1.01	3.23	0.59
134.3	0	0.53	1.83	0.33
164.6	0	0.79	2.14	0.46
169.4	0	1.13	3.02	0.55
155.4	0	2.61	5.67	0.95
148.8	0	2.93	7.14	1.29

158.2	0	0.43	1.4	0.29
162.1	0	0.37	1.49	0.26
153.7	0	0.32	1.02	0.19
152.3	0	0.39	1.5	0.26
163.9	0	0.62	2.02	0.42
155.3	0	0.81	2.98	0.41
161.3	0	1.23	4.34	0.36
160.6	0	1.02	4	0.61
157.4	0	0.53	2.15	0.28
157.4	0	0.37	1.36	0.34
155.4	0	0.39	1.34	0.23
156.4	0	0.5	1.84	0.29
158.9	0	0.64	2.07	0.45
149.2	0	1.39	4.6	0.72
144	0	0.9	2.6	0.42
154.2	0	1.16	4.44	0.9
155.7	0	1.48	4.67	0.71
157.4	0	0.85	2.33	0.55
176.2	0	0.39	0.95	0.22
177	0	0.37	1.42	0.3
174.1	0	0.92	3.12	0.45
152.7	0	1.58	5.09	0.77
156.7	0	1.89	6.49	0.72
170.7	0	1.13	3.78	0.45
165.5	0	0.61	1.89	0.34
177.1	0	1.09	1.77	0.3
160.5	0	0.73	2.04	0.33
211.1	0	0.72	1.55	0.25
212.5	0	0.43	1.44	0.21
250.9	0	0.76	1.38	0.2
215.6	0	1.13	1.47	0.2
209	0	0.57	1.33	0.23
207.4	0	0.54	1.49	0.18
206	0	0.59	1.16	0.15
214.7	0	0.56	1.32	0.2
222.3	0	1.01	1.69	0.23
226.9	0	0.44	1.33	0.19
225.4	0	0.59	1.23	0.16
218	0	0.4	1.14	0.17
219.7	0	0.33	1.03	0.19
210.2	0	1.53	1.83	0.3
188.7	0	0.82	2.48	0.44
206.2	0	0.84	1.82	0.29
188.6	0	0.73	1.65	0.2
194.8	0	0.81	1.16	0.21
238.3	0	0.18	0.75	0.1
223.9	0	0.33	1.19	0.2
236.1	0	0.35	1.26	0.17
235.8	0	0.5	1.53	0.21
231.7	0	0.56	1.53	0.22
231.5	0	0.49	1.36	0.21
224.7	0	0.27	1.19	0.18

935

221.4	0	0.19	0.73	0.11
212.9	0	0.19	0.8	0.11
207.5	0	0.24	0.99	0.16
197	0	0.47	1.75	0.27
247.3	0	0.46	0.98	0.23
177.9	0	0.3	0.94	0.16
210.6	0	0.33	1.02	0.18
215.6	0	0.15	0.72	0.12
228.1	0	0.17	0.66	0.14
204.2	0	0.36	0.71	0.14
189.5	0	0.17	0.6	0.06
225.9	0	0.17	0.62	0.08
207.1	0	0.25	0.83	0.12
192.1	0	0.31	0.88	0.12
213.3	0	0.41	0.81	0.09
238.2	0	0.29	0.79	0.09
236.5	0	0.22	0.76	0.07
232.2	0	0.25	0.87	0.14
239.9	0	0.28	0.98	0.18
237.5	0	0.22	0.92	0.2
254.2	0	0.23	0.86	0.16
246.5	0	0.28	0.83	0.12
247.8	0	0.17	0.62	0.13
226.7	0	0.25	0.9	0.14
236.6	0	0.28	1.18	0.18
254.1	0	0.26	1.02	0.15
243.2	0	0.19	0.75	0.12
198.4	0	0.2	0.67	0.1
241.7	0	0.14	0.55	0.07
217.4	0	0.18	0.7	0.13
233.7	0	0.18	0.64	0.12
220.5	0	0.13	0.54	0.1
226.2	0	0.15	0.65	0.1
227.3	0	0.15	0.66	0.07
239.8	0	0.16	0.6	0.08
242	0	0.89	1.6	0.92
227.3	0	0.28	1	0.16
225.7	0	0.23	0.92	0.15
224.1	0	0.24	0.97	0.21
218.1	0	0.24	1.08	0.17
203	0	0.19	1	0.37
171.6	0	0.24	1.39	1.06
204	0	0.3	1.5	1.19
182.6	0	0.3	1.21	1.11
202.9	0	0.34	1.3	1.21
193.1	0	0.35	1.46	1.31
216.6	0	0.34	1.45	1.3
158	10	0.6	2.02	1.11
195	11.5	1	2.65	1.21
107.9	20	1.48	3.7	1.12
158.4	12.5	1.01	2.35	0.73
145.7	17	1.28	2.45	0.66

936

157.4	6	0.89	1.9	0.28
179.2	5.2	0.25	1.19	0.16
200.5	9	0.16	0.9	0.35
120.2	21	0.29	1.42	0.71
155.6	16	0.56	2.07	1.05
206	1	0.24	1.72	1.13
226.2	0	0.25	1.58	1.16
211.4	0	0.27	1.59	1.12
171.7	0	0.28	1.39	1.11
68.7	0	0.45	1.87	1.18
143.3	1	1.14	2.13	1.02
169.4	14	0.51	1.77	1.18
170.6	7	1.07	2.06	1
22.1	143.5	0.22	1.43	0.7
47.4	7	0.27	1.81	0.47
46.6	92	0.44	2.23	0.52
27.2	239	0.5	2.57	0.46
67.8	184	0.85	3.9	0.5
90.9	53	1.72	3.84	0.74
72.1	67	0.73	3.19	0.79
47.6	76.5	0.77	3.73	0.6
44.2	112	0.15	1.39	0.29
59.2	10.8	0.09	1.04	0.25
24.7	80	0.14	1.25	0.27
111.4	21	0.13	1.1	0.22
44.7	2	0.22	1.78	0.26
106.4	0	0.16	1.36	0.21
166.3	0	0.17	1.21	0.24
73	2	0.13	1.31	0.24
120.8	0	0.12	1.37	0.28
136.9	0	0.14	1.32	0.32
111	1	0.12	1.25	0.33
181.4	0	0.15	1.35	0.37
217.5	0	0.18	1.23	0.34
187.1	6	0.32	1.65	0.53
136.1	0	0.5	2.82	0.64
144.8	0	0.62	4.08	0.68
169.8	1	0.84	2	0.51
161.2	1	0.98	1.96	0.46
35.2	3	0.23	1.35	0.25
45.6	670	0.22	1.47	0.26
75.3	0	0.18	1.34	0.29
58.1	0	0.12	1.08	0.23
88.3	0	0.15	1.01	0.27
42.9	0	0.18	1.11	0.28
35.2	0	0.13	1.12	0.27
55.1	0	0.15	1.2	0.27
118.4	0	0.12	1.11	0.27
48.8	0	0.1	0.94	0.25
38.3	0	0.15	0.91	0.15
41.6	0	0.17	1.08	0.16
49.1	102.7	0.18	1.25	0.22

937

1.1	2	0.16	1.28	0.37
1.1	1	0.18	1.27	0.28
1.2	0	0.19	1.39	0.4
1.3	0	0.16	0.99	0.35
1.3	0	0.15	0.84	0.29
1.3	0	0.16	0.88	0.27
1.3	0	0.17	0.88	0.29
66	2	0.19	1.02	0.32
117	1	0.2	1.23	0.3
119.4	0	0.19	1.29	0.22
159.6	0	0.2	1.12	0.2
196.1	0	0.2	0.93	0.2
186.7	0	0.16	0.88	0.22
175.3	0	0.25	1.14	0.26
216.2	0	0.5	1.55	0.86
164.9	0	1.17	1.91	1.85
183.7	0	1.1	2.03	1.76
186.6	0	1.55	2.19	2.2
193.7	0	<Samp	<Samp	<Samp
123.3	0	1.24	2.11	2.68
190.7	0	1.31	2.36	2.47
215.1	0	0.52	1.72	1.98
177.1	0	1.6	2.16	2.06
193	0	1.23	2.52	2.38
140.3	0	1.13	2.56	2.34
69.4	0	0.37	2.06	1.93
61.7	0	0.38	2.03	2.16
158.3	0	0.44	1.99	2.41
77.9	0	0.32	1.56	1.68
34.2	0	0.21	1.18	1.01
95.2	0	0.31	1.31	1.01
77.8	0	0.27	1.12	0.81
81.1	0	0.33	1.31	0.91
77.4	0	0.37	1.32	1.1
53	0	0.43	1.31	0.98
106.8	0	0.36	1.22	0.98
97.5	0	0.68	2.49	1.83
85	0	0.35	1.3	0.94
94.6	0	0.43	2.05	1.33
164.1	0	0.23	1.59	0.74
79.2	0	0.48	2.63	1.69
143.6	0	0.57	2.32	1.5
84.8	0	0.95	4.46	2.27
135.9	0	1.01	4.02	2.04
111.7	0	<Samp	<Samp	<Samp
83.5	0	<Samp	<Samp	<Samp
179.9	0	<Samp	<Samp	<Samp
181	0	1.19	0.66	0.39
195.2	0	0.93	0.61	0.39
157.2	0	0.74	0.51	0.33
84.6	0	0.44	0.77	0.42
162.1	0	0.67	1.03	0.52

938

141.1	0	0.5	0.36	0.2
158.1	0	0.27	0.2	0.11
162.8	0	0.26	0.2	0.12
174.7	0	0.2	0.26	0.13
192.3	0	0.15	0.18	0.12
177.5	0	0.15	0.18	0.14
159.7	0	0.11	0.17	0.13
145.3	0	0.12	0.19	0.09
184.9	0	0.1	0.45	0.22
195.6	0	0.11	0.47	0.28
178.9	0	0.12	0.35	0.26
151.6	0	0.16	0.75	0.54
155.2	0	0.09	0.33	0.23
168.7	0	0.09	0.35	0.15
185.2	0	0.16	0.26	0.17
176.9	0	0.14	0.39	0.25
169.8	0	0.07	0.37	0.22
160.1	0	0.08	0.38	0.26
170.5	0	0.05	0.31	0.15
172.4	0	0.08	0.49	0.23
155	0	0.06	0.34	0.14
58.2	0	0.12	0.82	0.44
42.8	0	0.2	1.54	1.01
60.1	0	0.08	0.57	0.3
138.6	1	0.05	0.34	0.19
139.2	1	0.06	0.26	0.16
71.1	1	0.06	0.22	0.12
77.9	0	0.08	0.37	0.2
76	0	0.04	0.31	0.19
61.8	0	0.06	0.33	0.18
157.2	0	0.15	0.75	0.44
156.7	0	0.1	0.22	0.19
153.5	0	0.07	0.21	0.2
145.5	0	0.13	0.52	0.42
110.5	0	0.11	0.46	0.29
124.2	0	0.21	0.29	0.47
137.5	0	0.12	0.66	0.63
152.8	0	0.14	0.73	0.32
134.6	0	0.1	0.67	0.29
141.6	0	0.08	0.73	0.25
139.3	0	0.12	1.15	0.32
127.1	0	0.17	0.44	0.16
86.1	0	0.04	0.22	0.09
87.5	0	0.19	0.48	0.15
144.4	0	0.12	0.88	0.28
146.3	0	0.06	0.46	0.14
137.7	0	0.14	1.31	0.39
132.3	0	0.08	1.1	0.4
130.8	0	0.06	0.92	0.31
117.8	0	0.12	1.05	0.29
165.65	0	0.06	0.83	0.29
126.7	0	0.08	1.07	0.34

939

132.4	0	0.07	0.75	0.26
123.4	0	0.09	1.22	0.39
129.2	0	0.12	1.42	0.48
111.7	0	0.07	1.16	0.4
117.8	0	0.05	0.74	0.21
122.3	0	0.07	0.96	0.25
121.5	0	0.08	0.61	0.14
120.7	0	0.06	0.5	0.13
109.2	0	0.2	0.89	0.25
117.3	0	0.07	0.71	0.24
114.1	0	0.03	0.63	0.2
106.4	0	0.07	1.23	0.38
58.76	0	0.1	1.18	0.4
90.3	0	0.13	1.4	0.43
111.1	0	0.11	0.66	0.21
110.3	0	0.13	0.88	0.32
100.9	0	0.1	0.65	0.21
66.2	0	0.09	0.7	0.27
107.2	0	0.09	0.75	0.26
114.9	0	0.06	0.66	0.21
103.5	0	0.07	0.61	0.17
111.6	0	0.07	0.6	0.21
113.9	0	0.07	0.64	0.21
100.6	0	0.08	0.72	0.24
101.8	0	0.08	0.73	0.26
111.3	0	0.15	0.24	0.08
115.8	0	0.05	0.51	0.16
111.6	0	0.08	0.67	0.23
103.1	0	0.1	0.78	0.28
110.7	0	0.09	0.81	0.31
110.8	0	0.07	0.71	0.26
105.8	0	0.07	0.72	0.29
99.2	0	0.06	0.67	0.26
74.5	0	0.07	0.81	0.33
76.7	0	0.05	0.77	0.3
91.2	0	0.08	0.72	0.2
80.3	0	0.09	0.82	0.24
63.5	0	0.07	0.79	0.24
85.4	0	0.04	0.64	0.16
110.3	0	0.02	0.37	0.1
103.1	0	0	0.2	0.07
94.4	0	0.01	0.21	0.08
98.8	0	0	0.17	0.05
112.2	0	0.01	0.05	0.01
107.5	0	0	0.07	0
112.7	0	0.05	1.02	0.08
106.6	0	0.07	0.31	0.02
109.3	0	0.01	0.06	0.01
114.4	0	0.06	0.48	0.21
116.3	0	0.04	0.38	0.1
100.7	0	0.11	0.22	0.05
113.4	0	0.09	0.88	0.02

940

121	0	0.12	0.76	0.16
112.2	0	0.05	0.46	0.08
115.7	0	0.01	0.29	0.14
107.8	0	0.01	0.24	0.11
93.5	0	0	0.06	0.02
92	0	0.02	0.04	0.01
116	0	0.01	0.06	0.02
100.6	0	0.01	0.03	0.01
128.2	0	0.01	0.03	0.01
112.3	0	0	0.02	0.01
111.9	0	0	0.17	0.06
123.3	0	0.01	0.3	0.14
114.3	0	0.13	0.87	0.76
109.5	0	0.04	0.6	0.34
132.7	0	0	0.15	0.07
135.4	0	0.01	0.12	0.05
121.3	0	0.02	0.09	0.03
116.3	0	0.03	0.1	0.03
119.4	0	0.01	0.02	0.01
130.8	0	1.38	5.63	3.8
141	0	0.98	4.32	1.31
139.6	0	0.83	17.41	5.08
137.4	0	0.89	6.45	1.86
124.8	0	0.82	10.01	3.42
135.8	0	0.83	22.93	7.31
110.1	0	0.55	0	0
116.6	0	0.53	0	0
115.8	0	0.49	0	0
123.9	0	0.35	0	0
128.8	0	0.45	0	0
121.6	0	0.54	0	0
125.5	0	0.29	0	0
121.8	0	0.45	0	0
109.1	0	0.11	0	0
88.5	0	1.31	9.28	3.96
95.3	0	1.41	2.17	0
155.58	0	9.88	33.7	10.42
178.37	0	10.8	41.78	15.96
117.6	0	21.44	88.5	31.63
118	0	21.74	99.54	46.63
114.6	0	27.76	106.32	46.81
113.5	0	34.62	134.66	52.33
116	0	10.95	68.45	27.32
115.3	0	1.5	33.21	15.74
120.9	0	9.17	59.75	24.38
119.2	0	19.09	90.83	41.74
125.8	0	6.21	42.5	16.96
136.8	0	1.65	11.75	1.16
132.7	0	1.44	3.89	1.18
133.1	0	1.01	20.81	7.56
129.8	0	5.14	71.91	42.87
122.1	0	15.67	95.55	44.27

941

159.75	0	3.39	29.04	15.16
17.89	0	6.33	16.9	6.69
142.8	0	7.59	19.39	9.78
131.5	0	8.21	21.85	10.52
120.1	0	7.05	23.32	10.87
132.7	0	4.08	15.65	6.99
129.8	0	4.64	16.56	8
141.5	0	7.73	24.15	11.54
143.6	0	8.36	22.39	11.87
122.9	0	9.77	21.54	10.06
145.4	0	3.2	11.75	5.12
136.8	0	4.53	17.9	8.56
208.7	0	5.09	19.16	8.46
221.5	0	7.37	29.58	12.8
196.3	0	17.42	66.62	32.3
193.1	0	21.78	83.06	42.22
183.8	0	34.85	51.9	44.14
189.2	0	14.26	61.16	34.61
214.8	0	6.76	25.46	17.15
193.3	0	3.97	14.5	11.18
199.1	0	4.91	17.44	11.62
204.2	0	2.72	9.98	5.03
198	0	2.93	8.49	4.66
188.4	0	5.37	13.26	8.98
173.5	0	8.33	12.36	6.8
147.9	0	8.73	11.03	5.76
171.6	0	4.24	7.35	3.63
185.1	0	6.14	11.29	5.26
202.8	0	4.02	7.76	3.63
188.7	0	3.56	8.26	4.29
200.7	0	3.51	9.3	5.27
217.3	0	2.95	7.38	3.8
206.6	0	3.75	6.9	3.05
204.5	0	2.52	5.81	2.94
215.3	0	2.7	6.86	3.74
211.8	0	4.23	7.67	4.22
214.4	0	5.6	6	3.15
215.8	0	4.19	6.37	3.62
220.8	0	6.38	6.51	3.57
219.5	0	2.68	6.89	4.01
213.6	0	1.92	4.69	2.51
208.1	0	2.14	4.87	2.57
200.4	0	6.45	6.74	3.46
199.6	0	6.08	6.7	3.4
204.3	0	3.59	6.36	3.04
198.7	0	3.81	7.28	3.74
204.5	0	4.14	4.57	2.09
195	0	4.79	5.54	3.13
202.8	0	2.83	4.92	2.89
202.7	0	3.41	4.59	2.32
219.8	0	3.39	7.57	3.67
235.8	0	2.03	5.59	3.09

942

221.9	0	2.49	4.86	2.85
231.5	0	3.58	5.13	2.87
243.8	0	2.86	5.33	3.48
221.3	0	2.21	4.2	2.91
242.6	0	3.41	6.34	3.88
207.8	0	2.35	4.08	2.64
220.5	0	2.17	4.13	2.59
221.1	0	2.32	4.25	2.53
205.4	0	2.07	3.35	1.82
200.5	0	2.08	3.11	1.59
205.1	0	1.75	3.66	2
224.8	0	1.21	3.1	1.55
<Samp	0	1.54	3.6	1.94
<Samp	0	1.23	2.94	1.51
<Samp	0	0.7	2.76	1.09
279.8	0	1.23	3.37	1.58
225.6	0	1.33	2.91	1.42
219.9	0	1.49	2.96	1.59
205.8	0	0.93	2.89	1.42
<Samp	0	1.44	4.18	2.08
NoData	0	0.68	3.14	1.55
NoData	0	0.45	2.57	0.73
<Samp	0	1.45	4.8	7.16
185.9	0	1.52	5.05	9.57
185.9	0	1.02	3.99	7.22
199.1	0	0.78	3.43	6.11
185.3	0	0.2	2.52	4
211.2	0	0.14	1.81	0.23
220.8	0	0.21	2.15	0.6
207.1	0	0.34	2.27	0.63
220.2	0	0.23	2.23	0.61
221.8	0	0.67	2.8	1.19
178.8	0	0.07	1.88	0.34
143.5	0	0.01	1.79	0.14
208.2	0	0.01	1.81	0.2
216.2	0	0.02	1.9	0.19
191.1	0	0.01	1.79	0.19
209.2	0	0.02	1.36	0
195.6	0	2.7	2.99	0.89
194.1	0	5.57	3.78	0.16
87	0	3.67	3.64	0.83
65.5	0	2.99	5.19	2.49
41.2	0	0.75	2.33	0.29
45.25	0	0.2	1.73	0.36
293.47	0	0.21	2.15	0.49
194.9	0	0.79	1.75	0.31
242.6	0	0.31	0.8	0
193.7	0	0.9	1.36	0.29
234.3	1	0.5	1.76	0.39
252.6	7	1.06	1.42	0.03
199.4	8	0.29	0.78	0.01
148.2	0	1.62	2.15	0.29

943

207.5	0	1.62	2.92	0.36
187.5	0	1.31	3.32	0.96
139.1	3	2.97	4.04	1.47
175.7	3	2.18	3.63	1.19
124.8	0	3.19	3.83	1.72
62.7	3	3.78	4.98	2.1
198	0	3.86	4.16	1.58
235.1	0	0.01	1.07	0
204.5	1	0.65	1.76	0.29
258.2	2	2.19	3.57	1.81
216.3	0	1.68	3.16	1.14
234	0	2.59	3.14	0.57
244.5	0	3.01	4.18	2.08
101.2	0	1.97	3.54	1.43
200.7	0	1.6	3.12	1.15
125.8	0	1.66	3.16	1.17
278	0	0.55	2.31	0.35
169	0	1.22	3.44	2.1
164	0	1.79	3	0.82
159.6	0	1.93	2.42	0.11
55.2	0	0.57	2.48	0.26
41.8	1	0.42	2.11	0.06
43	2	0.08	1.38	0.02
159.4	0	0.15	0.97	0
64.2	0	0.15	1.61	0.14
185.3	0	0.15	1.88	0.02
187.4	0	0.92	2.15	0.48
167.1	0	0.44	1.81	0.07
228.6	0	0.23	1.54	0
84.4	0	2.25	3.31	0.99
115.6	0	2.06	3.67	1.51
58.5	4	3.75	4.3	2.12
59.1	3	1.49	3.92	2.29
46.7	0	0.82	3.34	1.76
130.9	0	2.18	3.72	1.7
162.6	0	2.05	3.26	1.16
270.3	0	1.01	2.7	0.89
151.2	0	0.34	1.86	0.02
157.3	0	2.66	2.91	0.65
202.7	0	4.72	3.77	1.18
123.9	0	0.68	3.06	1.57
95.8	0	1.69	4.09	2.36
137	0	2.93	4.27	1.74
181.5	0	1.66	4.29	2.02
88.2	0	1.16	3.74	1.95
50.1	0	2.73	8.25	5.22
120.3	0	2.46	8.48	4.79
108.7	0	1.39	4.82	3.23
209.9	0	0.93	4.18	2.33
118.6	0	2.6	3.66	1.84
181.4	0	1.75	2.66	0.29
201.1	0	0.19	1.73	0.2

944

60.5	0	0	1.31	0.01
31.4	0	0	1.23	0
53.2	0	0	0.91	0.02
90.3	0	0	1.31	0
142.5	0	0	1.53	0
160.2	0	0	1.43	0
118.2	0	0	1.69	0.02
78.7	0	0	1.8	0
54.2	0	0	1.43	0
85.9	0	0	1.44	0
50.9	0	0	1.4	0
81.6	0	0	1.26	0
74.2	0	0	1.38	0
53.9	0	0	1.58	0
115.7	0	0.01	1.76	0.03
134.2	0	0.01	1.65	0.04
61.3	0	0.01	2.08	0.44
48.5	0	0	1.93	0.04
91.3	0	0.01	1.79	0
122.4	0	0	1.26	0
116.1	0	0	1.12	0.02
166.9	0	0.1	1.63	0.3
185.4	0	0.06	2.33	0.32
156.1	0	0	1.61	0
38.4	0	0.09	1.96	0.3
41.4	0	0.52	2.82	0.47
62	0	0.21	2.57	0.5
132.1	0	0	1.71	0
139.7	0	0.7	3.5	1.17
164.6	0	0.81	4.92	2.23
208.8	0	0.32	3.94	1.68
207.6	0	0.8	5.19	3.57
209.9	0	2.49	5.42	3.22
118.4	0	1.38	5.87	1.78
172.4	0	0.55	4.03	1.55
208.4	0	0.99	3.72	1.32
150.8	0	0.37	4.24	1.37
169.2	0	0.93	4.27	1.73
146.9	0	1.25	6.16	2.95
151	0	1.36	4.7	2.4
148.2	0	0.01	1.58	0
95.8	0	0.88	3.24	1.41
138.3	0	1.71	4.12	1.58
87.5	0	1.55	4.77	2.17
65.9	0	1.07	5.62	2.97
61.7	0	1.99	6.11	3.53
74.3	0	1.94	6.95	3.55
128.9	0	0.83	5.19	2.61
102.4	0	1.93	6.97	3.76
45.6	0	1.62	6.11	3.31
34.81	0	0.02	2.39	0.32
120.86	0	2.47	5.16	2.64

945

103.68	0	21.44	8.85	4.8
159.74	0	1.02	2.19	0.32
186.47	0	0.7	2.83	0.64
140.17	0	1.31	4.67	2.18
127.69	0	1.25	5.88	2.73
165.82	0	0.7	4.46	1.97
205.41	0	0.14	3.01	0.6
131.89	0	0.42	3.78	0.97
146.91	0	0.52	4.17	1.42
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData	NoData
17.66	0	0.03	3.47	0.52
106.59	0	0.07	3.63	0.52
146.15	0	1.07	6.92	3.12
129.08	0	2.98	6.82	3.23
78.96	0	2.66	4.05	1.52
25.54	0	2.76	3.5	1.1
129.8	0	2.14	2.38	0.51
79.3	0	0	0	0
88.5	0	0	0	0
109.3	0	0	0	0
132.7	0	0	0	0
130.8	0	0	0	0
88.1	0	0	0	0
120.9	0	0	0	0
129.4	0	0	0	0
122.5	0	0	0	0
146.1	0	0	0	0
131.3	0	0	0	0
137.4	0	0	0	0
104.6	0	0	0	0
147.2	0	0	0	0
139.5	0	0	0	0
145.8	0	0.16	0.55	0.1
152.2	0	1.33	4.74	2.36
157.3	0	1.78	8.33	4.54
137.1	0	1.53	7.28	4.83
112.5	0	2.02	8.47	5.47
122.5	0	1.71	7.19	4.34
117.6	0	2.02	9.21	5.32
112	0	2.23	10.01	5.37
133	0	1.51	6.97	4.5
129.8	0	1.92	9.01	4.72
126.2	0	1.54	6.8	4.24
122.1	0	1.9	8.02	5.04
131.9	0	2.12	8.54	4.85
121.6	0	1.89	7.92	4.36
126.8	0	1.64	6.53	4.21
129.1	0	2.09	8.87	5.41
108.4	0	2.15	7.6	4.7
121.7	0	1.28	4.85	3.4

124.4	0	1.19	4.1	2.37
109.5	0	1.6	5.27	3.13
105.6	0	1.81	5.83	2.93
100.4	0	1.4	5	2.19
99.2	0	1.28	5.79	2.34
115.3	0	1.28	6.4	2.7
111.1	0	1.21	5.13	2.16
123.3	0	1.26	6.08	3.45
104.9	0	1.13	4.95	2.28
89.6	0	2.31	9.15	4.86
99.4	0	1.95	7.28	3.65
112.1	0	1.03	4.88	2.99
90	0	0.43	3.81	2.07
121.9	0	1.22	4.25	1.96
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92.7	0	1.23	5.38	2.58
95	0	1.47	5.76	2.92
108.2	0	1.62	6.27	4.22
106.2	0	2.28	9	5.28
109.5	0	1.15	5.74	3.22
104.6	0	1.41	6.29	4.05
100.6	0	1.72	7.87	4.53
86	0	1.85	7.53	5.03
85.9	0	1.66	5.25	2.71
58.8	0	1.32	5.07	2.13
58.1	0	1.17	5.97	2.79
47.9	0	0.93	4.49	2.46
67.9	0	0.6	3.83	2.25
101.4	0	0.82	5.16	1.99
118.2	0	1.1	4.71	1.94
<Samp	<Samp	<Samp	<Samp	<Samp
104.9	0	1.45	5.83	2.54
102.2	0	1.48	5.7	3.02
109.3	0	1.13	4.11	1.84
104.2	0	0.96	4.18	1.94
105.7	0	1.42	5.86	2.73
<Samp	<Samp	<Samp	<Samp	<Samp
<Samp	<Samp	<Samp	<Samp	<Samp
106.2	0	1.74	7.22	3.43
105.6	0	1.83	6.35	3.31
95.3	0	1.28	4.3	1.46
116	0	0.61	2.89	0.38
111.8	0	1.01	4.19	1.31
94	0	1.4	5.6	2.09
96.7	0	1.89	5.94	2.73
90.8	0	1.68	5.19	2.34
84.2	0	1.2	3.41	1.3
89.1	0	0.97	3.47	1.19
74.3	0	1.1	3.29	1.03
96	0	0.6	2.31	0.08
97	0	1.15	3.29	0.14

947

83	0	1.42	3.97	0.73
62.6	0	1.67	5.46	1.9
92.1	0	1.28	4.49	0.94
101.2	0	1.2	4.74	1.2
103.3	0	1.13	4.52	1.36
108.3	0	1.24	4.64	2
100.8	0	0.8	4.03	1.31
111.1	0	0.71	3.4	0.69
110.8	0	0.08	2.06	0
117.5	0	0.48	2.8	1.16
119.1	0	0.68	3.76	1.52
113.8	0	0.03	1.84	0.09
119.4	0	0.77	4.63	1.81
121.1	0	2.21	5.19	2.16
130.6	0	1.63	2.56	0.25
120.7	0	2	3.52	1.71
122.6	0	2.04	4.12	1.53
129.5	0	1.71	3.86	0.97
123.8	0	1.82	3.05	0.89
127.4	0	1.66	2.7	0.49
130.6	0	1.61	3.12	1.13
122	0	1.67	4.19	1.52
125.4	0	2.11	4.58	1.67
128.5	0	1.97	4.45	1.71
123.7	0	2.28	6.49	3.34
115.3	0	0.82	3.58	1.35
125.6	0	1.01	3.51	1.65
126.2	0	0.95	4.37	2.07
119.7	0	0.93	4.66	2.24
122.3	0	0.21	3.05	0.51
126.6	0	0.8	3.17	0.89
132.8	0	0.09	1.85	0.24
141.1	0	0.54	2.71	0.52
147.8	0	0.7	3.55	1.17
133.8	0	1.56	7.05	4.1
127.1	0	1.46	6.44	3.41
120.7	0	1.11	5.77	2.72
123.6	0	0.44	2.91	1.14
121.6	0	0	1.63	0
130.8	0	0	1.24	0
116.3	0	0	0.8	0
131.2	0	0	1.06	0
111.3	0	1.23	3.85	1.44
131.5	0	1.7	2.18	2.91
139.9	0	1.63	3.53	1.96
144.5	0	1.15	2.62	1.57
143.3	0	1.07	2.24	0.98
135	0	1.9	3.61	2.41
137.9	0	2.54	7	3.92
135.1	0	1.05	4.37	2.75
151.3	0	1.07	2.22	1.6
151.4	0	0.96	1.79	1.03

948

151.9	0	1.3	2.77	1.25
148.3	0	1.54	3.78	2.46
156.6	0	1.76	4.66	3.09
156.9	0	1.52	4.04	3.04
152.5	0	1.53	4.07	2.31
152	0	2.56	6.34	3.92
148	0	1.68	2.66	2
153.6	0	1.85	2.79	2.77
150.1	0	1.84	2.64	2.85
144.4	0	1.51	2.16	1.53
150.7	0	1.18	2.56	1.05
161.2	0	1.11	0.93	0.69
164.7	0	1.16	1.63	1.13
166.6	0	1.21	2.1	1.71
156.3	0	1.3	2.17	2.02
172.8	0	1.66	3.48	3.43
170.6	0	1.5	3.07	3.17
162.7	0	1.62	2.61	2.82
136.3	0	1.68	2.37	1.45
171.8	0	2.38	2.2	1.86
175.8	0	1.83	2.16	1.58
173.4	0	1.01	3.43	1.47
177	0	1.42	2.9	1.45
174.3	0	2.18	2.73	1.79
168.2	0	2.16	-217.85	1.93
170.4	0	2.35	3.81	2.64
160	0	1.71	3.63	2.59
167.5	0	2.04	3.56	3.51
173.4	0	2.47	4.34	3.77
161.7	0	2.32	1.35	2.42
164.3	0	2.5	0.4	2.56
177.9	0	2.71	4.59	3.17
250.9	0	0.76	1.38	0.2
215.6	0	1.13	1.48	0.2
209	0	0.57	1.33	0.23
207.4	0	0.54	1.49	0.18
206	0	0.59	1.16	0.15
214.7	0	0.56	1.32	0.2
222.3	0	1.01	1.69	0.23
226.9	0	0.44	1.33	0.19
225.4	0	0.59	1.23	0.16
218	0	0.4	1.14	0.17
219.7	0	0.33	1.03	0.19
210.2	0	1.54	1.83	0.3
188.7	0	0.82	2.48	0.44
206.2	0	0.85	1.82	0.29
188.6	0	0.73	1.66	0.2
194.8	0	0.81	1.16	0.21
238.3	0	0.18	0.75	0.1
223.9	0	0.33	1.19	0.2
236.1	0	0.35	1.26	0.17
235.8	0	0.5	1.53	0.21

231.7	0	0.56	1.53	0.22
231.5	0	0.49	1.36	0.21
224.7	0	0.27	1.19	0.18
221.4	0	0.19	0.73	0.11
212.9	0	0.19	0.81	0.11
207.5	0	0.24	0.99	0.16
197	0	0.47	1.75	0.27
247.3	0	0.46	0.98	0.23
177.9	0	0.3	0.94	0.16
210.6	0	0.33	1.02	0.18
215.6	0	0.15	0.72	0.12
228.1	0	0.17	0.66	0.14
241.7	0	0.35	0.69	0.14
189.5	0	0.17	0.6	0.06
225.9	0	0.17	0.62	0.08
207.1	0	0.25	0.83	0.12
213.2	0	0.31	0.88	0.12
213.3	0	0.41	0.81	0.1
238.2	0	0.29	0.79	0.09
236.6	0	0.22	0.76	0.07
232.2	0	0.25	0.87	0.14
239.9	0	0.28	0.98	0.18
237.5	0	0.22	0.92	0.2
254.2	0	0.23	0.86	0.16
246.6	0	0.28	0.83	0.12
247.8	0.3	0.17	0.62	0.13
226.7	3	0.26	0.9	0.14
236.6	1.3	0.28	1.18	0.18
254.1	6.3	0.26	1.02	0.15
243.2	9.8	0.19	0.75	0.12
198.4	0	0.2	0.67	0.1
241.7	0	0.14	0.55	0.07
217.4	0.8	0.18	0.7	0.13
233.7	0	0.18	0.64	0.12
220.5	0	0.13	0.54	0.1
226.2	0	0.15	0.65	0.1
227.3	0	0.15	0.66	0.07
239.8	0	0.16	0.6	0.08
242	0	0.31	0.84	0.15
227.3	0	0.28	1	0.16
225.7	0	0.23	0.92	0.15
224.1	0.5	0.24	0.97	0.21
218.1	3.5	0.24	1.08	0.17
203	0	0.19	1	0.37
171.6	0.3	0.24	1.39	1.06
204	0	0.3	1.5	1.19
182.6	66.3	0.3	1.21	1.11
202.9	15	0.34	1.3	1.21
193.1	103.5	0.35	1.46	1.31
216.6	18	0.34	1.45	1.3
158	14	0.6	2.02	1.11
195	11.5	1	2.65	1.21

