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Arch. Valeria Tedaldi
Arch. Cecilia Venieri
Dott. Cristian Griguoli

COMUNE DI LAGOSANTO - COMACCHIO

REALIZZAZIONE IMPIANTO FOTOVOLTAICO A TERRA SU AREA IDONEA AI SENSI DEL D.lgs. 199/2021 comma 8 lettera c-ter) E c-quater) DI POTENZA DI PICCO PARI A 27,036 MWp E POTENZA NOMINALE PARI A 21,600 MW UBICATO IN PROSSIMITA' DELLA STRADA PROVINCIALE 32 NEL COMUNE DI LAGOSANTO

COMMITTENTE: **LAGOSANTO SOLAR S.R.L.**
p.IVA 02715640393
Legale rappresentante: **Rametta Paolo Giovanni**
C.F. RMTPGV68P25Z404N

PROGETTISTA: Geologo **Maurizio Castellari**
C.F. CSTMRZ60R01E289N

Castellari Maurizio
30.11.2022
16:35:58
GMT+00:00

N. ELABORATO	ELABORATO
F 3.2	**Relazione geologica e di caratterizzazione geotecnica Cabina Volania**

SCALA	RIFERIMENTO PRATICA
	IMPIANTO LAGOSANTO
DATA	**REVISIONE**
30/11/2022	

General contractor

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file cartiglio.dwg

Sommario

1 Premessa

Su incarico della committenza viene redatta la presente relazione allo scopo di fornire i parametri geologici e sismici necessari per il progetto di una cabina a servizio dell'impianto in progetto a Lagosanto.

L'area oggetto di studio si trova nella frazione di Volania in comune di Lagosanto (FE).

Figura 1. – Inquadramento territoriale

2 Normative e riferimenti tecnici

Relativamente alla parte geologica, si fa riferimento alle seguenti normative:

- Ordinanza del Presidente del Consiglio dei ministri 20/03/2003 n.3274 – "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica".
- Consiglio Superiore dei lavori pubblici – Pericolosità sismica e Criteri generali per la classificazione sismica del territorio nazionale. Allegato al voto n. 36 del 27.07.2007;
- D.M. 14.01.2008 *"Nuove norme tecniche per le costruzioni";*
- Circ. Ministero Infrastrutture e Trasporti 2 febbraio 2009, n. 617 "*Istruzioni per l'applicazione delle Nuove norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*;
- DGR n. 1373/2011 del 26.09.2011 della Regione Emilia-Romagna.
- DGR n. 1878/2011 del 19.12.2011 "*Approvazione dell'atto di indirizzo recante la modulistica unificata Regionale relativa ai procedimenti in materia sismica*";
- D.M. 17.01.2018 *"Aggiornamento delle nuove norme tecniche per le costruzioni";*

3 Vincolistica

3.1 Piano Di Gestione Del Rischio Alluvioni

La mappa della pericolosità all'interno del PGRA dell'Autorità di Bacino del fiume Po, carta del reticolo secondario di pianura, indica che l'area oggetto di studio è caratterizzata da una pericolosità media, ovvero P2 – M (Alluvioni poco frequenti: tempo di ritorno tra 100 e 200 anni - media probabilità). La carta del reticolo naturale principale e secondario indica l'area come P1, scarsa probabilità di alluvioni.

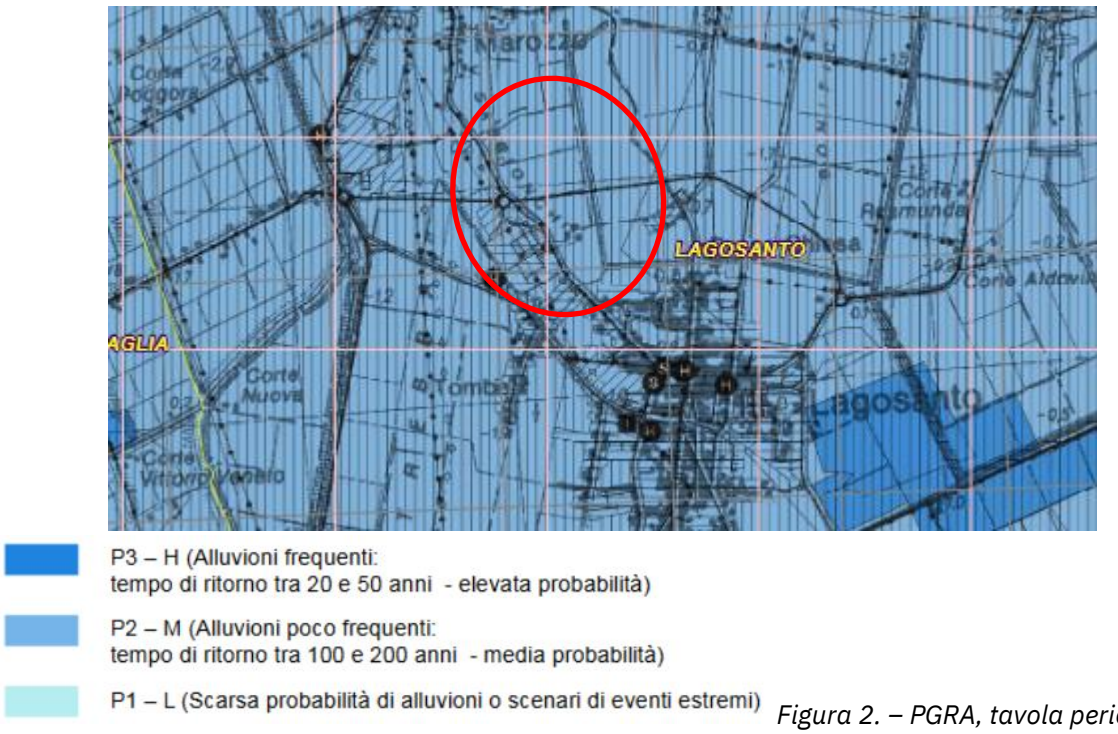

Figura 2. – PGRA, tavola pericolosità

La mappa rischio derivata dalla mappa della pericolosità indica la presenza nell'area di studio di un rischio moderato o nullo (R1 - giallo).

Figura 3. – PGRA, tavola rischio

4 Inquadramento geologico generale

L'area in oggetto si trova all'interno del foglio 205 della Carta Geologica d'Italia.

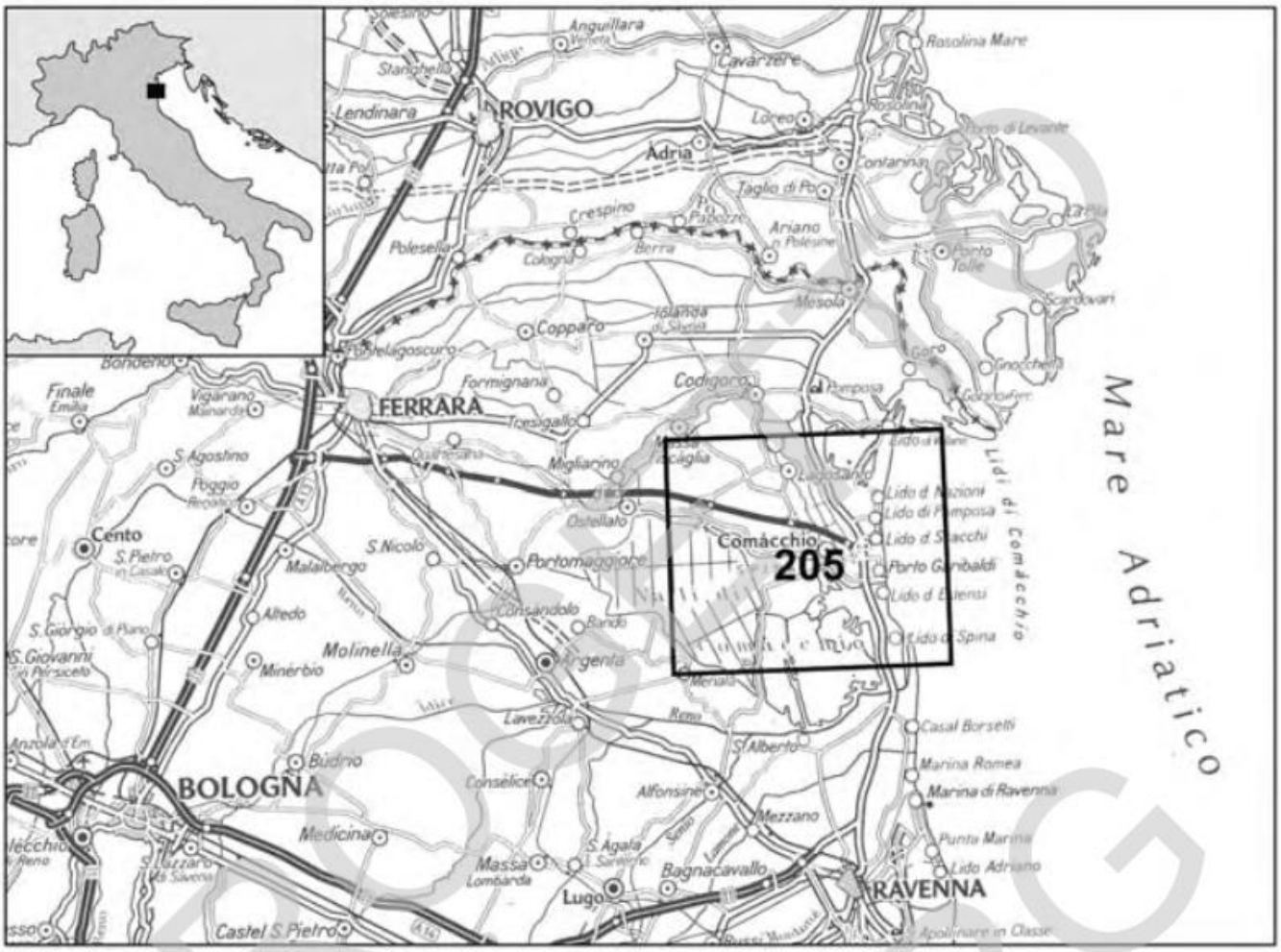

Figura 4. – Ubicazione Foglio 205 Comacchio

Il Foglio 205 comprende una porzione della Pianura Padana sud-orientale che, da un punto di vista strutturale, costituisce una parte del bacino d'avampaese di età plio-quaternaria delimitato a sud dalla catena appenninica e a nord da quella alpina. Le successioni quaternarie che riempiono tale bacino sono coinvolte in una serie di pieghe e thrust ad andamento parallelo con orientazione circa NO-SE nel settore di pianura in esame e raggiungono lo spessore massimo di circa 2000 m.

La porzione di successione sepolta maggiormente investigata, ovvero quella datata Pleistocene medio-Olocene, è caratterizzata dall'organizzazione ciclica di depositi marini e continentali in successioni di vario ordine gerarchico per uno spessore massimo di circa 600 metri.

In superficie, l'area in cui si estende il Foglio è caratterizzata dall'affioramento dei depositi olocenici della piana deltizia del fiume Po; questi depositi rappresentano lo stadio attuale del progressivo colmamento del bacino plio-quaternario.

La morfologia del territorio è pianeggiante con quote prossime all'attuale livello del mare e con deboli variazioni. In particolare, le quote tendono ad aumentare procedendo da ovest verso la linea di costa Lungo la zona costiera, infatti, le quote sono positive (1-2 metri s l m), mentre il settore occidentale, coincidente per gran parte con l'area della bonifica del Mezzano, presenta quasi costantemente quote inferiori al livello del mare (fino a -3,5 m slm).

La rete idrografica è rappresentata, escludendo un piccolo tratto del Po di Volano presente nel settore settentrionale del foglio, da una fitta rete di canali artificiali, il più importante dei quali è il canale navigabile che unisce Migliarino a Portomaggiore.

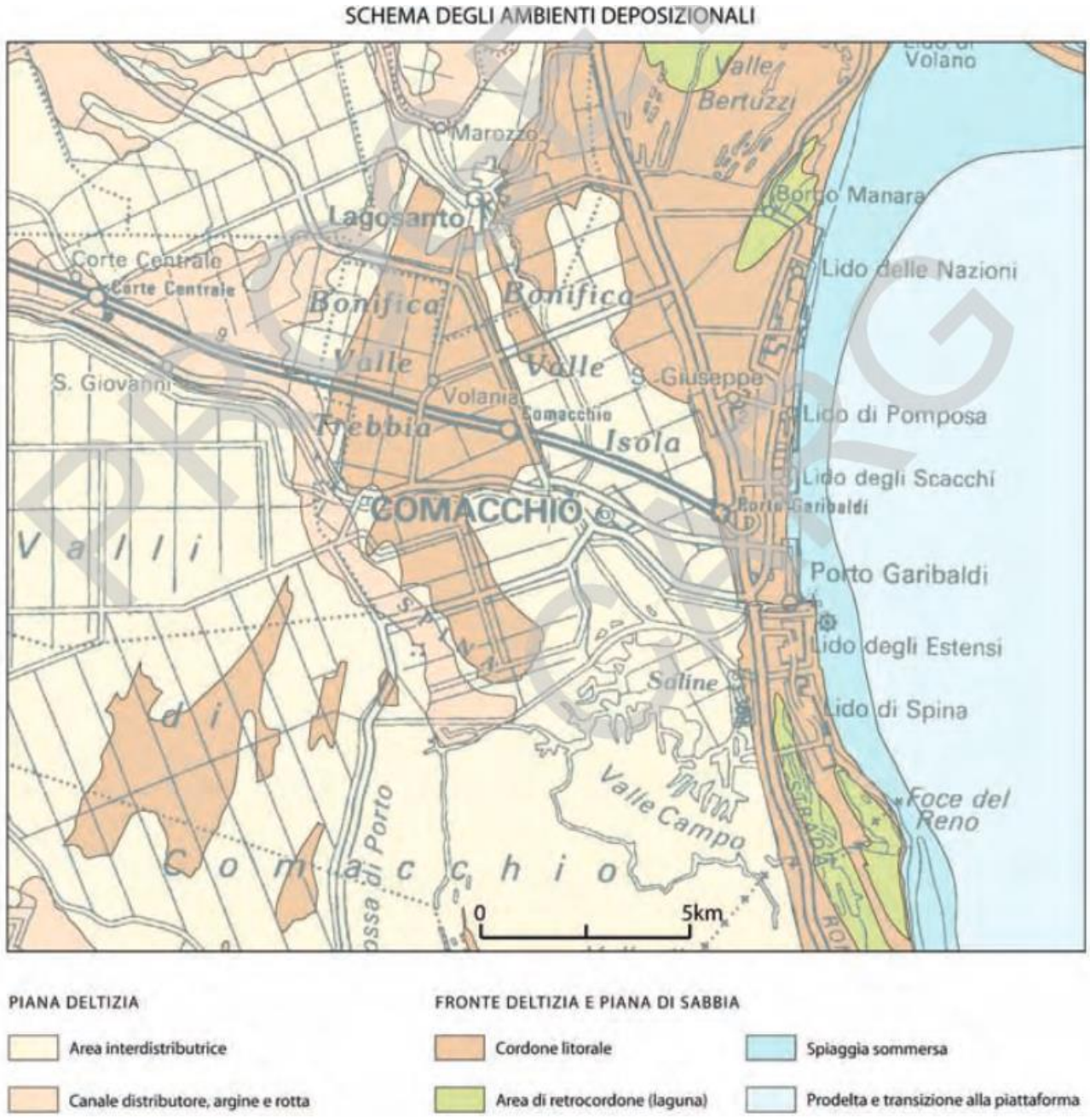

Figura 5. - Distribuzione degli ambienti deposizionali distinti all'interno dei depositi affioranti nel Foglio 205.