950

107.9	0.5	1.48	3.7	1.12
157.4	13.8	1.01	2.39	0.73
145.7	59.3	1.28	2.45	0.66
157.4	13.3	0.89	1.9	0.28
185.4	74.3	0.25	1.19	0.16
200.5	0	0.16	0.9	0.35
245.3	10	1.06	1.1	0.51
217.6	0	0.81	0.96	0.74
202.2	0	1.07	0.6	0.65
198.7	24.5	1.5	1.68	0.94
199.9	0	0.5	1.3	0.08
201.2	0	0.86	2.67	0.9
129.4	0	1.87	3.53	1.95
60.9	19	1.39	3.42	4.25
242.3	7.3	1.33	5.26	7.09
72.8	0	1.45	3.25	5.61
195.7	0	1.05	2.17	7.03
163.6	0	2.24	3.04	1.95
221.6	0	2.24	3.03	1.95
193.6	0	1.44	2.52	2.09
185.9	0	1.35	2.14	2.26
252.5	0	2.19	3.22	1.95
236	0	2.19	3.1	1.95
174.8	0	2.19	3.01	1.95
182.3	0	1.23	2.86	5.57
232.1	0	1.3	2.55	5.08
73.2	0	1.5	2.99	3.54
112.6	0	2.19	3.01	1.95
90.9	13.8	0.98	1.86	1.53
127.8	21.3	1.28	2.07	2.58
83.3	0	2.2	3.01	1.95
95.9	0	2.19	3.01	1.95
126.5	0	2.19	3.01	1.95
201.2	0	2.19	3.01	1.95
92.9	0	2.19	3.01	1.95
96.5	0	2.19	3.01	1.95
48.8	0	2.19	3.01	1.95
22.5	0	2.19	3.01	1.95
53.6	0	2.19	3.01	1.95
19.6	0	2.19	3.01	1.95
25.2	0	2.19	3.01	1.95
33.7	0	2.19	3.01	1.95
88	0	2.19	3.01	1.95
68.7	0	2.19	3.01	1.95
110.92	0	2.19	3.01	1.95
168.8	0	2.19	3.01	1.95
119.1	0	2.19	3.01	1.95
92	0	2.19	3.01	1.95
78.5	0	2.19	3.01	1.95
127.7	0	2.19	3.01	1.95
105.9	0	2.19	3.01	1.95
112.4	4.5	1.43	2.85	8.25

951

142.1	5.5	1.37	1.87	5.88
132.9	12	1.24	3.32	14.35
172.9	2	1.21	2.61	8.2
154.7	0	2.05	3.27	13.66
61	2.8	1.52	3.51	9.12
56.2	2	1.29	2.33	4.19
176.4	1.5	1.16	2.5	7.87
32.5	0	2.77	5.24	15.14
32.9	0	2.76	5.56	6.36
106.7	0	0.58	6.37	14
64.2	0	2.28	4.28	8.29
1005.6	4.3	1.38	6.98	9.48
1005.6	3.5	1.43	7.03	9.53
114.3	6.5	1.78	3.38	8.66
46.5	4.5	1.28	3.25	14.11
20.5	13.5	1.49	2.48	10.84
0	47	1.64	2.88	9.57
24.2	45.9	1.32	17	16.24
49.7	4.3	1.41	20.37	10.3
65.6	2.1	1.25	19.92	16.35
92.9	1.9	1.58	19.78	16.8
106.8	4	1.68	4.36	7.66
95.7	18.5	2.1	10.6	11
89.7	0	1	6.8	8
25.7	3	0.99	9.35	10.58
113.3	1	1.03	6.92	9.52
56.4	1.8	0.89	6.78	9.38
81.5	2	1.27	2.25	6.86
26.4	0	0.94	2.79	9.5
73.5	9	1.34	2.34	9.41
80.5	11	1.5	2.34	10.71
116.9	15.5	2.73	2.35	11.8
153.8	5.5	1.34	2.32	9.93
132.3	9	1.45	4.85	7.97
174.5	5	0.78	1.63	6.55
57.7	12.5	1.09	3.63	6.17
92.6	46.5	1.43	3.7	9.59
85.3	8	1.53	10.93	12.93
170.1	5.8	1.44	2.18	8.41
42.8	12.8	1.92	7.7	8.59
50.2	15	1.28	7.06	7.95
27.3	8.5	1.51	7.15	8.25
118.7	6.5	1.3	8.13	9.23
128.4	6.3	0.85	10.57	11.67
139.8	1.5	0.87	10.31	11.41
113.3	1.3	1.56	7.46	9.86
30.8	2.5	1.14	7.04	9.44
72.1	1.8	1.52	7.42	9.82
93.9	2.5	1.11	9.91	12.41
17.9	40.3	1.57	23.31	23.51
30.6	18.5	1.41	17.48	13.98
16.1	13.5	1.55	16.11	18.61

952

102.5	1.3	1.53	6.32	3.53
111.4	0	1.62	5.94	3.39
52.6	16.5	1.87	6.9	3.76
9.4	2.5	11.19	15.38	11.35
27.8	61	1.4	5.55	12.2
44.3	71.8	2.29	21.84	16.15
109.8	4.3	2.16	18.3	20.92
116.6	2.3	1.57	12.87	13.39
161.5	0	2.05	10.9	4.07
168.1	0	2.23	10.18	3.66
156.8	0	1.79	8.98	3.73
111.5	0	2.05	6.36	15.54
128.2	8.5	1.21	6.07	3.85
171	10.3	1.67	9.61	2.77
161.5	0	2.05	10.9	4.07
159.9	0	1.39	7.53	2.63
139.7	0	2.12	16.25	4.6
136.2	11.5	3.3	31.45	7.72
116.4	0	0.33	6.04	4.76
146.7	2	0.32	7.13	3.43
126.8	0	0.39	5.53	4.24
124	0	0.26	6.29	3.85
122.3	0	0.45	4.29	4.48
119.8	0	0.21	7.95	4.37
126.1	0	0.5	5.84	5.47
124.2	0	0.25	6.89	5.23
115.4	0	0.39	5.19	4.47
129.1	0	0.31	7.43	4.26
135.9	0	0.57	12.14	3.86
116.6	0	0.44	8.54	3.31
116.6	0	0.22	5.81	5.64
124.6	0	0.26	7.57	4.25
115.5	0	0.3	8.49	3.57
122	0	0.35	6.48	3.93
117.9	0	0.31	6.67	5.05
95.8	0	3.38	31.32	9.5
111.6	0	3.63	41.78	12.78
179.1	0	3.87	43.09	15.59
136.2	0	3.3	31.45	7.72
181.9	0	1.81	16.13	11.59
128.4	0	2.31	45.4	17.17
169.8	0	3.8	28.15	8.31
171.7	0	3.39	34.41	9.48
42.4	0	0.93	1.83	1.42
166.4	0	3.19	28.63	8.79
133.8	0	2.45	10.75	2.38
137.7	0	3.08	17.45	3.38
133.6	0	2.6	16.35	3.68
132.3	0	2.51	15.39	3.86
131.6	0	2.77	15.11	3.36
116.5	0	2.53	13.52	3.01
116.4	0	3.35	13.26	2.66

953

85.4	0	<Samp	<Samp	<Samp
136.2	11.9	3.3	31.45	7.72
170.1	0	1.44	2.18	8.41
128.2	8.9	1.21	6.07	3.85
126.1	0	0.5	5.84	5.47
115.5	0	2.28	16.65	13.73
198.4	0	0.2	0.67	0.1
241.7	0	0.14	0.55	0.07
217.4	0	0.18	0.7	0.13
155.5	0	52.48	19.7	5.17
124.6	0	1	6.8	10.3
101.2	0	3.97	0.48	12.04
136.2	11.9	3.3	31.45	7.72
170.2	0	1.45	2.26	8.34
170.1	0	1.44	2.18	8.41
35.5	0	0.93	0.11	1.39
92.6	0	0.71	1.94	2.53
104.4	0	0.76	2.07	2.67
108.1	0	0.8	2.14	2.75
105.6	0	0.8	2.16	2.77
109.6	0	0.78	2.1	2.71
110.7	0	0.76	2.06	2.64
103.8	0	0.74	1.98	2.55
106.8	0	0.76	2.04	2.62
91.9	0	0.79	2.14	2.75
104.4	0	0.78	2.09	2.73
53.7	0	0.76	2.03	2.67
64.7	0	0.78	2.09	2.68
49.6	0	0.78	2.11	2.71
30.3	0.5	0.8	2.16	2.78
90.5	0	0.84	2.26	2.9
93.7	0.3	0.87	2.34	3
92.3	0	0.89	2.4	3.09
96.8	0	0.85	2.3	2.96
82.4	0	0.88	2.37	3.05
108.2	0	0.89	2.4	3.09
111.7	0	0.89	2.39	3.07
79.2	0	0.92	2.49	3.2
104.1	0	0.9	2.42	3.11
100.4	0	0.89	2.41	3.09
99.7	0	0.88	2.37	3.05
101.6	0	0.83	2.48	3.22
94.2	0	0.77	2.52	3.29
101.9	0	0.75	2.45	3.2
100.9	0	0.73	2.4	3.13
97.2	0	0.93	2.22	2.88
94.3	0	0.91	1.83	2.28

954

M&PXylene	O-Xylene	NO	NO2
µg/m3	µg/m3	µg/m3	µg/m3
22.35	9.05	NoData	NoData
13.76	2.75	NoData	NoData
33.26	12.81	NoData	NoData
30.21	13.45	NoData	NoData
20.52	7.5	NoData	NoData
14.05	4.74	NoData	NoData
13.85	4.75	NoData	NoData
7.44	2.1	NoData	NoData
5.99	1.89	NoData	NoData
6.29	1.42	NoData	NoData
7.2	1.56	NoData	NoData
10.41	1.81	NoData	NoData
11.38	2.87	NoData	NoData
15.29	4.09	NoData	NoData
26.17	9.69	NoData	NoData
14.21	3.83	NoData	NoData
12.37	4.1	NoData	NoData
19.92	6.9	NoData	NoData
19.09	7.83	NoData	NoData
8.69	2.51	NoData	NoData
21.85	9.35	NoData	NoData
35.48	15.46	NoData	NoData
41.44	19.61	NoData	NoData
60.36	25.99	NoData	NoData
36.22	18.29	NoData	NoData
11.19	3.64	NoData	NoData
7.11	1.42	NoData	NoData
8.54	1.86	NoData	NoData
6.56	1.03	NoData	NoData
7.94	2.34	NoData	NoData
5.01	1.84	NoData	NoData
0.36	2.88	NoData	NoData
0.62	3.28	NoData	NoData
1.05	2.88	NoData	NoData
4.06	1.39	NoData	NoData
0.65	0.11	NoData	NoData
0.44	0.23	NoData	NoData
1.83	0.73	NoData	NoData
2.47	1.15	NoData	NoData
2.52	1.14	NoData	NoData
2.37	1.06	NoData	NoData
9.07	4.18	NoData	NoData
4.27	1.83	NoData	NoData
12.23	5.74	NoData	NoData
7.25	2.8	NoData	NoData
4.77	1.85	<Samp	NoData
19.88	10.8	<Samp	NoData
4.14	1.68	NoData	NoData

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2.78	0.82	NoData	NoData
4.01	1.35	NoData	NoData
3	1.21	NoData	NoData
3.5	1.07	NoData	NoData
2.2	0.65	NoData	NoData
2.24	0.8	NoData	NoData
3.41	2.19	NoData	NoData
54.54	74.12	NoData	NoData
56.83	68.81	NoData	NoData
40.9	20.94	NoData	NoData
78.37	43.21	NoData	NoData
36.69	21.89	NoData	NoData
3.89	1.65	NoData	NoData
2.84	1.18	NoData	NoData
2.22	0.7	NoData	NoData
2.23	0.67	NoData	NoData
2.2	0.57	NoData	NoData
2.33	0.68	NoData	NoData
2.13	0.54	NoData	NoData
1.78	0.33	NoData	NoData
1.9	0.38	NoData	NoData
1.91	0.36	NoData	NoData
4.58	1.47	NoData	NoData
5.81	2.03	NoData	NoData
6.93	2.66	NoData	NoData
3.92	1.1	NoData	NoData
3.06	0.79	NoData	NoData
1.96	0.44	NoData	NoData
2.37	0.63	NoData	NoData
1.84	0.44	NoData	NoData
1.78	0.4	NoData	NoData
1.55	0.33	NoData	NoData
1.6	0.49	NoData	NoData
1.3	0.16	NoData	NoData
1.66	0.26	NoData	NoData
3.33	0.91	NoData	NoData
4.29	1.33	NoData	NoData
3.44	0.91	NoData	NoData
3.95	1.17	NoData	NoData
3.88	1.67	NoData	NoData
2.16	1.44	NoData	NoData
1.66	1.46	NoData	NoData
1.37	1.41	NoData	NoData
1.59	1.54	NoData	NoData
3.06	1.15	NoData	NoData
1.94	0.51	NoData	NoData
2.36	0.72	NoData	NoData
8.92	3.73	NoData	NoData
3.03	1.48	NoData	NoData
1.98	0.88	NoData	NoData
1.45	1.6	<Samp	NoData

2.49	2.25	NoData	NoData
2.32	1.46	NoData	NoData
3.07	1.02	NoData	NoData
2.38	0.84	NoData	NoData
3.09	1.09	NoData	NoData
3.5	1.26	NoData	NoData
3.4	1.27	NoData	NoData
3.84	1.47	NoData	NoData
4.82	1.88	NoData	NoData
4	1.53	NoData	NoData
4.2	1.7	NoData	NoData
4.12	1.77	NoData	NoData
3.28	1.34	NoData	NoData
1.42	0.68	NoData	NoData
1.48	0.83	NoData	NoData
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2.39	0.93	NoData	NoData
2.6	1.07	NoData	NoData
3.39	1.39	NoData	NoData
2.63	1.02	NoData	NoData
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1.76	0.45	NoData	NoData
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1.71	0.61	NoData	NoData
1.81	0.59	NoData	NoData
1.49	0.53	NoData	NoData
4.4	0.96	NoData	NoData
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3.23	2.16	NoData	NoData
3.76	1.78	NoData	NoData
3.09	2.13	NoData	NoData
6.26	1.93	NoData	NoData
4.57	1.61	NoData	NoData
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2.66	0.93	NoData	NoData
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3.4	1.3	NoData	NoData
3.59	1.38	NoData	NoData
3.46	1.29	NoData	NoData
4.17	1.59	NoData	NoData
4.91	2.19	NoData	NoData

6.33	3.43	NoData	NoData
3.97	1.91	NoData	NoData
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4.89	1.75	NoData	NoData
2.93	0.79	NoData	NoData
1.94	0.55	NoData	NoData
1.66	0.66	NoData	NoData
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3.29	1.19	NoData	NoData
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12.32	6.4	NoData	NoData
9.73	3.72	NoData	NoData
6.52	2.51	NoData	NoData
6.18	2.29	NoData	NoData
8.61	3.19	NoData	NoData
5.99	2.25	NoData	NoData
18.48	9.86	NoData	NoData
17.2	9.24	NoData	NoData
17.21	9.13	NoData	NoData
18.37	10.44	NoData	NoData
18.15	11.4	NoData	NoData
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11.04	6.95	NoData	NoData
15.14	9.34	NoData	NoData
22.4	13.73	NoData	NoData
14.99	7.26	NoData	NoData
16.37	7.33	NoData	NoData
13.29	6.39	NoData	NoData
15.02	6.73	NoData	NoData
14.81	15.87	NoData	NoData
13.53	6.96	NoData	NoData
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4.57	1.19	NoData	NoData
7.12	2.43	NoData	NoData
8.86	2.99	NoData	NoData
11.23	4.79	NoData	NoData
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8.73	3.82	NoData	NoData
10.08	4.49	NoData	NoData
7.21	2.65	NoData	NoData
3.88	2.97	NoData	NoData
4.51	1.61	NoData	NoData
6.55	2.58	NoData	NoData
10.81	4.87	NoData	NoData
7.11	2.94	NoData	NoData
10.3	4.39	NoData	NoData
11.22	5.11	NoData	NoData
10.68	4.95	NoData	NoData

15.71	7.22	NoData	NoData
10.75	4.05	NoData	NoData
15.5	7.32	NoData	NoData
14.41	7.25	NoData	NoData
12.81	5.75	NoData	NoData
18.83	9.56	NoData	NoData
12.96	6.2	NoData	NoData
18.21	8.56	NoData	NoData
11.93	4.54	NoData	NoData
12.03	4.75	NoData	NoData
14.2	5.64	NoData	NoData
13.79	6.37	NoData	NoData
12.07	4.83	NoData	NoData
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18.07	7.21	NoData	NoData
15.59	7.42	NoData	NoData
19.96	9.06	NoData	NoData
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3.91	1.17	NoData	NoData
6.29	1.82	NoData	NoData
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6.68	2.21	NoData	NoData
7.15	1.64	NoData	NoData
10.7	3.25	NoData	NoData
13.02	4.9	NoData	NoData
11.93	4.12	NoData	NoData
12.55	4.78	NoData	NoData
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67.43	26.57	NoData	NoData
34.64	13.96	NoData	NoData

959

23.33	8.93	NoData	NoData
18.48	6.79	NoData	NoData
21.55	8.22	NoData	NoData
20.31	7.78	NoData	NoData
17.86	6.92	NoData	NoData
15.69	6.03	NoData	NoData
13.03	5.17	NoData	NoData
15.42	6.03	NoData	NoData
16.32	6.12	NoData	NoData
13.76	4.95	NoData	NoData
7.44	2.21	NoData	NoData
5.73	1.41	NoData	NoData
6.99	2.03	NoData	NoData
13.57	4.86	NoData	NoData
12.93	4.88	NoData	NoData
8.26	2.87	NoData	NoData
9.89	3.27	NoData	NoData
9.73	3.16	NoData	NoData
9.98	3.45	NoData	NoData
9.01	3.31	NoData	NoData
13.97	4.89	NoData	NoData
13.4	4.84	NoData	NoData
11.82	4.3	NoData	NoData
5.86	1.54	NoData	NoData
6.65	2.3	NoData	NoData
5.81	1.6	NoData	NoData
5.21	0.71	NoData	NoData
3.88	0.2	NoData	NoData
5.1	0.93	NoData	NoData
5.02	1.16	NoData	NoData
4.05	0.7	NoData	NoData
9.67	4.83	NoData	NoData
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6.26	0.94	997.5	596.3
0.63	0.04	999.5	648
0.05	0.04	997.8	607.4
0.92	0.57	<Samp	711.7
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0.9	0.1	NoData	NoData
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961

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962

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964

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969

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0.63	0.53	995.3	848.6
0.48	0.32	<Samp	232
0.63	0.53	993.5	625.6
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979

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7.97	3.91	NoData	NoData
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6.08	4.24	NoData	NoData
5.55	2.78	NoData	NoData
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11.62	4.71	NoData	NoData
17.56	10.07	NoData	NoData
26.26	16.93	NoData	NoData
28.6	16.74	NoData	NoData
18.82	15.58	NoData	NoData
19.39	7.76	NoData	NoData
27.58	14.03	NoData	NoData
31.04	17.55	NoData	NoData
31.75	16.84	NoData	NoData
39.48	22.9	NoData	NoData
22	14.16	NoData	NoData
27.42	23.98	NoData	NoData
23.81	15.11	NoData	NoData
14.07	12.6	NoData	NoData
18.19	16.27	NoData	NoData
16.33	13.72	NoData	NoData
5.19	3.34	NoData	NoData
6.46	4.95	NoData	NoData
4.49	2.3	NoData	NoData
4	2.06	NoData	NoData
4.89	2.6	NoData	NoData
3.42	1.8	NoData	NoData
5.03	3.15	NoData	NoData
4.93	3.2	NoData	NoData
6.09	3.75	NoData	NoData
4.19	2.37	NoData	NoData
5.84	3.81	NoData	NoData
8.4	6.34	NoData	NoData
9.22	10.4	NoData	NoData
6.36	4.23	NoData	NoData
7.67	6.08	NoData	NoData
8.86	7.72	NoData	NoData
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7.82	5.98	NoData	NoData
4.39	2.59	NoData	NoData
9.92	7.2	NoData	NoData
13.28	13.91	NoData	NoData
11.84	11.98	NoData	NoData

981

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11.31	8.12	NoData	NoData
15.17	10.03	NoData	NoData
9.86	4.63	NoData	NoData
9.63	4.48	NoData	NoData
13.9	9.57	NoData	NoData
9.89	5.28	NoData	NoData
8.09	3.72	NoData	NoData
9.96	4.57	NoData	NoData
15.83	10.2	NoData	NoData
17.5	12.29	NoData	NoData
14.56	8.96	NoData	NoData
9.74	5.86	NoData	NoData
13.89	9.56	NoData	NoData
13.97	8	NoData	NoData
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3.05	1.47	NoData	NoData
4.73	1.83	NoData	NoData
5.91	2.31	NoData	NoData
11.85	7.04	NoData	NoData
13.09	7.82	NoData	NoData
13.78	9.81	NoData	NoData
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3.19	1.28	NoData	NoData
4	1.38	NoData	NoData
4.82	1.88	NoData	NoData
3.12	0.86	NoData	NoData
3.05	0.81	NoData	NoData
3.21	0.71	NoData	NoData
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2.71	1.86	NoData	NoData
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5.55	1.75	NoData	NoData
5.73	1.36	NoData	NoData
6.85	0.88	NoData	NoData
5.42	1.67	NoData	NoData
4.04	0.33	NoData	NoData
9.83	4.06	NoData	NoData
14.41	7.85	NoData	NoData
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5.93	0.86	NoData	NoData
6.18	2.72	NoData	NoData
10.19	4.48	NoData	NoData
5.71	2.82	NoData	NoData
2.23	0.91	NoData	NoData
2.73	1	NoData	NoData
8.05	3.26	NoData	NoData
6.55	3.03	NoData	NoData

11.31	4.74	NoData	NoData
10.97	4.75	NoData	NoData
13.37	6.56	NoData	NoData
12.42	5.87	NoData	NoData
13.82	7.03	NoData	NoData
14.15	10.66	NoData	NoData
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2.5	0.72	NoData	NoData
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0.99	0.41	NoData	NoData
1.22	0.28	NoData	NoData
1.8	0.42	NoData	NoData
3.36	2.09	NoData	NoData
1.85	0.67	NoData	NoData
6.35	0.89	NoData	NoData
5.56	1.02	NoData	NoData
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2.96	0.19	NoData	NoData
0.5	0.16	NoData	NoData
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2.04	0.69	NoData	NoData
0.52	0.75	NoData	NoData
2.02	0.82	NoData	NoData
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0.69	0.34	NoData	NoData
0.77	0.3	NoData	NoData
0.44	0.32	NoData	NoData
0.38	0.39	NoData	NoData
0.87	0.42	NoData	NoData
0.74	0.25	NoData	NoData
0.65	0.34	NoData	NoData
0.52	0.28	NoData	NoData
2.2	0.32	NoData	NoData
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0.66	0.29	NoData	NoData
0.81	0.18	NoData	NoData
0.88	0.28	NoData	NoData
0.57	0.43	NoData	NoData
1.24	0.24	NoData	NoData
1.42	0.19	NoData	NoData
0.46	0.38	NoData	NoData
1.1	0.48	NoData	NoData
0.8	0.39	NoData	NoData
0.44	0.17	NoData	NoData
0.42	0.26	NoData	NoData
0.48	0.49	NoData	NoData
0.44	0.24	NoData	NoData
0.26	0.24	NoData	NoData
2.58	1.28	NoData	NoData

3.64	2.08	NoData	NoData
2.09	0.75	NoData	NoData
2.82	0.67	NoData	NoData
2.25	0.61	NoData	NoData
1.71	0.53	NoData	NoData
2.55	0.58	NoData	NoData
2.09	0.43	NoData	NoData
5.34	3.52	NoData	NoData
4.11	1.47	NoData	NoData
2.11	0.55	NoData	NoData
2.09	0.69	NoData	NoData
3.1	0.59	NoData	NoData
9.14	4.03	NoData	NoData
4.92	1.39	NoData	NoData
2.74	0.87	NoData	NoData
2.43	1.74	NoData	NoData
2.39	0.74	NoData	NoData
1.41	0.65	NoData	NoData
1.46	0.43	NoData	NoData
2.19	0.76	NoData	NoData
1.76	0.67	NoData	NoData
1.49	0.53	NoData	NoData
1.88	0.86	NoData	NoData
2.56	1	NoData	NoData
2.5	0.57	NoData	NoData
1.96	0.63	NoData	NoData
0.78	0.17	NoData	NoData
13.52	7.89	NoData	NoData
4.44	10.15	NoData	NoData
1.78	1.24	NoData	NoData
4.41	1.03	NoData	NoData
5.47	1.26	NoData	NoData
7.44	2.8	NoData	NoData
8.42	2.12	NoData	NoData
3.53	0.62	NoData	NoData
3.53	0.42	NoData	NoData
4.44	0.88	NoData	NoData
6.29	0.82	NoData	NoData
4.3	0.63	NoData	NoData
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3.99	0.67	NoData	NoData
4.81	0.62	NoData	NoData
3.24	0.48	NoData	NoData
2.74	0.43	NoData	NoData
2.34	0.39	NoData	NoData
2.87	0.44	NoData	NoData
2.73	0.43	NoData	NoData
2.78	0.45	NoData	NoData
3.16	0.45	NoData	NoData
3.36	0.44	NoData	NoData
2.81	0.41	NoData	NoData
3.83	0.45	NoData	NoData

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5.35	0.47	NoData	NoData
7.05	0.52	NoData	NoData
6.54	0.49	NoData	NoData
6.79	0.48	NoData	NoData
7.03	0.54	NoData	NoData
8.28	0.58	NoData	NoData
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0.17	0.12	NoData	NoData
0.12	0.13	NoData	NoData
0.1	0.13	NoData	NoData
0.12	0.22	NoData	NoData
0.09	0.13	NoData	NoData
0.15	0.25	NoData	NoData
0.08	0.07	NoData	NoData
0.08	0.1	NoData	NoData
0.04	0.05	NoData	NoData
0.08	0.14	NoData	NoData
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0.1	0.18	NoData	NoData
0.08	0.1	NoData	NoData
0.08	0.1	NoData	NoData
0.1	0.14	NoData	NoData
0.15	0.1	NoData	NoData
0.2	0.19	NoData	NoData
0.09	0.1	NoData	NoData
0.02	0.03	NoData	NoData
0.09	0.08	NoData	NoData
0.27	0.26	NoData	NoData
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0.14	6.99	NoData	NoData
0.03	0.06	NoData	NoData
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0.96	0.03	NoData	NoData
1.75	0.32	NoData	NoData
5.56	1.25	NoData	NoData
6.47	2.34	NoData	NoData
2.28	0.8	NoData	NoData
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7.93	17.95	NoData	NoData
4.25	4.91	NoData	NoData

985

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11.73	10.3	NoData	NoData
2.77	13.06	NoData	NoData
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5.53	10.14	NoData	NoData
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0.5	0.4	NoData	NoData

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0.79	0.18	NoData	NoData
0.4	0.17	NoData	NoData
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0.52	0.22	NoData	NoData
0.63	0.22	NoData	NoData
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0.47	0.33	NoData	NoData
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0.59	0.5	NoData	NoData
0.55	0.29	NoData	NoData
0.81	0.34	NoData	NoData

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0.57	0.42	NoData	NoData
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0.6	0.36	NoData	NoData
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0.74	0.32	NoData	NoData
0.66	0.36	NoData	NoData
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0.84	0.43	NoData	NoData
0.5	0.48	NoData	NoData
0.64	0.53	NoData	NoData
0.46	0.37	NoData	NoData
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0.67	0.4	NoData	NoData
0.68	0.55	NoData	NoData
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0.54	0.35	NoData	NoData
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0.66	0.34	NoData	NoData
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0.61	0.4	NoData	NoData
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0.8	0.81	NoData	NoData
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0.81	0.62	NoData	NoData
0.58	0.72	NoData	NoData
1.37	0.82	NoData	NoData
0.7	0.69	NoData	NoData
0.8	0.68	NoData	NoData
0.97	0.84	NoData	NoData
0.92	0.81	NoData	NoData
0.83	0.97	NoData	NoData
0.79	0.71	NoData	NoData
0.85	0.81	NoData	NoData
0.65	0.74	NoData	NoData
0.76	0.68	NoData	NoData
0.59	0.55	NoData	NoData
0.77	0.61	NoData	NoData
0.58	0.58	NoData	NoData
0.63	0.68	NoData	NoData
0.8	0.65	NoData	NoData
0.7	0.77	NoData	NoData
0.64	0.58	NoData	NoData
0.91	0.53	NoData	NoData
0.93	0.45	NoData	NoData
0.84	0.62	NoData	NoData
0.73	0.71	NoData	NoData
0.74	0.51	NoData	NoData
0.84	0.42	NoData	NoData
0.94	0.59	NoData	NoData
0.86	0.46	NoData	NoData
0.83	0.52	NoData	NoData
0.82	0.45	NoData	NoData
0.78	0.68	NoData	NoData
0.67	0.52	NoData	NoData
0.71	0.49	NoData	NoData
0.62	0.65	NoData	NoData
0.61	0.55	NoData	NoData
0.66	0.63	NoData	NoData
0.8	0.59	NoData	NoData

991

0.85	0.53	NoData	NoData
0.56	0.62	NoData	NoData
0.68	0.64	NoData	NoData
0.71	0.42	NoData	NoData
0.76	0.48	NoData	NoData
0.8	0.67	NoData	NoData
0.75	0.49	NoData	NoData
0.91	0.55	NoData	NoData
1.06	0.63	NoData	NoData
0.83	0.6	NoData	NoData
0.7	0.45	NoData	NoData
0.74	0.48	NoData	NoData
0.76	0.48	NoData	NoData
0.69	0.48	<Samp	<Samp
0.8	0.68	8.7	30.5
0.82	0.61	6.9	30.6
0.91	0.64	11.5	31.2
1.27	1.01	11.5	30.5
0.97	0.9	11.9	27
0.91	0.9	11	21.6
1.03	0.92	8.1	26.8
1.8	1.39	11.6	33.7
1.44	1.48	12.8	29
0.95	1.06	12.8	30.3
0.74	0.59	16.9	23.8
0.78	0.74	18.1	22
0.8	0.96	14.8	24.2
0.8	0.78	16.9	23.3
0.98	1.18	20.6	23.5
1.07	0.94	15.4	24.5
1.12	1.14	16.9	21.2
1.48	1.03	15.2	21
1.24	0.92	14.6	23.6
0.96	0.87	22.2	19.4
1.51	1.17	34.3	20.5
0.86	0.51	31.6	15.6
0.63	0.56	34.5	13.7
0.66	0.66	33.7	14.6
0.42	0.45	26.7	15.8
0.46	0.54	40.1	15.3
0.64	0.46	25	15.2
0.54	0.57	37.6	15.3
0.58	0.53	38.8	15.5
0.51	0.6	42.7	15.7
0.35	0.37	44.4	15.7
0.35	0.35	28.1	15.5
0.36	0.37	49.5	15.3
0.38	0.34	44.9	15.2
0.39	0.38	56.2	15.5
0.41	0.39	46.1	15.6
0.35	0.39	18	15.3
0.37	0.41	31.9	15.3

992

0.4	0.4	37.2	15.3
0.41	0.37	12.5	15.6
0.2	0.16	35.8	13.9
0.13	0.16	55.6	13.1
0.54	0.68	55.7	14.4
0.49	0.3	47.9	14.2
0.32	0.43	55.2	14.8
0.35	0.34	61.6	15.1
0.37	0.36	70	15.2
0.26	0.3	80.6	15.4
0.52	0.48	77	17.8
0.64	0.43	57.6	16.9
0.74	0.75	53.7	18.2
0.78	0.38	49.2	17.4
0.76	0.56	36.9	16.5
0.64	0.5	30.4	18.2
0.61	0.43	28.5	18.3
0.74	0.47	34.8	17
0.54	0.35	38.4	16.5
0.41	0.31	38.5	15.2
0.38	0.3	45.9	17.9
0.48	0.34	41.6	16.1
0.39	0.32	40.6	16.4
0.3	0.26	34.3	16.4
0.38	0.32	33.4	15.9
0.38	0.31	29.8	17
0.31	0.26	26.9	16.8
0.38	0.31	30.3	17.5
0.37	0.3	33.3	15.4
0.39	0.32	33.6	15.5
0.45	0.37	31.8	15.1
0.42	0.34	34.3	15.4
0.42	0.35	33.1	14.9
0.36	0.29	34.1	15
0.36	0.3	36.4	16.1
0.47	0.39	34.6	15
0.67	0.55	34.9	15.6
0.71	0.58	33.2	15.4
0.74	0.61	34.3	15.9
0.71	0.58	37	16.5
0.63	0.52	34.7	15.7
0.64	0.53	37.1	15.8
0.6	0.49	36.7	15.2
0.72	0.59	34.5	14.5
0.77	0.64	36.4	15
0.73	0.6	34.3	14.7
0.84	0.69	36.9	14.7
1.14	0.94	36.5	16.3
0.83	0.68	37.3	16.3
0.67	0.55	34.7	15
0.45	0.37	35.2	16.4
0.53	0.43	36.7	16.9

993

0.64	0.53	36.6	17.4
0.68	0.56	33.6	16
0.5	0.41	33.9	15.2
0.9	0.74	34.2	15.8
0.64	0.53	33.8	15.5
0.56	0.54	32.2	15.7
0.87	0.67	32.6	16.2
0.69	0.59	31.8	16.6
0.75	0.61	31.1	16.9
0.64	0.59	31	17
0.47	0.27	38.9	16.2
0.43	0.3	39.7	14.6
0.45	0.27	38.7	14.7
0.52	0.29	39.8	15.1
0.5	0.28	39.9	15.5
0.53	0.34	37.4	15.5
0.52	0.32	38.3	15.1
0.49	0.29	39.7	16
0.63	0.52	34.67	15.74
0.64	0.53	37.1	15.75
0.18	0.22	36.2	17.5
0.88	0.4	28.7	15.4
0.64	0.34	15.4	17
0.61	0.33	17.9	18.4
0.72	0.33	17.9	15.6
0.57	0.24	21.4	16.1
0.45	0.23	20.7	17.7
0.47	0.23	35.6	17.9
0.44	0.24	48.2	17.9
0.47	0.26	44.9	16.4
0.27	0.17	32.9	25.3
0.28	0.15	47.1	30.5
0.33	0.19	33	9.6
0.26	0.16	22.3	7.9
0.34	0.22	32.8	20.3
0.34	0.21	20.8	13.3
0.45	0.27	25	10.6
0.61	0.31	36.4	6.2
0.57	0.29	44.1	11.1
0.59	0.3	74.8	20.8
0.59	0.3	104.2	30.6
0.57	0.3	71.7	24.7
0.47	0.27	45.8	10.9
0.45	0.26	26.8	5.4
0.48	0.27	23.2	4.6
0.45	0.26	31.4	6.3
0.44	0.26	30.9	6.2
0.52	0.28	34.2	6.8
0.49	0.27	39.9	8
0.51	0.28	35.4	7.1
0.57	0.3	39.7	7.9
0.64	0.32	46.2	9.2

994

0.65	0.33	43.6	8.7
0.63	0.32	37.1	7.4
0.6	0.31	34.8	7
0.65	0.33	42.4	8.5
0.58	0.3	36.9	7.4
0.58	0.3	38.3	7.7
0.65	0.33	40	8
0.61	0.31	40.8	8.2
0.61	0.31	42.9	8.6
0.57	0.3	37.9	7.6
0.59	0.31	33.4	6.7
0.67	0.33	38.1	7.6
0.71	0.34	44.7	8.9
0.68	0.33	37.5	7.5
0.6	0.31	20.7	4.1
0.54	0.29	18.4	3.7
0.52	0.28	25.3	5.1
0.38	0.25	24.9	5
0.43	0.26	27.5	5.4
0.29	0.37	38.2	11.6
0.1	0.14	48.9	9.8
0.23	0.16	43	8.6
0.35	0.25	42.2	8.4
0.2	0.14	37.5	7.5
0.22	0.18	39.1	7.8
0.27	0.09	47	9.4
0.27	0.28	47.8	9.6
0.08	0.05	54.5	10.9
0.2	0.16	53.6	10.7
0.38	0.15	46	9.2
0.15	0.17	36.2	7.2
0.09	0.12	41.6	8.3
0.21	0.27	44.7	8.9
0.43	0.31	54.8	11
0.22	0.21	58.7	11.8
0.37	0.33	58.9	11.7
0.36	0.3	48.72	9.74
0.33	0.38	45.94	9.19
0.39	0.41	42.6	8.5
0.6	0.65	47.6	9.5
0.36	0.29	42.1	8.4
0.2	0.17	43.4	8.7
0.48	0.18	46.8	9.4
0.54	0.22	52.3	10.5
0.57	0.53	47.9	9.6
0.4	0.35	45.9	9.2
0.78	0.25	45.5	9.1
0.87	0.36	42.7	8.5
0.63	0.45	48.7	9.7
0.55	0.33	41.2	8.2
0.48	0.34	49	9.8
0.76	0.49	57	11.4

995

0.68	0.39	47.3	9.5
0.32	0.19	29.9	6
0.38	0.22	35.5	7.1
0.6	0.4	45.3	9
0.58	0.39	48.2	9.7
0.49	0.3	42.4	8.5
0.51	0.33	42.5	8.6
0.45	0.25	44.9	9
0.51	0.33	45.5	8.6
0.43	0.25	46.3	9
0.44	0.27	50.4	10.1
0.44	0.26	44.2	8.9
0.4	0.3	49.8	8.9
0.34	0.21	41.3	6.7
0.32	0.2	42	7.7
0.38	0.25	44	8
0.41	0.26	53.1	9.2
0.4	0.24	39.9	6.8
0.32	0.2	42.3	6.6
0.24	0.16	38.7	5.8
0.37	0.28	46.2	6.3
0.41	0.3	41	6.6
0.3	0.19	40.7	6.7
0.35	0.21	40.1	8
0.42	0.25	44.4	8.9
0.43	0.26	49.6	9.8
0.35	0.23	40.2	7.2
0.4	0.26	38.3	6
0.33	0.22	38.3	6.5
0.37	0.24	42.3	6.4
0.31	0.2	34	4.8
0.29	0.19	35.1	5.3
0.36	0.24	37.7	4.9
0.36	0.23	42.6	6.4
0.35	0.21	40.7	8.1
0.41	0.25	40.4	8
0.32	0.2	38.7	7.6
0.26	0.18	26.7	4.8
0.22	0.14	32.7	6.5
0.34	0.2	46	9.1
0.32	0.18	32.5	5.2
0.34	0.19	25.3	4.6
0.42	0.19	29	5.8
0.54	0.18	42.8	8.6
0.5	0.17	40.1	8
0.54	0.18	40.8	8.2
0.54	0.18	42.8	8.6
0.65	0.22	47.1	9.4
0.49	0.16	38.75	7.78
0.61	0.2	49.2	9.8
0.54	0.18	42.8	8.1
0.7	0.23	38.2	7.6

0.24	0.08	18.9	3.8
0.33	0.11	26.3	5.3
0.46	0.15	36.8	7.4
0.26	0.09	20.9	4.2
0.25	0.08	19.6	3.9
0.28	0.09	22.3	4.5
0.28	0.09	22.5	4.5
0.31	0.1	24.5	4.9
0.37	0.12	29.5	5.9
0.35	0.12	27.6	5.5
0.39	0.13	30.9	6.2
0.32	0.11	25.9	5.2
0.26	0.09	20.6	4.1
0.23	0.08	18.1	3.6
0.18	0.06	14.2	2.8
0.25	0.08	20.3	4.1
0.34	0.11	26.9	5.4
0.21	0.07	16.8	3.3
0.21	0.07	17.1	3.4
0.24	0.08	19.4	3.9
0.38	0.13	31.4	6.3
0.3	0.11	22.2	4.6
0.32	0.12	24.9	5
0.22	0.08	19.6	3.8
0.22	0.07	17.7	3.5
0.28	0.09	22.3	4.5
0.32	0.11	25.8	5.2
0.31	0.1	24.6	4.9
0.31	0.1	24.9	5
0.27	0.09	21.5	4.3
0.27	0.09	21.9	4.4
0.66	0.22	48.1	11.1
0.39	0.13	29.4	7.4
0.22	0.07	23.1	5.8
0.21	0.07	26.7	6.8
0.21	0.07	26.4	6.7
0.17	0.06	21.2	5.3
0.19	0.06	20.9	5.3
0.15	0.05	19	4.8
0.14	0.05	17.4	4.4
0.14	0.05	17.2	4.4
0.12	0.04	14.6	3.7
0.1	0.03	13.2	3.3
0.13	0.04	16.5	4.2
0.17	0.06	20.7	5.2
0.16	0.05	20.8	5.2
0.16	0.05	20.7	5.2
0.19	0.06	23.9	6
0.23	0.08	29.1	7.3
0.17	0.06	21.2	5.4
0.12	0.04	14.9	3.8
0.12	0.04	14.8	3.7

997

0.13	0.04	15.9	4
0.2	0.07	25.3	6.4
0.15	0.04	15.1	3.8
0.16	0.04	15.1	3.8
0.18	0.04	16.8	4.2
0.19	0.05	18.4	4.7
0.2	0.05	19	4.8
0.24	0.06	20.8	5.2
0.26	0.07	24.9	6.3
0.27	0.07	25.5	6.5
0.2	0.05	19	4.8
0.34	0.09	32.4	8.2
0.25	0.07	26.6	6.7
0.15	0.05	18.5	4.7
0.14	0.05	17.2	4.4
0.14	0.05	17.8	4.5
0.13	0.04	16.3	4.1
0.13	0.04	16.8	4.2
0.15	0.05	18.5	4.7
0.15	0.05	19.3	4.9
0.13	0.04	16	4
0.1	0.03	13	3.3
0.1	0.03	12.1	3.1
0.09	0.03	10.9	2.7
0.06	0.02	8.1	2.1
0.05	0.02	6.1	1.6
0.06	0.02	7.6	1.9
0.07	0.02	9.2	2.3
0.11	0.04	13.6	3.4
0.22	0.07	27.8	7
0.14	0.05	18	4.5
0.13	0.05	16.5	4.2
0.09	0.03	11.2	2.8
0.1	0.04	13.1	3.4
0.08	0.03	10.3	2.6
0.11	0.04	13.9	3.5
0.09	0.03	10.9	2.8
0.08	0.03	10	2.5
0.06	0.02	8.6	2.2
0.05	0.02	7.8	2
0.07	0.02	10.2	2.6
0.23	0.08	30.6	7.7
0.24	0.08	32.4	8.2
0.19	0.06	25.9	6.5
0.14	0.05	18.9	4.8
0.1	0.04	14.9	3.8
0.04	0.01	6.9	1.7
0.04	0.01	5.5	1.4
0.05	0.02	7.5	1.9
0.09	0.03	13.6	3.4
0.1	0.03	14.4	3.6
0.11	0.04	16.2	4.1

0.09	0.03	13.3	3.4
0.09	0.03	12.5	3.2
0.08	0.03	12.1	3.1
0.08	0.03	12.7	3.2
0.08	0.03	12.8	3.2
0.08	0.03	12.1	3
0.08	0.03	12.1	3.1
0.08	0.03	11.5	2.9
0.09	0.03	13.5	3.4
0.1	0.04	13	3.3
0.07	0.03	11.1	2.8
0.06	0.03	17.1	4.6
0.06	0.03	27.4	8.1
0.07	0.03	24.8	6.9
0.09	0.04	15.6	4
0.08	0.04	14.4	3.6
0.07	0.04	14.7	3.7
0.05	0.03	14.4	3.6
0.05	0.03	13.2	3.3
0.05	0.03	16.1	4.1
0.05	0.03	16.66	4.21
0.06	0.03	19.2	4.9
0.06	0.03	19.2	4.9
0.06	0.03	20.4	4.3
0.06	0.03	22.3	3.7
0.06	0.03	18.5	3.1
0.06	0.03	18.2	3
0.06	0.03	19.6	3.3
0.06	0.04	13.6	2.3
0.07	0.04	13.3	2.2
0.06	0.04	13.3	2.2
0.07	0.04	10.6	1.8
0.07	0.04	10.9	1.8
0.07	0.04	13.2	2.2
0.07	0.04	15.6	2.6
0.06	0.04	13.4	2.2
0.07	0.04	12.5	2.1
0.07	0.04	14.2	2.4
0.07	0.04	14.4	2.4
0.07	0.04	15	2.5
0.07	0.04	14.7	2.4
0.07	0.04	15	2.5
0.07	0.04	16.5	2.8
0.08	0.04	16.5	2.7
0.08	0.04	17.3	2.9
0.08	0.04	15.9	2.6
0.08	0.04	12.7	2.1
0.33	0.07	12.9	2.2
0.68	0.19	12	2
0.55	0.28	12.6	2.1
0.55	0.28	12.6	2.1
0.57	0.29	15.2	2.5

999

0.59	0.3	16.7	2.8
0.59	0.3	18	3
0.58	0.3	18	3
0.58	0.3	17.5	2.9
0.59	0.3	16.7	2.8
0.61	0.31	19.2	3.2
0.6	0.31	21.3	3.5
0.6	0.31	19.8	3.3
0.6	0.31	18.4	3.1
0.62	0.32	18.3	3.1
0.61	0.31	18.4	3.1
0.58	0.3	18.3	3.1
0.59	0.3	16.6	2.8
0.61	0.31	17.13	2.58
0.3	0.16	8.63	5.81
0.05	0	6.2	11.2
0.04	0	2.9	7.2
0.06	0.01	4.3	7.9
0.24	0	30.5	17.7
0.45	0	28.2	12.5
0.26	0	25.1	12.5
0.26	0	4.4	6.7
0.07	0	13.9	7.3
0.85	0	5.8	6.7
0.08	0	10.1	6.9
0.06	0	17	9.2
0.59	0	30.5	12.2
0.86	0.01	37	15.2
1.35	0	42.9	18.7
0.78	0	33.1	24.8
0.47	0	38.6	29
1.05	0.06	31.9	21.5
0.56	0	26.7	20.2
0.08	0	21	21.4
0.19	0	21.3	21.3
0.27	0	20.5	24.4
0.12	0	8.8	13.8
0.72	0	30.3	32.7
0.18	0.01	20.3	22.1
0.23	0.02	3.9	7.4
0.12	0.03	3.4	5.1
0.07	0.04	3.7	6.3
0.09	0.06	6.7	10
0.21	0.03	19.4	13.9
0.16	0.01	31.3	16.3
1.13	0	46.9	18.6
0.09	0.03	27.3	13.9
0.08	0.11	14.6	9.9
0.08	0.01	3.5	5.7
0.12	0.02	3.6	5.7
0.16	0.01	11.4	9.9
0.15	0	30.7	22.3

1000

0.2	0	36	23.7
0.14	0	21.9	24.6
0.38	0.02	9.3	13.5
0.15	0.01	12.1	10
0.13	0	20.2	11.1
0.11	0.01	3.7	5.9
0.16	0.1	17.6	10.6
1.02	0	37.4	17.1
0.29	0.01	27.4	14.8
2.29	0	35	13.1
0.34	0	12.5	12.5
1.92	0.02	48.7	25.1
1.86	0.01	46.1	30.7
2.51	0.01	50.8	37.1
3.4	0	37.8	27.8
1.49	0	33.4	34.5
3.11	0.04	<Samp	<Samp
1.12	0	<Samp	<Samp
3.61	0	61	48.2
1.28	0	41	41.6
1.31	0	45.1	38.7
3.65	0	49.9	28.6
0.31	0	18.7	21.8
0.25	0	12.4	13.3
0.17	0.1	14.2	15.6
0.55	0.01	36.2	28.1
2.58	0	61.4	54.4
18.98	0	75.9	42.5
4.47	0.05	68.3	51
2.2	0.05	47.7	54
1.45	0.01	45.7	43.1
0.76	0.21	32.3	33
0.79	0.09	28.7	31.9
0.68	0.04	42.5	36.8
0.09	0.2	45.2	39.5
0.23	0	46.8	48.2
1.36	0	61.5	61.6
0.71	0.02	41.9	54.4
0.76	0.13	53.9	64.2
1.77	0.1	58.1	68.5
2.05	0.03	71	88.8
5.84	0	92.7	82.1
4.13	0	76.6	83
2.48	0.04	63.6	89.3
1.28	0	50.5	83
0.81	0.02	36.2	63
1.83	0	45.9	60
3.3	0	61.4	58.1
4.86	0	82.5	79.3
4.25	0	62.2	81.5
2.78	0.1	62.7	69.5
0.72	0	65.4	55.3

1001

0.03	0	19.5	32.8
0.48	0	39.4	44.7
0.42	0	45.7	46.7
2.22	0	78.2	61.3
0.65	0	45.9	57.4
1.39	0	50	55.4
2.75	0	35.2	47.2
0.53	0	56.9	36.5
1.29	0	55.9	47.2
1.54	0	190.6	47.4
0.87	0	164.7	34.1
1.18	0.1	176	26.7
0.77	0	130.9	39.4
1.21	0	136.4	26.6
2.04	0	98.9	30.2
4.99	0	84.4	33.9
4.46	0.07	153.1	44.3
2.74	0	80.6	36.4
1.07	0.02	96	41.5
1.9	0	218	57.5
3.25	0	108.9	79.2
2.03	0.27	107.6	76
3.67	0	116.3	83.6
3.21	0	99.6	69.7
4.61	0	118	71.7
3.47	0.01	90.8	53.8
1.19	0	79.3	62
0.92	0	96.5	71.4
1.61	0	104	71.5
1.06	0	66	52
0.96	0	63.6	48.4
2.08	0.01	70.7	37.5
0.66	0.01	39.4	23.3
0.31	0.01	35	19.3
0.57	0.05	44.5	19.9
0.64	0.07	39	12.9
0.46	0.01	35.5	13.8
0.59	0	33.8	13.7
1.39	0	40.8	14.5
1.39	0.01	43.9	12.5
0.58	0.01	33.5	10.8
0.15	0.01	40.2	13.4
0.43	0.44	51.3	17.7
2.61	0.12	55.3	20.1
1.81	0.35	47.2	16
0.27	0.46	39.4	11.4
0.41	0.15	41.8	13.7
0.33	0.4	41.4	14.7
0.65	0.59	43.6	15.4
1.01	0.62	46	12.5
0.34	0.49	40.7	11.4
0.37	0.52	43.2	13.1

1002

0.33	0.56	50.1	13.3
0.75	0.63	245	33.4
0.62	0.16	254.5	33.1
0.42	0.26	75.3	11.9
0.45	0.43	19.8	8.2
0.9	0.4	19.5	7.9
2.17	0.34	196.5	24.1
<Samp	<Samp	<Samp	<Samp
1.08	0.5	24	26.2
6.79	2.03	66.9	40.7
5.77	2.22	42.5	29.5
6.12	2.37	55.3	30.8
1.25	0.25	29.2	20.7
4.57	1.08	47.9	22.3
7.37	2.32	55.6	37.5
6.55	2.68	71.4	45.2
8.93	3.75	55.9	32
3.26	1.13	36.9	25.8
5.34	2.23	43.9	18.3
2.29	0.69	26.3	16
6.21	1.7	34.3	19.5
3.8	1.15	24.3	12.9
1.8	0.46	21.1	16.3
0.6	0.4	18.3	11.3
0.23	0.07	19.3	13.5
0.75	0.23	24.1	16.6
0.84	0.44	18.4	14.3
1.46	0.38	27.1	13.8
1.52	0.77	23.5	11.8
0.36	0.51	12.4	9.7
2.69	0.65	32.3	16.7
3.19	1.52	26	12.2
1.24	0.31	25.3	19.2
1.68	0.53	24.6	20.5
3.5	0.91	29	21
3.17	0.87	21.9	15.5
0.86	1.12	10.7	8.4
0.9	0.27	18	9.5
0.36	0.28	13.8	12.5
2.93	0.76	22	16.6
2.92	0.83	20.2	13.6
0.46	0.21	12.9	9.3
0.15	0	9.8	6.9
0.12	0.06	9.9	7
0.37	0.16	19.5	14.1
0.89	0.79	26	19.1
1.52	1.09	31.6	20.5
3.17	1.68	31.6	17.4
2.28	1.02	22.2	15.4
0.73	0.51	14.5	11.9
0.79	0.51	15	11.1
1.99	0.67	53.5	15.5

1003

1.18	0.27	20.8	11.4
0.6	0.25	16.3	10.7
1.56	0.46	34.1	12
1.58	0.4	11.3	8.8
6.33	2.1	20	11.2
4.5	1.76	14.8	10.1
6.46	1.49	18.1	10
3.94	0.63	14.1	9.1
0.83	0.39	26.2	8.2
0.77	0.34	75.4	10.9
3.01	1.45	47	19.3
1.72	1.22	11.5	15.5
0.87	0.53	11.5	15.4
0.39	0.5	8.6	13.3
0.57	0.57	15.3	16.1
0.26	0.45	13	15.8
0.28	0.22	18.9	17.8
0.6	0.08	17.4	19.1
0.28	0.43	12.4	14.7
0.64	0.46	11.1	15.7
0.22	0.27	18.7	19
0.14	0.27	7.8	17.3
0.14	0.19	6.8	10.6
0.2	0.26	13.9	14.8
0.35	0.22	13.8	14.6
0.47	0.13	15.4	16.1
0.44	0.12	14.8	25.5
0.48	0.14	29.8	26
0.43	0.21	11.7	24.3
0.38	0.11	11.7	20
0.52	0.06	15.3	25
0.53	0.06	7.4	19.9
0.52	0.07	23.3	25.8
0.34	0.05	23.5	28.7
0.34	0.05	28	29.3
0.4	0.08	26.9	26.3
0.29	0.05	25.5	22.7
0.28	0.05	24.5	25.4
0.29	0.05	11.3	21.2
0.23	0.05	10.5	17.3
0.21	0.06	21.1	17.7
0.27	0.05	21.6	18.2
0.35	0.05	17.6	19.7
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0.41	0.24	23.5	43.5
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1004

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1005

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3.03	43.96	12.47	3.23
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3.67	35.19	6.05	11.75
0.28	29.6	4.03	0
1.66	30.37	4.32	201.84
0.65	31.06	4.31	290.88
0.72	36.69	5	239.76
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0.49	41.49	4.18	83.9
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0.16	31.94	5.25	122.82
0.21	32.48	4.31	122.5
0.39	36	4.02	3631.34
0.25	38.96	3.96	0
0.34	41.73	4.08	0
0.25	46.57	4.15	58.36
0.24	42.08	3.94	47.69
0.35	43.99	4	13.81
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0.29	41.27	4.26	0
0.28	34.01	4.85	3337.32
0.39	15.6	4.68	3.88
0.39	15.2	5.27	65.06
0.33	17.21	5.68	107.62
0.25	15.38	5.2	274.06
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0.32	14.7	4.46	0
0.38	14.03	3.72	0
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0.43	25.05	10.77	0
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0.24	30.77	10.25	0
0.33	28.67	9.12	0
0.4	26.81	8.35	0
0.42	35.95	7.14	0
0.3	26.27	8.52	0.09

1006

0.26	0.98	32.7	9.76
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0.17	0.35	32.73	14.41
0.15	0.24	32.42	18.91
0.22	0.26	34.92	15.67
0.18	0.32	27.91	17.2
0.3	0.27	38.44	20.67
0.55	0.38	48.01	19.47
0.35	0.21	34.16	18.82
0.66	0.34	94.17	17.61
3.9	1.42	88.99	26.32
4.05	1.9	80.89	32.04
4	3.03	77.45	68.09
0.69	46.73	39.1	0
0.38	38.9	29.8	0
0.54	45.01	31.92	0
0.46	47.22	27.48	0
1.07	66.63	30.57	0
0.58	32.69	30.05	0
0.35	32.07	35.11	0
0.33	16.33	26.76	0
0.22	27.91	24.18	0
34.17	21.11	21.29	0
0.2	18.45	19.44	0
0.66	44.98	25.12	0
0.27	28.24	22.94	0
0.37	25.72	24.72	0
0.19	25.33	25.52	0
0.3	24.58	28.16	0
0.32	34.03	27.06	0
0.29	28.73	24.99	0
0.19	30.87	23.54	0
0.21	20.86	27.44	0
0.18	25.6	28.13	0
0.37	38.21	29.57	0
1.19	45.62	34.25	0
0.83	40.98	30.28	0
1.5	63.58	31.89	0
0.94	44.91	31.46	12.73
0.51	0.31	30.49	31.72
3.17	1.32	59.91	40.98
1.44	0.56	49.9	38.18
5.61	2.74	70.89	40.48
2.48	0.93	48.08	41.06
1.45	0.45	49.25	39.43
3.61	1.45	45.72	43.98
4.97	1.99	41.15	43.79
6.43	2.63	63.94	34.24
3.64	1.29	43.35	35.65
3.4	1.11	34.47	35.47
4.62	1.81	60.81	40.2
6.37	2.51	57.14	34.27

1007

6.37	2.37	55.71	34.69
4.46	1.56	89.33	29.72
10.89	4.03	89.46	34.41
2.86	1.22	102.58	29.24
6.18	2.45	131.51	26.26
3.3	1.43	44.65	30.44
4.87	2.02	42.31	37.93
7.25	4.13	40.65	38.56
7.62	9.2	50.29	41.32
9.88	4.34	220.51	38.71
4.17	1.84	114.56	33.61
5.22	2.03	171.36	32.92
7.33	3.37	165.24	30.18
8.96	5.59	65.24	27.73
5.03	2.25	13.05	19.04
8.29	3.93	20.34	20.08
6.24	2.97	21.57	22.74
4.11	1.69	19.85	20.28
3.92	1.68	23.55	23.21
3.97	1.73	36.15	30.14
3.36	1.37	33.61	21.9
2.96	0.95	45.69	28.09
3.43	1.21	83.55	53.31
2.8	0.79	121.48	41.11
3.69	1.42	171.18	39.32
4.09	1.62	195.03	39.28
4.81	2.18	148.74	39.96
5.8	2.66	141.92	35.43
6.29	3.12	71.1	25.51
11.67	6.25	54.35	27.53
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3.12	1.41	29.6	28.58
3.73	1.71	31.57	28.51
2.76	1	20.72	26.49
2.56	0.96	18.85	21.21
3.45	1.77	20.66	20.84
2.74	0.97	14.67	29.75
3.08	1.14	22.25	20.83
3.49	1.34	150.02	27.95
3.36	5.58	63.87	24.38
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4.13	1.77	24.94	12.35
2.92	1.12	40.14	14
3.69	1.54	25.2	12.4
3.9	1.6	30.43	11.6
1.92	0.64	30.03	12.97
3.38	1.29	38.46	14.81

1008

5.26	2.32	41.76	17.94
4.6	2.09	45.01	16.13
3.93	1.63	36.62	15.14
5.45	2.64	23.96	14.15
8.73	4.72	20.1	11.58
9.51	4.82	18.14	8.89
7.05	3.54	18.15	7.32
4.46	1.85	20.76	8.53
5.25	2.28	20.87	11.01
6.44	3.46	18.9	10.8
5.09	2.59	18.44	8.59
5.62	2.83	17.57	10.33
7.09	4.05	16.53	8.37
4.99	2.02	17.38	8.54
6.4	3.09	18.66	9.78
7.93	4.09	19.59	9.61
6.74	3.91	22.74	11.87
0.49	0.5	19.3	11.19
1.08	1.29	14.72	12.32
1.18	1.88	15.6	15.06
NoData	NoData	NoData	NoData
1.01	1.51	15.67	10.45
1.02	1.54	14.28	10.56
1.02	1.57	13.88	10.65
1.02	1.65	14.43	10.97
1.01	1.66	14.3	10.99
1.01	1.4	17.65	10
1.02	1.42	15.86	10.1
1.01	1.58	15.51	10.72
1.57	1.44	15.84	10.39
5.39	3.39	15.85	10.46
3.78	2.23	15.74	10.26
2.68	0.99	15.09	10.39
1.26	0.44	16.36	10.9
1.3	0.44	15.99	11.24
4.63	1.29	16.25	11.09
7.19	3.47	17.22	10.18
1.75	0.44	17.09	9.75
3.59	1	17.27	10.03
3.58	1.2	16.36	9.69
4.69	1.88	16.24	9.85
7.42	3.01	15.86	10.08
2.86	0.96	15.24	9.92
4.75	1.35	16.31	10.17
7.11	2.89	16.67	10.38
9.55	4.01	16.38	11.2
6.61	2.42	15.69	11.49
8.04	3.1	16.53	11.4
6.47	2.66	16.89	10.77
6.29	2.51	17.14	11.23
5.92	2.37	16.86	12.46
9.37	4.37	17.15	11.35

1009

10.24	4.38	16.84	11.01
7.08	3	16.35	10.75
6.16	2.47	16.5	10.74
8.48	3.65	17	10.88
4.96	1.87	16.59	10.16
5.1	1.81	15.49	9.92
6.04	2.26	14.74	10.3
5.41	2.44	14.11	10.16
1.06	0.36	16.47	10.13
2.34	0.87	16.24	10.31
4.3	1.51	16.08	10.18
1.56	0.57	16.78	10.12
1.02	0.52	16.98	10.23
1.75	0.64	16.2	10.21
2.43	0.69	16.17	10.14
4.35	1.48	15.21	10.54
4.33	1.46	15.94	11.36
10.75	4.56	15.98	11.18
3.96	0.94	15.67	10.42
7.84	3.19	16.62	11.61
13.44	5.9	17.07	12.07
12.13	5.15	16.71	12.19
7.36	2.87	16.74	11.89
3.22	1.06	16.78	10.8
2.39	0.61	16.06	10.67
5.32	1.74	16.28	11.92
4.78	1.41	16.63	11.85
7.46	3.01	16.13	11.48
5.68	2.43	16.53	11.31
5.26	1.87	16.95	11.21
2.07	0.67	17.17	10.88
3.1	0.83	15.18	10.86
3.36	0.99	14.71	10.79
2.37	0.75	15.65	10.62
3.18	0.91	14.43	10.67
1.78	0.63	14.64	10.57
4.27	1.32	14.64	10.85
9.43	4.14	15.19	11.68
6.68	2.67	15.62	11.99
11.32	5.17	15.49	13.41
2.73	0.92	15.73	10.99
0.62	0.21	15.52	10.95
0.51	0.31	15.64	11.22
1.03	0.42	15.74	11.08
0.79	0.25	14.58	10.75
0.29	0.16	14.16	10.72
0.38	0.34	16.63	10.59
1.75	0.36	15.63	11.52
1.73	0.43	15.61	11.75
1.71	0.52	16.97	12.2
6.8	2.98	17.61	12.56
4.25	1.18	15.54	11.91

1010

1.12	0.25	15.74	11.29
0.9	0.31	24.56	22.55
1.86	0.64	155.8	25.87
1.64	0.44	128.06	26.09
1.02	0.41	118.97	28.71
1.38	0.68	132.05	28.53
1.78	0.95	80.47	15.21
0.26	0.16	92.31	3.45
1.83	0.56	76.71	5.52
2.67	1	159.85	9.2
2.52	1.12	120.61	19.49
2.97	1.38	257.63	11.44
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0.03	0.07	115.88	1
0.06	0.1	66.06	3.68
0.03	0.05	81.48	5.8
0.02	0.02	84.99	8.17
0.03	0.05	95.51	5.45
0.06	0.06	165.59	1.88
0.07	0.07	96.98	1.62
0.04	0.11	83.17	1.91
0.06	0.08	93.7	0.98
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0.07	0.14	85.02	22.03
0.05	0.07	71.35	21.66
0.03	0.04	70.98	31.13
0.04	0.07	37.36	33.58
0.05	0.08	19.82	33.06
0.04	0.08	22.7	33.26
0.04	0.08	41.73	29.64
0.05	0.07	47.59	25.17
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3.67	3.71	8.41	17.58
0.09	0.09	5.93	19.76
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0.06	0.1	6.86	23
0.07	0.09	1.63	26.49
0.05	0.09	1.7	26.45
0.05	0.07	1.79	26.4
0.08	0.07	1.71	26.43
0.06	0.09	1.82	26.65
0.1	0.06	32.34	25.98
0.35	0.29	33.98	25.62
0.53	0.46	1.39	27.58

1011

0.06	0.13	1.41	27.39
0.05	0.06	1.68	27.33
0.08	0.09	1.97	27.52
0.11	0.13	1.96	28.93
0.06	0.11	3.92	29.54
0.06	0.06	2.44	29.19
0.04	0.08	1.59	26.37
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0.03	0.05	6.68	16.45
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0.08	0.12	7.57	15.95
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0.05	0.36	6.92	16.1
0.04	0.05	6.92	16.07
0.07	0.04	13.53	15.88
0.15	0.07	6.96	16.52
0.04	0.07	6.75	16.48

1012

0.08	0.08	4.03	17.73
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0.03	0.05	6.74	12.12
0.05	0.05	6.8	12.05
0.03	0.05	6.95	12
0.04	0.05	7.03	11.95
0.05	0.06	7.06	11.91
0.04	0.05	7.24	11.8
0.04	0.05	7.18	11.84
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0.05	0.07	7.29	11.74
0.04	0.05	7.28	11.74
0.04	0.09	7.35	11.71
0.07	0.06	7.42	11.68
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0.05	0.11	7.55	11.68
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0.08	0.22	7.6	11.64
0.08	0.22	7.63	11.61
0.07	0.19	7.63	11.65
0.08	0.14	7.66	11.62
0.08	0.32	7.85	11.53
0.09	0.25	7.71	11.57
0.08	0.16	7.68	11.57
0.08	0.21	7.71	11.59
0.07	0.14	7.83	11.58
0.1	0.24	7.76	11.61
0.08	0.17	7.8	11.59
0.1	0.3	8.13	11.44
0.05	0.07	8.18	12.02
0.05	0.09	8.99	13.47
0.14	0.15	11.62	16.04
0.08	0.11	8.28	11.57
0.08	0.2	8.41	11.51
0.05	0.17	8.41	11.49
0.12	0.13	8.52	11.29
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0.06	0.05	8.43	11.28
0.04	0.06	8.58	11.41
0.05	0.08	12.4	18
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0.05	0.07	8.84	11.13
1.65	1.69	13.67	11.18
0.05	0.09	7.53	11.65
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0.18	0.23	7.41	11.69
0.18	0.33	9.46	11.93

1013

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0.23	0.39	30.69	19.32
0.14	0.18	44.07	20.52
0.24	0.24	49.68	21.17
0.23	0.29	74.72	11.87
0.19	0.25	64.29	3.48
0.18	0.32	55.49	5.32
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0.44	0.86	71.89	4.14
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0.23	0.23	44.29	8.28
0.22	0.21	48.28	9.45
0.25	0.64	60.24	8.73
1.09	0.74	55.16	11.18
0.92	0.4	55.72	7.03
0.24	0.13	41.39	7.58
0.14	0.16	31.96	8.58
0.21	0.21	54.18	10.31
0.21	0.23	53.14	6.95
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0.23	0.19	71.31	9.57
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0.16	0.15	24.62	11.19
0.14	0.21	18.8	9.74
0.18	0.24	41.95	5.99
0.16	0.24	4.59	6.14
0.15	0.17	4	6.92
0.13	0.2	7.42	7.48
0.1	0.19	21.06	8.73
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0.16	0.19	31.77	5.72
0.14	0.12	39.94	4.62
0.19	0.11	46.89	7.74
0.24	0.23	68.48	8.02
0.33	0.29	71.08	11.68
0.44	1	60.74	8.73
0.24	0.75	39.78	21.4
0.52	0.88	51.97	24.09
0.29	0.4	67.12	33.11
0.29	0.29	88.4	24.3

1014

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0.12	0.24	21.38	15.99
0.17	0.23	21.08	20.4
0.16	0.25	34.89	17.62
0.2	0.26	33.51	19.06
0.27	0.23	63.86	17.65
0.2	0.13	71.26	33.37
1.2	0.44	76.64	31.59
0.68	0.5	86.77	37.97
0.28	0.23	45	35.27
0.24	0.27	41.63	34.3
0.2	0.14	38	49.31
1.08	0.44	100.34	35.57
1.64	0.08	81.76	39.29
1.34	0.11	79.44	29.08
0.52	0.25	61.91	29.97
1.03	1.02	80.64	31.28
0.68	0.51	49.2	35.26
0.3	0.41	53.93	37.37
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0.83	1.17	82.36	32.67
1.02	0.79	104.34	44.89
0.71	0.38	77.9	28.2
0.5	0.21	75.24	33.21
0.4	0.21	63.93	36.78
0.18	0.08	72.74	36.52
0	0	107.49	32.15
0	0	122.16	38.99
0.1	0.19	100	36.37
0.31	0.8	136.25	27.85
0.49	1.01	141.12	24.66
0.3	0.81	132.02	24.98
0.31	0.78	156	30.74
0.24	0.45	172.29	17.41
0.26	0.54	139.96	18.78
0.21	0.34	124.43	21.89
0.18	0.42	124.94	14.05
0.18	0.48	138.13	8.67
0.3	0.55	132.21	15.53
0.14	0.46	127.81	19.92
0.1	0.17	126.28	16.05
0.14	0.11	144.58	29.67
0.12	0.13	151.98	16.93
10.73	2.31	121.24	28.58
1.39	0.85	176.9	9.8
0.66	0.28	307.1	1.7