L'inquadramento geologico-strutturale del Foglio 205, esteso ai fogli limitrofi per avere un quadro regionale più ampio, mostra che il settore occidentale del sottosuolo è caratterizzato dalla presenza di thrust i cui fronti si sviluppano in direzione NO-SE. Questi sovrascorrimenti rappresentano le propaggini più orientali delle "pieghe ferraresi" e marcano il passaggio tra il settore occidentale dominato da anticlinali, sinclinali e sovrascorrimenti e quello orientale dominato dalla monoclinale di avampaese immergente verso NE e solo blandamente deformata. Questa conformazione determina, in generale, l'individuazione di alti strutturali relativi e di un assottigliamento della successione sedimentaria verso ovest, mentre verso est si configura un settore di basso strutturale relativo e di un inspessimento della successione.

Le unità più antiche del supersintema Emiliano-Romagnolo non affiorano nel Foglio 205.

Il substrato marino mio-plio-pleistocenico è costituito al tetto dalle Argille Azzurre di ambiente di piattaforma marina. Queste passano, con contatto erosivo e discordante, alle Sabbie di Imola (IMO) il cui contenuto faunistico indica un'età compresa tra 800 000 e 650 000 anni.

Subsintema di Ravenna (AES8) ed unità di Modena (AES8a)

Il subsintema di Ravenna costituisce la porzione sommitale del sintema Emiliano-Romagnolo Superiore.

È delimitato alla base da un limite inconforme non affiorante, corrispondente ad una lacuna stratigrafica, evidenziato da datazioni con il metodo del 14 C; superiormente il limite coincide con l'attuale piano topografico La base del subsintema di Ravenna è riferibile, nel Foglio 205, al passaggio tra il Pleistocene superiore e l'Olocene (età di 10480±40 B P e 10450±100 yr B P , sondaggi 205-S14 e 205-S7) ed è dunque più antica rispetto a quanto osservato nel Foglio 223 (8790±90 yr B P in Carta geologica d'Italia in scala 1:50.000 foglio 223 Ravenna, 2002).

Il subsintema di Ravenna presenta spessori mediamente compresi tra 12 e 30 metri, e comprende sabbie, argille e limi di ambiente deltizio, litorale e marino.

4.1 Inquadramento Geologico e Geomorfologico di Dettaglio

Dove è ubicata la zona oggetto di studio affiorano essenzialmente depositi di piana costiera.

I terreni dell'area in oggetto sono costituiti da argille sabbiose e sabbie limose argillose.

Di seguito si riporta uno stralcio della cartografia geologica.

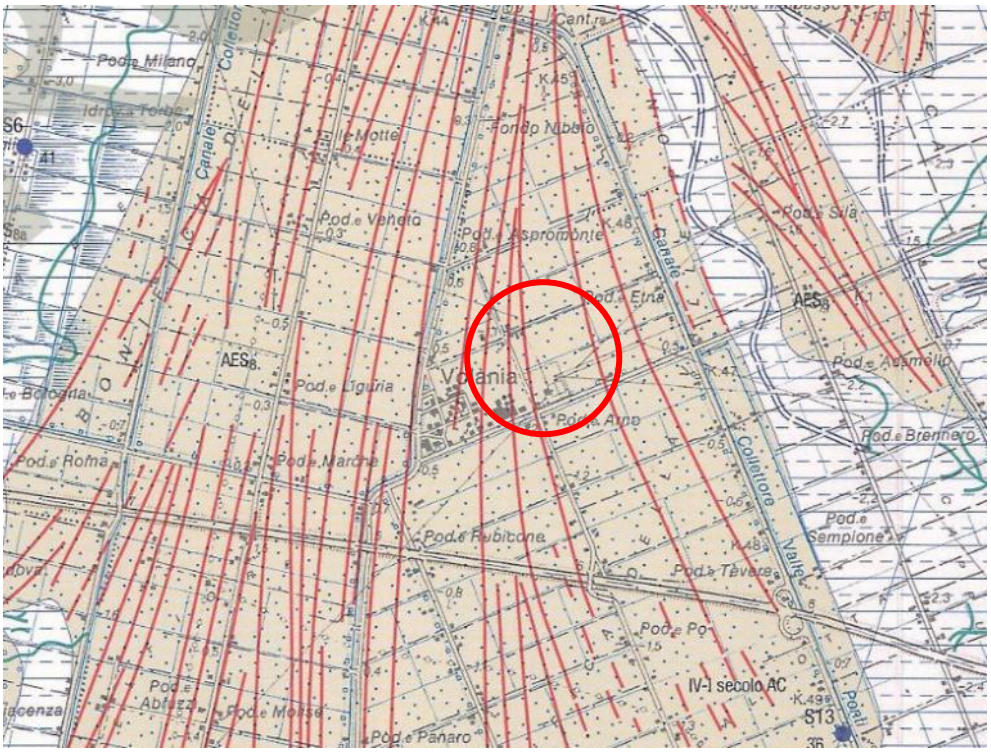

Fig. 6. Carta geologica dell'area

Figura 7.- Estratto della carta geologica tratto dalla parte centrale dell'area cartografata.

5 Indagini geognostiche

In data 10/10/2022 è stata eseguita una campagna d'indagini consistente nell'esecuzione di:

- **n°1 prova penetrometrica statica elettrica con piezocono (CPTU)** spinta a 20,0 m da piano campagna attuale. La prova ha avuto come obiettivo la caratterizzazione geotecnica dei terreni ed è servita come supporto per l'interpretazione geofisica;
- **n°1 acquisizione HVSR** eseguita utilizzando un tromografo digitale Tromino-Micromed che avvalendosi del metodo di Nakamura sul rapporto spettrale H/V fornisce una valutazione diretta della Vs30 in base all'individuazione delle discontinuità sismiche e della profondità della formazione rocciosa.

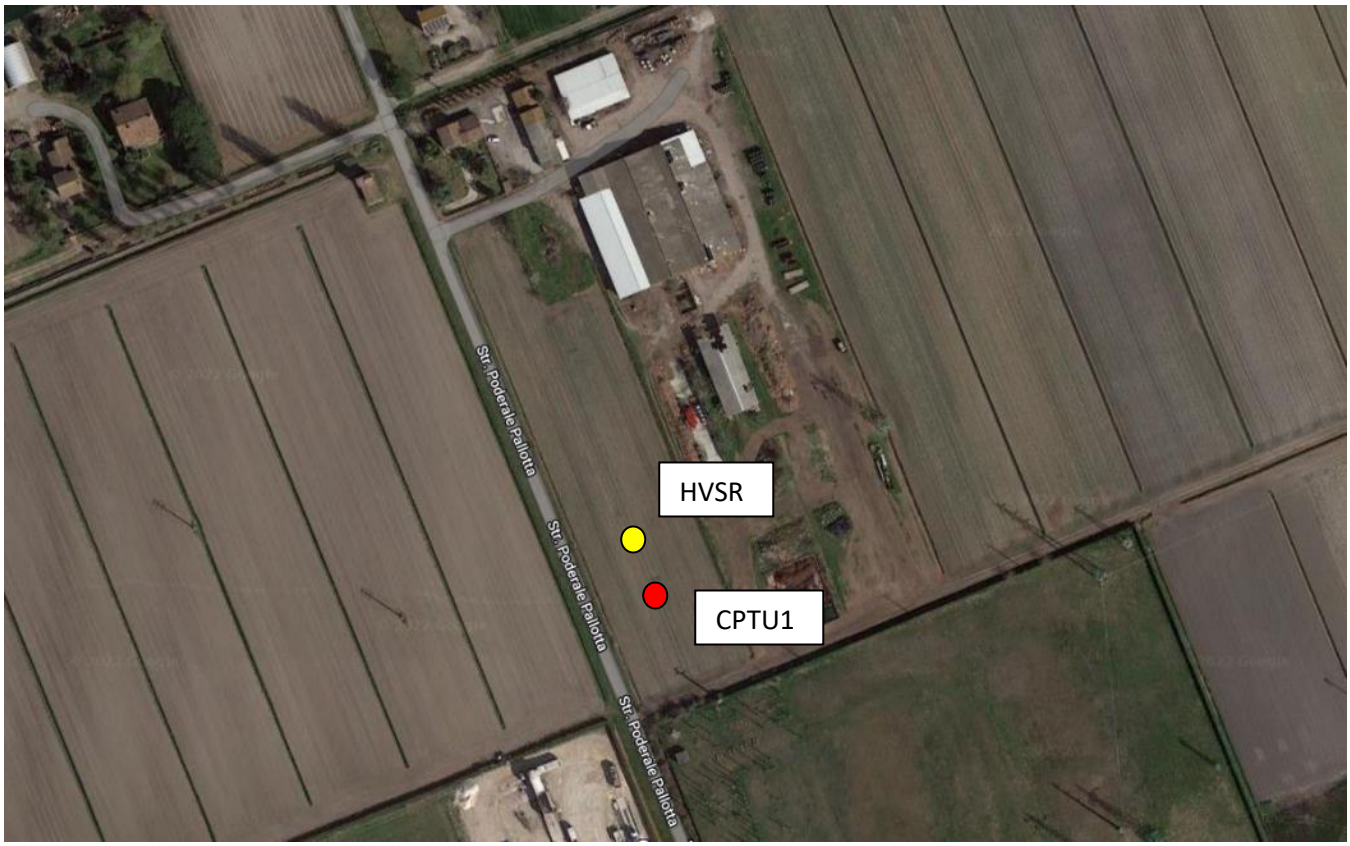

Figura 8.- Ubicazione delle prove effettuate.

5.1 Interpretazione stratigrafica

Le prove hanno identificato la presenza di terreni generalmente sabbioso limosi fino a circa 9,0 m, al di sotto sono presenti limi sabbiosi, sabbie limose e argille limose fino alla profondità di 20,0 m. L'addensamento della frazione granulare è generalmente alto, e la coesione della frazione fine varia da media ad alta.

Di seguito viene descritto il modello geologico riscontrato dalle singole prove:

CPTU1				
Profondità strato [m]	Descrizione	Peso unità di volume [kN/m3]	Angolo di attrito [°]	Coesione non drenata [kN/m2]
0,0 – 6,3	Sabbie limose ad addensamento alto	18,0	32	-
6,3 – 9,25	Limi sabbiosi e sabbie limose	18,0	28	-
9,25 – 11,2	Limi sabbiosi alternati a limi argillosi e argille limose	18,0	27	71
11,2 – 15,0	Sabbie limose ad addensamento alto	18,0	31	-
15,0 – 17,45	Limi sabbiosi alternati a limi argillosi e argille limose	18,0	29	94
17,45 – 18,75	Limi sabbiosi e sabbie limose	18,0	29	-
18,75 – 20,0	Limi argillosi e argille limose	18,0	-	90

5.2 Rilievo acqua nel sottosuolo

Al momento delle prove è stata rilevata la presenza di falda freatica a profondità 1,0 m dal p.c., tale livello misurato può subire oscillazioni verticali al variare delle stagioni e in seguito a precipitazioni prolungate e/o intense.

Si riportano di seguito i grafici sovrapposti delle prove effettuate per un migliore confronto.