1015

0.46	0.31	202.1	5.4
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0.93	1.03	126.7	13
0.7	1	75.4	21.6
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0.48	0.52	68	23.6
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0.68	0.59	99.3	18.8
1.8	1	107.3	16.3
1.66	2.32	129.7	12.4
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0.76	0.59	139.1	9.5
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0.63	0.54	92.5	12.9
0.96	0.88	82	18.8
0.64	0.44	110.3	11.2
0.94	0.98	96.3	12.1
1.92	2.07	91.7	15.1
2.29	2.15	97.9	10.4
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0.68	0.49	80.9	18.5
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1.23	0.87	49.9	23.6
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5.68	2.23	88.4	14
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7.18	5.76	53.9	11.5
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1016

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0.54	0.6	13.8	8.7
1.19	0.52	14.2	8.9
1.02	0.64	20.7	12.1
0.73	1.98	21.1	12.4
0.64	0.37	22	12.8
0.55	0.31	26	14.8
0.95	0.5	25.5	14.5
1.71	0.84	25	14.3
1.16	0.96	26	14.8
2.6	1.48	20.9	12.2
0.27	0.17	8.4	6
1.3	0.74	19.1	11.3
0.94	0.86	12.9	8.2
0.41	0.18	11.7	7.5
1.03	0.83	14.3	8.9
1.76	1.05	14.1	8.8
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0.37	0.35	19.7	11.6
0.19	0.21	20	11.8
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0.76	0.32	8.5	6
0.21	0.23	6.2	4.8
0.16	0.14	7.8	5.7
0.17	0.19	12.5	8
0.21	0.21	14.8	9.2
0.41	0.22	24.5	14.1
0.24	0.21	18.2	10.9
0.16	0.25	6.6	5
0.59	0.43	11.1	7.3
0	0	8.3	6
0	0	9.2	6.4
0	0	16.3	9.9
0.2	0.2	19.9	11.7
0.91	0.94	18.8	11.2
0.74	0.76	9.1	6.3
0.78	0.8	11.7	7.6
0.89	0.92	11.7	7.6
1.24	1.31	10.6	7.1
0.93	0.97	9.4	6.5
1.2	1.26	10	6.8
1.44	1.53	15	9.3
1.22	1.29	9.2	6.2
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1.05	1.1	9.4	6.5

1017

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0.91	0.94	14.5	9
0.85	0.88	18.3	11
0.76	0.78	15.8	9.7
0.58	0.58	14.4	9
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0.74	0.75	7	5.3
0.71	0.72	7.5	5.5
0.67	0.68	6.9	5.2
0.82	0.84	5.3	4.4
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0.67	0.67	11.6	7.6
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0.7	0.71	15.1	9.3
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0.75	0.77	15.7	9.7
0.8	0.82	16.3	10
0.95	0.99	15.8	9.7
0.92	0.96	17	10.3
0.98	1.03	16.4	10
0.78	0.8	16.4	10
0.32	0.29	16.1	9.8
0.34	0.31	16.5	10.1
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1018

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0.52	0.52	22.1	12.9
0.57	0.57	22.7	13.2
0.63	0.64	23.5	13.5
0.56	0.55	23.7	13.6
0.39	0.38	21.9	12.8
0.44	0.42	23.4	13.5
0.48	0.47	24	13.8
0.47	0.46	12.9	8
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0.96	1	9.2	6.1
0.92	0.96	0.8	1.1
0.94	0.98	2.4	2.3
0.95	0.99	3.9	3.2
0.92	0.96	2.3	2.4
0.92	0.95	3.3	2.9
0.96	1	2.7	2.7
1	1.05	2.4	2.6
1	1.05	2.4	2.7
1.01	1.05	2.5	2.7
0.93	0.97	2.3	2.6
0.91	0.95	2.4	2.6
0.92	0.96	2.5	2.7
0.9	0.93	2.6	2.7
0.9	0.94	2.8	2.9
0.88	0.91	2.4	2.6
0.99	1.03	3.2	3.2
1.08	1.14	3.6	3.5
1	1.04	3.1	3.2
0.94	0.98	3.2	3.2
0.95	0.99	5.5	4.4
0.95	0.99	10.1	6.9
0.93	0.96	9.4	6.5
0.94	0.98	9	6.3

1019

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1024

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1026

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1029

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2.46	1.44	12.2	9.6
2.08	1.24	10.7	8.1
2.26	1.25	13.6	10.1
1.63	0.95	13.8	9.9
1.57	0.91	12.2	9.1
2.26	1.32	12.5	9.9
1.93	1.1	15.1	11.3
3.03	1.66	16.6	12.3
2.52	1.34	15.6	10.8
2.32	1.79	16.9	10.5
2.27	1.27	15.9	10.1
2.28	1.26	17.8	11.5
2.18	1.34	16.3	11.6
1.37	0.89	15.7	10.8
<Samp	<Samp	13.5	9.7
0.61	0.46	12.6	8.5
0.8	0.48	14.1	9.7
0.78	0.48	11.7	9.5
0.89	0.43	10.7	8
1.01	0.42	10.7	8.3
0.83	0.34	15.5	8.3
0.86	0.36	21.6	9.9
0.9	0.37	21.2	9.9
1.03	0.42	22.4	10.9
1.3	0.54	22.9	12.1
3.3	27.64	22.2	11.5
4.65	2.18	23	12.1
4.2	2	<Samp	<Samp
3.3	1.81	50.9	52.9
5.13	2.37	109.2	66.8
3.59	1.67	62.1	57.8
4.64	2.56	81.1	59.4
3.06	1.43	71.5	56.5
4.83	2.33	89.5	50.5
5.56	2.72	84.6	50.6
4.54	2.18	75.2	56.1
3.53	1.68	70.2	55
4.72	2.24	102	60.9
4.93	2.49	95.3	63.4
4.67	2.25	92.1	55.6
5.47	2.59	93.4	51.9
3.3	1.51	77	48.5
4.15	1.89	98.1	47.8
4.35	2.12	72.5	41.6
4.21	2.12	69.9	38.4
2.49	1.26	41.2	45.9
3.42	1.71	64.1	46.6
2.34	1.18	54.5	30.1
2.23	1.09	38	37.1
2.65	1.51	38	33.8
4.43	2.21	71.1	36.4

1030

3.31	1.68	53.7	31.5
3.7	1.83	47.8	32.2
2.95	1.42	17.1	24.2
3.98	2.06	93.3	24.9
5.41	2.65	140.6	30
4.64	2.39	143.2	31.6
3.85	1.92	98.8	24.4
3.1	1.53	127.5	29.3
1.81	2.21	199.1	28.6
1.72	1.12	91.1	31.9
2.53	1.53	88.3	34.7
1.23	1.48	104.3	25.8
0.88	0.44	20.7	15.2
1.22	0.59	55.5	26.4
2.04	1.15	68.9	35.8
3.3	1.69	152	41.4
0.83	0.9	62.4	37.1
1	0.94	54.8	32.6
2.04	1.24	43.1	35.6
3.1	1.71	56.7	39.1
2.64	1.84	91	45
4.52	2.38	78.7	60.4
2.56	1.33	40.1	57.8
<Samp	<Samp	216.5	31.9
1.15	0.9	57.5	71
2.48	1.32	42.2	53.1
1.69	1.16	51	48.3
1.01	0.77	32.1	31.4
1.27	0.95	37	26.1
1.2	0.64	24.8	27.7
1.48	1.04	62.9	26.3
0.99	0.49	22.2	17.2
1.05	0.56	29.2	22.8
0.67	0.72	36.4	29.8
1.76	3.23	58.6	37
1.02	0.5	14.2	24.1
1.83	0.92	37.1	25.7
1.71	0.89	26.9	24.8
1.84	0.91	38.8	29.7
2.42	1.19	45.6	32.5
1.93	1.16	20.1	38.3
1.36	1.05	39.6	29.9
2.9	1.51	125.9	23.8
1.42	0.91	41.9	63.5
3	1.57	147.8	97.9
2.6	1.49	126.9	87.1
2.83	1.49	134.2	86.9
3.44	2.21	224	72.1
4.87	2.45	257.9	127.5
2.27	1.44	196.3	97.6
1.81	1.21	63.2	55.5
1.99	1.09	63.7	54.3

1031

0.92	0.5	30.2	23.3
1.01	0.5	47.3	35.3
1.43	0.72	32.2	41.8
0.89	0.46	13.4	19.5
1.23	0.67	65.2	43.3
1.42	0.7	71.1	44.9
0.42	0.22	5.2	16.1
1.15	0.65	53.8	46.4
1.51	0.73	50	50.9
1.25	0.48	26.5	28.8
1.78	1.28	14.6	21.1
1.33	1.72	22.2	32.3
1.52	0.91	25.3	33.7
0.8	0.63	31.5	27.5
0.38	0.18	32.3	28.1
0.39	0.19	23.2	23.7
0.51	0.2	28.4	22.2
0.31	0.14	25.7	14.9
0.31	0.22	42.6	25.9
0.55	0.28	44.9	27.9
0.6	0.34	32.5	23.9
1.54	0.74	48.3	33.4
1.95	0.99	31.9	33.3
0.54	0.23	20.5	16.6
0.43	0.18	27.2	16.3
0.39	0.18	28.5	17.1
0.38	0.21	37.8	21.2
0.26	0.15	32.9	18
1.09	0.35	52.9	35.6
0.56	0.35	39.6	23.2
0.51	0.27	40.7	24.3
0.37	0.21	32.4	16.4
0.31	0.15	24.7	40.4
0.44	0.25	28.4	50
0.44	0.22	46.1	37.9
0.67	0.33	71.8	30.9
0.78	0.71	73.7	32.6
2.02	1.45	37.8	22.4
0.42	0.37	52.4	25.9
0.32	0.18	22.3	20.5
0.32	0.16	31.7	24.1
0.29	0.13	31.8	20.4
0.28	0.12	21.7	15.3
0.76	0.37	22.9	17.8
1.52	1.03	26.7	29.8
0.38	0.18	20.1	22.8
4.17	3.08	42	24.5
3.49	2.35	56.8	17.2
1.07	0.67	72.96	39.76
NoData	NoData	NoData	NoData
NoData	NoData	NoData	NoData
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1032

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0.73	0.39	58	34.9
0.55	0.32	36.7	34.4
0.69	0.41	31.6	<Samp
0.73	0.45	33.4	NoData
0.54	0.36	34.2	22.2
0.55	0.35	28.3	17.9
0.49	0.28	36.8	20.2
0.46	0.27	35.8	23.9
0.35	0.2	28.8	22.6
0.38	0.21	32.8	27.3
0.37	0.22	24.7	23.6
0.37	0.26	23.8	22.7
0.35	0.2	33.9	30
0.35	0.2	34.6	28.9
0.29	0.16	22.3	23.4
0.27	0.15	20.4	25.5
0.22	0.12	16.1	20.2
0.37	0.19	36.2	29.9
0.2	0.11	16	18.4
0.22	0.1	15.2	18.4
0.2	0.09	15.7	20.3
0.19	0.08	14.9	18.2
0.19	0.08	21.8	24.4
0.25	0.1	21.6	22.6
0.27	0.12	28.7	22.7
0.18	0.08	14.7	20
0.25	0.1	24.8	26.3
0.21	0.08	11.9	18.5
0.18	0.07	13.6	14.3
0.19	0.07	12.8	11.6
0.14	0.07	13.4	9.7
<Samp	<Samp	21.6	26.4
0.28	0.85	21.4	154.7
0.12	0.05	8.6	69
0.14	0.05	8.5	35.4
0.15	0.06	11.8	27.1
0.21	0.1	17.7	31.1
0.28	0.11	19.9	30.7
0.44	0.21	26.1	36.6
0.33	0.13	23.9	27.7
0.56	0.27	34.4	37.2
0.25	0.1	18	20
0.52	0.2	29.7	28.9
0.51	0.21	35	22.8
0.81	0.35	69.6	38.5
0.19	0.07	10.2	5.5
0.14	0.04	12.2	6.1
0.17	0.12	14.4	9
0.2	0.12	13.7	10
0.24	0.17	25.5	13.2
0.25	0.1	25.6	16.2

1033

0.78	0.31	83.5	44.6
0.6	0.25	67	34.4
0.53	0.2	41	32.6
0.51	0.21	27	26
0.4	0.17	28.2	16.1
0.15	0.09	12.4	9.4
0.19	0.07	11.8	7.9
0.46	0.18	44.5	25.2
0.32	0.12	26.2	20.3
0.16	0.06	13.2	9.8
0.18	0.1	14.8	7.4
0.17	0.09	12.7	15.8
0.99	0.43	39.3	29.6
0.85	0.34	50.3	23.8
0.57	0.23	37.3	24.2
0.39	0.15	27.7	20.9
0.39	0.14	29.1	21.7
0.57	0.22	35.6	25
0.15	0.06	11.4	13.1
0.17	0.06	11.1	13.3
0.16	0.06	11	15.7
0.33	0.16	17.4	22.3
0.54	0.25	38.6	35.6
0.87	0.43	50	35.3
0.28	0.1	15.1	20.6
0.16	0.06	10.4	16
0.15	0.1	10.5	16.1
0.17	0.07	10.8	16.9
0.22	0.16	10.5	16
0.12	0.05	10	15.6
0.17	0.08	10.5	16.4
0.24	0.09	10.6	16.5
0.26	0.1	9.2	17
0.26	0.11	4.9	14.8
0.26	0.11	10.5	18.1
0.25	0.1	10.4	17.3
0.24	0.1	10.2	17
0.27	0.11	12.6	18.9
0.24	0.11	13.1	16.3
0.21	0.09	12.6	14.3
0.23	0.11	16	13.8
0.18	0.07	13.7	12.4
0.19	0.08	15.3	12.9
0.2	0.09	18.7	13.8
0.21	0.1	12	14.2
0.19	0.08	8	14
0.19	0.08	8.6	15.3
0.92	0.61	12.3	38.3
0.27	0.12	10.5	39.8
0.22	0.1	13	18.2
0.21	0.1	15.3	21.1
0.17	0.07	16.3	15.1

1034

0.16	0.07	14.2	20.1
0.17	0.07	12.8	21.2
0.22	0.1	13.1	31
0.2	0.09	13.6	20.2
0.2	0.1	13.8	20.8
0.24	0.11	12.4	20.7
0.2	0.09	13.4	17.9
0.19	0.09	15.4	21
0.25	0.12	17.3	20.7
0.2	0.1	15.7	22.3
0.22	0.1	14.6	21.4
0.29	0.15	16.4	23.4
0.26	0.13	15.6	19.3
0.27	0.13	17.6	20.7
0.33	0.16	18.6	24.9
0.28	0.14	14.2	22.2
0.29	0.14	16.8	27
0.28	0.14	14.8	27.2
0.3	0.14	14	25.8
0.29	0.14	14.6	24.8
0.49	0.24	22.1	29
0.44	0.21	18.8	32.9
0.35	0.17	10.6	32.3
0.29	0.14	9.1	31.2
0.32	0.16	12.4	29.4
0.32	0.15	14.6	27.4
0.27	0.12	13.6	26
0.24	0.11	15.1	22.8
0.28	0.17	17.5	21.3
0.3	0.18	13	24.4
0.27	0.12	10.2	26.9
0.35	0.17	14.6	31.6
0.33	0.17	13	30.2
0.43	0.29	18.9	30.9
0.48	0.24	34.4	26.8
<Samp	<Samp	47.5	23.1
0.59	0.31	31.9	21.5
0.62	0.29	33.4	22.8
0.89	0.43	39.6	23.2
1.17	0.56	30.3	24.8
1.27	0.7	29.3	25.6
0.92	0.46	27.6	21.7
0.86	0.43	30.2	22.8
0.58	0.27	20.6	23.6
0.99	0.5	35.4	26.8
1.27	0.68	36.1	27.5
0.48	0.22	16.2	22.1
0.5	0.22	23	25.2
0.71	0.33	33.9	24
0.73	0.37	25.8	25.1
0.69	0.35	23.5	29.5
0.76	0.4	40.8	33.2

1035

1.37	0.74	51.2	37.1
1.39	0.79	41.4	31.9
1.93	1.1	41.5	31.7
1.72	0.91	40.2	32.1
1.28	0.73	43.6	36.9
1.18	0.69	25.4	33.9
1.59	0.85	23.7	29.7
1.64	0.88	34.3	29.3
1.54	0.82	39.2	29.5
1.12	0.64	30.1	31.7
1.01	0.53	24.7	30.9
1.02	0.54	22.6	24.8
0.97	0.52	31.5	25.1
0.81	0.42	37	21.8
0.93	0.53	35.5	31.5
1.16	0.66	37.6	28.4
1.97	1.16	43.1	30.1
2.17	1.17	48.5	32.5
2.19	1.27	48.2	33.3
1.4	0.74	44.5	31.4
1.08	0.49	42.37	28.9
1.15	2.13	43.71	79.71
1.24	0.84	38.7	33.9
1.65	1.05	34.8	18.8
1.73	1.05	34.3	18.1
1.98	1.19	38.7	18.1
2.21	1.32	41.2	19.5
2.4	1.41	44.9	19.5
1.66	0.99	35.2	19.6
2.45	1.45	37.8	21.3
2.05	1.2	31.9	22.3
1.44	0.82	36.3	26.3
1.03	0.57	42.5	35.8
1.45	0.9	40.7	41
<Samp	<Samp	61.7	58.3
1.89	1.12	65.1	60.3
1.71	0.94	48.3	48.7
1.47	0.83	28	31.1
1.61	0.89	28	34.4
2.67	1.54	57.9	43.8
2.22	1.17	106.1	59.1
2.67	1.44	75.5	63.9
3	1.68	97.2	51.2
3.21	1.73	127.1	40.2
2.39	1.26	105.5	47.9
2.13	1.11	66.7	43.2
1.88	1.02	55.2	36.3
1.95	1.12	51.3	35.9
1.92	1.07	56	50.7
1.84	1	62.7	59.6
2.58	1.45	81	56.3
2.35	1.32	59.2	41.2

1036

<Samp	<Samp	27.22	36.35
1.65	0.88	33.9	36.9
2.92	1.61	49.9	33.9
2.75	8.67	<Samp	<Samp
2.5	1.47	69.9	52.2
1.76	1.06	45.9	39.7
2.24	1.32	55.8	39
2.16	1.22	53.5	39.7
1.93	1.1	48	50
1.72	0.96	47.3	48.5
1.85	1.03	45.6	40
1.66	0.9	40.5	37.5
2.22	1.31	49.3	41.3
1.93	1.11	45.2	36.4
1.76	1.02	36.9	42.6
1.65	0.89	57.5	62.5
2.14	1.16	87.3	69
1.93	1.03	56.9	53.5
2.35	1.29	45.1	43.4
2.02	1.13	46	46.8
2.23	1.3	28	43.5
1.56	0.9	21.3	46.3
1.23	0.7	28.4	64.6
1.76	0.99	32.9	57.7
1.55	0.87	28.3	61.2
1.37	0.74	47.5	49.8
1.3	0.71	40.9	43.7
1.26	0.74	29.6	36.5
1.17	0.68	35.6	37.2
1.11	0.62	41.5	53
1.54	0.85	45.8	103.9
1.17	0.66	34.6	69.9
1.57	0.9	38.9	66.8
2.4	1.32	81.9	73.3
1.91	0.99	84.1	62.7
2	1.07	69.3	59.1
1.92	1.09	68.5	38.1
1.6	0.95	32.8	50.3
<Samp	<Samp	44.9	50
2.19	1.42	56.5	55
2.14	1.32	57.8	66.9
2.48	1.54	77.8	68.7
2.8	1.65	68.8	88.5
3	1.79	63.5	66.1
3.45	2.08	81	62.8
4	2.57	84.3	59.2
3.85	2.39	81.1	60.6
2.95	1.74	61.1	63.9
2.71	1.68	49.2	60.2
1.9	1.15	43	68.3
2.47	1.46	52.6	56.3
1.92	1.11	57	48.4

1037

2.86	1.61	72	51.3
3.32	2.01	76	46.4
2.67	1.63	54.4	49.5
3.07	1.87	62	34.2
2.09	1.27	44.8	48.6
2.33	1.39	52	51.2
2.45	1.5	65.5	49
3.24	1.92	117	47.7
2.85	1.74	70.4	53.2
2.99	1.84	96.1	49
3.26	2.06	76.5	25.8
1.87	1.19	44.2	20.7
1.67	1.03	36.3	35.8
1.67	1.8	26.7	43.8
1.07	0.72	23.5	71
0.92	0.56	24.4	81.3
0.59	0.32	31.8	69.2
0.84	0.49	17.6	67.3
1.19	0.72	24.9	14.2
1.05	0.59	<Samp	<Samp
2.21	1.23	NoData	NoData
<Samp	<Samp	NoData	NoData
1.69	0.91	NoData	NoData
1.65	0.94	NoData	NoData
3.12	1.84	NoData	NoData
2.97	1.63	NoData	NoData
2.44	1.37	<Samp	<Samp
0.83	0.44	37.9	25.3
0.61	0.33	40.7	24.4
0.7	0.33	53.1	37.6
1.26	0.63	83.3	33.6
2.67	1.32	31	32.4
2.8	1.52	42.3	35.9
3.67	1.95	97.7	44.7
2.77	1.6	70.3	34.3
1.03	0.56	60	33
0.95	0.52	43	31.1
1.21	0.63	65.4	37.8
1.43	0.73	60.1	34.2
1.33	0.68	48.5	32.6
1.52	0.79	53.4	33.7
2.9	1.56	54.3	28
0.75	0.37	32.5	21
1.13	0.7	40.9	22
1.91	1.17	50.7	32.7
0.79	0.42	40.1	21
0.96	0.49	50.8	27
0.61	0.32	45.9	24.3
0.78	0.4	56.3	18.2
1	0.5	56	14.6
1.59	0.86	91.1	39.8
2.42	1.2	107.7	33.2

1038

0.57	0.29	35.7	12.5
0.58	0.3	41.9	7.3
0.41	0.2	30	5.7
0.53	0.27	37.2	10.3
0.68	0.35	41.2	15.7
0.85	0.48	43.7	19
1.47	0.76	55.9	19.2
1.1	0.62	48.1	17
0.76	0.39	39.9	8.6
0.5	0.27	36.4	9.2
0.47	0.25	36.5	10.9
0.53	0.27	42.5	14.8
0.62	0.32	43.5	18.4
1.36	0.71	62.8	25.3
0.85	0.45	48.6	20.9
1.6	0.82	58.6	23.8
1.59	0.8	85.9	19
0.85	0.47	54.2	10.6
0.39	0.18	40	3.3
0.5	0.24	47.2	7.6
0.96	0.5	51.9	11.4
1.6	0.81	67.8	21
2.06	1.05	85.8	35.3
1.01	0.52	38.9	21.5
0.6	0.29	26.6	10.1
0.56	0.28	27.1	9
0.62	0.34	25.6	6.3
0.56	0.28	26.3	6
0.5	0.26	26.8	5.3
0.46	0.22	24.1	2.6
0.43	0.2	30.7	13.3
0.48	0.23	35.1	30
0.4	0.18	33.3	19.5
0.37	0.16	36.5	19.5
0.43	0.25	43.1	21
0.54	0.25	52.3	22.3
0.45	0.21	44.9	21.8
0.41	0.18	38.4	18.5
0.39	0.17	40.4	17.6
0.35	0.15	29.9	15.5
0.55	0.25	44.2	21.5
0.77	0.36	71.4	36
0.57	0.27	48.7	31.5
0.46	0.2	31.9	27.6
0.37	0.19	35	24.7
0.24	0.08	21.9	21.4
0.38	0.17	37.2	33.6
0.36	0.15	33.4	26
0.48	0.24	49.3	34.9
0.44	0.2	35.8	23
0.43	0.21	38.7	26.6
0.37	0.16	42.5	22.5

1039

0.26	0.09	30.4	15.2
0.28	0.1	25.6	15.6
0.32	0.14	28.5	19.1
0.53	0.24	52.4	24.8
0.33	0.17	29.4	28.5
0.33	0.14	29.3	22.1
0.38	0.17	31.2	19
0.25	0.12	22.9	13
0.27	0.09	22.8	13.2
0.26	0.13	30.1	15.1
0.2	0.05	27.8	16.2
0.2	0.06	21.8	9.4
0.27	0.2	30.9	12.7
0.25	0.11	37.7	14
0.18	0.08	23.7	9.2
0.23	0.1	26.3	11.2
0.2	0.06	23.1	12
0.24	0.11	32.8	19.4
0.31	0.13	34.5	18.4
0.29	0.11	33.1	16.4
0.27	0.1	35.2	16.4
0.24	0.09	30.6	15.9
0.26	0.14	25.3	14.1
0.31	0.14	41.3	18.8
0.4	0.17	49.8	19.6
0.34	0.17	38.7	20.3
0.29	0.14	31.5	16.7
0.25	0.11	25.9	14.7
0.18	0.08	20.8	12.3
0.27	0.13	37.1	13.8
0.24	0.1	32.4	12.7
0.19	0.11	26.2	10.4
0.19	0.08	28.9	9.6
0.19	0.08	29.5	9.8
0.18	0.08	30.4	9.9
1.14	0.98	25.9	9.9
0.41	0.16	26.9	9.6
0.38	0.14	31.4	11.2
0.5	0.21	32.6	14.1
0.48	0.18	32.2	13.7
0.74	0.43	33.9	13.5
1.74	1.21	37.7	11.5
1.93	1.36	39.1	11.2
1.76	1.2	36.6	11
1.87	1.31	37.9	12.3
1.83	1.23	37.2	16
1.97	1.36	40.7	15.2
1.88	1.24	50.9	16.4
2.03	1.29	58.3	19.1
2.06	1.26	86.3	15.6
1.43	0.82	72.6	11
1.38	0.78	59.8	11

1040

0.8	0.32	45	21.6
0.43	0.15	21.5	18.1
0.62	0.39	18.2	16.8
1.22	0.82	25.8	16.6
1.71	1.11	31.3	16.2
1.77	1.22	19.4	15.5
1.85	1.28	20	15.2
1.8	1.26	19	15.6
1.76	1.26	19	15.1
1.94	1.33	34.3	15.7
1.71	1.1	35.1	18
1.88	1.25	38	15.2
1.62	1.06	45.8	15.7
1.32	0.89	24	16.1
1.35	0.88	40.8	19.8
1.71	1.12	48.7	20.1
1.76	1.12	62	21
2.37	1.47	72.5	26.3
2.53	1.63	49.5	19.6
2.38	1.59	84.9	15.7
2.24	1.42	23.9	19.3
1.02	0.67	15.7	18.4
0.94	0.63	15.8	16.8
1.06	0.69	24	18.8
0.86	0.54	17.1	17.5
1.15	0.74	32.1	16
0.96	0.63	31.2	14
0.93	0.61	30.8	14
1.02	0.68	28	14.5
1.17	0.82	20.9	14.4
1.19	0.85	21.6	14.3
1.14	0.82	27.2	13.9
1.27	0.93	35	12.3
1.13	0.82	19.6	14.6
1.6	1.18	41.7	12.6
1.92	1.34	73.1	11.5
2.31	1.57	60.3	14.7
1.48	1.01	46.7	17.1
1.37	0.92	45.9	15.2
1	0.67	24.3	18
0.99	0.65	31.2	17.1
0.97	0.66	22.9	16.2
0.85	0.59	18.1	17.1
0.92	0.65	17.7	15.8
0.82	0.56	20.2	16
0.81	0.54	26.3	15.5
0.97	0.77	28.6	14.3
0.76	0.52	23.8	13.8
0.64	0.41	24.5	14.8
0.78	0.55	37	13
0.82	0.57	42.5	11.8
0.77	0.53	31.3	13.3

1041

0.97	0.63	23.6	14.4
0.83	0.55	25.4	14.5
0.94	0.6	22.9	14.8
0.79	0.52	21.5	15.2
0.67	0.45	23.9	14.2
0.81	0.56	26.5	13.5
0.87	0.61	26.7	13.3
0.99	0.69	28.7	13.3
1.12	0.79	28.5	13.5
1.05	0.75	30.7	12.8
0.93	0.64	24.7	11
0.81	0.57	12.2	6.1
1.01	0.74	9.4	6.7
1.14	0.83	13.8	7.6
1.23	1.09	14.7	8.1
0.7	0.92	12.2	8
0.62	0.81	12.1	8.1
0.82	1.57	19.6	10.1
<Samp	<Samp	12.5	8.2
1.01	1.34	20.1	9.8
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0.74	0.95	14.5	8.4
0.71	0.94	21.7	10.9
0.88	1.17	23.4	11.4
0.8	1.09	23.4	11
0.69	0.91	12.6	8.8
0.79	0.99	16.3	9.4
0.88	1.11	17.3	9.1
0.63	0.7	16.2	10.3
0.32	0.31	12.9	11.4
0.17	0.26	10.3	10.2
0.02	0.07	10.5	9.6
0.1	0.19	10	12.1
0.15	0.24	4.7	14
0.1	0.22	2.2	11.8
0.11	0.23	3.7	11.2
0.38	0.51	13.7	13.3
0.06	0.12	5.5	10.7
0.22	0.33	12.8	14.5
0	0.04	5.2	10.3
0.36	0.43	19.7	19
0.45	0.35	8.5	11.6
0.63	0.65	24	15.9
0.6	0.75	24.6	20.3
<Samp	<Samp	24.6	30.8
<Samp	<Samp	29	25.9
<Samp	<Samp	27.7	21
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0.18	0.16	20.1	15.6
0.15	0.14	21.1	15.2
0.17	0.15	20.4	20.7
0.2	0.16	27.1	24.7

1042

0.07	0.06	17.5	19.8
0.04	0.03	21.5	17.3
0.05	0.03	18.2	15.5
0.06	0.05	16.4	15
0.08	0.07	7.1	10.5
0.07	0.05	20	13.4
0.06	0.03	24.7	15.1
0.06	0.02	28.4	18.1
0.11	0.05	38.8	22.9
0.16	0.1	30.1	21.6
0.13	0.11	22.9	19.8
0.26	0.27	18.9	18.1
0.1	0.1	27	23.2
0.07	0.05	33.9	23.6
0.09	0.07	27.5	23.6
0.15	0.09	36.4	23.3
0.12	0.07	35	21.3
0.14	0.1	36.1	25
0.08	0.05	42	31.6
0.1	0.06	44.8	37.5
0.07	0.03	30.2	29.1
0.19	0.14	55.3	31.1
0.41	0.37	69.8	27
0.13	0.09	63.9	24.3
0.08	0.06	43.3	21
0.08	0.07	34.7	18.8
0.05	0.03	52.5	21.2
0.09	0.06	60.8	23.2
0.08	0.05	58.3	22.7
0.07	0.04	54.5	21.5
0.18	0.15	52.4	21
0.08	0.09	<Samp	<Samp
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0.2	0.19	39.9	20.4
0.13	0.11	58.8	25.7
0.19	0.09	53.5	52.9
0.18	0.13	30	72.4
0.14	0.12	28.6	72.6
0.12	0.1	23.9	57.3
0.11	0.08	19.4	59.1
0.15	0.1	25.5	56.1
0.07	0.05	14.9	44.5
0.03	0.03	8.1	43.1
0.06	0.04	16.6	55.1
0.13	0.08	25.3	54.7
0.07	0.03	24	60.5
0.2	0.11	26.6	66.4
0.18	0.11	26.5	74.5
0.14	0.08	21.3	67.6
0.19	0.11	19.5	60.9
0.13	0.07	14.82	62.56
0.16	0.05	19.4	58.1

1043

0.11	0.02	19.4	58.3
0.17	0.04	28.8	69.6
0.23	0.08	28.1	59.8
0.18	0.06	27.5	66.3
0.1	0.01	26	75.8
0.12	0.02	22.9	65.8
0.08	0.01	20	60.5
0.06	0	25.7	59.6
0.12	0.01	38.2	72.4
0.11	0.02	28.9	66.9
0.1	0.02	23.3	62.7
0.18	0.05	30.5	56.8
0.08	0.06	86.23	46.55
0.21	0.06	32.5	54.1
0.09	0.03	24.9	44
0.16	0.08	28	47.4
0.09	0.06	24.6	44.1
0.1	0.05	29.5	46.8
0.11	0.04	26.1	48.1
0.1	0.03	26.6	48.2
0.08	0.02	22.6	49.5
0.08	0.03	25.7	42.9
0.09	0.04	25.6	39.6
0.12	0.06	22.1	32.6
0.12	0.06	29.7	35.4
0.04	0	20.5	37.2
0.08	0.02	22.2	31.3
0.1	0.04	21.4	33.3
0.11	0.05	27.3	34.5
0.14	0.07	24.5	36.2
0.11	0.05	25.2	36.5
0.13	0.06	28.6	37.1
0.12	0.07	29.9	42.1
0.16	0.08	22.3	42.2
0.13	0.08	24	40.2
0.08	0.03	24.8	35.6
0.12	0.04	23.2	37.9
0.13	0.06	18.9	36
0.09	0.05	12.9	28.1
0.05	0	24.8	31.1
0.04	0	25.2	30.9
0.04	0	24.5	30
0.02	0	19	21.3
0.01	0	15.1	23
0	0	34.6	34.9
0.05	0.07	17.8	28
0.02	0.06	21	25.6
0.01	0	16.6	23.5
0.3	0.1	25.4	30.2
0.03	0.06	24.3	34.1
0.07	0.07	32.8	33.8
0.01	0.06	15.4	29.5

1044

0.04	0.03	14	35.9
0.02	0.06	18.5	42.5
0.05	0.01	22.5	46.9
0.05	0.01	28.7	46
0.01	0	7	29.4
0.01	0	9.8	27.4
0.01	0	10.4	24.4
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0.03	0	<Samp	<Samp
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0.03	0	18.9	38.6
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0.02	0	<Samp	<Samp
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6.39	0	0	3.3
11.8	0.35	0	3.3
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0	0	0	3.3
0	0	0	3.3
0	0	0	3.3
0	0	0	3.3
0	0	0	3.2
4.75	1.6	8.4	59.7
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16.62	4.01	17.89	109.77
21.83	19.83	14.21	53.74
50	52.38	14	59.1
62.56	72.83	17.2	111.8
72.3	70.22	18	114.6
81.51	83.91	19.9	118.2
36.8	39.31	19.6	84.4
25.89	13.1	12.9	63.9
41.02	31.48	11.9	77.2
63.8	59.89	13.9	90.8
26.92	13.34	17.8	112.6
2.31	0.64	23.1	124.6
0.54	0.1	14.1	90.9
12.08	2.35	18.2	127.8
59.22	32.31	35.3	176.3
59.34	61.27	28	148.6

1045

23.32	20.24	10.52	44.56
7.94	7.46	28.63	38.27
19.58	15.23	10.5	39.4
17.7	17.35	13.2	41.3
16.11	19.73	12	49.5
8.65	13.57	7.8	29.4
10.34	17.24	9.4	35.5
15.56	22.1	13.6	60.4
14.08	22.22	11.2	53
13.75	18.34	9.1	45.1
6.22	7.59	7.4	30.9
10.62	13.96	10.9	42.9
12.89	14.19	10.6	46.5
16.29	24.52	10.7	54.1
46.65	67.63	19.1	89.7
49	83.46	17.7	116
57.32	31.27	34.4	153.6
43.46	65.37	11.8	82.7
24	33.32	8.5	50.9
20.1	19.37	6.8	31.5
25.06	21.41	8.7	36.9
8.03	8.73	7.1	26.6
6.9	7.23	7	25.9
18.15	15.84	7	29.1
9.39	11.2	6.8	25.2
9.04	9.39	7.1	23
6.68	5.1	6.8	17.1
7.85	8.38	7.5	21.3
5.22	4.24	6.4	15.8
6.28	5.7	6.2	15.3
7.07	6.93	6.2	12.3
5.09	3.98	6.3	10.9
4.86	3.71	5.7	9.7
4.41	3.26	5.8	9.7
5.75	5.01	6.1	9.6
7.13	7.54	6.9	11.4
5.62	4.91	4.9	5.1
6.35	6.71	5	5.1
6.16	7.32	5.2	4.8
6.23	8.73	5.4	4.5
4.22	3.64	5	4.5
4.18	3	4.8	4.3
6.3	4.25	4.8	4.4
4.09	2.56	4.9	5.2
4.02	3.08	4.8	4.4
4.89	4.11	4.8	4
2.4	0.24	4.7	3.6
4.98	3.13	5	3.7
5.32	2.88	5	3.6
3.61	1.36	4.7	3.2
4.49	4.8	4.8	3.5
4.26	3.64	5	3.9

1046

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8.31	1.28	NoData	NoData
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4.04	0.23	NoData	NoData
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3.76	0.65	NoData	NoData
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4	0.08	NoData	NoData
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14.71	20.51	NoData	NoData
12.5	17.27	NoData	NoData
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1.21	0.1	37.3	7.1
1.24	0	26.3	5.5
0.38	0.11	19.1	4.4
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0.21	0	2.6	1.1
0.5	0	2.9	1.6
0.04	0	2.7	1.1
0	0	2.73	1.12
0	0	2.84	1.13
0	0	2.8	1.1
0	0	2.9	1.1
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0	0	3	1.2
0	0	3	1.1
0	0	3	1.1
0.03	0.07	3	1.1

1047

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0	0	3	1.2
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0	0	3	1.2
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0	0	3.2	1.2
0	0	3.3	1.2
0	0	3.3	1.2
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0	0	3.3	1.2
0.05	0.1	3.3	1.2
0	0	3.3	1.2
0	0	3.3	1.2
0.05	0.09	3.3	1.2
0	0	3.3	1.2
0	0	3.4	1.2
0	0	3.4	1.2
0.04	0	3.4	1.2
0.23	0	3.4	1.2
0.54	0.1	3.4	1.2
0.19	0	3.4	1.2
0.34	0	3.4	1.2
0.56	1.11	3.4	1.2
3.69	6.03	3.4	1.2
3.96	6.7	3.4	1.2
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0	0	3.4	1.2

1048

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0	0	3.5	1.2
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0	0	3.6	1.2
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0.4	0	3.7	1.3
0.06	0.05	3.7	1.3
0.61	2.19	3.7	1.3
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0.35	0.48	3.7	1.3
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0.97	0.2	3.7	1.3
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1.95	1.69	3.7	1.3
0.96	1.09	3.8	1.3
1.08	2.1	3.7	1.3
0.04	0	3.79	1.28
0.7	1.54	3.82	1.27

1049

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0	0	3.88	1.28
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0.05	0	3.93	1.29
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0	0	3.9	1.29
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2.54	3.38	4.7	0.9
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1050

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1.5	1.3	4.8	0.9
2.37	0.77	5.4	3.8
1.15	0.35	4.9	1.1
0.78	0.65	6.3	4.2
0.43	0.41	12.1	3.1
0	0	4.9	1
0	0	4.9	0.9

1051

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0	0	4.9	0.9
0.2	0	4.9	0.9
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0	0	4.9	0.9
0.1	0	4.9	1
0	0.24	5.1	1
0	0	5.3	1
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0.27	0.36	5.3	1
1.93	1.81	5.3	1
0	0.82	5.3	1
1.32	0.26	5.3	1
1.19	0.24	5.3	1
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0	0.35	5.3	1
0	0.69	5.3	1
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1.39	0.72	5.4	1
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1052

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1.54	1.47	11.8	11
2.97	3.23	11	10.9
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0.7	1.06	6.9	9.6
0.75	0.93	8.6	10.1
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0.54	0.78	9.7	11.8
0.86	0.86	10.4	9
1.54	0.91	15	11
1.54	0.91	15.1	11
1.88	1.84	15.1	11
1.75	1.49	15.1	11
1.42	1.21	18.2	13.9
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1.51	1.91	15.5	12.2
1.1	1.85	21.1	10.2
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0.96	1.09	15.3	9.5
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1.31	1.55	16.4	12.7
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1053

0.44	0.2	35.8	23
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0.34	0.17	38.7	20.3
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1.87	1.31	37.9	12.3
1.83	1.23	37.2	16
1.97	1.36	40.7	15.3
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1054

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1055

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7.97	9.56	9.9	4.3
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17	10.9	27.7	20.9
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14.9	12.18	23.5	11.6
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1056

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11.06	11.69	54.1	32.9
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11.08	1.66	34.6	4.1
19.08	3.41	35.4	4
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7.04	3.25	19.6	3.1
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4.26	4.98	25.5	17.3
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8.69	5.58	15.4	18.1
4.99	4.4	18.8	19.2
5.12	4.09	15.3	17.9
6.42	7.4	8.6	16.4
23.66	2.15	10.1	18.9
27.3	2.62	1.3	6.5
32.73	6.79	54.9	9.5
19.08	3.41	35.4	4
8.97	6.85	11.4	5.1
23.62	24.85	8.6	5.6
19.93	2.14	33.8	11.9
20.94	1.84	50.2	6.6
2.02	1.45	109.9	33.1
20.68	2.44	35.7	10.7
3.87	3.49	20.7	16.6
6.27	4.03	28.4	9.3
5.98	4.09	27.1	9.6
6.27	4.82	39.7	17.5
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1057

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30.9	14.11	19	19.2
0.25	0.11	24.6	14.2
0.18	0.08	20.8	12.3
0.27	0.13	37.1	13.8
12.87	1.95	52.5	9.3
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19.08	3.41	35.4	4
10.22	9.68	54.2	20.5
10.37	9.75	54.8	21.2
2.59	1.65	40.4	48
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5.75	6.35	22.5	25.9
5.77	6.37	22.1	25.4
5.71	6.31	21.3	24.6
5.64	6.24	21.1	25.3
5.55	6.15	20.6	25.2
5.62	6.22	18.3	21.5
5.75	6.35	15.5	19.5
5.73	6.33	17.7	20.2
5.67	6.27	18.1	20.9
5.68	6.28	17.8	20.7
5.71	6.31	18.2	20.9
5.78	6.38	17.5	20.1
5.9	6.5	20.2	23.3
6	6.6	17	19.5
6.09	6.69	18.1	20.8
5.96	6.56	19.8	22.8
6.05	6.65	24.6	28.3
6.09	6.69	20.4	23.5
6.07	6.67	21.5	24.8
6.2	6.8	24.2	27.9
6.11	6.71	23.7	27.2
6.09	6.69	21.3	24.5
6.05	6.65	22.1	25.4
6.22	6.82	27.4	31.5
6.29	6.89	19.1	22
6.2	6.8	18.4	21.1
6.13	6.73	16.3	18.7
5.88	6.48	21.7	25
5.28	5.88	24.7	28.5

Annexure-11

Fwd: Information related to water and sewage & solid waste in respect of Hon. Appeal no. 122/2018

From : romumbai@mpcb.gov.in Mon, Aug 01, 2022 08:13 AM

Subject : Fwd: Information related to water and sewage & solid waste in respect of Hon. Appeal no. 122/2018 3 attachments

To : sromumbai2@mpcb.gov.in

Cc : NISHCHAL C <nischal.cpcb@nic.in>

Please see the mail and take follow up with MCGM for related information

Get Outlook for Android

From: Sasane Alka Samadhan <ac.heast@mcgm.gov.in>
Sent: Saturday, July 30, 2022, 1:10 PM
To: RO Mumbai <romumbai@mpcb.gov.in>
Subject: Information related to water and sewage & solid waste in respect of Hon. Appeal no. 122/2018

Sir,

Pls. find attachments.

ACHE

MPCB Letter BMC.doc
27 KB

DRY WASTE REPORT HE WARD (1).xlsx
24 KB

DETAILS OF SWEEPING.xlsx
13 KB

BRIHANMUMBAI MUNICIPAL CORPORATION

1059

NO. ACHE / / AEM dated

Sub : Submission of information related to water and sewage & Solid waste in respect of Hon. Appeal No. 122 / 2018

(Earlier Appeal No. 9/2014) (WZ)

With reference to above subject matter, remarks various department of BMC as per telephonic discussion and telephonically received from A.E.W.W. H/East, A.E.W.W. H/West , A.E.(S.O.) Planning, A.E.(S.O.) for entire H/East and H/West ward is ,

1) i) Total water demand of entire H/East Ward = 110 MLD Approx.

ii) Total Quantity of Water Supply in entire H/East ward = 119 MLD Approx.

iii) Source of water supply = From BMC Bhandup Complex to tunnel at Vakola Santacruz (E)

2) i) Total water demand of entire H/West Ward = 115 MLD Approx.

ii) Total Quantity of Water Supply in entire H/West ward = 145 MLD Approx.

iii) Source of water supply = From BMC Bhandup Complex to Mahim tunnel shaft.

3) As per discussion with S.O. Planing Department Total sewage generated in H/East ward is 101.00 MLD Approx. and in H/West Ward is 123.00 MLD Appox.

4) Total sewage treated at IPS Bandra STP is a) During dry season = 480 MLD Approx.

b) Monsoon Season= 1250 MLD Approx.

5) As per discussion with A.E. (S.O.) at STP Bandra sewage treated at STP is collected from different area and ward i.e. Nehru road drop shaft, Khar Drop shaft, Kherwadi drop shaft, Dharawi drop shaft. Therefore actual quantity received from particular ward cannot be determine.

6) After treatment of sewage disposal of flow is in Arabian sea by using outfall deep into the sea at 3.2 KM from Bandra Sea coast.

If any query regarding water and sewage you may contact following BMC Staff.

1) Mr. Sudhir Jadhav , Asstt. Engineer (Water Works) H/E Mo.no. 9930260426

2) Mr. Tejas Dharma , Asstt. Engineer (Water Works) H/W Mo.no. 9869365512

3) Mr. Vedant Vasaikar , Asstt. Engineer (S.O.) S.T.P. Mo.no. 9769110722

4) Mr. Bhise, A.E.(Planning) Mo.No. 9867714112

For information please.

Asstt. Engineer (Maint.) H/East Ward

M/S. SHIV SNEH SAMAJIK PRATISTHAN (REG).

Dry Waste Segregation Centre Report Of HE Ward

Sr. No.	Ward	Date	Location of Dry Waste Centre		Types of Dry Wa						
				Bailing (waste)	Plastic Bottles	Other Plastic Recyclable	News Paper	Mixed Papers	Boxes / Putta / Card Board	E Waste	Thermocol
				(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)
1	HE	1-Jan-22	BKC FAMILY COURT	582	494	340	398	590	388	446	267
2		2-Jan-22		584	496	342	396	587	380	449	271
3		3-Jan-22		580	487	344	389	581	379	447	270
4		4-Jan-22		579	490	341	387	593	374	440	263
5		5-Jan-22		576	481	339	394	584	381	448	261
6		6-Jan-22		588	485	337	370	582	377	441	275
7		7-Jan-22		571	493	343	381	595	381	449	264
8		8-Jan-22		576	484	345	393	593	375	442	268
9		9-Jan-22		583	491	349	388	591	389	437	273
10		10-Jan-22		577	482	330	392	580	371	435	265
11		11-Jan-22		581	495	331	390	586	384	438	266
12		12-Jan-22		572	480	346	382	592	376	345	277
13		13-Jan-22		587	496	338	394	597	390	451	270
14		14-Jan-22		590	483	347	391	588	386	445	262
15		15-Jan-22		571	500	351	397	596	385	455	273
16		16-Jan-22		586	510	348	377	579	391	458	279
17		17-Jan-22		589	512	342	376	599	387	446	278
18		18-Jan-22		591	516	340	386	590	384	450	281
19		19-Jan-22		585	522	353	384	581	392	456	283
20		20-Jan-22		584	526	342	380	594	396	443	286
21		21-Jan-22		581	517	351	372	592	380	447	288
22		22-Jan-22		570	515	354	375	584	389	457	266
23		23-Jan-22		573	503	345	371	578	375	453	267
24		24-Jan-22		569	501	344	389	595	377	448	260

1061

25		25-Jan-22		582	518	336	387	570	368	451	287
26		26-Jan-22		579	520	349	373	587	381	458	284
27		27-Jan-22		586	517	347	385	571	376	444	265
28		28-Jan-22		583	521	330	376	573	388	442	274
29		29-Jan-22		580	523	330	370	582	370	457	266
30		30-Jan-22		593	526	356	386	574	391	454	271
31		31-Jan-22		587	516	339	388	599	399	440	289
		Total		**18015**	**15600**	**10629**	**11917**	**18183**	**11860**	**13772**	**8449**
				581.129	503.2258	342.871	384.4194	586.5484	382.5806	444.2581	272.548387

1062

JAN -2022

aste

Glass (Bottal)	Tins	Clothes	Metal	Other Recyclable Dry Waste	Reject	Total Dry Waste	Total Lifted
(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	(Kg)	
489	441	330	576	588	689	5929	6618
486	445	327	570	581	678	5914	6592
475	446	333	571	570	684	5872	6556
471	438	326	569	587	700	5858	6558
480	435	331	567	576	708	5853	6561
473	431	329	575	571	712	5834	6546
481	430	334	561	583	679	5866	6545
476	444	327	573	580	722	5876	6598
484	439	320	565	578	671	5887	6558
478	441	336	565	589	665	5841	6506
481	437	338	577	572	673	5876	6549
471	448	342	580	592	660	5803	6463
483	436	339	563	586	687	5930	6617
470	435	337	566	599	675	5899	6574
481	442	335	581	586	598	5953	6551
488	439	344	574	590	682	5963	6645
475	440	332	583	581	686	5940	6626
477	439	341	572	583	690	5950	6640
489	448	340	583	591	723	6007	6730
472	431	333	575	587	733	5949	6682
477	445	335	584	596	741	5965	6706
480	443	342	576	592	682	5943	6625
473	438	331	560	588	746	5855	6601
483	447	329	564	597	732	5903	6635

1063

476	437	334	571	580	685	5897	6582
488	450	346	585	594	789	5994	6783
472	453	347	584	592	707	5939	6646
471	436	350	567	581	700	5892	6592
484	444	349	586	595	703	5936	6639
486	441	338	591	586	691	5993	6684
490	456	351	594	593	684	6041	6725
14860	**13675**	**10426**	**17808**	**18164**	**21575**	**177317**	**198208**
479.3548	441.129	336.3226	574.4516	585.9355	695.9677	5719.903	6393.806

MUNICIPAL CORPORATON OF GREATER MUMBAI

SOLID WASTE MANAGEMENT

23.05

Sub:- Wardwise Details of Sweeping Beats/Section wise.

Ward	Resident Area				Commercial Area				Deployed Staff			Sanstha
										NGO		
	No of Roads	Length	No of Sweeper Deployed	No of Time Sweeping Done	No of Roads	Length	No of Sweeper Deployed	No of Time Sweeping Done	MCGM	No of Sanstha	Total Labour Used	RSY
H/East	128	86 KM	293	1 Time	16	18.8 KM	72	1 Time	365	0	0	0

1065

.2022

a/NGO
M & M
0

Annexure-12

From : aeww02 heast <aeww02.heast@mcgm.gov.in> Wed, Sep 21, 2022 11:07 AM

Subject : <No Subject>

To : NISHCHAL C <nischal.cpcb@nic.in>

Cc : dyhews he <dyhews.he@mcgm.gov.in>, eehewss he <eehewss.he@mcgm.gov.in>, he@mcgm.gov.in

Sir,

With reference to your email dated 07/09/2022 regarding information required to the honorable NGT in the matter of Appeal No. 122 of 2018 (PB) titled as Anil Tharthare VS The Secretary, Environment Department Govt. of Maharashtra& Ors.

The required information related to H/East ward water department is as follows.

A permanent water connection u/s 169 of MMC act is granted to residential building comprising of 2 level basement + stilt + 3 podium car parking + 4th + 21ST upper floor for wing A & B on plot bearing CTS NO. 646 (PT) of village Bandra East building known as **'ORIARNA' residential project at Gandhi Nagar, Bandra East**

For wing A water connection code numberHE@0432577 of size 50 mm X 65 mm X 80 mm granted for 71 no. of flats for total requirement 49,995 lit/day. This connection granted on 08/08/2015.

For wing B water connection code number HE@0532722 of size 50 mm X 65 mm X 80 mm granted for 68 no. of flats for total requirement 49,005 lit/day. This connection granted on 07/07/2016.

1) Per capita water demand i.e. requirement of wing A is 49,995 lit/day & per capita water demand i. e. requirement wing B is 49005 lit/day

2) Per capita water supply received by wing A is 65,000 lit/day from 08/08/2015 to 11/08/2022 & per capita water supply received by wing B 63,0000 from 07/07/16 to 11/08/022.

3) Yes –the actual per capita water demand i.e. actual requirement for wing A & B, is given w.e.f. 2015 till 2022 as per above sr. no. 02

3.1) Not Applicable

3.2) Not Applicable

Regards
AEWW H/East

Annexure – 13

Water demand & supply

As per the information provided by Assistant Engineer (Water works H-E ward), BMC, and the following can be interpolated:

- **Demand side**: Since, the total water demand estimated for 141 flats is 99 KLD, So, the water demand for the additional 16 flats (due to the project expansion) can be estimated to be 11.23 KLD. i.e. 141 flats have 99 KLD water demand. Therefore, 16 flats will have 99 X (16/141) KLD water demand = 11.23 KLD.

- **Supply side:** Since, the total water supply estimated for 141 flats is 128 KLD, So, the water for the additional 16 flats (due to the project expansion) can be estimated to be 14.52 KLD. i.e. 141 flats have 128 KLD water demand. Therefore, 16 flats will have 128 X (16/141) KLD water demand = 14.52 KLD

Wastewater generation

- The anticipated total waste water discharge by the project into the municipal sewer is estimated to be 33.6 KLD for 141 flats, So, the waste water discharge into the municipal sewer for the additional 16 flats (due to the project expansion) can be estimated to be 3.81 KLD. i.e. 141 flats will led to discharge of 33.6 KLD of waste water into the municipal sewer. Therefore, additional 16 flats will led to discharge of 33.6 X (16/141) = 3.81 KLD waste water into the municipal sewer.

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax:
24044532/4024068/4023516
Website: http://mpcb.gov.in
Email: jdwater@mpcb.gov.in

Kalpataru Point, 2nd and 4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai-400022

RED/L.S.I (Mun)
No:- Format1.0/CAC/UAN No.0000105331/CR2107000088

Date: 01/07/21

To,
M/s.Municipal Corporation of Greater Mumbai,
Mahapalika Marg, fort, Mumbai-400001.

Your Service is Our Duty

Sub: **Renewal of Consent for STP's at Ghatkopar,Bhandup, Varsova, Malad,Charkop, Colaba, Worli,Bandra.**

Ref:
1. Earlier consent having no-BO/JD(WPC)/CC/-1805001473, dtd-28.05.2018.
2. Minutes of Consent Committee Meeting held on 17.03.2021.

Your application No.MPCB-CONSENT-0000105331 Dated 29.12.2020

For: Consent to Operate Renewal for STP's at at Ghatkopar,Bhandup, Varsova, Malad,Charkop, Colaba, Worli,Bandra. (386,280,180,280,6,41,757,797 MLD) under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent to renewal is granted for a period up to 31/12/2023**
2. **Conditions under Water (P &CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted quantity of discharge (MLD)	Standards to be achieved	Disposal
A(i)	STPs			
1	Ghatkopar-STP	386.00	As per schedule-I	Thane Creek
2	Bhandup-STP	280.00	As per schedule-I	Thane Creek
3	Varsova-STP	180.00	As per schedule-I	Malad Creek
4	Malad-STP	280.00	As per schedule-I	Malad Creek
5	Charkop-STP	6.00	As per schedule-I	Gorai Creek
A(ii)	STPs			
1	Colaba-STP	41.00	As per schedule-I	Open Sea through marine Outfall
2	Worli-STP	757.00	As per schedule-I	Open Sea through marine Outfall
3	Bandra-STP	797.00	As per schedule-I	Open Sea through marine Outfall

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3. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
NA				

4. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
NA					

5. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
NA					

6. Municipal Corporation shall try and reuse maximum quantity of treated sewage for secondary purposed such as irrigation, plantation, industrial cooling, construction activity etc.
7. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
8. This consent should not be construed as exemption from obtaining necessary NOC/Permissions from any other Government authorities.
9. Mumbai Municipal Corporation shall comply with the provisions of CRZ Notifications

For and on behalf of the
Maharashtra Pollution Control Board.

(Ashok Shingare IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	300000.00	MPCB-DR-3657	01/01/2021	NEFT

Copy to:

1. Regional Officer, MPCB, Mumbai and Sub-Regional Officer, MPCB, Mumbai I
   - They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB,Sion, Mumbai

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SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. As per your application, the Sewage Treatment Plant (STP) with the design capacity are as under:

A]

Sr.No.	Name of STP	Quantity of effluent MLD
A(i)	STPs	
1	Ghatkopar-STP	386.00
2	Bhandup-STP	280.00
3	Varsova-STP	180.00
4	Malad-STP	280.00
5	Charkop-STP	6.00
A(ii)	STPs	
1	Colaba-STP	41.00
2	Worli-STP	757.00
3	Bandra-STP	797.00

B] The Applicant shall operate the Sewage treatment plant (STP) to treat the effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr.No.	Parameters	Standards prescribed by Board
1	pH	5.5 to 9.0
2	Total Suspended Solid	Not to exceed 20 mg/L
3	BOD (3 days 270C)	Not to exceed 10 mg/L
4	COD	Not to exceed 50 mg/L
5	Total Nitrogen	Not to exceed 10 mg/L
6	Total Phosphor (for discharge into ponds, Lakes)	Not to exceed 1.0 mg/L
7	Fecal Coliform MPN/100 ml	Desirable-100, Permissible-230

Primary water quality criteria for Class SW-II/SW-IV water shall meet following standards at locations A (ii) mentioned above and as :

Sr.No.	Parameters	Standards prescribed by Board
1	pH	5.5 to 9.0
4	BOD (3 days 270C)	Not to exceed 30 mg/L
5	Total Suspended Solid	Not to exceed 50 mg/L
6	COD	Not to exceed 150 mg/L
7	Fecal Coliform MPN/100 ml	Desirable-1000, Permissible-10,000

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C] The treated effluent shall be disposed

After proper disinfection on land for gardening, irrigation, road side plantation, curing water for construction, MSW facility for spraying purpose, and all other non potable, non tangible water uses. The remaining shall be discharged as per Schedule I.

If the Local Body is admitting any effluent arising from the industries located in their jurisdiction, arrangement shall be made by the local body to see that such admittance :-

1. Will not cause the deterioration of sewers/drains.
2. Will not cause any toxicity either at treatment works of enroot.
3. Will not cause harmful effect on people working at treatment work or enroot.

The local body shall fully treat such industrial effluent to meet the above standards.

2. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
3. The Corporation/Industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
4. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	0.00
2.	Domestic purpose	1885660.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	00

5. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.

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SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. Municipal Corporation shall provide the DG set of sufficient capacity in case of electricity failure.
2. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Source	Pollutant	APC System provided/proposed	Stack Height	Type of Fuel	Sulphur Content	Standard	UoM
NA								

3. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
4. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Parameters	Standards	
Total Particulate Matter	Not to exceed	30 mg/ Nm3

5. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
6. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

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SCHEDULE-III
Details of Bank Guarantees:

Sr. No.	Compliance	Municipal Corporation & A Class Municipal Council (BG in Lakhs)	Time for Compliance	Period
	Performance issues			
1	Providing Closed sewer pipeline network for carrying total sewage specified jurisdiction to that particular STP so that no sewage is discharge without treatment.	25	1 Year	
2	Criteria - To achieve full capacity of sewage treatment			
a.	25 % or less	100	1 Year	
b.	> 25% to 50 %	75	1 Year	
c.	> 50% to 75 %	50	1 Year	
d.	> 75 % and above	25	1 Year	
3.	Providing arrangement for treated sewage recycle and reuse atleast 50% for gardening, road side plantation, curing for building construction, MSW facility for spraying purpose, and all other non potable, non tangible water uses. (per STP)	10	1 Year	
4.	Providing adequate system for treatment / disposal of waste i.e. sludge to convert into manure. (per STP)	5	1 Year	
5.	To provide online flow meter with data logger at the inlet and at outlet of STP (per STP)	2	Six months	
	Operation and Maintenance issues			
6.	Disposal of all solid waste like Grit etc. other than sludge generated from the STP at MSW site. (per STP)	2	Continous	Monthly
7.	Towards Operation & Maintenance of the Sewage Treatment Plant to achieve disposal standards. (per STP)	5	Continous	Monthly
8.	Obtaining approval from National Institute of Oceanography for fixing the treated sewage disposal point. (per STP)	10	2 Year	
9.	Maintaining Records (per STP)	1.0	Continous	Monthly
10.	All the Bank Guarantees shall be submitted in 15 days from the date of receipt of the consent and all shall be valid for four months more than validity of the consent.			

The local bodies operating in costal regions and disposing its treated sewage in sea or creek shall obtain approval from National Institute of Oceanography for fixing the treated sewage disposal point for each STPs shall comply with same .

All above Bank Guarantees have submitted by MCGM & shall be valid for four months more than validity of the consent.

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SCHEDULE-IV
General Conditions:

1. The Municipal Corporation should bring minimum 33% of the available open land under green coverage/plantation. The applicant should submit a yearly statement by 30th September every year on available open plot area, no. of trees surviving as on 31st March of the year and no. of trees planted by September end.
2. The Municipal Corporation should provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent.
3. The Municipal Corporation should submit MPCB, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 before 30th September every year.
4. The Municipal Corporation should install a separate meter showing the consumption of energy for operation of domestic treatment plants and air pollution control system if any. A register showing consumption of chemicals used for treatment should be maintained. The applicant should also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption along with Environmental statement.
5. Separate drainage system should be provided for collection of trade and sewage effluents. Terminal manholes should be provided at the end of collection system with arrangement for measuring the flow. No effluent should be admitted in the pipes/sewers down- stream of the terminal manholes. No effluent should find its way other than in designed and provided collection system. Neither storm water nor discharge from other premises should be allowed to mix with the effluents from the factory.
6. The Municipal Corporation should ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
7. The Municipal Corporation should maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
8. The Municipal Corporation shall follow the directions issued by the Board dated 14.6.2010 and time to time.
9. The Municipal Corporation shall follow the direction issued by the Board vide No. BO/P&L Div/B-1334 dated 12.3.2013 and time to time.
10. The Municipal Corporation shall comply with the Provisions of Bio-Medical Wastes (M & H) Rules, 1998 (as amended).
11. This consent is issued without prejudice or being prejudice of the order passed by the Hon'ble High Court in PIL No. 176/2012.
12. This consent is issued without prejudice or being prejudice of the order passed by the Hon'ble NGT (WZ) bench in the Application No.55/2015,.26/2016 and 37/2016.
13. At the inlet and outlet terminal, manholes with measuring devices in the form of online flow measurement devices shall be provided in each STP and record of the same shall be maintained. No effluent shall find its way other than in designed and provided collection system.

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14. The Municipal Corporation shall obtain authorization and comply with the provisions of Municipal Solid Wastes (Management & Handelling) Rules, 2000 and amendments thereto and the Bio- Medical Waste (Management & Handelling) rules, 1998 and amendments thereto, notified by Ministry of Environment & Forest, Government of India vide notification dt. 25.09.2000 which is related to Collection, Segregation, Storage, Transportation, Processing and Disposal as per schedule.
15. The Municipal Corporation shall at its own cost get the samples of untreated and treated effluent collected and analyzed every three months and shall submit the report thereof to the Regional Officer, Pune/Sub Regional Officer, Pune-I, Maharashtra Pollution Control Board, with a copy to the Board Office.
16. A Yearly progress report in the prescribed proforma shall be submitted to the Sub Regional Office and the Regional Office, stating therein the progress made in respect of execution of treatment and proposal of works under this consent. These reports shall be submitted by the 10th April.
17. The Municipal Corporation shall not charge or alter the quantity, the rate of discharge temperature and the mode of disposal of the effluent without previous written permission of the Board Office.
18. The Board reserves the right to revoke, change or alter the terms and conditions of consent by giving one month's notice to the Municipal Corporation
19. The Municipal Corporation shall provided facility for collection of samples to the Board staff at the terminal manhole.
20. An inspection Book shall be opened and made available to the Board Officers during their visit to the Municipal Corporation.
21. Municipal Corporation shall make an Application for renewal of consent at least 60 days before the date of expiry of the consent.

For and on behalf of the
Maharashtra Pollution Control Board.

(Ashok Shingare IAS),
Member Secretary

Kindly verify Maharashtra Pollution Control Board's document on Blockchain by scanning the QR code.
https://blockchain.ecmpcb.in/docs/c8f1307cd4733a5e38e161da96fe90db735ac5e7ca32adb9030ed5540ffa188d

Annexure-15

Analysis results of Bandra STP w.e.f. July, 2021 to July, 2022 - reg.

From : sromumbai2@mpcb.gov.in Mon, Sep 05, 2022 02:36 PM

Subject : Analysis results of Bandra STP w.e.f. July, 2021 to July, 2022 - reg. 1 attachment

To : NISHCHAL C <nischal.cpcb@nic.in>

Cc : romumbai@mpcb.gov.in

With reference to above please find enclosed herewith analysis results of Bandra STP w.e.f. July, 2021 to July, 2022 avaliable with this office.
Submitted for information and further needful, please.

Thanks & Regards,

(Jaywant S. Hajare)
Sub-Regional Officer, Mumbai-II
Maharashtra Pollution Control Board
Mumbai.

From: NISHCHAL C <nischal.cpcb@nic.in>
Sent: 05 September 2022 13:43
To: SRO Mumbai 2 <sromumbai2@mpcb.gov.in>
Cc: RO Mumbai <romumbai@mpcb.gov.in>; Tapas Ukil <tapas.cpcb@gov.in>
Subject: Analysis results of Bandra STP w.e.f. July, 2021 to July, 2022 - reg.

Sir,

This has reference to the Hon'ble NGT vide order dated 11/02/2019 in the matter of Appeal no. 122 of 2018 (PB), titled as Anil Tharthare vs The Secretary, Environment Department, Govt. of Maharashtra & Ors. It is requested to kindly make suitable arrangements to provide the analysis results of Bandra STP w.e.f. July, 2021 to July, 2022.

Regards,
Nishchal C.
Senior Environmental Engineer
Mob: +91 97220 17220

Central Pollution Control Board, Regional Directorate - Pune, Maharashtra
(Ministry of Environment, Forest & Climate Change, Govt. of India)

Bandra STP Result.xlsx
12 KB

1078

Bandra STP Results July 2021- Dec 2021

Sr No	Parameters	UOM	29.07.2021		27.08.2021		02.09.2021		12.10.2021		30.11.2021		23.12.2021	
			Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
1	BOD	mg/li	80	**75**	90	**80**	75	**90**	82	74	76	78	120	74
2	Oil & Grease	mg/li	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3	PH	mg/li	6.8	6.9	6.9	6.9	7	7	6.8	6.9	6.9	6.8	7	7
4	Suspended Solids	mg/li	90	**70**	90	**80**	76	**70**	34	30	28	32	70	66
5	% Na	%	50.77	49.82	46.44	47.97	14.8	14.84	15.17	20.26	32.76	31.11	42.65	35.35
6	Mercury	mg/li	BDL	BDL	-	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
7	Lead (Pb)	mg/li	0.03	BDL	0.01	BDL	0.07	0.08	BDL	BDL	BDL	BDL	BDL	BDL
8	Copper	mg/li	0.02	0.01	0.01	0.01	0.11	0.08	0.08	BDL	BDL	BDL	BDL	BDL
9	Zinc	mg/li	0.02	0.03	0.01	0.04	0.04	0.12	0.2	0.16	0.4	0.17	BDL	BDL
10	Nickel	mg/li	BDL	BDL	BDL	BDL	0.13	0.81	0.06	0.12	BDL	BDL	BDL	BDL
11	Total Chromium	mg/li	BDL	BDL	BDL	BDL	0.4	0.33	0.18	BDL	BDL	BDL	BDL	BDL
12	COD	mg/li									168	168	248	188
13	Faecal Coliform	MPN/100 ml										92000	-	35000

Bandra STP Results Jan 2022-July 2022

Sr No	Parameters	UOM	10.01.2022		01.02.2022		28.03.2022		04.04.2022		31.05.2022		03.06.2022		04.07.2022	
			Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
1	BOD	mg/li	120	115	85	65	55	60	65	80	80	52.5	105	45	12	16
2	Oil & Grease	mg/li	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3	PH	mg/li	6.9	6.8	6.9	6.8	6.8	6.7	6.8	6.8	6.8	6.9	7.6	7.4	7.1	7.2
4	Suspended Solids	mg/li	138	116	88	140	56	80	150	166	42	48	22	20	20	16
5	% Na	%	11.21	10.93	36.01	36.19	43.58	44.62	43.1	42.78	54.89	54.3	50.94	52.29	35.41	34.9
6	Mercury	mg/li	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Inprocess	Inprocess
7	Lead (Pb)	mg/li	0.18	0.08	0.01	0.01	0.02	BDL	BDL	BDL	0.11	0.11	0.11	0.2	Inprocess	Inprocess
8	Copper	mg/li	BDL	BDL	0.02	0.04	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Inprocess	Inprocess
9	Zinc	mg/li	BDL	BDL	0.1	0.16	0.23	0.01	0.05	BDL	BDL	BDL	0.04	0.06	Inprocess	Inprocess
10	Nickel	mg/li	BDL	BDL	0.01	0.01	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Inprocess	Inprocess
11	Total Chromium	mg/li	BDL	BDL	0.01	0.01	0.03	BDL	0.02	BDL	BDL	BDL	BDL	BDL	Inprocess	Inprocess
12	COD	mg/li	256	260	236	216	192	156	168	188	164	136	176	128	48	48
13	Faecal Coliform	MPN/100 m	-	92000	-	24000	-	35000	-	54000	-	4900	-	4600	Inprocess	16000

Annexure-16

Oriana Residential Project , Bandra E

From : ee01z3 swm <ee01z3.swm@mcgm.gov.in> Fri, Sep 02, 2022 07:17 PM
Subject : Oriana Residential Project , Bandra E
To : NISHCHAL C <nischal.cpcb@nic.in>

Name of the project: Oriana Residential Project', C.T.S. No. 646, 646 (Pt.) of village Bandra at Gandhinagar, Bandra East, Mumbai. Residential project completed & occupied in 2016 (total built-up area is 40,000 m2).

a. Whether dry waste is being collected from the aforesaid residential project (Yes/No).