1 - Parametri prova penetrometrica CPTU1

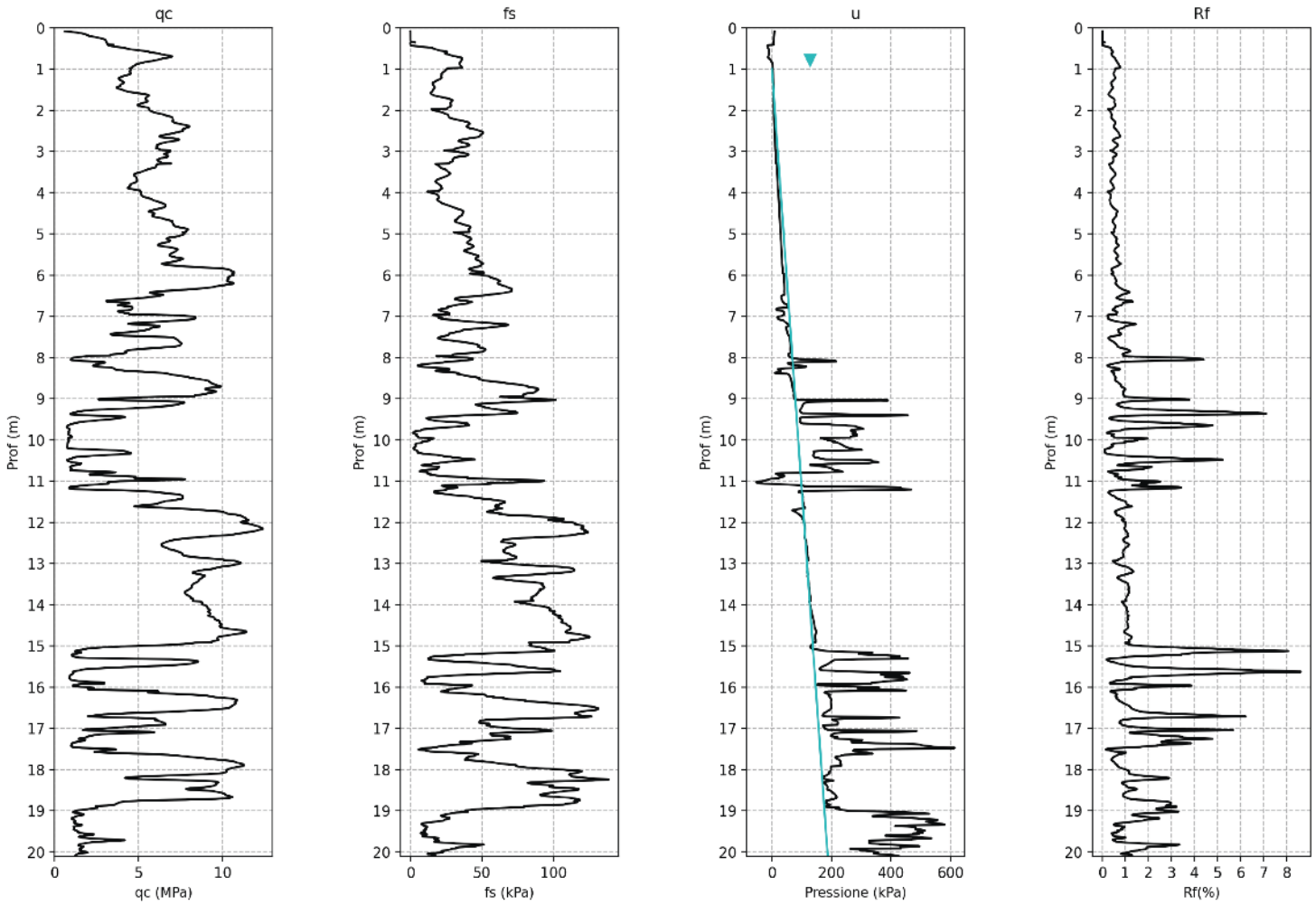

Fig 1 - Plot profondità-variabile della prova penetrometrica elaborata

2 - Stratigrafia CPTU1

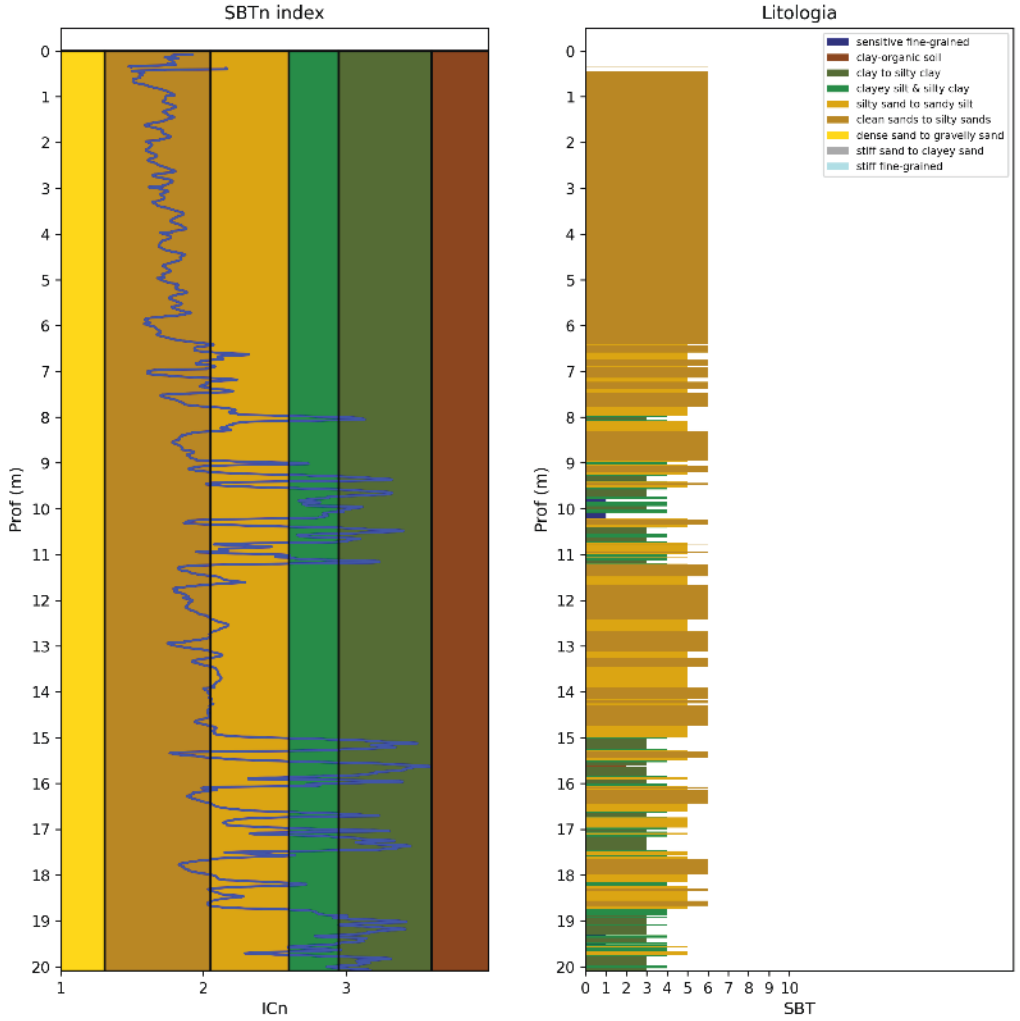

Fig 3 - A sinistra Indice SBT, a destra classificazione stratigrafica da SBT chart

6 Sismicità dell'area

In base alla normativa riguardante la situazione sismica del territorio, con riferimento al D.M. Min. LLPP 16 gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche", il Comune di Lagosanto, ricadeva in una zona classificata in classe III. Nel mese di marzo 2003 è stata redatta una bozza al fine di definire un sistema normativo per la progettazione antisismica e acquisire dei criteri generali per la classificazione sismica del territorio nazionale. In riferimento a tale bozza il Comune di Lagosanto ricade in classe 3, indicativa di zona a media pericolosità sismica.
Con l'entrata in vigore, il 24/10/2005, dell'OPCM n. 3274/2003 e successive modifiche, in materia di classificazione sismica del territorio nazionale e del D.M. 14/09/2005 recante "Norme tecniche per le costruzioni", il Comune di Lagosanto è stato classificato in classe di sismicità 3 (zona a media sismicità).

Estratto dal D.M. 17/01/2018 recante "Aggiornamento delle nuove norme tecniche per le costruzioni":

3.2 AZIONE SISMICA

3.2.2 CATEGORIE DI SOTTOSUOLO E CONDIZIONI TOPOGRAFICHE

Categorie di sottosuolo

Ai fini della definizione dell'azione sismica di progetto, l'effetto della risposta sismica locale si valuta mediante specifiche analisi, da eseguire con le modalità indicate nel § 7.11.3. In alternativa, qualora le condizioni stratigrafiche e le proprietà dei terreni siano chiaramente riconducibili alle categorie definite nella Tab. 3.2.II, si può fare riferimento a un approccio semplificato che si basa sulla classificazione del sottosuolo in funzione dei valori della velocità di propagazione delle onde di taglio, VS. I valori dei parametri meccanici necessari per le analisi di risposta sismica locale o delle velocità VS per l'approccio semplificato costituiscono parte integrante della caratterizzazione geotecnica dei terreni compresi nel volume significativo, di cui al § 6.2.2.

I valori di VS sono ottenuti mediante specifiche prove oppure, con giustificata motivazione e limitatamente all'approccio semplificato, sono valutati tramite relazioni empiriche di comprovata affidabilità con i risultati di altre prove in sito, quali ad esempio le prove penetrometriche dinamiche per i terreni a grana grossa e le prove penetrometriche statiche.

La classificazione del sottosuolo si effettua in base alle condizioni stratigrafiche ed ai valori della velocità equivalente di propagazione delle onde di taglio, VS,eq (in m/s), definita dall'espressione:

$$V_{S,eq} = \frac{H}{\sum_{i=1}^{N} \frac{h_i}{V_{S,i}}}$$

hi spessore dell'i-esimo strato;

- *VS,i velocità delle onde di taglio nell'i-esimo strato;*
- *N numero di strati;*
- *H profondità del substrato, definito come quella formazione costituita da roccia o terreno molto rigido, caratterizzata da VS non inferiore a 800 m/s.*

Per le fondazioni superficiali, la profondità del substrato è riferita al piano di imposta delle stesse, mentre per le fondazioni su pali è riferita alla testa dei pali. Nel caso di opere di sostegno di terreni naturali, la profondità è riferita alla testa dell'opera. Per muri di sostegno di terrapieni, la profondità è riferita al piano di imposta della fondazione.

Per depositi con profondità H del substrato superiore a 30 m, la velocità equivalente delle onde di taglio VS,eq è definita dal parametro VS,30, ottenuto ponendo H=30 m nella precedente espressione e considerando le proprietà degli strati di terreno fino a tale profondità.

Le categorie di sottosuolo che permettono l'utilizzo dell'approccio semplificato sono definite in Tab. 3.2.II.

Tab. 3.2.II – *Categorie di sottosuolo che permettono l'utilizzo dell'approccio semplificato.*

Categoria	Caratteristiche della superficie topografica
A	*Ammassi rocciosi affioranti o terreni molto rigidi* caratterizzati da valori di velocità delle onde di taglio superiori a 800 m/s, eventualmente comprendenti in superficie terreni di caratteristiche meccaniche più scadenti con spessore massimo pari a 3 m.
B	*Rocce tenere e depositi di terreni a grana grossa molto addensati o terreni a grana fina molto consistenti,* caratterizzati da un miglioramento delle proprietà meccaniche con la profondità e da valori di velocità equivalente compresi tra 360 m/s e 800 m/s.
C	*Depositi di terreni a grana grossa mediamente addensati o terreni a grana fina mediamente consistenti* con profondità del substrato superiori a 30 m, caratterizzati da un miglioramento delle proprietà meccaniche con la profondità e da valori di velocità equivalente compresi tra 180 m/s e 360 m/s.
D	*Depositi di terreni a grana grossa scarsamente addensati o di terreni a grana fina scarsamente consistenti,* con profondità del substrato superiori a 30 m, caratterizzati da un miglioramento delle proprietà meccaniche con la profondità e da valori di velocità equivalente compresi tra 100 e 180 m/s.
E	*Terreni con caratteristiche e valori di velocità equivalente riconducibili a quelle definite per le categorie C o D,* con profondità del substrato non superiore a 30 m.

Per queste cinque categorie di sottosuolo, le azioni sismiche sono definibili come descritto al § 3.2.3 delle presenti norme.

Per qualsiasi condizione di sottosuolo non classificabile nelle categorie precedenti, è necessario predisporre specifiche analisi di risposta locale per la definizione delle azioni sismiche.

Condizioni topografiche

Per condizioni topografiche complesse è necessario predisporre specifiche analisi di risposta sismica locale. Per configurazioni superficiali semplici si può adottare la seguente classificazione (Tab. 3.2.III):

Tab. 3.2.III – *Categorie topografiche*

Categoria	Caratteristiche della superficie topografica
T1	Superficie pianeggiante, pendii e rilievi isolati con inclinazione media i ≤ 15°
T2	Pendii con inclinazione media i > 15°
T3	Rilievi con larghezza in cresta molto minore che alla base e inclinazione media 15° ≤ i ≤ 30°
T4	Rilievi con larghezza in cresta molto minore che alla base e inclinazione media i > 30°

Le suesposte categorie topografiche si riferiscono a configurazioni geometriche prevalentemente bidimensionali, creste o dorsali allungate, e devono essere considerate nella definizione dell'azione sismica se di altezza maggiore di 30 m.

Secondo la classificazione del suolo, sulla base della nuova normativa sismica per gli edifici (D.M. 17/01/2018 recante "Aggiornamento delle Norme tecniche per le costruzioni") in base ai dati ottenuti dalle indagini geognostiche in sito si classifica il terreno come appartenente alla categoria *D - Depositi di terreni a grana grossa scarsamente addensati o di terreni a grana fina scarsamente consistenti, con profondità del substrato superiori a 30 m, caratterizzati da un miglioramento delle proprietà meccaniche con la profondità e da valori di velocità equivalente compresi tra 100 m/s e 180 m/s.*

6.1 Caratterizzazione sismica del terreno attraverso prova HVSR

Ai fini della caratterizzazione sismica del sottosuolo, l'indagine geofisica con apparecchio tromografico digitale **TROMINO,** avvalendosi del metodo di Nakamura sul rapporto spettrale H/V fornisce una valutazione diretta della Vs_{30} in base all'individuazione delle discontinuità sismiche e della profondità della formazione rocciosa.

Inoltre, questa tecnica dei rapporti spettrali o HVSR (Horizontal to Vertical Spectral Ratio) con apparecchio tromografico **TROMINO** permette anche di misurare la frequenza caratteristica di risonanza del sito, parametro che è utilizzabile in termini di risposta sismica locale (RSL) per progettare edifici non con la stessa frequenza di risonanza del terreno, in modo da evitare l'effetto di doppia risonanza pericoloso per la stabilità degli edifici.

La Vs_{30} viene calcolata o meglio stimata mediante un codice di calcolo apposito attraverso il software **GRILLA**, è necessario conoscere la profondità di un riflettore stratigrafico (prova penetrometrica o sondaggio) e riconoscibile dalla curva H/V.

La tecnica HVSR si basa in parte sulla sismica tradizionale dei microtremori, cioè di oscillazioni molto piccole rispetto al sisma; il metodo di acquisizione dei dati è quindi detto passivo in quanto il rumore non è generato come ad esempio dalle esplosioni della sismica attiva.

I dati sono stati acquisiti con una frequenza base di 128 Hz e convertiti in file ASCII mediante il software Grilla, e il rumore sismico è stato registrato nelle sue tre componenti per un intervallo di

tempo di 20 o 30 minuti, suddiviso in intervalli della durata di 8 sec.