YES

b. If yes, name of the agency engaged for collection of dry waste. Whether such agency is authorized by MCGM?

BMC AUTHORISED AGENCY M/S SHIVSNEH SAMAJIK PRATISHTHAN

c. Details & quantity of dry waste being collected from the aforesaid project.

MIXED DRYWASTE APPROX 200KG PER WEEK IS COLLECTED

d. Details of place where such dry waste is being disposed.

ITS FURTHER SEGREGATED AT DRYWASTE CENTRE AT BKC

e. Details & quantity of rejects and its disposal

REJECT IF ANY DISPOSED OFF SEPERATELY

REGARDS.

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Annexure-17

Fwd: Request for Noise data of Bandra area of Mumbai in compliance to Hon'ble NGT order dated 11/02/2019 in the matter of Appeal no. 122 of 2018- reg.

From : Tapas Ukil <tapas.cpcb@gov.in> Tue, Aug 16, 2022 11:06 AM

Subject : Fwd: Request for Noise data of Bandra area of Mumbai in compliance to Hon'ble NGT order dated 11/02/2019 in the matter of Appeal no. 122 of 2018- reg. 1 attachment

To : NISHCHAL C <nischal.cpcb@nic.in>

From: "Neeraj Katiyar" <neerajkatiyar.cpcb@nic.in>
To: "Tapas Ukil" <tapas.cpcb@gov.in>
Cc: "Deepak Gautam" <dgautam.cpcb@gov.in>, "Aditya Sharma" <aditya.cpcb@nic.in>
Sent: Friday, August 12, 2022 3:17:02 PM
Subject: Re: Request for Noise data of Bandra area of Mumbai in compliance to Hon'ble NGT order dated 11/02/2019 in the matter of Appeal no. 122 of 2018- reg.

Sir,

As directed, the noise data of Bandra area of Mumbai from January 2017 to July, 2022 is placed in the attached file for necessary action.

Thanking you

Regards,

Neeraj Katiyar
SSA
AQMN, Division.

From: "Aditya Sharma" <aditya.cpcb@nic.in>
To: "Neeraj Katiyar" <neerajkatiyar.cpcb@nic.in>
Cc: "Deepak Gautam" <dgautam.cpcb@gov.in>
Sent: Thursday, August 4, 2022 3:26:54 PM
Subject: Fwd: Request for Noise data of Bandra area of Mumbai in compliance to Hon'ble NGT order dated 11/02/2019 in the matter of Appeal no. 122 of 2018- reg.

pl provide

From: "Tapas Ukil" <tapas.cpcb@gov.in>
To: "Aditya Sharma" <aditya.cpcb@nic.in>
Cc: "NISHCHAL C" <nischal.cpcb@nic.in>

Sent: Thursday, August 4, 2022 3:19:02 PM
Subject: Request for Noise data of Bandra area of Mumbai in compliance to Hon'ble NGT order dated 11/02/2019 in the matter of Appeal no. 122 of 2018- reg.

Dear Sir,

I have been directed to follow-up in the above mentioned Hon'ble NGT matter.

This has reference to the Hon'ble NGT vide order dated 11/02/2019 in the matter of Appeal no. 122 of 2018 (PB), titled as Anil Tharthare vs The Secretary, Environment Department, Govt. of Maharashtra (copy of Hon'ble NGT order dated 11/02/2019 is enclosed as Annexure-1 for kind reference). Vide para 33 of its order dated 11/02/2019, that a five-member Expert Committee comprising of two representatives of CPCB (one engineer and one scientist), one representative of NEERI and two members of SEAC (one engineer and one scientist) shall carry out carrying capacity study of the area for relevant environment parameters and impact of such expansion on already congested and stressed areas.

In compliance to the aforesaid Hon'ble NGT order, the joint committee convened several meetings to execute carrying capacity study of Bandra area in compliance of Hon'ble NGT order dated 11/02/2019. Further, a meeting of the joint committee and site visit was carried out on 26/07/2022 at Oriana Residential Project', C.T.S. No. 646, 646 (Pt.) of village Bandra at Gandhinagar, Bandra East, Mumbai to discuss progress of decisions taken in previous meeting of the joint committee and way forward on compliance aforesaid Hon'ble NGT order.

In order to execute carrying capacity study, the joint committee deliberated about the requirements of various data w.r.t. air quality, noise, water, sewage and solid waste generation, quantification, treatment and disposal in the area under consideration i.e. Bandra area. Various aforesaid data has been obtained through MPCB and MCGM. However, it is gathered that noise data of Bandra area is available with CPCB. In this regard, it is requested to kindly make suitable arrangements to provide year-wise noise data w.e.f. 2017 till date for way forward and compliance of Hon'ble NGT order.

Regards,

Tapas Ukil
Scientist B
CPCB RD Pune









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bandra.xls
42 KB

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Mumbai - Bandra Station Data of Real Time Noise Monitoring

	Leq (Log. Avg.) (dBA)	Leq (Log. Avg.) (dBA)
Time	Day Time	Night Time
Avg.	**64.382**	**63.519**
Max.	**76.742**	**75.16**
	(2021/12)	(2021/1)
Min.	**55.483**	**54.013**
	(2020/6)	(2020/6)
Year/Month	**Day Leq**	**Night Leq**
2017/1	68.225	68.16021
2017/2	67.27276	66.8088
2017/3	66.98021	66.33466
2017/4	69.98008	69.87971
2017/5	67.74327	67.77625
2017/6	70.78324	70.03265
2017/7	71.81602	71.67467
2017/8	70.26008	70.17548
2017/9	70.49553	70.38708
2017/10	70.76064	70.79762
2017/11	70.81038	70.64864
2017/12	69.41229	69.04232
2018/1	61.37146	61.25948
2018/2	63.25485	62.76439
2018/3	64.5025	64.48736
2018/4	65.06564	65.39278
2018/5	61.67092	62.05045
2018/6	62.49905	61.97556
2018/7	60.20649	59.59188
2018/8	55.50478	55.13038
2018/9	58.72287	59.12822
2018/10	68.25619	68.79499
2018/11	63.48538	62.82215
2018/12	63.78077	63.38795
2019/1	63.84676	63.45985
2019/2	60.40761	60.24663
2019/3	60.87555	60.35398
2019/4	59.64396	58.80471
2019/5	61.58086	61.36319
2019/6	59.62187	58.62093
2019/7	63.56494	63.13
2019/8	72.44425	72.28171
2019/9	59.26907	55.00293
2019/10	66.60257	60.17304
2019/11	68.46906	68.05148

1084

2019/12	70.23444	70.01245
2020/1	68.69313	66.49109
2020/2	63.51847	65.16915
2020/3	58.42228	57.94596
2020/4	65.93676	66.61334
2020/5	66.30009	66.50067
2020/6	55.48304	54.01261
2020/7	58.67855	57.39973
2020/8	67.42337	68.26447
2020/9	67.09083	66.02337
2020/10	67.85	64.69753
2020/11	56.71447	55.60761
2020/12	64.28608	64.40872
2021/1	74.73801	75.16027
2021/2	63.20728	61.21107
2021/3	63.25583	61.92024
2021/4	60.44805	58.70901
2021/5	60.2885	59.16724
2021/6	69.56384	69.48994
2021/7	70.32833	70.23073
2021/8	63.63434	63.64709
2021/9	61.09212	60.89002
2021/10	62.2211	62.36993
2021/11	60.8987	60.06673
2021/12	76.74182	
2022/1	62.22438	59.69396
2022/2	61.57676	60.30288
2022/3	61.8539	59.93493
2022/4	56.35721	55.34451
2022/5	57.08044	55.36866
2022/6	58.50409	57.20533
2022/7	59.75591	58.42787

Annexure-18

Fwd: regarding NGT hearing no.122/2018 of Oriana Building of CTS no. 646 , 646 pt

From : sromumbai2@mpcb.gov.in — Wed, Sep 21, 2022 08:02 PM

Subject : Fwd: regarding NGT hearing no.122/2018 of Oriana Building of CTS no. 646 , 646 pt — 1 attachment

To : NISHCHAL C <nischal.cpcb@nic.in>, romumbai@mpcb.gov.in

Pl check information received from MCGM

With regards
SRO M2 Outlook for iOS

From: Sandeep Shinde <shinde.mcgm.ss@gmail.com>
Sent: Wednesday, September 21, 2022 7:28:24 PM
To: SRO Mumbai 2 <sromumbai2@mpcb.gov.in>
Cc: jayavanthajare@gmail.com <jayavanthajare@gmail.com>
Subject: regarding NGT hearing no.122/2018 of Oriana Building of CTS no. 646 , 646 pt

Sir,
as per your mail dtd to DychE (BP) dtd.05/09/2022 , the information sought by you are sending herewith this mail .(attachment)
thanks and regards
S.A. Shinde
S.E (B.P.) H/E-S

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oriana.pdf
526 KB

Oriana Residential Project on Plot bearing CTS No. 646, 646 (pt) of village Bandra at Gandhinagar, Bandra East, Mumbai

Details of Layout Sanctioned Plan

Sr. No.	Layout Sanctioned no.& date	Building permission sanctioned no. & Date	Gross Plot Area, m2	Deduction of FSI, m2	Net Plot Area, m2	Name of Building, m	No. Of Floors	Height of Building, m	FSI,m2	Total FSI m2	Parking Nos	Total Non- FSI, m2	Total Build-up area, m2	Remarks
1	Layout sanction u/no. CE/733/BSII/LOHS dated 25.10.2010	CHE/WS/0009/H /337(NEW) dated 12.03.2010	4840	NIL	4840	Model MIG CHSL (Oriana)	A& B Wing 21st Floor	69.95 (up to top floor) & 72 mtr (up to top LMR)	3.5	20798.41 (as per OCC Plan)	177	19115.34 (As certified by Architect/ L.S.)	39914.23	Nil

Plinth Check Certificate

Sr. No.	Name of Building	Plinth Checking Certifictae No.	Date	As per Sanctioned Plan no. & Date (Including area in m2)
1	Model MIG CHSL (Oriana)	CHE/WS/0009/H/337(NEW)	08.06.2010	CHE/WS/0009/H/337(NEW) dated 13.03.2010 , area 2931.76 sq.Mtr upto top of Stilt level

Building Completion Details

Sr. No.	Name of Building	Building Description	Completion Certificate	Date	As per Sanctioned Plan
	Model MIG CHSL (Oriana)	Proposed Building on Plot no bearing CTS no. 646 (pt) Village Bandra at Gandhi Nagar, Bandra (East)	Full O.C.C. for residential Building Comprising of 2 level basement & Stilt + 3 Podiums for car parking + 4th to 21st upper floors of A&B Wing	07.11.2015	O.C.C. plan u/no.CHE/WS/0009/H/337(NEW) dated 07.11.2015.

Work in Progress/ Completed as per latest sanctioned plan

Building	Configuration	Total build-up area in m2 defined as per EC dated 13/03/2014 & EIA Notification issued by MoEF&CC, dated 04/04/2011 (copy attached below)	Present Status
Model MIG CHSL (Oriana)	2 level basement & Stilt + 3 Podiums for car parking + 4th to 21st upper floors of A&B Wing	Total Build up area as per 13.03.2014 NOC - 40480.88 Sq.Mtr	Full O.C.C. Granted u/no. CHE/WS/0009/H/337(NEW) dated 07.11.2015 for Building comprising of 2 level basement & Stilt + 3 Podiums for car parking + 4th to 21st upper floors of A&B Wing

21.09.2022

A.E. (B.P.) H

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 24020781 / 24010437
Fax : 24024068 / 24044532
Email : mpcb@vsnl.net
Visit At : http://mpcb.gov.in

Kalpataru Point, 2nd, 3rd & 4th Floor,
Opp. Cineplanet, Near Sion Circle,
Sion (E), Mumbai-400022.

Annexure-19

EIC No: Mu-5171-13
Infrastructure Project/Orange/LSI
Consent No. MPCB/ROHQ/Mumbai/CE/CC/ 9579 **Date: 20/11/2013**

Consent to Establish under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2008

.....

CONSENT is hereby granted to,
M/s.Resilience Realty Pvt Ltd ,
Plot Bearing CTS No 646 (Pt) ,
Village Bandra Gandhi Nagar ,
Bandra (E) Mumbai-400018

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following **terms** and conditions:

1. **The Consent to Establish is valid up to Commissioning of the Project or 5 years whichever is earlier.**

For development of land/ plot as new construction activities for construction of proposed housing (redevelopment) **project** named as M/s.Resilience Realty Pvt Ltd ,Plot Bearing CTS No 646 (Pt) , Village Bandra Gandhi Nagar , Bandra (E) Mumbai-400018 on **Total Plot Area of 4,840 Sq.mtrs and Total Construction BUA of 32,395.17 Sq.mtrs** including utilities as per construction commencement certificate issued by local body.

2. **CONDITIONS UNDER WATER ACT:**

(i) The daily quantity of sewage effluent from construction project shall not exceed **76 M³**.

(ii) Sewage Effluent Treatment: The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following

1	pH	Not to exceed	6.5 to 9.0
2	Suspended Solids	Not to exceed	100 mg/l.
3	BOD 3 Days 27 degree C	Not to exceed	100 mg/l.
4	Fecal Coliform	Not to exceed	500/100/1 mg/l.
5	Residual Chlorine	Not to exceed	01 mg/l.
6	Detergent	Not to exceed	01 mg/l.
7	Floating matters	Not to exceed	10 mg/l
8	COD	Not to exceed	250 mg/l

standards.

(iii) Sewage Effluent Disposal: The treated domestic effluent shall be 80% recycled and reused for flushing, fire fighting and gardening and remaining shall be discharged to

Maharashtra Pollution Control Board Mumbai

Municipal sewer. In no case, effluent shall find its way to any water body directly/indirectly at any time.

[The project proponent authorities should opt environmental friendly technologies like ozonation, UV treatment etc by replacing chlorination]

(iv) **Non-Hazardous Solid Wastes:**

Sr. No	Type of Segregated solid waste	Quantity Kg/D	Treatment	Disposal
1.	Wet Garbage	155	Treated in Organic Waste Converter	Use as Manure
2.	Dry Garbage	127	..	send to Authorized party.
3.	STP Sludge	5		Use as Manure

3. **Other Conditions (during Construction Phase):**

1. All activities shall be in resonance with the provisions of Indian Forest Act, 1927 (16 of 1927), Forest (Conservation) Act, 1980 (69 of 1980) and Wildlife (Protection) Act, 1972 (53 of 1972), and special notification published for area wherever applicable and all the Environmental Statutes and Instruments.
2. This Consent to Establish is issued only for New Construction/Developing Construction Project purposes.
3. No quarrying activities shall be commenced in the area unless appropriate permissions are obtained for a limited quarrying material required for construction of local residential housing and traditional road maintenance work, provided that such quarrying is not done on Forest Lands and the material is not exported to the outside area.
4. There shall be no felling of trees whether on Forest, Government, Revenue or Private lands except as per prevailing Rules.
5. Extraction of Groundwater for the project shall require prior permission of the State Ground Water Authority or other relevant authorities, as applicable.
6. Near the activities that are related to water (like activity of water parks, water sports) and/or in the vicinity of lake, Dissolved Oxygen shall not be less than 5 mg/liter.
7. In order to ensure that the water from this project do not enter into outside environment, the nallas crossing the township/complex premises, shall be lined, covered and made water tight by the applicant within the premises with intermittent inspection of chambers following good engineering practices as per the regulations of local body.
8. The Applicant shall prepare management plan for water harvesting, roof-water reclamation, water/storm water conservation and implement the same before handling over of complex for occupation.
9. Applicant shall provide fixtures for showers, toilet, flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
10. The Applicant shall draw plans for the segregation of solid wastes into biodegradable and non-biodegradable components. The biodegradable material shall be recycled through scientific in-house composting (i.e vermi-composting facility within premises) with the approval of local body. The proper demarked area shall be identified for collection & storage of MSW properly which, shall be finally disposed off at approved Municipal Solid Waste landfill site of local body environmentally acceptable location and method. It is clarified that the term solid waste includes domestic,

Maharashtra Pollution Control Board Mumbai

commercial, and garden wastes, but does not include hazardous and bio-medical wastes. The activities of bio-composting and engineered landfill shall be as per the Municipal Solid Waste (M&H) Rules, 2000

11. Applicant shall be responsible to take adequate precautionary measures as detailed in this consent.
12. The applicant/generator shall be responsible for safe and scientific collection, transportation, treatment and disposal of Bio-Medical Waste as per the provisions made under the Bio-Medical Waste (Management & Handling) Rules, 1998. Any activity as defined under BMW (M & H) Rules has to obtain a separate Authorization from Maharashtra Pollution Control Board.
13. For disinfections of waste water ultra violet radiation shall be used in place of chlorination.
14. Vehicles hired for construction activities should be operated only during non peak hours.
15. Ready mixed concrete used in building construction should apply separately for consent from the Board.
16. Applicant, during the construction stage shall provide
    a. Septic tank and soak pit of adequate capacity for the domestic effluent generated due to workers residing at site.
    b. Proper loading and unloading of construction material, excavated material and its proper disposal as per MSW (M&H) Rules 2000.
    c. Cutting of trees is not permitted, however in unavoidable conditions necessary permission from the local body shall be obtained.
    d. Green belt of 33% of the open space shall be developed.
17. E-Waste shall be disposed to authorized re processor.

4. **The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under,**

The daily water consumption for the following categories is as under:

(i) Domestic	...	**98.00** CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	.. CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	.. CMD
(iv) Industrial Cooling, spraying	...	.. CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

5. **CONDITIONS UNDER AIR (Prevention & Control of Pollution) ACT, 1981:**

(i) The Applicant may install **1-no** of diesel generating sets (DG Sets), of capacity 625 KVA and shall be equipped with comprehensive control system as is warranted with reference to generations of emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

a. Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	150 mg/Nm3
(ii) SO2 (DG Set)	Not to exceed	-- Kg/day

(ii) The following measures shall be taken:

a. Adequate mitigation measures shall be taken to control emissions of SO2, NOx, SPM, and RSPM
b. Applicant shall achieve following Ambient Air Quality standards.

1. SPM Not to Exceed (Annual Average) 140 µg/ m3

Maharashtra Pollution Control Board Mumbai

	Not to Exceed (24 hours)	200	µg/ m3
2.	SO2 Not to Exceed (Annual Average)	60	µg/ m3
	Not to Exceed (24 hours)	80	µg/ m3
3.	NOx Not to Exceed (Annual Average)	60	µg/ m3
	Not to Exceed (24 hours)	80	µg/ m3
4.	RSPM Not to Exceed (Annual Average)	60	µg/ m3
	Not to Exceed (24 hours)	100	µg/ m3

(iii) The applicant shall observe the following fuel pattern:-

Sr. No.	Type Of Fuel	Quantity
1.	HSD	156 Ltr/Hr

(iv) The applicant shall erect the chimney(s) of the following specifications:-

Sr. No.	Chimney Attached To	Height above the roof of building in which it is installed
1.	DG Set (625 KVA)	3.0 mtrs each

(v) Conditions for D.G. Set:

1. Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
2. Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
3. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
4. Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
5. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
6. A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
7. D.G. Set shall be operated only in case of power failure.
8. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

(vi) Other Conditions:

a) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

b) Water spraying shall be done on ground to avoid fugitive emissions.

Maharashtra Pollution Control Board

Maharashtra Pollution Control Board Mumbai

c) Construction material shall be carried in enclosed vehicles during construction activities.

(vii) Conditions for Utilities like Kitchen, Eating Places etc:

1. The kitchen shall be provided with exhaust system chimney with oil catcher connected to chimney through ducting.
2. The toilet shall be provided with exhaust system connected to chimney through ducting.
3. The air conditioner shall be vibration proof and the noise shall not exceed 68 dB (A).
4. The exhaust hot air from A.C. shall be attached to Chimney at least 5 mtrs. higher than the nearest tallest building through ducting and shall discharge into open air in such way that no nuisance is caused to neighbors.

(viii) The Applicant shall take adequate measures for control of noise levels from its own sources within the complex (residential cum Commercial) in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Daytime is reckoned as between 6 a.m. to 10 p.m. and Nighttime is reckoned between 10 p.m. to 6 a.m.

(ix) Construction equipments generating noise of less than 65/90 db(A) are permitted.

(x) No construction work is permitted during nighttime.

6. **CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:**

(i) The applicant shall handle hazardous wastes as specified below.

7. The applicant shall certify that the bricks used in construction are manufactured using the ash from Thermal Power stations if it is within a radius of 100 km. from Thermal Power Plant and submit the names of bricks manufacturer. The applicant shall use fly ash based material/products as per the provisions of fly ash Notification of 14.09.1999 and as amended on 27.08.2003.

8. The applicant shall comply with the guidelines for High rise building stipulated in office memorandum of MoEF, GOI issued vide no:21-270/2008-IA.III,dt: 07/02/2012.

9. The applicant shall adopt environment friendly technology in development of the project.

10. The applicant shall take the proper remediation measures to ensure that the ground water and soil contamination is prevented and follow due diligence at the construction stage.

11. Energy conservation measures like installation of solar panels for lighting the area outside the building should be integrated part of the project design.

12. The applicant shall use fly ash based material/products as per the provisions of fly ash Notification of 14.09.1999 and as amended on 27.08.2003.

13. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.

14. The applicant shall provide Environmental friendly road transportation by adopting mechanical type closed trucks for transportation of minerals & metals / construction debris with effect from 1/04/2012.

Maharashtra Pollution Control Board

Maharashtra Pollution Control Board Mumbai

15. The Applicant shall submit approved plan from local body which showing location of Sewage Treatment Plant and Municipal Solid Waste Processing plant.

16. **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.**

17. The applicant shall submit **Bank Guarantee of Rs. 10.0 Lakhs** towards the compliance of consent conditions at Regional Office, MPCB, Mumbai **within 15-days**.

18. **The applicant shall submit Board Resolution from company Board, towards starting of construction work without obtaining consent to establish from the MPC Board and Environmental Clearance thus violated the provisions of Environmental Laws and in future, they will not do such violations and BG of Rs. 2 lakh towards submission of Board resolution by 05.12.2013**

19. **The applicant shall comply with the conditions stipulated in Environment Clearance granted by GOM, vide no: SEAC-2013/CR-215/TC.1 dt. 2/05/2013.**

20. This is issued pursuant to the decision of **Consent Committee of the Board in its meeting held on 7th November, 2013.**

21. **The Capital investment of the Project is Rs. 250 Cr.**

22. This is issued as per the office note approved by the Member Secretary of the Board dated 11/11/2013.

Maharashtra Pollution Control Board Mumbai

(Dr. Y. B. Sontakke) 19-11-13
Regional Officer (HQ)
I/c.HSM Division

To,
M/s.Resilience Realty Pvt Ltd ,
Plot Bearing CTS No 646 (Pt) ,
Village Bandra Gandhi Nagar ,
Bandra (E) Mumbai-400018

Copy to-
1. Regional Officer, MPCB, Mumbai - He is directed to obtain necessary Bank Guarantee from the applicant and ensure compliance of consent conditions
2. Sub Regional officer-Mumbai II, MPCB.
3. Chief Accounts Officer, Mumbai, MPCB,

Received consent fee of:-

Sr. No.	Amount	DD. No.	Date	Drawn On
1.	Rs.5,00,100/-	003925	9/5/2013	ICICI Bank

4. Cess Branch, MPCB, Mumbai. 5. Master file.

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781 /4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : http://mpcb.gov.in

Kalpataru Point, 3rd & 4th floor, Sion Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E) Mumbai - 400 022

Annexure-20

Infrastructure /Orange/LSI
Consent order No: Format1.0/BO/RO-HQ/EIC-Mu-6020-14/CE(amendment)/CC-6428
Date-30/05/2015

To,
M/s.Resilience Realty Pvt Ltd.,
"Oriana"
Plot bearing CTS No.646(pt),Village:Bandra,
Gandhi Nagar,Bandra(E),Mumbai-400 050.

Subject: The Amendment Consent to Establish for Building/Construction project Orange category.
Ref : Minutes of Consent Committee meeting held on17/10/2014

Your application CE1407000370
Dated: 21st June, 2014.
For: Amendment in Consent to Establish for Building/Construction project under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The Amendment in consent is granted for a period up to commissioning of the project of 5 years whichever is earlier or 20.11.2018.**

2. **The proposed capital investment of the project is Rs. 278 Cr. (As per CA Certificate submitted by project proponent)**

   The amendment in Consent to Establish is valid for construction of redevelopment of residential project named as **M/s.Resilience Realty Pvt Ltd.,"Oriana",Plot bearing CTS No.646(pt),Village:Bandra,Gandhi Nagar,Bandra(E),Mumbai** for total plot area of **4,840 Sq. Mtrs** and total construction built up area **40,480.88 Sq. Mtrs** including utilities and services as per Construction commencement certificate issued by local body.

3. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	0.00	NA	NA
2.	Domestic effluent	84	As per Schedule –I	60% shall be reused & recycled and remaining shall be discharged in municipal sewer

4. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr. No.	Description of stack/ source	Capacity	Number Of Stack	Standards to be achieved
1	DG Set	625 KVA	1	As per [illegible]

5. Conditions under Municipal Solid Waste (Management and Handling) Rule,2000:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Biodegradable	212 Kg/Day	Will be treated in Organic Waste Convertor	Used as Manure
2	STP Sludge	5.8 Kg/Day	--	Used as Manure
3	Non-Biodegradable	141 Kg/Day	Will be Segregate and Hand over to authorize party.	--

6. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and Disposal of hazardous waste; NIL.

7. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.

8. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

9. The applicant shall submit an affidavit in Board's prescribed format within 15 days regarding compliance of conditions of EC/CRZ Clearance & Consent to Establish.

10. This consent is issued with overriding effect to Existing consent granted by the Board vide No.MPCB/ROHQ/Mumbai/CE/CC/9579 Dated 20/11/2013.

11. The applicant shall comply conditions stipulated in amended Environmental Clearance granted by Environment Department, Govt. of Maharashtra vide No.SEAC-2013/CR.215/TC-1 Dated 13th March,2014.

For and on behalf of the
Maharashtra Pollution Control Board

(P.K.Mirashe)
Member Secretary

Received Consent fee of –

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	Rs. 50,100/-	005905	16/06/2014	ICCI Bank

Copy to:
1. Regional Officer, MPCB, Mumbai and Sub-Regional Officer MPCB, Mumbai-II.
   -- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have proposed to install Sewage Treatment Plants (STP) with the design capacity of 92 CMD.

B] The Applicant shall operate the effluent treatment plant (STP) to treat the sewage so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board
		Limiting Concentration in mg/l, except for Ph
01	BOD (3 days 27oC)	30
02	Suspended Solids	50
03	COD	100
04	Residual Chlorine	1ppm

C) The treated effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, firefighting, on land for gardening etc and remaining shall be discharged in to the municipal sewerage system.

D] Project proponent shall operate STP for five years from the date of obtaining occupation certificate.

2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.

3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

4) In case, the water consumption of the project is not covered under the water consumption of local body, in that situation, the project proponent shall submit the CESS Returns in the prescribed format given under the provision of Water (Prevention & Control of Pollution) Cess Act, 1977 and Rules made there under for various category of water consumption.

In case the water consumption is duly assessed under the quantity of water consumption of local body, the project proponent shall submit certificate to that effect from the concern local body with the request not to assess CESS on their water consumption, being already assessed on the water consumption of local body.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Domestic purpose	109

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. **As per your application, you have proposed to install the Air pollution control (APC)system and also proposed to erect following stack (s) and to observe the following fuel pattern-**

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity	UOM	S%	SO_2
1	DG Set (625 KVA)	Acoustic enclosure	5.0	HSD	125	Kg/Hr	--	--

*** Above roof of the building in which it is installed.**

2. **The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards.**

Particulate matter	Not to exceed	150 mg/Nm^3.

3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement alteration well before its life come to an end or erection of new pollution control equipment.
   The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

4. **Conditions during construction phase**

A	During construction phase, applicant shall provide temporary sewage disposal and MSW facility for staff and worker quarters.
B	During construction phase, the ambient air and noise quality should be closely monitored to achieve Ambient Air Quality Standards and Noise by the project proponent through MoEF approved laboratory.
C	Noise generating activity shall be carried out during day time only.

Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Amendement in Consent to Establish	Rs. 10 lakh	15 Days	Towards compliance of consent conditions	Applicant has submitted BG in existing consent which is valid upto 5.9.2019	Five years
2		Rs. 2 lakh	15 Days	Submission of Board Resolution from company Board, towards starting of construction work without obtaining consent to establish from the MPC Board, thus violated the provisions of Environmental Laws and in future, they will not do such violations.	Applicant has submitted BC in existing consent which is valid upto 19.3.2016	4 month from date of issue of consent

Schedule-IV

General Conditions:

The following general conditions shall apply as per the type of the industry.

1) The applicant shall provide facility for collection of samples of sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
2) The firm shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and environmental protection Act 1986 and Municipal Solid Waste (Management & Handling) Rule 2000 and E-Waste (Management & Handling Rule 2011.
3) Drainage system shall be provided for collection of sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No sewage shall be admitted in the pipes/sewers downstream of the terminal manholes. No sewage shall find its way other than in designed and provided collection system.
4) Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
5) Conditions for D.G. Set
   a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
   b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
   c) The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
   d) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
   e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
   f) D.G. Set shall be operated only in case of power failure.
   g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
   h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
6) Solid Waste – The applicant shall provide onsite municipal solid waste processing system & shall comply with Municipal Solid Waste (Management & Handling) Rule 2000 & E-Waste (M & H) Rule 2011.
7) Affidavit undertaking in respect of no change in the status of consent conditions and compliance of the consent conditions the draft can be downloaded from the official web site of the MPCB.
8) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
9) The firm shall submit to this office, the 30th day of September every year, the environment statement report for the financial year ending 31st march in the prescribed Form-V as per the provision of rule 14 of the Environmental (Protection) Second Amended rule 1992.
10) **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.**

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CTO

Annexure-21

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781 /4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At http://mpcb.gov.in

Kalpataru Point, 3rd & 4th floor, Sion- Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai - 400 022

Infrastructure /Orange/LSI
Consent order No: BO/RO-HQ/EIC- Mumbai-6405-14/CO/CC- 11855 *Date-* 08/09/2015

To,
M/s. Resilience Reality Pvt. Ltd..
CST. No. 646, 646(pt) of village Bandra,
Gandhi Nagar, Bandra (E), Mumbai-400018.

Subject: Consent to Operate for Building/Construction project ORANGE category.
Ref : Minutes of Consent Committee meeting held on 30/05/2015.

Your application: CO1412000278

Dated: 05/12/2014.

For: Consent to Operate for Building/Construction project

under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II ,III & IV annexed to this order:

1. The consent is granted for a period up to:- 31/03/2016.

The proposed capital investment of the project is Rs. 250.0 Crs. (As per C. A. certificate submitted by project proponent) for development of land/ plot as new construction activities for construction of Residential project named as M/s. Resilience Reality Pvt. Ltd, CST. No. 646, 646(pt) of village Bandra, Gandhi Nagar, Bandra (E), Mumbai, on Total Plot Area of 4840.00 Sq. mtrs and Total Construction BUA of 40480.88 Sq.mtr including utilities as per construction commencement certificate issued by local body.

2. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	NIL	NA	NA
2.	Domestic effluent	84	As per Schedule –I	60% shall be reused & recycled and remaining shall be discharged in municipal sewer.

3. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	DG set (625 KVA)	1	As per Schedule –II

4. Conditions under Municipal Solid Waste (Management and Handling) Rule, 2000:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Biodegradable	200 Kg/day	Organic Waste Convertor	Used as Manure
	Non-Biodegradable	168 Kg/day	Segregate and Hand over to TMC for recycling	--
2	STP Sludge	15 kg/day	Manure	

Maharashtra Pollution Control Board Mumbai

5. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
			Nil			

6. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.

7. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

8. **The applicant shall submit affidavit in Boards prescribed format regarding compliance with the conditions stipulated in Environment Clearance granted by GOM, vide no: SEAC-2013/CR.215/TC-1, dt: 02/05/2013 and amended EC dated 13/03/2014 and consent to establish.**

Maharashtra Pollution Control Board Mumbai

For and on behalf of the
Maharashtra Pollution Control Board

Dr. P. Anbalagan (IAS)
Member Secretary

Received Consent fee of –

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1.	256000/-	265209	18/11/2011	Punjab National Bank
2.	244100/-	265313	09/12/2014	Punjab National Bank

Copy to:

1. Regional Officer –Mumbai and Sub-Regional Officer- Mumbai-II MPCB,
   – They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purpose

Maharashtra Pollution Control Board

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided Sewage Treatment Plant (STP) with the design capacity of 100 CMD.

B] The Applicant shall operate the effluent treatment plant (STP) to treat the sewage so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board
		Limiting Concentration in mg/l, except for pH
01	BOD (3 days 27oC)	30
02	Suspended Solids	50
03	COD	100
04	Residual Chlorine	1ppm

C) The treated effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, firefighting, on land for gardening etc and remaining shall be discharged in to the municipal sewerage system.

D) Project proponent shall operate STP for five years from the date of obtaining occupation certificate.

2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.

3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

4) In case, the water consumption of the project is not covered under the water consumption of local body, in that situation, the project proponent shall submit the CESS Returns in the prescribed format given under the provision of Water (Prevention & Control of Pollution) Cess Act, 1977 and Rules made there under for various category of water consumption.

In case the water consumption is duly assessed under the quantity of water consumption of local body, the project proponent shall submit certificate to that effect from the concern local body with the request not to assess CESS on their water consumption, being already assessed on the water consumption of local body.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	00
2.	Domestic purpose	107
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	00

Maharashtra Pollution Control Board Mumbai

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have proposed to install the Air pollution control (APC)system and also proposed to erect following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO_2 Kg/Day
01.	DG set (625 KVA)	Acoustic Enclosure	3.0*	Diesel	166 Ltr/hr	---	---

* Above roof of the building in which it is installed.

2. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm^3.

3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.

4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

5. Conditions during construction phase

a	During construction phase, applicant shall provide temporary sewage disposal and MSW facility for staff and worker quarters.
b	During construction phase, the ambient air and noise quality should be closely monitored to achieve Ambient Air Quality Standards and Noise by the project proponent through MoEF approved laboratory.
c	Noise generating activity shall be carried out during day time only.

Maharashtra Pollution Control Board

Maharashtra Pollution Control Board Mumbai

Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Consent to Operate	Rs. 10 lakhs	15 Days	Towards provision and operation of MSW treatment facility.	31/06/2016	31/06/2016

Maharashtra Pollution Control Board
Maharashtra Pollution Control Board Mumbai

Schedule-IV

General Conditions:

The following general conditions shall apply as per the type of the industry.

1) The applicant shall provide facility for collection of samples of sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
2) The firm shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and environmental protection Act 1986 and Municipal Solid Waste (Management & Handling) Rule 2000 and E-Waste (Management & Handling Rule 2011.
3) Drainage system shall be provided for collection of sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No sewage shall be admitted in the pipes/sewers downstream of the terminal manholes. No sewage shall find its way other than in designed and provided collection system.
4) Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
5) Conditions for D.G. Set
   a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
   b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
   c) The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
   d) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
   e) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
   f) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
   g) D.G. Set shall be operated only in case of power failure.
   h) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
   i) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
6) Solid Waste – The applicant shall provide onsite municipal solid waste processing system & shall comply with Municipal Solid Waste (Management & Handling) Rule 2000 & E-Waste (M & H) Rule 2011.
7) Affidavit undertaking in respect of no change in the status of consent conditions and compliance of the consent conditions the draft can be downloaded from the official web site of the MPCB.
8) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
9) The treated sewage shall be disinfected using suitable disinfection method.
10) The firm shall submit to this office, the 30th day of September every year, the environment statement report for the financial year ending 31st march in the prescribed Form-V as per the provision of rule 14 of the Environmental (Protection) Second Amended rule 1992.

Maharashtra Pollution Control Board Mumbai

Annexure-22

F. No. 22-21/2020-IA.III [E 138949]
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)
*****

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road
New Delhi-110 003

Dated 28th January, 2022

OFFICE MEMORANDUM

Sub.: Observation of Hon'ble Supreme Court with reference to the SoP dated 7th July 2021 for identification and handling of violation cases under EIA Notification 2006 – reg.

The Ministry issued a Standard Operating Procedure dated 7th July 2021 bearing the file number 22-21/2020-IA.III, for identification and handling of violation cases under EIA Notification 2006 in compliance to order of the Hon'ble National Green Tribunal in Appeal No. 34/2020 (WZ) titled Tanaji B. Gambhire Vs Chief Secretary, Government of Maharashtra. The copy of the SoP is enclosed for ready reference.

2. The SoP was challenged in the Madurai Bench of the High Court of Madras in the matter W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India and was interim stayed vide order dated 15th July 2021.

3. Recently, in the Order dated 09th December 2021 in the matter of Civil Appeal Nos. 7576-7577 of 2021 in Electrosteel Steels Limited Vs Union of India and Ors., the Hon'ble Supreme Court of India has *inter-alia* observed the following:

> *"93. The interim order passed by the Madras High Court appears to be misconceived. However, this Court is not hearing an appeal from that interim order. The interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/Rules prevailing prior to 7th July, 2021."*

4. The copy of the order which is self-explanatory is enclosed herewith for necessary action.

5. This is issued with the approval of the competent authority.

(A K Agrawal)
Director

Encl: As above.

To

1. Chairperson/ Member Secretaries of all Expert Appraisal Committees
2. Chairperson/Member Secretaries of all SEIAAs/SEACs
3. All Officers of IA Division

Copy for information to

1. PS to Hon'ble MEF&CC
2. PS to Hon'ble MoS, EF&CC
3. PPS to Secretary, EF&CC
4. PPS to AS (TK)/JS (SKB)
5. Website, MoEF&CC /Guard file

F. No. 22-21/2020-IA.III

Government of India

Ministry of Environment, Forest and Climate Change

Impact Assessment Division

*****

Indira ParyavaranBhawan
Jor Bagh Road, Aliganj
New Delhi – 110003
sujit.baju@gov.in

Date: 7th July, 2021

Office Memorandum

Subject: Standard Operating Procedure (SoP) for Identification and handling of violation cases under EIA Notification 2006 in compliance to order of Hon'ble National Green Tribunal in O.A. No.34/2020 WZ - Regarding.

The Ministry had issued a notification number S.O.804(E), dated the 14th March, 2017 detailing the process for grant of Terms of Reference and Environmental Clearance in respect of projects or activities which have started the work on site and/or expanded the production beyond the limit of Prior EC or changed the product mix without obtaining Prior EC under the EIA Notification, 2006.

2. This Notification was applicable for six months from the date of publication i.e. 14.03.2017 to 13.09.2017 and further based on court direction from 14.03.2018 to 13.04.2018.

3. Hon'ble NGT in Original Application No. 287 of 2020 in the matter of Dastak N.G.O. Vs Synochem Organics Pvt. Ltd. &Ors. and in applications pertaining to same subject matter in Original Application No. 298 of 2020 in Vineet Nagar Vs. Central Ground Water Authority &Ors., vide order dated 03.06.2021 held that "(...) ***for past violations, the concerned authorities are free to take appropriate action in accordance with polluter pays principle, following due process***".

4. Further, the Hon'ble National Green Tribunal in O.A No. 34/2020 WZ in the matter of Tanaji B. Gambhire vs. Chief Secretary, Government of Maharashtra and ors., vide order dated 24.05.2021 has directed that ***"...a proper SoP be laid down for grant of EC in such cases so as to address the gaps in binding law and practice being currently followed. The MoEF may also consider circulating such SoP to all SEIAAs in the country"***.

5. Therefore, in compliance to the directions of the Hon'ble NGT a Standard Operating Procedure (SoP) for dealing with violation cases is required to be drawn.The Ministry is also seized of different categories of 'violation' cases which have been

pending for want of an approved structural/procedural framework based on *'Polluter Pays Principle'* and *'Principle of Proportionality'*. It is undoubtedly important that action under statutory provisions is taken against the defaulters/violators and a decision on the closure of the project or activity or otherwise is taken expeditiously.

6. In the light of the above directions of the Hon'ble Tribunal and the issues involved, the matter has accordingly been examined in detail in the Ministry. A detailed SoP has accordingly been framed and is outlined herein. The SoP is also guided by the observations / decisions of the Hon'ble Courts wherein principles of proportionality and polluters pay have been outlined.

7. Relevant Court Cases on the issue: It is noted that while deciding issues related to violations of the Environment Protection Act, 1986 on account of running the project/activity without prior environmental clearance or in excess of capacity allowed in such clearances, **the Hon'ble courts have, *inter-alia*, deliberated on various facets involving 'violation' cases** and have **enunciated principles of 'Proportionality' and 'Polluter Pays'** in various decisions viz. Industrial Council for Enviro-Legal Action Vs Union of India (the Bichhri village industrial pollution case) (1996 SCC [3] 212); Alembic Pharmaceuticals Ltd. Vs Rohit Prajapati & Ors. (C.A. No. 1526 of 2016, order dated 1.4.2020) and Hindustan Copper Limited Vs Union of India in (W.P. (C) No. 2364 of 2014, order dated 28.11.2014). The salient extracts of the judgements are as under:

Issue 1: Proposal for grant of Environmental Clearance in violation cases – to be considered on merits:

i. Hon'ble High Court of Jharkhand in the matter of Hindustan Copper Limited Vs Union of India in W.P. (C) No. 2364 of 2014, vide order dated 28.11.2014

> *Held: "(...) action for alleged violation would be an independent and separate proceeding and therefore, consideration of proposal for environment clearance cannot await initiation of action against the project proponent."*
>
> *"(...) the proposal of the petitioner company for **environmental clearance must be examined on its merits, independent of any proposed action for the alleged violation of the environmental laws**."*

ii. Hon'ble Madras High Court in the matter of Puducherry Environment Protection Association Vs The Union of India in W.P. No. 11189 of 2017, vide order dated 13.10.2017

> *Held "27. The question is whether an establishment contributing to the economy of the country and providing livelihood to hundreds of people should be closed down only because of failure to obtain prior environmental clearance, even though the establishment may not otherwise be violating*

pollution laws or the pollution, if any, can conveniently and effectively be checked. ***The answer necessarily has to be in the negative.***"

"29. It is reiterated that protection of environment and prevention of environmental pollution and degradation are non-negotiable. At the same time, the Court cannot altogether ignore the economy of the Nation and the need to protect the livelihood of hundreds of employees employed in projects, which as stated above, otherwise comply with or can be made to comply with norms."

Issue 2: Environmental Clearance – Prospective & not ex-post facto:

Hon'ble Supreme Court in the matter of Common Cause Vs Union of India in W.P. (C) No. 114 of 2014, vide order dated 2.8.2017

Held: "(...) an EC will come into force ***not earlier than the date of its grant.***"

Issue 3: 'Principles of Proportionality' – to be applied:

Hon'ble Supreme Court in the matter of Alembic Pharmaceuticals Ltd. Vs Rohit Prajapati & Ors. in C.A. No. 1526 of 2016, vide order dated 1.4.2020

Held: "(...) ***this Court must take a balanced approach*** *which holds the industries to account for having operated without environmental clearances in the past without ordering a closure of operations. The directions of the NGT for the revocation of the ECs and for closure of the units do not accord* ***with the principle of proportionality***"

Issue 4: 'Polluter pays' principle &

&

Issue 5: Costs for remedial measures implicit in Sections 3 & 5 of Environment (Protection) Act, 1986.

Hon'ble Supreme Court in the matter of Indian Council for Enviro- Legal Action Vs Union of India (the Bichhri village industrial pollution case) in (1996 SCC [3] 212)

Held:

a) The Central Government is empowered to take all measures and issue all such directions as are called for the above purpose. The said powers will ***include giving directions ...*** *and also the power to* ***impose the cost of remedial measures*** *on the offending industry and utilize the amount so recovered for carrying out remedial measures.....*

b) ***Levy of costs required for carrying out remedial measures is implicit in Sections 3 and 5*** *which are couched in very wide and expansive language. Sections 3 and 5 of the Environment (Protection) Act, 1986, apart from other provisions of Water and Air Acts, empower the Government to make all such directions and take all such measures as are necessary or expedient for protecting and promoting the 'environment', which expression has been defined in very wide and expansive terms in Section 2 (a) of the Environment (Protection) Act. This power includes the power to prohibit an activity, close an industry, direct to carry out remedial measures, and wherever necessary impose the cost of remedial measures upon the offending industry.*

c) The question of liability of the respondents to defray the costs of remedial measures can also be looked into from accepted universally sound principle, viz., the ***"Polluter Pays" Principle****. "The polluter pays principle demands that the financial costs of preventing or remedying damage caused by pollution should lie with the undertakings which cause the pollution, or produce the goods which cause the pollution".*

8. Legal provisions:

i. The Environment (Protection) Act, 1986 mandates the Central Government to take all measures as it deems necessary or expedient for the purpose of protecting and improving the quality of the environment and preventing, controlling and abating environmental pollution (reference sub-section (1) of Section 3 of Environment (Protection) Act, 1986). Further, clause (xiv) of sub-section (2) of Section 3 of the Environment (Protection) Act, 1986 specifies that the measures stipulated under sub-section (1) of Section 3 of the Environment (Protection) Act 1986 includes '*such other matters as the Central Government deems necessary or expedient for the purpose of securing effective implementation of the provisions of this Act*'.

ii. Further, notwithstanding anything contained in any other law but subject to the provisions of the Environment Protection Act, 1986, Section 5 of the Environment (Protection) Act, 1986, provides that the Central Government may, in the exercise of powers and performance of Central Government functions under the said Act, issue directions in writing to any person, officer or any authority and such person, officer or authority shall be bound to comply with such directions.

9. Definition of Violation and Non-compliance:

The Standard Operating Procedure (SoP) considers 'Violation' & 'Non-compliance' from the following perspective:

i. "Violation" means cases where projects have either started the construction work or installation or excavation, whichever is earlier, on site or have expanded the production capacity and / or project area beyond the limit specified in the Environmental Clearance (Prior-EC) without obtaining Prior-EC or change of scope without prior approval from the Ministry.

ii. "Non-compliance" means non-compliance of terms and conditions prescribed by the Regulatory Authority in the Prior Environment Clearance accorded to the project.

10. Standard Operating Procedure – Guiding Principles:

i. Without prejudice to any other consequences, **action has to be initiated under section 15 read with section 19** of The Environment (Protection) Act, 1986 **against all violations.**

ii. Projects not allowable/permissible, for grant of EC, as per extant regulations: **To be demolished**.

iii. Projects allowable/permissible, if prior EC had been taken as per extant regulations: **To be closed until EC is granted (if no prior EC has been taken) or to revert to permitted production level (in case prior EC has been granted)**.

iv. **Polluter pays**: Violators to pay for violation period - proportionate to the scale of project and extent of commercial transaction.

v. Setting up a mechanism for reporting of violation to the regulatory authority(ies).

11. SOP for dealing with the violation cases:

Step 1: Closure or Revision

Sl no.	Status of EC	Actions
1	If no prior EC has been taken	Order to **close** its operation
2.	If prior EC is available for existing/old unit	Order to **revert the activity/ production** to **permissible limits.**
3.	If prior EC was not required for earlier production level but is now required	**Restrict the activity/production** to the extent to which prior EC was not required.

Step 2: Action under Environment (Projection) Act, 1986

Action under section 15 read with section19 of the Environment (Protection) Act, 1986 shall be initiated against the violators.

Step: 3: Appraisal under EIA Notification, 2006

The permissibility of the project shall be examined from the perspective of whether such activity/project was at all eligible for the grant of prior EC.

A. If not permissible:

i. The project shall be **ordered for the demolition/closure after issuing show cause notice and providing an opportunity of hearing**.

Ex. If a red industry is functioning in a CRZ-I area which means that the activity was, in the first place, not permitted at the time of commencement of project. Therefore, the activity is not permissible and therefore it shall be ***closed & demolished****.*

ii. Respective regulatory authorities shall issue directions under section 5 of the Environment (Protection) Act, 1986 for such closure & demolition of the project/activity.

B. If permissible:

i. As per extant regulations at the time of scoping, if it is viewed that the project activity is otherwise permissible, Terms of Reference (TOR) shall be issued with directions to complete the impact assessment studies & submit Environmental Impact Assessment (EIA) report & Environmental Management Plan (EMP) in a time bound manner.

ii. Such cases of violation shall be subject to appropriate

(a) Damage Assessment

(b) Remedial Plan and

(c) Community Augmentation Plan by the Central level Sectoral Expert Appraisal Committees or State/Union Territory Level Expert Appraisal Committees, as the case may be.

iii. The Competent Authority shall issue directions to the project proponent, under section 5 of the Environment (Protection) Act, 1986 on case to case basis mandating payment of such amount (as may be determined based on Polluters Pay principle) and undertaking activities relating to Remedial Plan and Community Augmentation Plan (to restore environmental damage caused including its social aspects).

iv. Upon submission of the EIA & EMP report, the project shall be appraised by the Central Sectoral Expert Appraisal Committees or the State/Union Territory Level Expert Appraisal Committees, as the case may be, as if it was a new proposal. If, on examination of the EIA/EMP report, the project is considered permissible for operation as per extant regulations, the requisite Environmental Clearance shall be issued **which shall be effective from the date of issue**.

v. However, during appraisal after examination if it is found that even though the project may **be permissible but not environmentally sustainable in its present**

form/configuration/features then the project shall be directed to be **modified so that the project would be environmentally sustainable.**

vi. If, however, it is not considered appropriate to issue EC, the project shall be directed to be **demolished/ closed. If such proposal is a case of expansion, the project shall be directed to revert back to the extent of activity for which EC had been granted earlier or to revert back to the extent of activity for which EC was not required (as the case may be).**

vii. Central Sectoral Expert Appraisal Committees or the State/Union Territory Level Expert Appraisal Committees, as the case may be, may insist upon public hearing to be conducted for such categories of projects for which the EIA Notification 2006, as amended from time to time, requires the public hearing to be conducted.

viii. The project proponent will be required to **submit a bank guarantee equivalent to the amount of Remediation Plan and Natural & Community Resource Augmentation Plan with Central / the State Pollution Control Board (depending on whether it is appraised at Ministry or by SEIAA).** The quantification of such liability will be recommended by Expert Appraisal Committee and finalized by Regulatory Authority. The bank guarantee shall be deposited prior to the grant of environmental clearance and **will be released after successful implementation of the Remediation plan and Natural & Community Resource Augmentation Plan**.

Note - The activities, as per above clauses, shall be undertaken simultaneously wherever feasible. Environmental Clearance, if granted, to such projects or activities, after due appraisal of EIA/EMP report, **shall be effective only from the date of issuance of such clearance** and shall be subject to compliance of obligations towards Damage Assessment, Remedial Plan & Community Augmentation Plan, etc. finalized in each case.

12. Penalty provisions for Violation cases and applications:

a. **For new projects:**

i. **Where operation has not commenced**: 1% of the total project cost incurred up to the date of filing of application along with EIA/EMP report; [Ex: Rs.1 lakh for project cost of Rs.1 Cr]

ii. **Where operations have commenced without EC**: 1% of the total project cost incurred up to the date of filing of application along with EIA/EMP report **PLUS** 0.25% of the total turnover during the period of violation. [Ex: For Rs.100 Cr project cost and Rs.100 Cr total turnover, the penalty shall be Rs.1 Cr + Rs. 0.25 Cr = Rs.1.25 Cr]

b. **For expansion projects:**

i. **Where operation/production with expanded capacity has not commenced**: 1% of the project cost, attributable to the expansion, incurred up to the date of filing of application along with EIA/EMP report.

ii. **Where operation/ production with expanded capacity have commenced**: 1% of the project cost (attributable to the expansion activity) incurred upto the date of filing of application along with EIA/EMP report PLUS 0.25% of the total turnover (attributable to the expanded activity/capacity) involved during the period of violation.

12.1. Without prejudice to obligation as per (a) & (b) above, where the project or activity is considered for appraisal as above & the project proponent fails to provide required information or requisite documents or complete the requisite study for the purpose of EIA/EMP reports or does not furnish such reports within such period, as specified by the appraisal committee, without reasonable cause, it shall be inferred that the project proponent is not serious enough and the project or activity shall be directed to be demolished / closed.

12.2. The percentage rates, as above, shall be halved if the project proponent *suo-moto* reports such violations without such violations coming to the knowledge of the Government either on inquiry or complaint.

12.3. The penalty, as above, shall be in addition to liability for carrying out various remedial measures which shall be worked out based on the damage assessment for quantifying the environmental damage caused due to unauthorized project activity [as per Step 3 enumerated above].

13. Identification of Violation cases:

With a view to protecting the environment and to expeditiously bring violators into a regulatory regime so as to prevent & control environment damage caused by such violation & to determine whether operation of such projects is permissible and to take action stipulated under Section 15 of the Environment (Protection) Act, 1986 for contravention of the provisions of the said Act, Rules, orders and directions, it is expedient to also identify the cases of violation, examine and appraise such projects so as to refrain them from causing further environmental damage and also to compensate for causing damage to the environment.Therefore, in exercise of the powers conferred under Section 5 of the Environment (Protection) Act, 1986, the Central Government hereby directs that:-

i. State Pollution Control Boards & Union Territory Pollution Control Committees, before grant or renewal of Consents under Water(Prevention & Control of Pollution) Act, 1974 & Air (Prevention& Control of Pollution) Act, 1981, shall ensure that the project proponents applies for or possess valid Prior

Environmental Clearance in terms of extant EIA Notification and shall not grant or renew CTO (Consent to Operate) unless Environment Clearance (if applicable) has been obtained.

ii. The Central Pollution Control Board, all State Pollution Control Boards and all Union Territory Pollution Control Committees shall identify cases of violation under their respective jurisdiction, report such cases to the Ministry or State/Union Territory Level Environmental Impact Assessment Authority, as the case may be and also revoke CTO, if granted to the unit after giving an opportunity of being heard.

iii. The Central Pollution Control Board, all State Pollution Control Boards and all Union Territory Pollution Control Committees shall expeditiously examine the references, received from public and other bodies, relating to violations and take necessary steps as per (ii) above.

14. This is issued with the approval of the Competent Authority.

07/7/2021

(Dr. Sujit Kumar Bajpayee)
Joint Secretary (IA)

To

1. Chairperson/Member Secretary of Central Pollution Control Board
2. Chairperson/Member Secretaries of all the SEIAAs/SEACs
3. Chairman/Members of all the Expert Appraisal Committees
4. Chairman/Members of all the State Pollution Control Boards and Union Territory Pollution Control Committees

Copy for information:

1. PS to Hon'ble Minister for Environment, Forest and Climate Change
2. PS to Hon'ble MoS for Environment, Forest and Climate Change
3. PPS to Secretary(EF&CC)
4. PPS to AS(RS) / AS (RA)/ AS (UD)/ JS(JT) / JS (MP)/ JS (NPG)
5. All the officers of IA Division
6. Website of MoEF&CC/PARIVESH/Guard file

Copy (by email) also forwarded to the Registrar, NGT, in compliance to instruction given in O.A No. 34/2020 WZ in the matter of Tanaji B. Gambhire vs. Chief Secretary, Government of Maharashtra and ors.(order dated 24.05.2021).

REPORTABLE

IN THE SUPREME COURT OF INDIA

CIVIL APPELLATE JURISDICTION

CIVIL APPEAL NOS. 7576-7577 OF 2021

[Arising out of SLP (C.) Nos. 11226-11227 of 2020]

Electrosteel Steels Limited .....Petitioner (s)

Versus

Union of India and Ors. Etc. ....Respondent (s)

J U D G M E N T

Indira Banerjee, J.

Leave granted.

2. These Appeals are against an order dated 16th September 2020 passed by a Single Bench of the High Court of Jharkhand in W.P. (C) No.1873 of 2018 and W.P. (C) No. 4850 of 2018, discontinuing the interim orders earlier passed by the High Court, allowing the Appellant to operate its unit under the supervisory regulatory control of the Respondent – Jharkhand State Pollution Control Board, hereinafter referred to as "JSPCB", which had been in force for over two years.

3. The Appellant owns and runs a 1.5 MTPA integrated steel plant in Bokaro District in Jharkhand. The said steel plant in Bokaro, which

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Digitally signed by Rajni Mukhi
Date: 2021.12.14 17:13:44 IST
Reason:

employs 3,000 regular employees and 7000 contractual employees, produced steel worth Rs.4,200 crores in the financial year 2019-20.

4. The Appellant claims that about 30,000 persons other than those actually employed by the steel plant as regular or contractual employees depend on the steel plant for their livelihood.

5. Corporate Insolvency Resolution Process (CIRP) had commenced against the Appellant under the Insolvency and Bankruptcy Code 2016. As successful Resolution Applicant, Vedanta Ltd. took over the Appellant on or about 4th June 2018 upon payment of Rs.5,320 crores for discharge of its debts.

6. Pollution and consequential deterioration of environment has been assuming alarming proportions, and has become a cause of universal concern. Fumes, smoke, emission of green house gases by use of motors and machines and operation of mills, factories and plants cause environmental degradation.

7. Under the aegis of the United Nations discussions and deliberations have been held to protect and improve environment and prevent pollution.

8. In 1972, the United Nations Conference on the Human Environment was convened in Stockholm to work out ways and means to protect and improve the environment. In course of deliberations, it was felt that there was need to enact law to tackle environmental pollution. India

participated in the conference and strongly voiced environmental concerns.

9. The Environment (Protection) Act, 1986, hereinafter referred to as "*the 1986 Act*", has been enacted as a consequence of decisions taken at the United Nations Conference on the Human Environment held in Stockholm in June, 1972.

10. The statement of objects and reasons for enactment of the 1986 Act declares that the Act has been prompted by concern over environment, that has grown the world over, since the sixties.

11. Sub-Section (1) of Section 3 of the 1986 Act empowers the Central Government to take all such measures as it might deem necessary or expedient for the purpose of protecting and improving the quality of the environment and preventing, controlling and abating environmental pollution.

12. Sub-section (2) of Section 3 of the 1986 Act enables the Central Government to take, *inter alia*, the following measures:

> *"(i) co-ordination of actions by the State Governments, officers and other authorities—*
>
> *(a) under this Act, or the rules made thereunder; or*
>
> *(b) under any other law for the time being in force which is relatable to the objects of this Act;*
>
> *(ii) planning and execution of a nation-wide programme for the prevention, control and abatement of environmental pollution;*
>
> *(iii) laying down standards for the quality of environment in its various aspects;*
>
> *(iv) laying down standards for emission or discharge of*

environmental pollutants from various sources whatsoever:

Provided that different standards for emission or discharge may be laid down under this clause from different sources having regard to the quality or composition of the emission or discharge of environmental pollutants from such sources;

(v) restriction of areas in which any industries, operations or processes or class of industries, operations or processes shall not be carried out or shall be carried out subject to certain safeguards;

(vi) laying down procedures and safeguards for the prevention of accidents which may cause environmental pollution and remedial measures for such accidents;

(vii) laying down procedures and safeguards for the handling of hazardous substances;

(viii) examination of such manufacturing processes, materials and substances as are likely to cause environmental pollution;

(ix) carrying out and sponsoring investigations and research relating to problems of environmental pollution;

(x) inspection of any premises, plant, equipment, machinery, manufacturing or other processes, materials or substances and giving, by order, of such directions to such authorities, officers or persons as it may consider necessary to take steps for the prevention, control and abatement of environmental pollution;

(xi) establishment or recognition of environmental laboratories and institutes to carry out the functions entrusted to such environmental laboratories and insitutes under this Act;

(xii) collection and dissemination of information in respect of matters relating to environmental pollution;

(xiii) preparation of manuals, codes or guides relating to the prevention, control and abatement of environmental pollution;

(xiv) such other matters as the Central Government deems necessary or expedient for the purpose of securing the effective implementation of the provisions of this Act."

13. Sub-section (3) of Section 3 of the 1986 Act provides as follows:

> *"The Central Government may, if it considers it necessary or expedient so to do for the purposes of this Act, by order, published in the Official Gazette, constitute an authority or authorities by such name or names as may be specified in the order for the purpose of exercising and performing such of the powers and functions (including the power to issue directions under Section 5) of the Central Government under this Act and for taking measures with respect to such of the matters referred to in sub-section (2) as may be mentioned in the order and subject to the supervision and control of the Central Government and the provisions of such order, such authority or authorities may exercise the powers or perform the functions or take the measures so mentioned in the order as if such authority or authorities had been empowered by this Act to exercise those powers or perform those functions or take such measures."*

14. Subject to the provisions of the 1986 Act, the Central Government has power under sub-section (1) of section 3 to take all such measures as it deems necessary or expedient for the purpose of protecting and improving the quality of the environment and preventing, controlling and abating environmental pollution.

15. Section 5 of the 1986 Act provides that notwithstanding anything contained in any other law, but subject to the provisions of the 1986 Act, the Central Government may, in exercise of its powers and performance of its functions under the 1986 Act, issue directions in writing to any person, officer or any authority and such person, officer or authority shall be bound to comply with such directions.

16. In exercise of powers conferred by Sub-Section (1) and clause (v) of sub-section (2) of Section 3 of the 1986 Act read with Rule 5(3)(d) of the Environment (Protection) Rules, 1986 the Central Government issued the Environmental Impact Assessment Notification dated 27th January 1994 directing that on and from the date of publication of the said notification in the Official Gazette, expansion or modernisation of any activity or a new project listed in Schedule I of the Notification shall not be undertaken in any part of India, unless it has been accorded Environmental Clearance (EC) by the Central Government in accordance with the procedure specified in the Notification.

17. Under Clause (2)(I) of the said Notification, any person who desires to undertake any new project listed in Schedule I is required to submit an application to the Secretary, Ministry of Environment and Forests (MoEF), New Delhi in the pro forma specified in Schedule II, accompanied by a project report which is to include the EIA (Environmental Impact Assessment) Report /Environment Management Plan (EMP) prepared in accordance with the guidelines issued by MoEF. Another Environmental Impact Notification was issued in 2006, for grant of Terms and Environmental Clearance *inter alia* for projects which had started work on site.

18. The EIA Report submitted with the application of the project proponent is to be evaluated and assessed by the Impact Assessment Agency (IAA), that is MoEF, and if deemed necessary, it may consult a Committee of Experts constituted in the manner prescribed in Schedule III. The Committee of Experts shall have full right of entry and inspection of the site. The Impact Assessment Agency is to prepare a set of recommendations based on technical assessment of documents and data, furnished by the project proponent, supplemented by data collected during visits to sites, interaction with the affected population and environmental groups, if necessary. The summary of the reports, the recommendations and the conditions, subject to which EC is given shall, subject to public interest, be made available to the parties concerned or environmental groups on request. The IAA may solicit comments of the public within the specified period by arranging public hearings for that purpose. The public shall, subject to public interest, be provided access, to the summary of the EIA Report/Environment Management Plan (EMP). The clearance granted for commencement of the construction or operation of the plant, is to be valid for five years. Clause IV of the Environmental Impact Assessment Notification provides for the monitoring of the implementation of the conditions of EC and/or the recommendations and conditions laid down by IAA.

19. A minor amendment was made to the said Environmental Impact Assessment Notification dated 27th January 1994, by a Notification dated 10th April 1997, which prescribes a detailed procedure for public hearing.

20. By a notification being S.O. 327(E), dated 10th April 2001, published in the Gazette of India, Extra., Pt.II, Sec.3(ii), dated 12th April 2001, the Central Government has delegated the powers vested in it under Section 5 of the 1986 Act, to the Chairpersons of the respective State Pollution Control Boards/Committees to issue directions to any industry or any local or other authority for the violations of the standards and rules relating to biomedical waste, hazardous chemicals, industrial solid waste and municipal solid waste including plastic waste notified under the Environment (Protection) Act, 1986 subject to the condition that the Central Government may revoke such delegation of powers or may itself invoke the provisions of Section 5 of the said Act, if in the opinion of the Central Government such a course of action is necessary in the public interest.

21. On or about 8th January 2007, the Appellant applied to the Ministry of Environment, Forest and Climate Change, Government of India, hereinafter referred to as “MoEF&CC” for grant of EC to establish 3 MTPA integrated steel plant at Mauza South Parbatpur of Chandankiyari Block of Bokaro District.

22. In its application, the Appellant stated that 1350 acres of land were required for establishing the said plant at the Mauza South Parbatpur of Chandankiyari Block of Bokaro District and that no forest land was involved in the project.

23. By a letter No. F.No.J-11011/137/2006-1A-II (i) dated 21st February 2008, the Appellant was granted EC. After obtaining EC, the Appellant applied to the JSPCB, for grant of 'Consent to Establish' (CTE) under the Air (Prevention and Control of Pollution) Act, 1981, hereinafter referred to as the Air Pollution Act, and Water (Prevention and Control of Pollution) Act 1974, hereinafter referred to as the Water Pollution Act.

24. On 5th May 2008, the JSPCB granted CTE to the Appellant to establish the 3 MTPA integrated steel plant at Mauza South Parbatpur of Chandankiyari Block of Bokaro District. The CTE was granted on the basis of the EC granted by the MoEF&CC.

25. The CTE was extended from time to time till 4th May 2011. Even though CTE was granted to the Appellant to establish a steel plant at Mauza South Parbatpur of Chandankiyari Block of Bokaro District, the Appellant established steel plant in Mauza Bhagabandh in the Chas Block in Bokaro District, 5.3 Kms away from the site for which EC and CTE had been granted.

26. A Circular No.J-11013/41/2006-1A.2(i) dated 22nd January, 2010 was issued by the Ministry of Environment and Forest (MoEF) of the Government of India which provided as follows:

> "*Instances have come to the notice of this Ministry wherein the project proponents have changed the project site after the said project has been granted environmental clearance or after the public hearing has been held. The project proponents have approached this Ministry to revalidate the environmental clearance so granted without undergoing afresh the procedure prescribed for obtaining environmental clearance. The matter has been considered in the ministry. The change in project site would lead to change in project affected people as well as the*

change in study area and the impact zone. As such the Environment Impact Assessment Report and Public Hearing conducted for a particular location cannot be taken valid for the changed location.

Accordingly, it has been decided that any shift in project site location after holding of public hearing will be deemed to be a new proposal and will be appraised afresh as per the procedure prescribed under EIA Notification 2006 provided the respective Expert Appraisal Committee is satisfied that the shift is so minor as to have no change in EIA/EMP, duly recorded in the minutes and prior approval of advisor (In-charge)/SEIAA for Category 'A'/Category 'B' projects respectively is obtained for not holding the public hearing for the changed location afresh.

This issues with the approval of the Competent Authority."

27. By a communication being Reference No.1142 dated 4th May 2010, the District DFO (District Forest Officer) Bokaro requested JSPCB to take action against the Appellant for setting up its integrated steel plant on forest land in Mauza Bhagabandh of Chas Block of Bokaro District, in violation of the Forest Conservation Act 1980 and Indian Forest Act 1927. The DFO, Bokaro reported encroachment of 220.88 acres of notified forest land by the Appellant to JSPCB.

28. It appears that cases had been initiated against the officials of the Appellant under the Indian Forest Act, 1927, Forest Conservation Act, 1980 and the Bihar Public Land Encroachment Act, 1955 which have been quashed by the Jharkhand High Court, by an order dated 25th January 2011.

29. On or about 23rd September 2010 the Appellant applied for Consent to Operate (CTO) under the Air Pollution Act and the Water Pollution Act for its 350 m^3 blast furnace. Later on 9th September 2011, the Appellant applied for CTO in respect of its entire plant.

30. By a letter dated 2nd December 2011, addressed to the Appellant, the MoEF confirmed that the lay out of the Appellant's 3 MTPA Integrated Steel Plant was well within the Environment Impact Area and that the affected people had the opportunity to participate in a public hearing.

31. By letter dated 18th May 2012, the JSPCB reported encroachment by the Appellant upon forest land and alleged violation by the Appellant of the Forest Conservation Act, 1980 to the MoEF&CC, New Delhi. The MoEF&CC was also informed of the unauthorized shifting of the integrated steel plant from Mauza South Parbatpur of Chandankiyari Block of Bokaro District to Mauza Bhagabandh of Chas Block of Bokaro District in violation of the conditions of Environment Clearance granted by the MoEC&CC.

32. Pursuant to the report of JSPCB, MoEF&CC issued a Show Cause Notice dated 6th June 2012 to the Appellant under Section 5 of the 1986 Act. The Appellant submitted its reply to the Show Cause Notice on 20th June 2012.

33. On 10th September 2012, the Appellant once again applied to JSPCB for CTO for one year under the Water Pollution Act and Air Pollution Act. According to the Appellant, several reminders were sent to MoEF&CC requesting MoEF&CC to intimate JSPCB of the outcome of the Show Cause

Notice issued to the Appellant. However, JSPCB has not been informed of the decision of MoEF&CC.