Successivamente si è operato alla costruzione di un modello teorico HVSR e, tramite un algoritmo, all'adattamento della curva sperimentale e quella teorica. Le acquisizioni rispettano le indicazioni del processo SESAME.

Nel presente studio, che sfrutta la teoria di Nakamura che relaziona lo spettro di risposta del substrato roccioso (rapporto spettrale H/V = 1) con quello misurato in superficie, la frequenza di risonanza del terreno è regolata dalla formula:

$$f = Vs / 4H$$

dove f è la frequenza e H lo spessore dello strato sismico.

Strumento: TROMINO MODELLO ENGY
Data registrazione: 10/10/2022
Nomi canali: NORTH SOUTH; EAST WEST ; UP DOWN
Dato GPS non disponibile
Durata registrazione: 0h20'00".
Freq. campionamento: 512Hz
Lunghezza finestre: 20 s
Tipo di lisciamento: Triangular window
Lisciamento: 10%

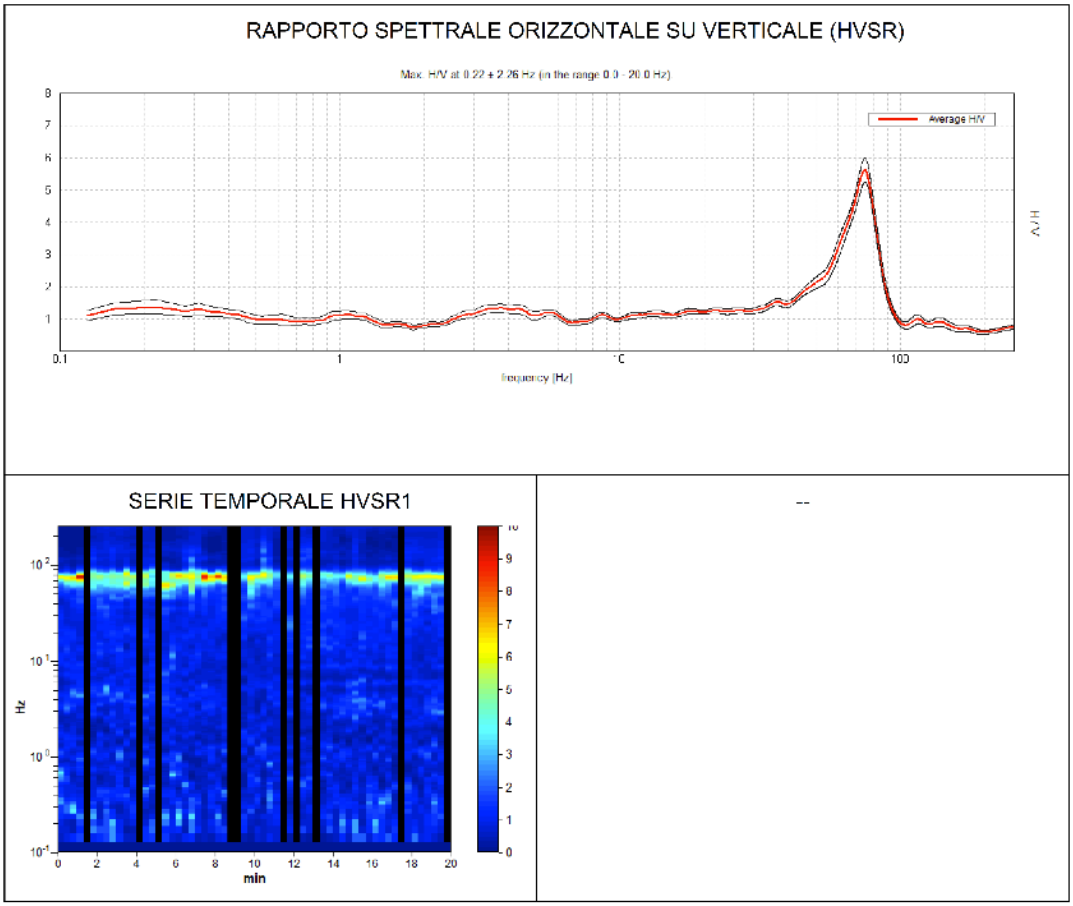

Figura 1 - Curva H/V (HVSR) registrata nel sito in esame e serie temporale considerata nell'analisi.

SPETTRI DELLE SINGOLE COMPONENTI

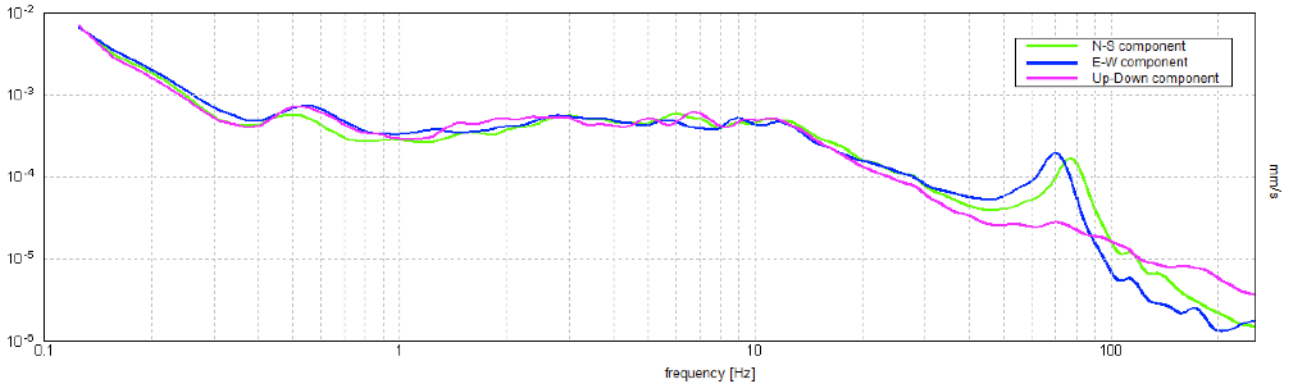

Figura 2 - Spettri delle 3 componenti del moto in velocità registrate nel sito

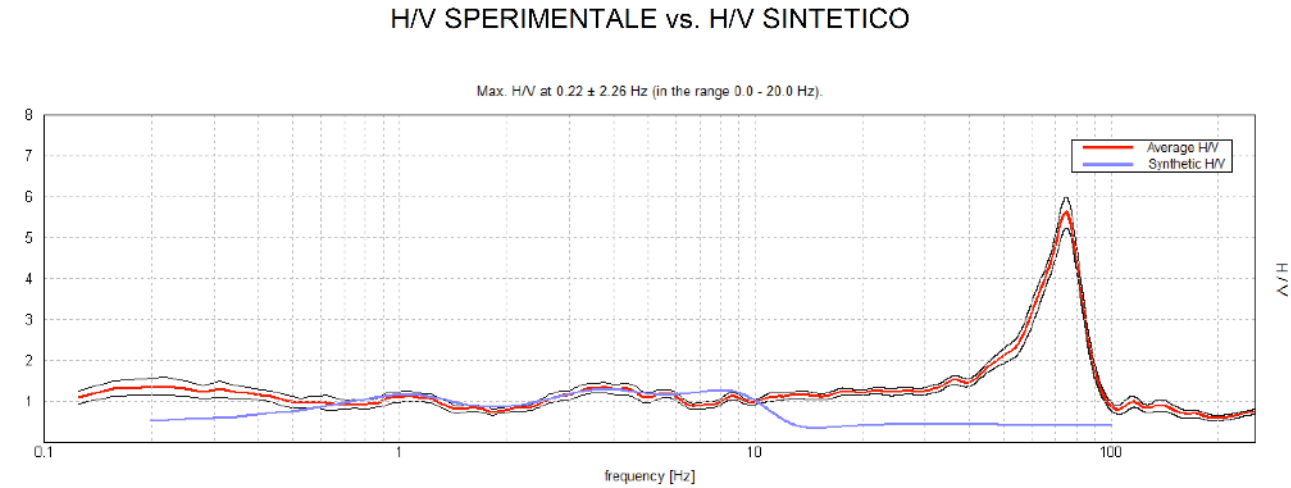

Figura 3 - Confronto tra curva HVSR1 sperimentale registrata nel sito e curva teorica (blu) relativa al modello di sottosuolo proposto per il sito.

Sulla base dei risultati ottenuti e dell'interpretazione dei dati acquisiti il modello di sottosuolo proposto per il sito in studio, in termini di profilo verticale di Vs, è il seguente:

Profondità base strato (m)	Spessore (m)	Vs (m/s)
2.70	2.70	90
11.00	8.30	160
21.00	10.00	210
31.00	10.00	230
51.00	20.00	220
inf.	inf.	300

Tabella 1 – Modello di sottosuolo proposto per il sito

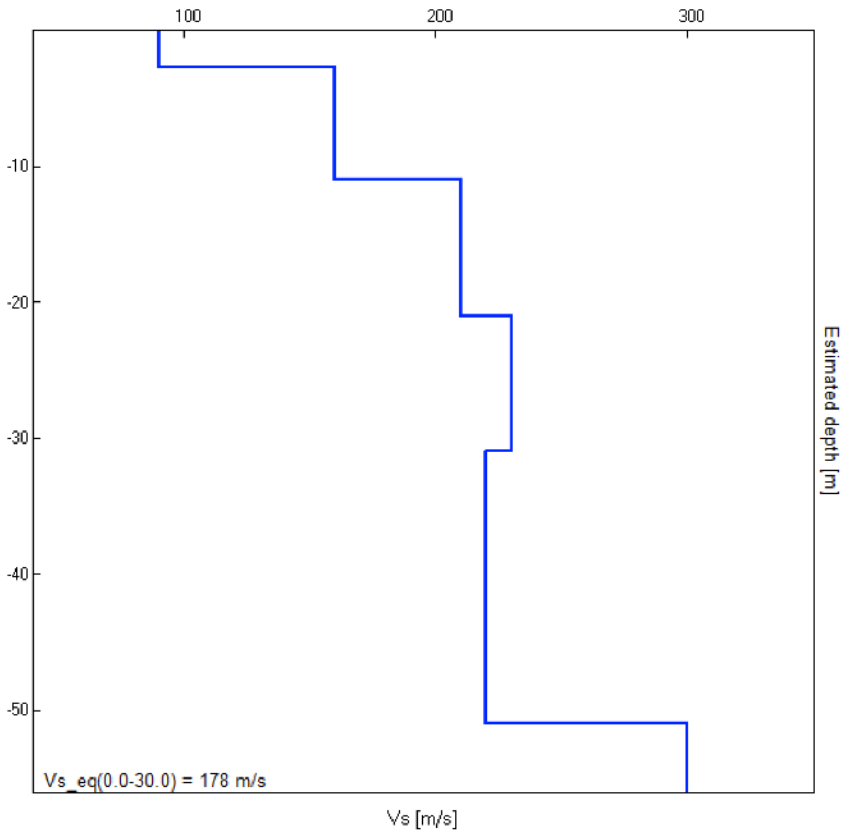

Figura 4 - Modello di velocità delle onde di taglio S

Vs,eq=Vs30 [m/s] da quota piano campagna su cui è stata eseguita l'indagine geofisica: 178

La curva HVSR, registrata in sito e analizzata nel *range* compreso 0.1 – 20 Hz, è caratterizzata da deboli o nulle irregolarità, indicative della presenza nel sottosuolo di deboli amplificazioni del moto del suolo per risonanza stratigrafica da basso a bassissimo contrasto d'impedenza.

ELEMENTI di MICROZONAZIONE SISMICA

L'area di intervento è morfologicamente classificabile come Pianura 2.

Si considerano i coefficienti di amplificazione sismica relativi alla fascia di velocità relativa a 150 m/s.

Tabella per il calcolo dei coefficienti di amplificazione sismica

(DGR n.630 del 29/04/2019 aggiornamento DGR n.476 del 12/04/2021)

F.A. P.G.A.: accelerazione di picco orizzontale a periodo T=0 alla superficie del sito.

F.A. S.I.: Intensità spettrale di risposta in velocità relativo a tre intervalli.

F.A. S.A.: Intensità spettrale di risposta in accelerazione relativo a quattro intervalli.

PIANURA 2: settore di pianura con sedimenti alluvionali prevalentemente fini, alternanze di limi, argille e sabbie, caratterizzato dalla presenza di una importante discontinuità stratigrafica

responsabile di un significativo contrasto di impedenza a circa 100 m da p.c. e dal tetto del substrato rigido a circa 150 m da p.c.;

Vs_{30} (m/s) →	150	200	250	300	350	400
PGA	1,7	1,7	1,7	1,6	1,5	1,5

Fattore di Amplificazione **PGA**

Vs_{30} (m/s) →	150	200	250	300	350	400
SA1	1,8	1,8	1,8	1,7	1,6	1,5
SA2	2,7	2,7	2,4	2,1	1,9	1,8
SA3	3,3	3,2	2,8	2,5	2,3	2,1
SA4	3,3	3,1	2,7	2,4	2,1	1,9

Fattori di Amplificazione **SA1** (0,1s≤T≤0,5s), **SA2** (0,4s≤T≤0,8s), **SA3** (0,7s≤T≤1,1s), **SA4** (0,5s≤T≤1,5s)

Vs_{30} (m/s) →	150	200	250	300	350	400
SI1	2,0	2,0	1,9	1,8	1,7	1,6
SI2	3,1	3,0	2,7	2,4	2,1	2,0
SI3	3,6	3,3	2,9	2,5	2,2	2,0

Fattori di Amplificazione **SI1** (0,1s≤T≤0,5s), **SI2** (0,5s≤T≤1,0s), **SI3** (0,5s≤T≤1,5s)

6.2 Verifica a liquefazione

La liquefazione delle sabbie è un processo che può avvenire durante un evento sismico: essa nasce dall'incremento della pressione dell'acqua interstiziale (u) durante sollecitazioni di tipo ciclico. Se tale aumento è tale da eguagliare la pressione litostatica totale, si ha l'annullamento della resistenza al taglio.

Le classi di potenziale di liquefazione, secondo la proposta di Sonmez (2003), sono le seguenti:

LPI	Potenziale di liquefazione
0	Non liquefacibile
0<LPI≤2	Basso
2<LPI≤5	Moderato
5<LPI≤15	Altro
LPI>15	Molto alto

I valori inseriti per i calcoli sono:

Amax/g: 0,157

Magnitudo: 6,9

Profondità della falda: 1,0 m

L’indice potenziale di liquefazione riscontrato dalla prova CPTU è 4,769, ovvero moderato.