34. The Appellant filed a Writ Petition being W.P. No.2247/2012 in the Jharkhand High Court for orders on JSPCB to grant the Appellant CTO. The said writ petition was disposed of by an order dated 5th November 2012, the operative part whereof is set out hereinbelow:-

> *"Respondent 1& 2 to consider the petitioner's application and as assured by them, if so required, give an opportunity of hearing to the petitioners and after taking into consideration the facts and provisions of law and the related decisions, shall dispose of the petitioner's application within five weeks from the date of receipt/production of a copy of this order."*

35. On or about 27th November 2013, the application of the Appellant for CTO was rejected on the ground that the Appellant had shifted the site of its steel Plant and had encroached upon forest land in violation of the Forest Conservation Act, 1980. The operative part of the order dated 27th November 2013 reads:-

> *"at this stage subject to final outcome of the decision of MoEF&CC, New Delhi with respect to show cause notice dated 6.6.2012, we dispose the application for CTO in exercise of power conferred u/s 21(4) of Air (Prevention and Control of Pollution) Act, 1981 & u/s 25(4) of Water (Prevention and Control of Pollution) Act, 1974 by "refusing" the CTO to the unit for the reason aforesaid."*

36. The Appellant filed an application for contempt being Contempt Case (C) No.939 of 2013 in W.P.(C) No.2247 of 2012 in the Jharkhand High Court. Pursuant to an order dated 29th November 2013 in the Contempt Petition, the JSPCB disposed of the applications for grant of CTO to the Appellant.

37. By a letter dated 17th April 2013, the MoEF&CC had called for a status report from the State of Jharkhand in respect of forest land encroached by the Appellant. The Forest Department submitted a report to the MoEF&CC on 13th May, 2014.

38. Thereafter, by a letter dated 20th October 2014, the MoEF&CC, New Delhi directed the Department of Forest, Environment and Climate Change, Government of Jharkhand to take action against the Appellant for violating the provisions of Indian Forest Act, 1927 and Forest Conservation Act, 1980. In compliance with the aforesaid order, JSPCB directed the Appellant to close down its plant under Section 31(A) of the Air Pollution Act and Section 33(A) of Water Pollution Act.

39. By a Memo No.521 dated 6th February 2015, the Department of Forest, Environment and Climate Change, Government of Jharkhand directed the DGP, Jharkhand, Ranchi and the Deputy Commissioner, Bokaro to take action against the Appellant in the light of the letter dated 20th October, 2014 of the MoEF&CC, Government of India and to submit an action taken report.

40. The aforesaid order of JSPCB was challenged by the Appellant by filing a Writ Petition being WP(C) No.2033 of 2015 in the Jharkhand High Court. By an order dated 5th February 2016 the High Court set aside the order of the JSPCB holding that the same had been passed in violation of principles of natural justice. The High Court however, held that JSPCB

would be at liberty to pass an order in accordance with law after giving the Appellant an opportunity of hearing.

41. Thereafter, a show cause notice dated 25th April 2016, was issued to the Appellant. The Appellant replied to the show cause notice on 28th September 2016, contending that the Appellant had not set up its plant on any forest land and that all pollution control measures had been taken. However, the Principal Chief Conservator of Forests (PCCF), Jharkhand had by a communication No.2966 dated 8th August 2016 informed JSPCB that the Appellant had encroached forest land. Thereafter JSPCB once again called upon the Appellant to show cause in the light of information provided by the PCCF, Jharkhand. The Appellant by a letter dated 28th September 2016 reiterated that there was no forest land in the plant premises.

42. JSPCB passed an order No.B-319 dated 13th February 2017 disposing of the show cause notice in the light of the direction dated 5th February 2016 of the Jharkhand High Court and the applications for CTO. JSPCB granted CTO to the Appellant which was valid till 31st December, 2017.

43. The MoEF&CC and the State Environment Impact Assessment Authorities had, in the meanwhile been receiving proposals under the Environment Impact Assessment Notification, 2006 for grant of Terms of Reference and Environmental Clearance for projects which had started the work on site, expanded the production beyond the limit of

environmental clearance or changed the product mix without obtaining prior environmental clearance.

44. The MoEF&CC deemed it necessary that all entities not complying with the environmental regulation under Environment Impact Assessment Notification, 2006, be brought to comply with the environmental laws in expedient manner, for the purpose of protecting and improving the quality of the environment and reducing environmental pollution.

45. The MoEF&CC deemed it necessary to bring such projects and activities in compliance with the environmental laws at the earliest point of time, rather than leaving them unregulated and unchecked, which would be more damaging to the environment.

46. In furtherance of this objective, the Government of India deemed it essential to establish a process for appraisal of cases of violation of norms, and prescribing such adequate environmental safeguards that would deter violation of the provisions of Environment Impact Assessment Notification, 2006 and ensure that damage to environment was adequately compensated for.

47. In ***Indian Council for Enviro-Legal Action and Ors. v. Union of India and Ors.[1],*** the Supreme Court analyzed relevant provisions of environmental laws and concluded that damages might be recovered under the provisions of the 1986 Act, inter alia, to implement measures that were necessary or expedient for protecting and promoting the

1. (1996) 3 SCC 212

environment. This Court affirmed that the power of the Central Government under Section 3 of the 1986 Act was wide and included the power to prohibit an activity, close an industry, direct to carry out remedial measures, and wherever necessary impose the cost of remedial measures upon the offending industry. The question of liability of the respondents to defray the costs of remedial measures could also be looked into from the principle "polluter pays."

48. In exercise of power under Section 3(1) and Section 3(2)(v) of the 1986 Act read with Rule 5(3)(d) of the Environment (Protection) Rules, 1986, the Central Government has issued a Notification being S.O. 804(E) dated 14th March 2017 which provides for grant of ex post facto EC for project proponents who have commenced, continued or completed a project without obtaining EC under the 1986 Act or the EIA notification issued under it.

49. Paragraphs 3, 4 and 5 of the said notification, read as follows :

> *"(3) In cases of violation, action will be taken against the project proponent by the respective State or State Pollution Control Board under the provisions of section 19 of the Environment (Protection) Act, 1986 and further, no consent to operate or occupancy certificate will be issued till the project is granted the environmental clearance.*
>
> *(4) The cases of violation will be appraised by respective sector Expert Appraisal Committees constituted under sub-section (3) of Section 3 of the Environment (Protection) Act, 1986 with a view to assess that the project has been constructed at a site which under prevailing laws is permissible and expansion has been done which can be run sustainably under compliance of environmental norms with adequate environmental safeguards; and in case, where the finding of the Expert Appraisal Committee is negative, closure of the project will be recommended along with other actions under the law.*

(5) In case, where the findings of the Expert Appraisal Committee on point at sub-para(4) above are affirmative, the projects under this category will be prescribed the appropriate Terms of Reference for undertaking Environment Impact Assessment and preparation of Environment Management Plan. Further, the Expert Appraisal Committee will prescribe a specific Terms of Reference for the project on assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter in the environment impact assessment report by the accredited consultants. The collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory duly notified under Environment (Protection) Act, 1986, or a environmental laboratory accredited by National Accreditation Board for Testing and Calibration Laboratories or a laboratory of a Council of Scientific and Industrial Research institution working in the field of environment."

50. On or about 24th August 2017, the Appellant applied for CTO for five years. On 13th November 2017, JSPCB issued a Show Cause Notice to the Appellant pointing out alleged contraventions of the conditions of Consent to Operate (CTO) earlier granted to the Appellant. The Appellant was called upon to show cause whether conditions of the CTO had been contravened while the application of the Appellant for CTO for five year was pending.

51. On 23rd November 2017, the Appellant submitted its online reply to the Show Cause Notice showing compliance of the conditions of the CTO.

52. By a communication No.2105 dated 18th December 2017 JSPCB requested MoEF&CC to inform JSPCB of the decision on the show cause notice issued to the Appellant under Section 5 of the 1986 Act for

revocation of the EC for non compliance of the conditions for grant of EC for the integrated plant at Parbatpur, Jharkhand.

53. Aggrieved by the failure of JSPCB to issue/renew the CTO to the Appellant, pursuant to its application made on 24th August 2017, the Appellant filed a writ petition being W.P.(C) No. 1873 of 2018 in the Jharkhand High Court on or about 12th April 2018 seeking directions on the JSPCB to issue CTO to the Appellant.

54. By an order dated 16th July 2018, the High Court directed the JSPCB to take a final decision on the application of renewal/grant of CTO filed by the Appellant on 24th August 2017 within the time stipulated in the said order.

55. The High Court further passed an interim order directing that the Appellant be allowed to operate its unit under the supervisory and regulatory control of the JSPCB, who might carry out periodical check as to adherence by the Appellant of pollution control laws.

56. JSPCB passed an order dated 21st August, 2018, rejecting at that stage the request of the Appellant for CTO, subject to the decision of MoEF&CC on the show cause notice issued to the appellant. The operative part of the said order is set out hereinbelow:

> *"at this stage subject to final outcome of the decision of MoEF&CC, New Delhi with respect to show cause notice dated 6.6.2012, we dispose the application for CTO in exercise of power conferred u/s 21(4) of Air (Prevention and Control of Pollution) Act, 1981 & u/s 25(40 of Water (Prevention and Control of pollution) Act, 1974 by "refusing" the CTO to the unit for the reason aforesaid."*

57. The Appellant, thereafter approached the High Court with a prayer for amendment of Writ Petition No.1873 of 2018. By an order dated 25th August 2018, the High Court allowed the application for amendment of the Writ Petition and directed the respondent to file their response to the amended writ petition. The High Court further directed:-

> *"10. So far as interim relief is concerned, this court finds that the order passed by the respondent-Jharkhand State Pollution Control Board dated 23.08.2018 appears to be directly dependent on the final decision which is yet to be taken by the Ministry of Environment, Forest & Climate Change on the show cause issued to the petitioner as back as in the year 2012. As per the submission made by the counsel appearing on behalf of Union of India, they are shortly going to take a final decision in the matter after hearing the petitioner. Accordingly the operation, implementation and execution of the order dated 23.08.2018 passed by Jharkhand State Pollution Control Board is hereby stayed till 27.09.2018 and the interim order dated 16.07.2018 is hereby extended till 27.09.2018.*
>
> *11.So far as decision of the Ministry of Environment, Forest & Climate Change are concerned, considering the fact that the unit of the petitioner is running unit and large number of employees are working in this unit of the petitioner, this court consider it appropriate that the issue regarding the environmental clearance of the petitioner should be decided at the earliest.*
>
> *12.It is further observed that it is open to the petitioner to approach the Union of India with their proposal/ application for regularization of the alleged violation, without prejudice to their rights (including right, title, interest, possession and nature of property of the petitioner) and advance submissions before the respondent authority of Union of India pursuant to the show cause notice issued to them dated 6.6.2012 and the appropriate authority may, if possible, simultaneously consider the aforesaid application of the petitioner for regularization along with the show cause reply of the petitioner such that entire dispute is decided and the petitioner may also have a clarity about the fate of its unit . The decision which is to be taken by the Union of India be brought on record by either of the parties by filing supplementary affidavit latest by 25.09.2018.*
>
> *13.I.A. No. 7610 of 2018 and I.A No. 7613 OF 2018 are hereby disposed of.*

14.It is made clear that this court has not gone into the merits of the claim of the petitioner and it will be open to the respondent no 3 to take decision as per law."

58. By the aforesaid order dated 25th August 2018, the High Court directed MoEF to take a decision on the application of the Appellant for EC as also a decision regarding violation by the Appellant of the provisions of EC by encroachment upon forest land by shifting the location of the plant.

59. On 31st August 2018, MoEF&CC issued a show cause notice No. F.No. J-11011/137/2006-1A Pt.II (i) dated 31st August 2018 to the Appellant for violating the provisions of the EC by shifting the location of its plant and encroaching upon forest land.

60. The Respondent No.1 was also accorded personal hearing on 10th September 2018. On 12th September 2018 Mr. Gyanesh Bharti who presided over the personal hearing was transferred from MoEF&CC.

61. On 20th September 2018 the Respondent No.1 issued an order bearing No.F.No.J-11011/137/2006-IA.II(I) revoking the EC of the Appellant on the ground that the Appellant had encroached upon 220 acres of forest land and had shifted the location of its plant from Parbatpur to Bhagabandh, violating the conditions stipulated in the EC.

62. The Appellant filed Writ petition being W.P. (C) No.4850 of 2018 in the Jharkhand High Court challenging the revocation of the EC granted to the Appellant.

63. On 27th September 2018 the High Court passed an interim order staying the operation, implementation and execution of the impugned order dated 20th September 2018. The Court prima facie found that the impugned order, passed in violation of principles of natural justice, had serious repercussions on the unit of the Appellant which was a running unit, and had caused prejudice to the Appellant.

64. On 4th October 2018, the Appellant applied for ex post facto Forest Clearance (FC) without prejudice to its rights and contentions. On 27th November 2019 the Appellant applied for a "revised" EC without prejudice to its rights and contentions. In the meanwhile, the Interim order passed by the High Court on 27th September 2018 was extended from time to time. Such extensions were granted on 10.10.2018, 5.11.2018, 11.12.2018, 8.1.2019, 23.1.2019, 16.5.2019, 25.7.2019 and 17.10.2019.

65. On 17th December 2019, MoEF&CC passed an order according ex post facto in principle approval for the forest diversion/clearance proposal of the Appellant. The operative part of the said order reads:-

> *"After careful examination of the proposal of the State Government and on the basis of the recommendations of the Forest Advisory Committee and approval of the same by the competent authority of the MoEF&CC, New Delhi, the Central Government hereby accords ex-post facto 'in-principle' approval under Section -2 of the Forest (Conservation) Act, 1980 for diversion of 184.23 ha of forest land (174.39 ha encroached (ex-post facto) and 9.84 ha virgin land) in favour of M/s Electrosteel Steels Limited in the State of Jharkhand subject to fulfilment of following conditions:-*
>
> *(i) Legal status of the diverted forest land shall remain unchanged;..."*

66. By an order dated 26th February 2020, the Jharkhand High Court directed that the pendency of W.P. (C) No. 4850 of 2018 and W.P. (C) No.1873 of 2018 would not come in the way of consideration by the MoEF&CC of grant or refusal of restoration of EC and it would be open to the Ministry to take appropriate decision in accordance with law. The interim orders in force were extended.

67. Thereafter by a letter dated 2nd March 2020, the Appellant requested MoEF&CC to consider the application of the Appellant for revised EC. In the meanwhile, the interim orders passed by the High Court were further extended. The interim orders were extended by orders passed on 26.2.2020, 7.4.2020 and 29.5.2020.

68. The Writ Petition was called for hearing on 19th June 2020 whereupon it was submitted on behalf of the Respondent No.1 that the revised EC application of the Appellant would be placed before the Expert Appraisal Committee (EAC) for consideration on merit and Violation Committee would decide on the action to be taken against the Appellant for violation of Environment (Protection) Act, 1986.

69. On 6th August 2020 and 7th August 2020, the case of the Appellant was placed before the EAC at its 35th meeting. The Appellant was invited to present its proposal online before the Committee.

70. After detailed deliberation, the EAC appraised the proposal on merits and recommended issuance of Standard Terms of Reference along with Specific Terms of Reference for undertaking Environmental Impact Assessment (EIA) and preparation of Environment Management Plan (EMP). The EAC noted that the plant was a running unit and the EC was subject to the conditions imposed in the Terms of Reference.

71. On 4th September 2020, the Jharkhand High Court extended the interim orders till 8th September 2020 while awaiting response from the Respondents. On 8th September 2020, the High Court reserved orders on the extension of interim orders dated 16th July 2018 and 27th September 2018 while listing the writ petitions for final hearing on 16th September 2020.

72. On 15th September 2020, the Respondent No.1 filed an affidavit stating that it had no objection to extension of the interim orders considering that the steel plant employed a large workforce. At the hearing on 16th September 2020 JSPCB also consented to extension of the interim order. However, the High Court passed the impugned order dated 16th September 2021 dis-continuing the earlier interim orders on, *inter alia,* the following grounds:

(i) The Expert Appraisal Committee of the MoEF&CC had, after detailed deliberations, found that the Appellant had been in violation of the EIA Notification 2006 and general condition no. (ii) of the EC dated 21.02.2008.

(ii) The MoEF&CC had while issuing ToR for grant of EC recommended action against the Appellant under Section 19 of

the 1986 Act for past violations. Extension of the interim orders would amount to staying action.

(iii) In ***Alembic Pharmaceuticals Ltd. v. Rohit Prajapati and Others***[2], this Court had deprecated ex post facto Ecs but passed certain directions in exercise of powers under Article 142 of the Constitution.

73. By an Office Memorandum, being F.No. 22-21/2020-1A III, dated 7th July 2021, the MoEF&CC issued Standard Operating Procedure (SOP) for Identification and Handing of violation cases under EIA Notification 2006.

74. The said Office Memorandum, *inter alia*, reads:

"The Ministry had issued a notification number S.O.804(E), dated the 14th March, 2017 detailing the process for grant of Terms of Reference and Environmental Clearance in respect of projects or activities which have started the work on site and/ or expanded the production beyond the limit of Prior EC or changed the product mix without obtaining Prior EC under the EIA Notification, 2006.

2. This Notification was applicable for six months from the date of publication i.e. 14.03.2017 to 13.09.2017 and further based on court direction from 14.03.2018 to 13.04.2018.

3. Hon'ble NGT in Original Application No. 287 of 2020 in the matter of Dastak N.G.O. Vs Synochem Organics Pvt. Ltd. &Ors. and in applications pertaining to same subject matter in Original Application No. 298 of 2020 in Vineet Nagar Vs. Central Ground Water Authority &Ors., vide order dated 03.06.2021 held that ***"(...) for past violations, the concerned authorities are***

2 2020 SCC OnLine SC 347

free to take appropriate action in accordance with polluter pays principle, following due process".

4. Further, the Hon'ble National Green Tribunal in O.A No. 34/2020 WZ in the matter of Tanaji B. Gambhire vs. Chief Secretary, Government of Maharashtra and ors., vide order dated 24.05.2021 has directed that ***" ... a proper SoP be laid down for grant of EC in such cases so as to address the gaps in binding law and practice being currently followed. The MoEF may also consider circulating such SoP to all SEIAAs in the country".***

5. Therefore, in compliance to the directions of the Hon'ble NGT a Standard Operating Procedure (SoP) for dealing with violation cases is required to be drawn. The Ministry is also seized of different categories of 'violation' cases which have been pending for want of an approved structural/procedural framework based on 'Polluter Pays Principle' and 'Principle of Proportionality'. It is undoubtedly important that action under statutory provisions is taken against the defaulters/violators and a decision on the closure of the project or activity or otherwise is taken expeditiously.

6. In the list of the above directions of the Hon'ble Tribunal and the issues involved, the matter has accordingly been examined in detail in the Ministry. A detailed SoP has accordingly been framed and is outlined herein. The SoP is also guided by the observations/decisions of the Hon'ble Courts wherein principles of proportionality and polluters pay have been outlined."

75. The Standard Operating Procedure formulated by the said Office Memorandum dated 7th July 2021 refers to and gives effect to various judicial pronouncements including the judgment of this Court in ***Alembic Pharmaceuticals*** (supra).

76. In terms of the Standard Operating Procedure, the proposal for grant of EC in cases of violation are to be considered on merits, with prospective effect, applying principles of proportionality and the principle that the polluter pays and is liable for costs of remedial measures.

77. By an interim order passed on 15th July 2021 in WP(MD) 11757 of 2021 in ***Fatima vs. Union of India***, the Madurai Bench of Madras High Court has stayed the operation of the Standard Operating Procedure.

78. By an order dated 25th August 2021, MoEF&CC rejected the application of the Appellant for the time being. The application has, in effect, been kept in abeyance.

79. The MoEF apparently did not take any decision on the application of the Appellant for EC, since the Standard Operating Procedure issued by it has been stayed by the Madurai Bench of Madras High Court, by the said order dated 15th July 2021, citing the judgment of this Court in ***Alembic Pharmaceuticals*** (supra).

80. The Appellant has filed an application being I.A No.125221 of 2021 in this appeal seeking directions on the Respondent No.1 to process the Appellant's application dated 5th August 2020 for revised EC.

81. There can be no doubt that the need to comply with the requirement to obtain Environment Clearance is non-negotiable. A project can be set up or allowed to expand subject to compliance of the requisite norms. Environmental clearance is granted on condition of the suitability of the site to set up the project from the environmental angle, and existence of necessary infrastructural facilities and equipment for compliance of environmental norms. To protect future generations, it is imperative that pollution laws be strictly enforced. Under no circumstances, can industries which pollute be allowed to operate unchecked and degrade the environment.

82. The question is whether an establishment contributing to the economy of the country and providing livelihood to hundreds of people should be closed down for the technical irregularity of shifting its site without prior environmental clearance, without opportunity to the establishment to regularize its operation by obtaining the requisite clearances and permissions, even though the establishment may not otherwise be violating pollution laws, or the pollution, if any, can conveniently and effectively be checked. The answer has to be in the negative.

83. The Central Government is well within the scope of its powers under Section 3 of the 1986 Act to issue directions to control and/or prevent pollution including directions for prior Environmental Clearance before a project is commenced. Such prior Environmental Clearance is necessarily granted upon examining the impact of the project on the

environment. Ex-Post facto Environmental Clearance should not ordinarily be granted, and certainly not for the asking. At the same time ex post facto clearances and/or approvals and/or removal of technical irregularities in terms of Notifications under the 1986 Act cannot be declined with pedantic rigidity, oblivious of the consequences of stopping the operation of a running steel plant.

84. The 1986 Act does not prohibit ex post facto Environmental Clearance. Some relaxations and even grant of ex post facto EC in accordance with law, in strict compliance with Rules, Regulations Notifications and/or applicable orders, in appropriate cases, where the projects are in compliance with, or can be made to comply with environment norms, is in over view not impermissible. The Court cannot be oblivious to the economy or the need to protect the livelihood of hundreds of employees and others employed in the project and others dependent on the project, if such projects comply with environmental norms.

85. As held by a three Judge Bench of this Court in *Lafarge Umiam Mining Private Limited* v. *Union of India*[3] ("Lafarge") reported in (2011) 7 SCC 338:

> *"119.* ***The time has come for us to apply the constitutional "doctrine of proportionality" to the matters concerning environment as a part of the process of judicial review in contradistinction to merit review. It cannot be gainsaid that utilization of the environment and its natural resources has to be in a way that is consistent with principles of sustainable development and intergenerational equity, but balancing of these equities may entail policy choices****. In the circumstances, barring*

3. (2011) 7 SCC 338

exceptions, decisions relating to utilization of natural resources have to be tested on the anvil of the well- recognized principles of judicial review. Have all the relevant factors been taken into account? Have any extraneous factors influenced the decision? Is the decision strictly in accordance with the legislative policy underlying the law (if any) that governs the field? Is the decision consistent with the principles of sustainable development in the sense that has the decision-maker taken into account the said principle and, on the basis of relevant considerations, arrived at a balanced decision? Thus, the Court should review the decision-making process to ensure that the decision of MoEF is fair and fully informed, based on the correct principles, and free from any bias or restraint. Once this is ensured, then the doctrine of "margin of appreciation" in favour of the decision-maker would come into play."

86. In ***Alembic Pharmaceuticals*** (supra) this Court observed:-

"27. The concept of an ex post facto EC is in derogation of the fundamental principles of environmental jurisprudence and is an anathema to the EIA notification dated 27 January 1994. It is, as the judgment in Common Cause holds, detrimental to the environment and could lead to irreparable degradation. The reason why a retrospective EC or an ex post facto clearance is alien to environmental jurisprudence is that before the issuance of an EC, the statutory notification warrants a careful application of mind, besides a study into the likely consequences of a proposed activity on the environment. An EC can be issued only after various stages of the decision-making process have been completed. Requirements such as conducting a public hearing, screening, scoping and appraisal are components of the decision-making process which ensure that the likely impacts of the industrial activity or the expansion of an existing industrial activity are considered in the decision-making calculus. Allowing for an ex post facto clearance would essentially condone the operation of industrial activities without the grant of an EC. In the absence of an EC, there would be no conditions that would safeguard the environment. Moreover, if the EC was to be ultimately refused, irreparable harm would have been caused to the environment. In either view of the matter, environment law cannot countenance the notion of an ex post facto clearance. This would be contrary to both the precautionary principle as well as the need for sustainable development.

87. *In* ***Alembic Pharmaceuticals*** (supra), this Court deprecated ex-post facto clearances, but this Court did not pass orders for closure of the three industries concerned, on consideration of the consequences of their closure. This court proceeded to observe and held:-

> *44. The issue which must now concern the Court is the consequence which will emanate from the failure of the three industries to obtain their ECs until 14 May 2003 in the case of Alembic Pharmaceuticals Limited, 17 July 2003 in the case of United Phosphorous Limited, and 23 December 2002 in the case of Unique Chemicals Limited. The functioning of the factories of all three industries without a valid EC would have had an adverse impact on the environment, ecology and biodiversity in the area where they are located. The Comprehensive Environmental Pollution Index[4] report issued by the Central Pollution Control Board for 2009-2010 describes the environmental quality at 88 locations across the country. Ankleshwar in the State of Gujarat, where the three industries are located showed critical levels of pollution[5]. In the Interim Assessment of CEPI for 2011, the report indicates similar critical figures[6] of pollution in the Ankleshwar area. The CEPI scores for 2013[7] and 2018[8] were also significantly high. This is an indication that industrial units have been operating in an unregulated manner and in defiance of the law. Some of the environmental damage caused by the operation of the industrial units would be irreversible. However, to the extent possible some of the damage can be corrected by undertaking measures to protect and conserve the environment.*
>
> *45. Even though it is not possible to individually determine the exact extent of the damage caused to the environment by the three industries, several circumstances must weigh with the Court in determining the appropriate measure of restitution. First, it is not in dispute that all the three industries did obtain ECs, though this was several years after the EIA notification of 1994 and the commencement of production. Second, subsequent to the grant of the ECs, the manufacturing units of all the three*

4. "CEPI"

5. CEPI score – 88.50

6. C*EPI score - 85.75*

7. *CEPI score - 80.93*

8. *CEPI score - 80.21*

industries have also obtained ECs for an expansion of capacity from time to time. Third, the MoEF had issued a circular on 5 November 1998 permitting applications for ECs to be filed by 31 March 1999, which was extended subsequently to 30 June 2001. On 14 May 2002, the deadline was extended until 31 March 2003 subject to a deposit commensurate to the investment made. The circulars issued by the MoEF extending time for obtaining ECs came to the notice of this Court in Goa Foundation (I) v. Union of India[9]. Fourth, though in the context of the facts of the case, this Court in Lafarge Umiam Mining Private Limited v. Union of India[10] ("Lafarge") has upheld the decision to grant ex post facto clearances with respect to limestone mining projects in the State of Meghalaya. In ***Lafarge****, the Court dealt with the question of whether ex post facto clearances stood vitiated by alleged suppression of the nature of the land by the project proponent and whether there was non-application of mind by the MoEF while granting the clearances. While upholding the ex post facto clearances, the Court held that the native tribals were involved in the decision-making process and that the MoEF had adopted a due diligence approach in reassuring itself through reports regarding the environmental impact of the project. "*

(Emphasis supplied)

46*. After adverting to the decision in* ***Lafarge****, another Bench of three learned judges of this Court in Electrotherm (India) Limited v. Patel Vipulkumar Ramjibhai[11], dealt with the issue of whether an EC granted for expansion to the appellant without holding a public hearing was valid in law. Justice Uday Umesh Lalit speaking for the Bench held thus:*

> *"19...the decision-making process in doing away with or in granting exemption from public consultation/public hearing, was not based on correct principles and as such the decision was invalid and improper."*

47. The Court while deciding the consequence of granting an EC without public hearing did not direct closure of the appellant's unit and instead held thus:

> *"20. At the same time, we cannot lose sight of the fact that in pursuance of environmental clearance dated 27-1-2010, the expansion of the project has been undertaken*

9. (2005) 11 SCC 559

10. (2011) 7 SCC 338

11. (2016) 9 SCC 300

and as reported by CPCB in its affidavit filed on 7-7-2014, most of the recommendations made by CPCB are complied with. In our considered view, the interest of justice would be subserved if that part of the decision exempting public consultation/public hearing is set aside and the matter is relegated back to the authorities concerned to effectuate public consultation/public hearing. ***However, since the expansion has been undertaken and the industry has been functioning, we do not deem it appropriate to order closure of the entire plant as directed by the High Court****. If the public consultation/public hearing results in a negative mandate against the expansion of the project, the authorities would do well to direct and ensure scaling down of the activities to the level that was permitted by environmental clearance dated 20-2-2008. If public consultation/public hearing reflects in favour of the expansion of the project, environmental clearance dated 27-1-2010 would hold good and be fully operative.* ***In other words, at this length of time when the expansion has already been undertaken, in the peculiar facts of this case and in order to meet ends of justice, we deem it appropriate to change the nature of requirement of public consultation/public hearing from pre-decisional to post-decisional. The public consultation/public hearing shall be organised by the authorities concerned in three months from today****."*

(Emphasis supplied)

48. Guided by the precepts that emerge from the above decisions, this Court has taken note of the fact that though the three industries operated without an EC for several years after the EIA notification of 1994, each of them had subsequently received ECs including amended ECs for expansion of existing capacities. These ECs have been operational since 14 May 2003 (in the case of Alembic Pharmaceuticals Limited), 17 July 2003 (in the case of United Phosphorous Limited), and 23 December 2002 (in the case of Unique Chemicals Limited). In addition, all the three units have made infrastructural investments and employed significant numbers of workers in their industrial units.

49. In this backdrop, this Court must take a balanced approach which holds the industries to account for having operated without environmental clearances in the past without ordering a closure of operations. The directions of the NGT for the revocation of the ECs and for closure of the units do not accord with the principle of proportionality. At the same time, the Court cannot be oblivious to the environmental degradation caused by all three industries units that operated without valid ECs. The three industries have evaded the legally binding regime of obtaining ECs. They cannot escape the liability incurred on account of such noncompliance. Penalties must be imposed for the disobedience with a binding legal regime. The breach by the industries cannot be left unattended by legal consequences. The amount should be used for the purpose of restitution and restoration of the environment. Instead and in place of the directions issued by the NGT, we are of the view that it would be in the interests of justice to direct the three industries to deposit compensation quantified at Rs. 10 crores each. The amount shall be deposited with GPCB and it shall be duly utilised for restoration and remedial measures to improve the quality of the environment in the industrial area in which the industries operate. Though we have come to the conclusion, for the reasons indicated, that the direction for the revocation of the ECs and the closure of the industries was not warranted, we have issued the order for payment of compensation as a facet of preserving the environment in accordance with the precautionary principle. These directions are issued under Article 142 of the Constitution. Alembic Pharmaceuticals Limited, United Phosphorous Limited and Unique Chemicals Limited shall deposit the amount of compensation with GPCB within a period of four months from the date of receipt of the certified copy of this judgment. This deposit shall be in addition to the amount directed by the NGT. Subject to the deposit of the aforesaid amount and for the reasons indicated, we allow the appeals and set aside the impugned judgment of the NGT dated 8 January 2016 in so far as it directed the revocation of the ECs and closure of the industries as well as the order in review dated 17 May 2016."

87. The Notification being SO 804(E) dated 14th March, 2017 was not an issue in *Alembic Pharmaceuticals (supra).* This Court was examining the propriety and/or legality of a 2002 circular which was inconsistent with the EIA Notification dated 27th January, 1994, which was statutory. Ex post facto environmental clearance should not however be granted routinely, but in exceptional circumstances taking into account all relevant environmental factors. Where the adverse consequences of ex post facto approval outweigh the consequences of regularization of operation of an industry by grant of ex post facto approval and the industry or establishment concerned otherwise conforms to the requisite pollution norms, ex post facto approval should be given in accordance with law, in strict conformity with the applicable Rules, Regulations and/or Notifications. Ex post facto approval should not be withheld only as a penal measure. The deviant industry may be penalised by an imposition of heavy penalty on the principle of 'polluter pays' and the cost of restoration of environment may be recovered from it.

88. We are of the view that the High Court erred in passing the impugned order, vacating interim orders which had been in force for two years. The impugned order is not in conformity with the principle of proportionality. This is not a case where the steel plant was started without environmental clearance or consent of JSPCB. The Appellant had applied for and obtained environmental clearance to set up an integrated steel plant (3MTPA) on 1350 acres of land at Mauza South Parbatpur, as observed above. Environmental Clearance had been granted on 21st

February 2008 and Consent to Operate had been granted by JSPCB on 5th May 2008.

89. The Appellant established its steel plant in Mauza Bhagaband, 5.3 kms away from the site for which EC and CTE had been granted. It is the contention of the Appellant that the shift is minor and makes no change in the EIA/EMP on the basis of which EC has been granted. The shift did not require fresh public hearing in terms of the Circular dated 22nd January 2010 of the MoEF.

90. As aforesaid, by a letter dated 2.12.2011 addressed to the Appellant, the MoEF confirmed that the steel plant of the Appellant was within the Environment Impact Area and the affected people had the opportunity to air their views in a public hearing. The question is whether the Petitioner was required to obtain fresh prior clearance for shifting or was covered by the exemption under the said Notification dated 22nd January 2010.

91. The Appellant has all along asserted that no part of the premises of the integrated steel plant is in any forest. As such there was no violation of the Indian Forest Act, 1927 or the Forest Conservation Act, 1980. The MoEF had also confirmed that the steel plant in question was well within the Environment Impact Area and the affected people had the opportunity in a public hearing. Be that as it may, whether the shifting of the site has really made any difference from the environmental impact angle requires consideration by the appropriate authority/forum.

92. In any case, the Appellant has duly applied for ex post facto forest clearance approval without prejudice to its rights and contentions that its steel plant is not on forest land and also applied for revised EC. On 17th December 2019, MoEF&CC accorded ex post facto in principle approval to the forest clearance proposal on the recommendations of the Forest Advisory Committee. The application for revised clearance is pending consideration. No final decision has however been taken, ostensibly in view of the interim order passed by the Madras High Court staying the operation of the Standard Operation Procedures issued vide Memorandum dated 7th July 2021.

93. The interim order passed by the Madras High Court appears to be misconceived. However, this Court is not hearing an appeal from that interim order. The interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/Rules prevailing prior to 7th July, 2021.

94. In passing the impugned order the High Court overlooked the consequences of closure of an integrated steel plant with a work force of 300 regular and 700 contractual workers. The High Court also failed to appreciate that the judgment of this Court in ***Alembic Pharmaceuticals*** (supra) was distinguishable on facts. Furthermore, continuance of the interim orders allowing operation of an industrial establishment or even the grant of revised EC to the industrial establishment cannot stand in

the way of action against that establishment for contraventions, including the imposition of penalty, on the principle 'polluter pays'. The scope and effect of Section 32A of the IBC is a different issue. This Court need not examine into the question of whether penal action can be initiated against the Appellant or, whether compensation can be recovered from the Appellant, at this stage. The issue may be decided by the appropriate authority at the appropriate stage when it adjudicates an action for penalization of the Appellant or recovery of compensation from the Appellant. The application of the Appellant for revised EC, CTO etc. shall be considered strictly in accordance with environmental norms.

95. The appeals are allowed. The impugned order is set aside. The Respondent No.1 shall take a decision on the application of the Appellant for revised EC in accordance with law, within three months from date. Pending such decision, the operation of the steel plant shall not be interfered with on the ground of want of EC, FC, CTE or CTO.

.....J.
[Indira Banerjee]

.....J.
[J.K. Maheshwari]

New Delhi;
December 9, 2021