Tabella 1 - Parametri inseriti e IPL verticale prova penetrometrica

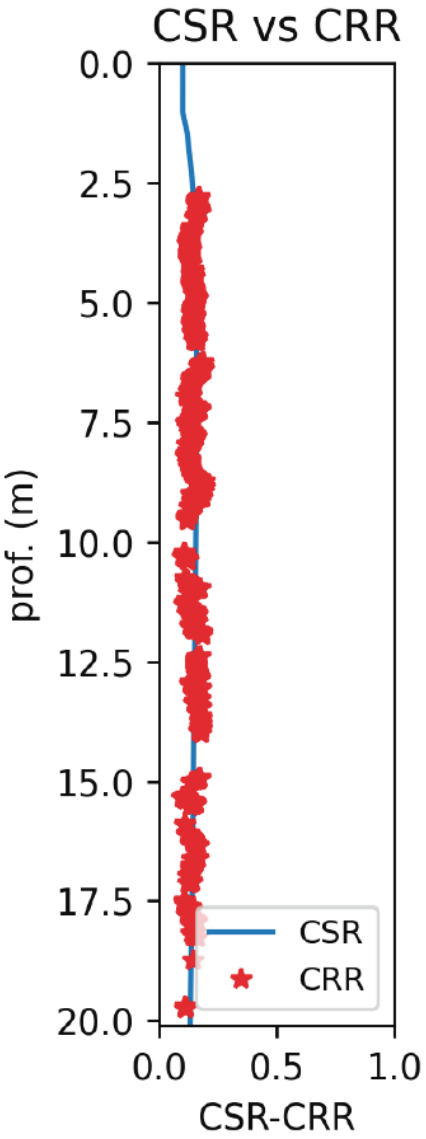

Grafico 1 - CSR vs CRR, i valori di CRR indicati con asterisco rosso che ricadono a sinistra della curva CRR indicano valori con FS <1 e quindi potenzialmente liquefacibili-

In allegato sono riportati i grafici dei calcoli.

7 Conclusioni

Sulla base dei risultati ottenuti si può stabilire quanto segue:

- Le prove hanno identificato la presenza di terreni argillosi fino alla profondità di 10/15 m, seguiti da argille limose e limi argillosi, che, nelle prove effettuate nella zona ovest sono continue fino a 20 m, mentre nelle prove effettuate nella zona est sono intervallati da pacchi sabbiosi di spessore compreso tra 1 e 3 m.
- Al momento delle prove è stata rilevata la presenza di falda freatica fra le profondità di 0,6 e 2,0 m dal p.c., tale livello misurato può subire oscillazioni verticali al variare delle stagioni e in seguito a precipitazioni prolungate e/o intense.
- Secondo la classificazione del suolo, sulla base della nuova normativa sismica per gli edifici (D.M. 17/01/2018 recante "Aggiornamento delle Norme tecniche per le costruzioni") in base ai dati ottenuti dalle indagini in sito si classifica il terreno di fondazione del fabbricato come appartenente alla ***D- Depositi di terreni a grana grossa scarsamente addensati o terreni a grana fina scarsamente consistenti con profondità del substrato superiori a 30 m, caratterizzati da un graduale miglioramento delle proprietà meccaniche con la profondità e da valori di velocità equivalente compresi tra 100 m/s e 180 m/s.***
- La verifica a liquefazione ha identificato un rischio di liquefazione moderato.

Imola 20 ottobre ’22

Il geologo

Dott. Maurizio Castellari

Allegato 1

CTR 1:5.000


Podere San Venanzio
Corte F. Gori
(Podere Etna)
N° 18
distributore
Sottofattorale Bocchetto
Stazione di pompaggio N° 16
P O N T
dere Lazio
Irrigatore
COMUNALE
ARGINE
Canale
Volania
Cantina Sociale
Traversone
REGIONI
DELLE
Corte G. Pagnoni
(o Arno)
Corte N. Magnani
(o Volturno)
Canale
STRADA
VIA

Allegato 2

Grafici prove penetrometriche e verifica a liquefazione

Castellari Ambiente s.r.l. s.t.p. - Via Emilia 67, 40026 Imola (BO)
C.F. - P.IVA 03987351206 - Tel 334 2075125 mail: info@castellariambiente.it

CPT Office V. 1.1

Elaborato grafico prova penetrometrica

13/10/2022
12:03:58

Committente	Dott. Geol. Maurizio Castellari
Località	Volania (FE)
Via	Strada Poderale Pallotta
Prova	CPTU1
Tipo prova	CPTU

Tipo di Prova	Prof. max (m)	Preforo (m)	Falda (m da p.c.)
CPTU	20.1	0.08	1.0

Tabella 1 - Informazioni generali

1 - Parametri prova penetrometrica CPTU1

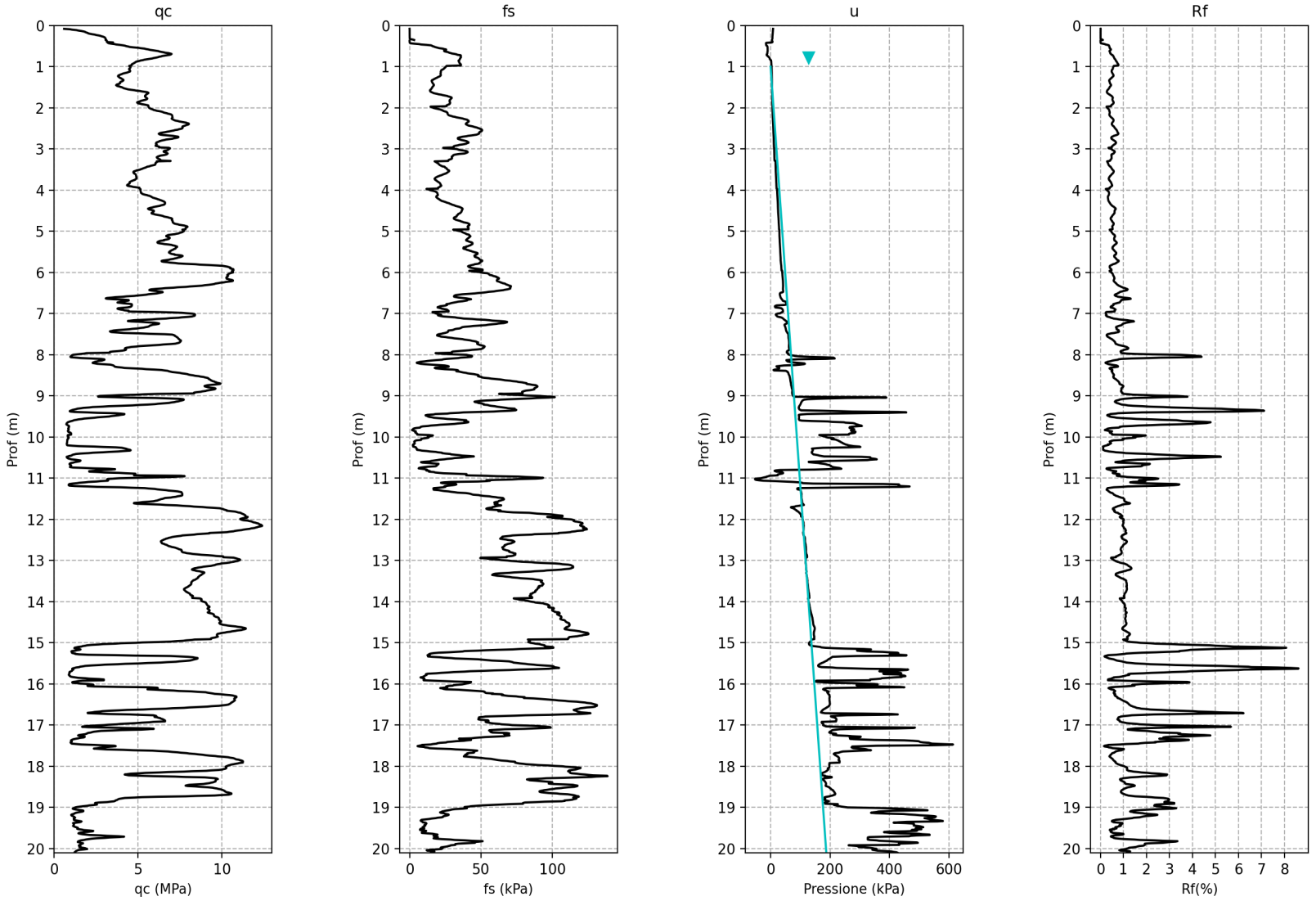

Fig 1 - Plot profondità-variabile della prova penetrometrica elaborata

1 - Parametri prova penetrometrica CPTU1

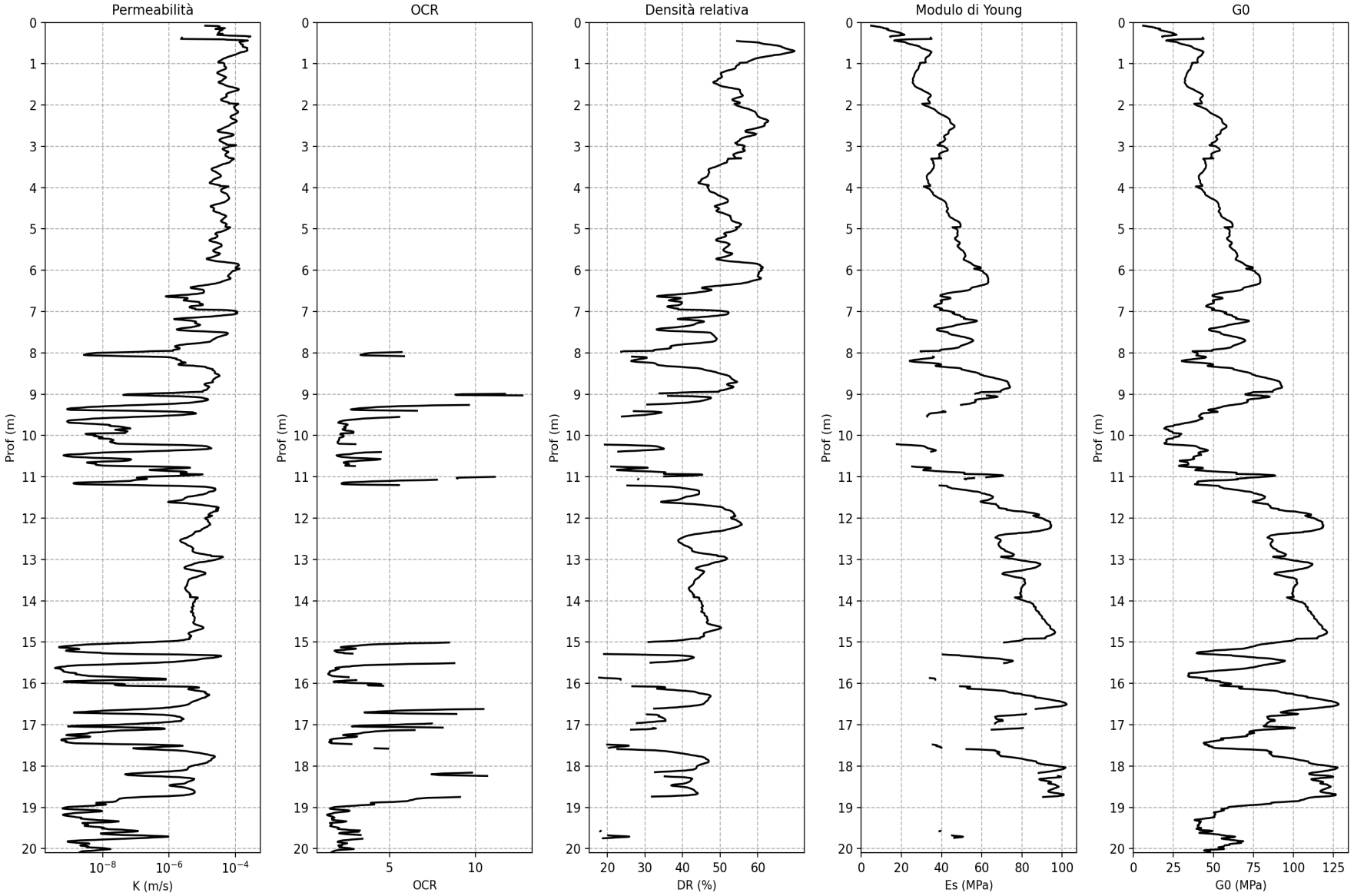

Fig 2 - Plot profondità-variabile della prova penetrometrica elaborata

1 - Parametri prova penetrometrica CPTU1

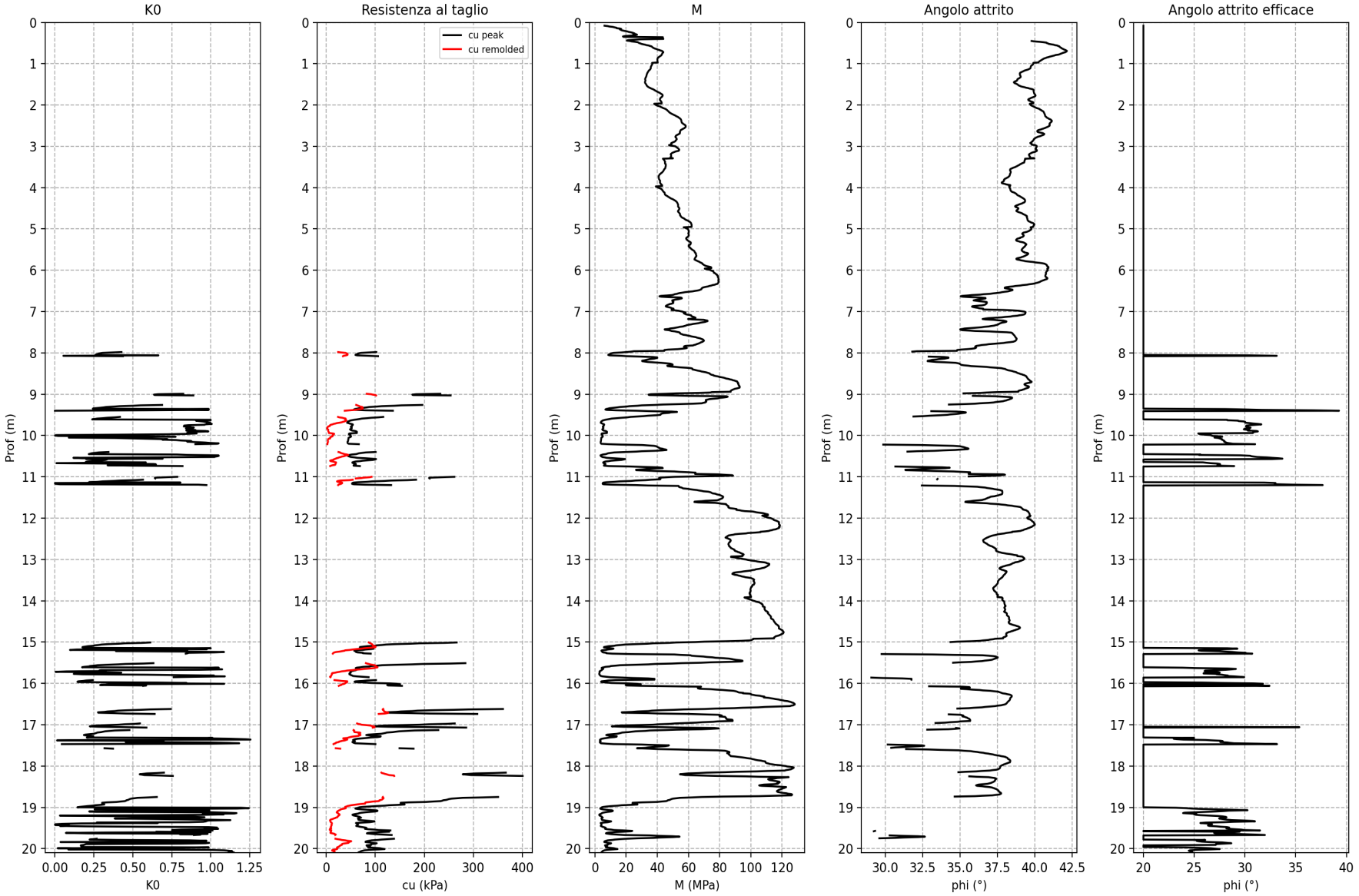

Fig 3 - Plot profondità-variabile della prova penetrometrica elaborata

2 - SBT & SBT(n) CPTU1

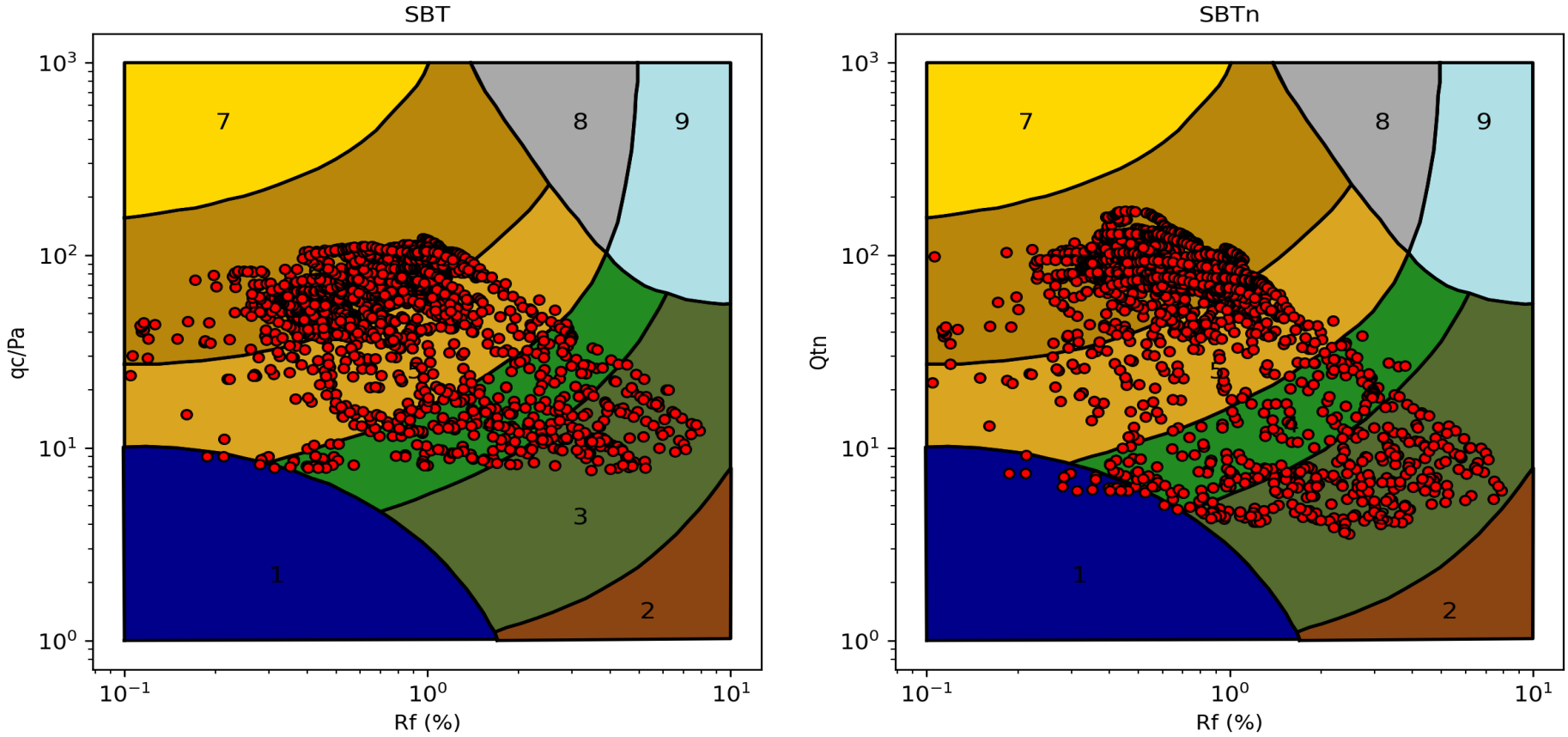

Fig 4 - A sinistra plot valori qc/Pa-Rf su SBT chart, a destra plot valori Qtn-Fr su SBT(n) chart

2 - Stratigrafia CPTU1

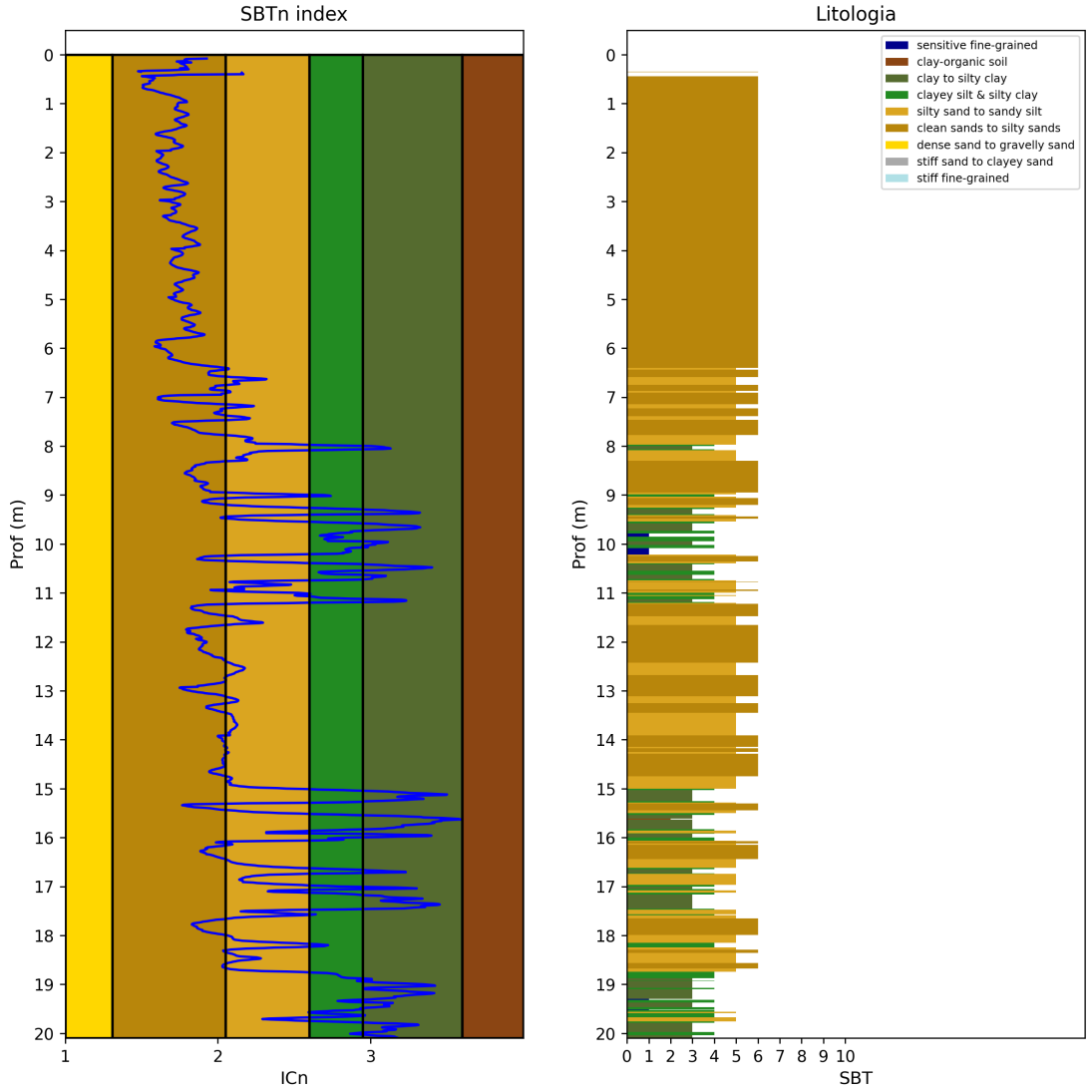

Fig 3 - A sinistra Indice SBT, a destra classificazione stratigrafica da SBT chart

CPT Office V. 1.1

Report calcolo prova penetrometrica

13/10/2022
12:03:53

Committente	Dott. Geol. Maurizio Castellari
Località	Volania (FE)
Via	Strada Poderale Pallotta
Prova	CPTU1
Tipo prova	CPTU

Tabella 1 - Dati input

Tipo di Prova	Profondità max (m)	Falda (m da p.c.)
CPTU	20.1	1.0

Prof.(m)	qc (MPa)	fs (kPa)	u2 (kPa)	u0 (kPa)	Qt (MPa)	γ (KN/m3)	σv (kPa)	σvp(kPa)	cu (kPa)	ϕ(°)	ϕ picco(°)	Dr (%)
0.08	0.59	0.03	8.4	0.0	0.59	17.5	1.4	1.4	0.0	0.0	20.0	0.0
0.09	0.94	0.07	8.21	0.0	0.94	17.5	1.58	1.58	0.0	0.0	20.0	0.0
0.1	1.07	0.07	8.21	0.0	1.07	18.0	1.76	1.76	0.0	0.0	20.0	0.0
0.11	1.32	0.07	8.02	0.0	1.32	18.0	1.94	1.94	0.0	0.0	20.0	0.0
0.12	1.43	0.07	7.92	0.0	1.43	18.0	2.11	2.11	0.0	0.0	20.0	0.0
0.13	1.59	0.07	7.83	0.0	1.59	18.5	2.3	2.3	0.0	0.0	20.0	0.0
0.14	1.72	0.1	7.64	0.0	1.72	18.5	2.48	2.48	0.0	0.0	20.0	0.0
0.15	1.82	0.07	7.54	0.0	1.82	18.5	2.67	2.67	0.0	0.0	20.0	0.0
0.16	1.86	0.07	7.44	0.0	1.86	18.5	2.85	2.85	0.0	0.0	20.0	0.0
0.17	1.93	0.1	7.25	0.0	1.93	18.5	3.04	3.04	0.0	0.0	20.0	0.0
0.18	2.0	0.1	7.16	0.0	2.0	18.5	3.22	3.22	0.0	0.0	20.0	0.0
0.19	2.03	0.1	7.16	0.0	2.03	18.5	3.41	3.41	0.0	0.0	20.0	0.0
0.2	2.13	0.1	7.06	0.0	2.13	18.5	3.59	3.59	0.0	0.0	20.0	0.0
0.21	2.26	0.1	6.97	0.0	2.26	18.5	3.78	3.78	0.0	0.0	20.0	0.0
0.22	2.42	0.1	6.78	0.0	2.42	18.5	3.96	3.96	0.0	0.0	20.0	0.0
0.23	2.5	0.1	6.68	0.0	2.5	18.5	4.15	4.15	0.0	0.0	20.0	0.0
0.24	2.65	0.1	6.49	0.0	2.65	18.5	4.33	4.33	0.0	0.0	20.0	0.0
0.25	2.76	0.1	6.3	0.0	2.76	18.5	4.52	4.52	0.0	0.0	20.0	0.0
0.26	2.82	0.1	6.3	0.0	2.82	18.5	4.7	4.7	0.0	0.0	20.0	0.0
0.27	2.92	0.1	6.2	0.0	2.92	18.5	4.89	4.89	0.0	0.0	20.0	0.0
0.28	2.97	0.13	6.2	0.0	2.97	18.5	5.08	5.08	0.0	0.0	20.0	0.0
0.29	3.02	0.1	6.2	0.0	3.02	19.0	5.26	5.26	0.0	0.0	20.0	0.0
0.3	3.04	0.1	6.11	0.0	3.04	19.0	5.46	5.46	0.0	0.0	20.0	0.0
0.31	3.05	0.13	6.11	0.0	3.05	19.0	5.65	5.65	0.0	0.0	20.0	0.0
0.32	3.06	0.2	5.92	0.0	3.06	19.0	5.84	5.84	0.0	0.0	20.0	0.0
0.33	3.08	0.56	5.44	0.0	3.08	19.0	6.03	6.03	0.0	0.0	20.0	0.0
0.34	3.07	2.3	4.96	0.0	3.07	18.5	6.21	6.21	0.0	0.0	20.0	0.0
0.35	3.06	3.25	4.77	0.0	3.06	18.5	6.4	6.4	0.0	39.55	20.0	53.15
0.36	3.12	0.0	4.77	0.0	3.12	17.0	6.57	6.57	0.0	0.0	20.0	0.0
0.37	3.14	0.03	4.87	0.0	3.14	19.0	6.76	6.76	0.0	0.0	20.0	0.0
0.38	3.14	0.03	6.2	0.0	3.14	19.0	6.95	6.95	0.0	0.0	20.0	0.0
0.39	3.14	0.03	6.39	0.0	3.14	19.0	7.14	7.14	0.0	0.0	20.0	0.0
0.4	3.14	0.03	6.49	0.0	3.14	19.0	7.33	7.33	0.0	0.0	20.0	0.0
0.41	3.51	0.16	4.68	0.0	3.51	19.0	7.52	7.52	0.0	0.0	20.0	0.0
0.42	3.2	0.2	-14.6	0.0	3.2	19.0	7.71	7.71	0.0	0.0	20.0	0.0
0.43	3.26	0.56	-15.75	0.0	3.26	19.0	7.9	7.9	0.0	0.0	20.0	0.0
0.44	3.4	3.32	-15.46	0.0	3.4	19.0	8.09	8.09	0.0	0.0	20.0	0.0
0.45	3.59	6.57	-15.27	0.0	3.59	19.0	8.28	8.28	0.0	39.78	20.0	54.48
0.46	3.7	8.21	-15.18	0.0	3.7	19.0	8.47	8.47	0.0	39.96	20.0	55.48
0.47	3.92	12.02	-15.08	0.0	3.92	19.0	8.66	8.66	0.0	40.32	20.0	57.67
0.48	4.1	14.95	-14.7	0.0	4.1	19.0	8.85	8.85	0.0	40.57	20.0	59.18
0.49	4.23	15.73	-12.5	0.0	4.23	19.0	9.04	9.04	0.0	40.78	20.0	60.48
0.5	4.29	16.03	-11.64	0.0	4.29	19.0	9.22	9.22	0.0	40.8	20.0	60.59
0.51	4.42	17.08	-10.5	0.0	4.42	19.0	9.41	9.41	0.0	40.89	20.0	61.18
0.52	4.5	17.7	-10.31	0.0	4.5	19.0	9.6	9.6	0.0	40.93	20.0	61.44
0.53	4.73	18.69	-10.12	0.0	4.73	19.0	9.79	9.79	0.0	41.08	20.0	62.4
0.54	5.02	19.81	-10.12	0.0	5.02	19.0	9.98	9.98	0.0	41.26	20.0	63.58
0.55	5.15	20.89	-10.02	0.0	5.15	19.0	10.17	10.17	0.0	41.34	20.0	64.11

0.56	5.38	23.16	-10.02	0.0	5.38	19.0	10.36	10.36	0.0	41.5	20.0	65.24
0.57	5.47	24.18	-10.02	0.0	5.47	19.0	10.55	10.55	0.0	41.55	20.0	65.57
0.58	5.62	25.59	-10.02	0.0	5.62	19.0	10.74	10.74	0.0	41.64	20.0	66.19
0.59	5.7	25.65	-10.02	0.0	5.7	19.0	10.93	10.93	0.0	41.66	20.0	66.28
0.6	5.86	25.03	-9.93	0.0	5.86	19.0	11.12	11.12	0.0	41.69	20.0	66.53
0.61	6.04	24.18	-9.83	0.0	6.04	19.0	11.31	11.31	0.0	41.73	20.0	66.79
0.62	6.21	24.24	-9.83	0.0	6.21	19.0	11.5	11.5	0.0	41.79	20.0	67.19
0.63	6.27	24.8	-10.12	0.0	6.27	19.0	11.69	11.69	0.0	41.8	20.0	67.31
0.64	6.39	26.24	-10.88	0.0	6.39	19.0	11.88	11.88	0.0	41.87	20.0	67.8
0.65	6.53	27.33	-10.79	0.0	6.53	19.0	12.07	12.07	0.0	41.94	20.0	68.27
0.66	6.62	27.79	-10.79	0.0	6.62	19.0	12.26	12.26	0.0	41.96	20.0	68.46
0.67	6.83	28.97	-10.79	0.0	6.83	19.0	12.45	12.45	0.0	42.06	20.0	69.17
0.68	6.92	29.79	-11.07	0.0	6.92	19.0	12.64	12.64	0.0	42.1	20.0	69.41
0.69	7.0	31.66	-12.03	0.0	7.0	19.0	12.83	12.83	0.0	42.15	20.0	69.8
0.7	6.96	32.95	-13.17	0.0	6.96	19.0	13.02	13.02	0.0	42.14	20.0	69.7
0.71	6.9	33.5	-13.27	0.0	6.9	19.0	13.21	13.21	0.0	42.1	20.0	69.42
0.72	6.74	35.7	-13.17	0.0	6.74	19.0	13.4	13.4	0.0	42.05	20.0	69.06
0.73	6.58	36.0	-11.55	0.0	6.58	19.0	13.59	13.59	0.0	41.96	20.0	68.41
0.74	6.44	35.7	-9.35	0.0	6.44	19.0	13.78	13.78	0.0	41.86	20.0	67.73
0.75	6.37	35.77	-8.78	0.0	6.37	19.0	13.97	13.97	0.0	41.81	20.0	67.33
0.76	6.24	36.0	-6.87	0.0	6.24	19.0	14.16	14.16	0.0	41.72	20.0	66.75
0.77	6.18	36.0	-5.25	0.0	6.18	19.0	14.35	14.35	0.0	41.67	20.0	66.38
0.78	6.06	35.87	-4.1	0.0	6.06	19.0	14.54	14.54	0.0	41.58	20.0	65.78
0.79	5.92	35.51	-3.34	0.0	5.92	19.0	14.73	14.73	0.0	41.39	20.0	64.46
0.8	5.84	35.44	-3.15	0.0	5.84	19.0	14.92	14.92	0.0	41.33	20.0	64.03
0.81	5.68	35.25	-2.67	0.0	5.68	19.0	15.11	15.11	0.0	41.22	20.0	63.3
0.82	5.51	35.18	-1.91	0.0	5.51	19.0	15.3	15.3	0.0	41.1	20.0	62.53
0.83	5.37	34.98	-0.76	0.0	5.37	19.0	15.49	15.49	0.0	40.99	20.0	61.85
0.84	5.29	34.85	0.0	0.0	5.29	19.0	15.68	15.68	0.0	40.92	20.0	61.4
0.85	5.14	34.33	1.43	0.0	5.14	19.0	15.87	15.87	0.0	40.8	20.0	60.62
0.86	5.08	34.29	2.0	0.0	5.08	19.0	16.06	16.06	0.0	40.74	20.0	60.25
0.87	4.96	34.46	2.2	0.0	4.96	19.0	16.25	16.25	0.0	40.65	20.0	59.67
0.88	4.88	34.72	2.2	0.0	4.88	19.0	16.44	16.44	0.0	40.58	20.0	59.25
0.89	4.84	34.79	2.29	0.0	4.84	19.0	16.63	16.63	0.0	40.54	20.0	58.97
0.9	4.81	34.75	2.39	0.0	4.81	19.0	16.82	16.82	0.0	40.5	20.0	58.71
0.91	4.77	35.05	2.48	0.0	4.77	19.0	17.01	17.01	0.0	40.46	20.0	58.46
0.92	4.72	35.28	2.58	0.0	4.72	19.0	17.2	17.2	0.0	40.41	20.0	58.16
0.93	4.69	35.44	2.58	0.0	4.69	18.5	17.39	17.39	0.0	40.37	20.0	57.93
0.94	4.63	35.9	2.67	0.0	4.63	18.5	17.57	17.57	0.0	40.32	20.0	57.62
0.95	4.61	35.97	2.77	0.0	4.61	18.5	17.76	17.76	0.0	40.28	20.0	57.42
0.96	4.61	35.97	2.77	0.0	4.61	18.5	17.94	17.94	0.0	40.26	20.0	57.3
0.97	4.61	35.97	2.77	0.0	4.61	18.5	18.13	18.13	0.0	40.24	20.0	57.17
0.98	4.47	25.95	3.34	0.0	4.47	19.0	18.32	18.32	0.0	39.9	20.0	55.16
0.99	4.52	25.65	3.34	0.0	4.52	19.0	18.51	18.51	0.0	39.91	20.0	55.21
1.0	4.53	25.49	3.44	0.0	4.53	19.0	18.7	18.7	0.0	39.89	20.0	55.12
1.01	4.55	25.1	3.44	0.1	4.55	19.0	18.89	18.79	0.0	39.89	20.0	55.09
1.02	4.55	24.93	3.44	0.2	4.55	19.0	19.08	18.88	0.0	39.88	20.0	55.02
1.03	4.52	24.57	3.44	0.29	4.52	19.0	19.27	18.98	0.0	39.84	20.0	54.79
1.04	4.49	24.14	3.53	0.39	4.49	19.0	19.46	19.07	0.0	39.79	20.0	54.55
1.05	4.47	24.04	3.53	0.49	4.47	19.0	19.65	19.16	0.0	39.77	20.0	54.4
1.06	4.46	23.62	3.53	0.59	4.46	19.0	19.84	19.25	0.0	39.74	20.0	54.25
1.07	4.48	22.96	3.63	0.69	4.48	19.0	20.03	19.34	0.0	39.73	20.0	54.18
1.08	4.51	22.4	3.63	0.78	4.51	19.0	20.22	19.44	0.0	39.73	20.0	54.17
1.09	4.52	22.17	3.63	0.88	4.52	19.0	20.41	19.53	0.0	39.72	20.0	54.13
1.1	4.53	22.07	3.63	0.98	4.53	19.0	20.6	19.62	0.0	39.72	20.0	54.11
1.11	4.53	21.94	3.72	1.08	4.53	19.0	20.79	19.71	0.0	39.7	20.0	54.04
1.12	4.5	21.78	3.72	1.18	4.5	19.0	20.98	19.8	0.0	39.67	20.0	53.84
1.13	4.42	21.88	3.82	1.28	4.42	19.0	21.17	19.89	0.0	39.6	20.0	53.47
1.14	4.37	21.91	3.82	1.37	4.37	19.0	21.36	19.99	0.0	39.56	20.0	53.22
1.15	4.26	21.88	3.82	1.47	4.26	19.0	21.55	20.08	0.0	39.46	20.0	52.69
1.16	4.16	21.68	3.82	1.57	4.16	18.5	21.73	20.17	0.0	39.37	20.0	52.18
1.17	4.07	21.68	3.91	1.67	4.07	18.5	21.92	20.25	0.0	39.29	20.0	51.74
1.18	4.03	21.74	3.91	1.77	4.03	18.5	22.1	20.34	0.0	39.25	20.0	51.53
1.19	3.95	21.91	3.91	1.86	3.95	18.5	22.29	20.43	0.0	39.18	20.0	51.15
1.2	3.9	21.91	4.01	1.96	3.9	18.5	22.47	20.51	0.0	39.13	20.0	50.87
1.21	3.84	21.88	4.01	2.06	3.84	18.5	22.66	20.6	0.0	39.07	20.0	50.55
1.22	3.81	21.55	4.01	2.16	3.81	18.5	22.84	20.69	0.0	39.02	20.0	50.32
1.23	3.8	21.35	4.1	2.26	3.8	18.5	23.03	20.77	0.0	39.0	20.0	50.2
1.24	3.82	20.73	4.1	2.35	3.82	18.5	23.21	20.86	0.0	38.99	20.0	50.16
1.25	3.86	20.07	4.2	2.45	3.86	18.5	23.4	20.95	0.0	39.0	20.0	50.2
1.26	3.89	19.45	4.2	2.55	3.89	18.5	23.58	21.03	0.0	39.0	20.0	50.21
1.27	3.91	19.08	4.2	2.65	3.91	18.5	23.77	21.12	0.0	39.0	20.0	50.2
1.28	3.98	18.3	4.3	2.75	3.98	18.5	23.95	21.21	0.0	39.03	20.0	50.36

1.29	4.01	17.87	4.3	2.84	4.01	19.0	24.14	21.3	0.0	39.03	20.0	50.38
1.3	4.06	17.11	4.3	2.94	4.06	19.0	24.33	21.39	0.0	39.05	20.0	50.44
1.31	4.09	16.82	4.39	3.04	4.09	19.0	24.52	21.48	0.0	39.05	20.0	50.49
1.32	4.13	16.16	4.39	3.14	4.13	19.0	24.71	21.58	0.0	39.06	20.0	50.51
1.33	4.13	15.64	4.49	3.24	4.13	19.0	24.9	21.67	0.0	39.04	20.0	50.39
1.34	4.1	15.47	4.39	3.34	4.1	19.0	25.09	21.76	0.0	39.0	20.0	50.19
1.35	4.07	15.54	4.49	3.43	4.07	19.0	25.28	21.85	0.0	38.97	20.0	50.02
1.36	4.01	15.57	4.49	3.53	4.01	19.0	25.47	21.94	0.0	38.91	20.0	49.72
1.37	3.95	15.77	4.49	3.63	3.95	19.0	25.66	22.04	0.0	38.85	20.0	49.44
1.38	3.93	15.87	4.49	3.73	3.93	19.0	25.85	22.13	0.0	38.83	20.0	49.33
1.39	3.92	16.1	4.49	3.83	3.92	18.5	26.04	22.21	0.0	38.82	20.0	49.28
1.4	3.93	16.23	4.49	3.92	3.93	18.5	26.22	22.3	0.0	38.83	20.0	49.3
1.41	3.9	16.42	4.58	4.02	3.9	18.5	26.41	22.39	0.0	38.8	20.0	49.16
1.42	3.84	16.62	4.58	4.12	3.84	18.5	26.59	22.47	0.0	38.74	20.0	48.87
1.43	3.75	16.95	4.58	4.22	3.75	18.5	26.78	22.56	0.0	38.66	20.0	48.47
1.44	3.71	17.05	4.58	4.32	3.71	18.5	26.96	22.65	0.0	38.62	20.0	48.26
1.45	3.69	17.05	4.68	4.41	3.69	18.5	27.15	22.74	0.0	38.6	20.0	48.12
1.46	3.73	16.85	4.68	4.51	3.73	18.5	27.33	22.82	0.0	38.62	20.0	48.24
1.47	3.77	16.69	4.68	4.61	3.77	18.5	27.52	22.91	0.0	38.64	20.0	48.37
1.48	3.89	16.29	4.68	4.71	3.89	18.5	27.7	23.0	0.0	38.73	20.0	48.82
1.49	3.95	16.1	4.77	4.81	3.95	19.0	27.89	23.09	0.0	38.77	20.0	49.02
1.5	4.04	15.93	4.77	4.9	4.04	19.0	28.08	23.18	0.0	38.84	20.0	49.36
1.51	4.09	15.8	4.77	5.0	4.09	19.0	28.27	23.27	0.0	38.87	20.0	49.52
1.52	4.13	15.64	4.77	5.1	4.13	19.0	28.46	23.36	0.0	38.89	20.0	49.64
1.53	4.22	15.34	4.87	5.2	4.22	19.0	28.65	23.46	0.0	38.95	20.0	49.94
1.54	4.32	15.18	4.87	5.3	4.32	19.0	28.84	23.55	0.0	39.02	20.0	50.31
1.55	4.4	15.01	4.96	5.4	4.4	19.0	29.03	23.64	0.0	39.07	20.0	50.59
1.56	4.57	14.68	4.96	5.49	4.57	19.0	29.22	23.73	0.0	39.19	20.0	51.21
1.57	4.77	14.32	4.96	5.59	4.77	19.0	29.41	23.82	0.0	39.32	20.0	51.93
1.58	4.89	14.29	5.06	5.69	4.89	19.0	29.6	23.92	0.0	39.4	20.0	52.36
1.59	5.11	14.42	5.06	5.79	5.11	19.0	29.79	24.01	0.0	39.56	20.0	53.21
1.6	5.22	14.52	5.15	5.89	5.22	19.0	29.98	24.1	0.0	39.63	20.0	53.61
1.61	5.42	14.91	5.25	5.98	5.42	19.0	30.17	24.19	0.0	39.76	20.0	54.38
1.62	5.55	15.5	5.25	6.08	5.55	19.0	30.36	24.28	0.0	39.86	20.0	54.91
1.63	5.61	16.23	5.25	6.18	5.61	19.0	30.55	24.37	0.0	39.91	20.0	55.21
1.64	5.62	16.69	5.25	6.28	5.62	19.0	30.74	24.47	0.0	39.92	20.0	55.27
1.65	5.59	17.9	5.25	6.38	5.59	19.0	30.93	24.56	0.0	39.92	20.0	55.3
1.66	5.54	19.41	5.35	6.47	5.54	19.0	31.12	24.65	0.0	39.92	20.0	55.28
1.67	5.51	20.3	5.35	6.57	5.51	19.0	31.32	24.74	0.0	39.92	20.0	55.25
1.68	5.47	22.17	5.35	6.67	5.47	19.0	31.5	24.83	0.0	39.93	20.0	55.3
1.69	5.46	23.19	5.35	6.77	5.46	19.0	31.7	24.93	0.0	39.93	20.0	55.35
1.7	5.43	24.87	5.44	6.87	5.43	19.0	31.88	25.02	0.0	39.94	20.0	55.4
1.71	5.41	26.38	5.44	6.97	5.41	19.0	32.08	25.11	0.0	39.95	20.0	55.46
1.72	5.41	26.93	5.44	7.06	5.41	19.0	32.26	25.2	0.0	39.96	20.0	55.48
1.73	5.43	28.02	5.44	7.16	5.43	19.0	32.46	25.29	0.0	39.98	20.0	55.63
1.74	5.45	28.94	5.44	7.26	5.45	19.0	32.64	25.39	0.0	40.0	20.0	55.76
1.75	5.48	29.5	5.54	7.36	5.48	19.0	32.83	25.48	0.0	40.03	20.0	55.89
1.76	5.5	29.56	5.54	7.46	5.5	19.0	33.02	25.57	0.0	40.03	20.0	55.93
1.77	5.55	29.27	5.63	7.55	5.55	19.0	33.21	25.66	0.0	40.05	20.0	56.04
1.78	5.55	29.04	5.63	7.65	5.55	19.0	33.4	25.75	0.0	40.04	20.0	55.98
1.79	5.51	28.68	5.63	7.75	5.51	19.0	33.59	25.85	0.0	40.0	20.0	55.75
1.8	5.47	28.51	5.63	7.85	5.47	19.0	33.78	25.94	0.0	39.97	20.0	55.54
1.81	5.37	28.18	5.73	7.95	5.37	19.0	33.97	26.03	0.0	39.89	20.0	55.09
1.82	5.27	27.99	5.73	8.04	5.27	19.0	34.16	26.12	0.0	39.81	20.0	54.65
1.83	5.17	28.02	5.73	8.14	5.17	19.0	34.35	26.21	0.0	39.74	20.0	54.22
1.84	5.12	28.02	5.73	8.24	5.12	19.0	34.54	26.3	0.0	39.7	20.0	53.99
1.85	5.03	28.05	5.73	8.34	5.03	19.0	34.73	26.4	0.0	39.63	20.0	53.6
1.86	4.96	28.41	5.82	8.44	4.96	19.0	34.92	26.49	0.0	39.58	20.0	53.32
1.87	4.94	28.45	5.82	8.53	4.94	19.0	35.11	26.58	0.0	39.55	20.0	53.2
1.88	4.97	28.38	5.82	8.63	4.97	19.0	35.3	26.67	0.0	39.57	20.0	53.27
1.89	5.01	28.38	5.82	8.73	5.01	19.0	35.49	26.76	0.0	39.59	20.0	53.39
1.9	5.14	28.12	5.92	8.83	5.14	19.0	35.68	26.86	0.0	39.67	20.0	53.84
1.91	5.22	27.92	5.92	8.93	5.22	19.0	35.87	26.95	0.0	39.71	20.0	54.09
1.92	5.38	27.2	6.01	9.03	5.38	19.0	36.06	27.04	0.0	39.8	20.0	54.59
1.93	5.51	26.51	6.01	9.12	5.51	19.0	36.25	27.13	0.0	39.87	20.0	54.97
1.94	5.61	25.92	6.11	9.22	5.61	19.0	36.44	27.22	0.0	39.91	20.0	55.24
1.95	5.61	25.92	6.11	9.32	5.61	19.0	36.63	27.32	0.0	39.91	20.0	55.2
1.96	5.61	25.92	6.11	9.42	5.61	19.0	36.82	27.41	0.0	39.9	20.0	55.17
1.97	5.61	14.68	6.2	9.52	5.61	19.0	37.01	27.5	0.0	39.66	20.0	53.79
1.98	5.63	15.11	6.11	9.61	5.63	19.0	37.2	27.59	0.0	39.68	20.0	53.89
1.99	5.65	16.06	6.2	9.71	5.65	19.0	37.39	27.68	0.0	39.71	20.0	54.05
2.0	5.66	16.65	6.2	9.81	5.66	19.0	37.58	27.77	0.0	39.72	20.0	54.13
2.01	5.7	17.74	6.3	9.91	5.7	19.0	37.77	27.87	0.0	39.76	20.0	54.38

2.02	5.75	19.05	6.3	10.01	5.75	19.0	37.96	27.96	0.0	39.82	20.0	54.69
2.03	5.81	20.43	6.3	10.1	5.81	19.0	38.15	28.05	0.0	39.88	20.0	55.03
2.04	5.89	21.68	6.3	10.2	5.89	19.0	38.34	28.14	0.0	39.95	20.0	55.43
2.05	5.92	22.2	6.3	10.3	5.92	19.0	38.53	28.23	0.0	39.97	20.0	55.56
2.06	6.04	23.12	6.39	10.4	6.04	19.0	38.72	28.33	0.0	40.05	20.0	56.05
2.07	6.11	23.52	6.49	10.5	6.11	19.0	38.91	28.42	0.0	40.1	20.0	56.3
2.08	6.26	24.11	6.49	10.59	6.26	19.0	39.1	28.51	0.0	40.19	20.0	56.85
2.09	6.38	25.19	6.59	10.69	6.38	19.0	39.29	28.6	0.0	40.27	20.0	57.34
2.1	6.47	25.98	6.59	10.79	6.47	19.0	39.48	28.69	0.0	40.33	20.0	57.69
2.11	6.51	26.21	6.68	10.89	6.51	19.0	39.67	28.79	0.0	40.35	20.0	57.82
2.12	6.6	26.57	6.68	10.99	6.6	19.0	39.86	28.88	0.0	40.4	20.0	58.12
2.13	6.71	26.61	6.78	11.09	6.71	19.0	40.05	28.97	0.0	40.45	20.0	58.45
2.14	6.77	26.61	6.87	11.18	6.77	19.0	40.24	29.06	0.0	40.48	20.0	58.62
2.15	6.89	26.74	6.87	11.28	6.89	19.0	40.43	29.15	0.0	40.54	20.0	58.99
2.16	6.97	26.9	6.97	11.38	6.97	19.0	40.62	29.25	0.0	40.58	20.0	59.23
2.17	7.0	27.1	6.97	11.48	7.0	19.0	40.81	29.34	0.0	40.59	20.0	59.31
2.18	7.03	27.53	7.06	11.58	7.03	19.0	41.0	29.43	0.0	40.61	20.0	59.41
2.19	7.04	28.38	7.16	11.67	7.04	19.0	41.19	29.52	0.0	40.62	20.0	59.49
2.2	7.04	29.56	7.16	11.77	7.04	19.0	41.38	29.61	0.0	40.64	20.0	59.57
2.21	7.04	30.25	7.25	11.87	7.04	19.0	41.57	29.7	0.0	40.64	20.0	59.6
2.22	7.04	31.93	7.35	11.97	7.04	19.0	41.76	29.8	0.0	40.66	20.0	59.71
2.23	7.06	32.75	7.35	12.07	7.06	19.0	41.95	29.89	0.0	40.67	20.0	59.81
2.24	7.04	34.42	7.44	12.16	7.04	19.0	42.14	29.98	0.0	40.68	20.0	59.86
2.25	7.02	35.9	7.54	12.26	7.02	19.0	42.33	30.07	0.0	40.68	20.0	59.88
2.26	7.0	37.35	7.54	12.36	7.0	19.0	42.52	30.16	0.0	40.69	20.0	59.89
2.27	7.02	38.07	7.54	12.46	7.02	19.0	42.71	30.26	0.0	40.7	20.0	59.98
2.28	7.07	39.38	7.73	12.56	7.07	19.0	42.9	30.35	0.0	40.74	20.0	60.2
2.29	7.12	40.47	7.73	12.65	7.12	19.0	43.09	30.44	0.0	40.77	20.0	60.41
2.3	7.16	40.7	7.83	12.75	7.16	19.0	43.28	30.53	0.0	40.79	20.0	60.52
2.31	7.24	41.22	7.92	12.85	7.24	19.0	43.47	30.62	0.0	40.83	20.0	60.78
2.32	7.38	41.45	8.02	12.95	7.38	19.0	43.66	30.72	0.0	40.89	20.0	61.21
2.33	7.46	41.45	8.02	13.05	7.46	19.0	43.85	30.81	0.0	40.93	20.0	61.42
2.34	7.6	41.19	8.11	13.15	7.6	19.0	44.04	30.9	0.0	40.99	20.0	61.8
2.35	7.75	40.73	8.3	13.24	7.75	19.0	44.23	30.99	0.0	41.05	20.0	62.2
2.36	7.87	40.17	8.3	13.34	7.87	19.0	44.42	31.08	0.0	41.09	20.0	62.48
2.37	7.92	39.94	8.4	13.44	7.92	19.0	44.61	31.18	0.0	41.11	20.0	62.58
2.38	8.02	39.55	8.49	13.54	8.02	19.0	44.8	31.27	0.0	41.14	20.0	62.82
2.39	8.03	39.35	8.49	13.64	8.03	19.0	44.99	31.36	0.0	41.14	20.0	62.8
2.4	8.02	39.55	8.59	13.73	8.02	19.0	45.18	31.45	0.0	41.13	20.0	62.75
2.41	7.96	40.07	8.69	13.83	7.96	19.0	45.37	31.54	0.0	41.1	20.0	62.57
2.42	7.86	40.7	8.69	13.93	7.86	19.0	45.56	31.63	0.0	41.06	20.0	62.27
2.43	7.81	41.29	8.78	14.03	7.81	19.0	45.75	31.73	0.0	41.04	20.0	62.13
2.44	7.73	42.8	8.78	14.13	7.73	19.0	45.94	31.82	0.0	41.01	20.0	61.95
2.45	7.66	44.21	8.88	14.22	7.66	19.0	46.13	31.91	0.0	40.99	20.0	61.8
2.46	7.64	45.0	8.88	14.32	7.64	19.0	46.32	32.0	0.0	40.98	20.0	61.75
2.47	7.64	46.08	8.97	14.42	7.64	19.0	46.51	32.09	0.0	40.98	20.0	61.79
2.48	7.66	47.33	9.07	14.52	7.66	19.0	46.7	32.19	0.0	41.0	20.0	61.9
2.49	7.65	47.86	9.07	14.62	7.65	19.0	46.9	32.28	0.0	41.0	20.0	61.86
2.5	7.63	48.88	9.16	14.72	7.63	19.0	47.08	32.37	0.0	40.99	20.0	61.83
2.51	7.55	49.4	9.26	14.81	7.55	19.0	47.27	32.46	0.0	40.95	20.0	61.57
2.52	7.43	50.32	9.26	14.91	7.43	19.0	47.46	32.55	0.0	40.9	20.0	61.21
2.53	7.37	50.65	9.26	15.01	7.37	19.0	47.65	32.65	0.0	40.86	20.0	61.0
2.54	7.2	50.85	9.35	15.11	7.2	19.0	47.84	32.74	0.0	40.77	20.0	60.43
2.55	7.13	50.81	9.35	15.21	7.13	19.0	48.04	32.83	0.0	40.73	20.0	60.16
2.56	6.99	50.62	9.45	15.3	6.99	19.0	48.22	32.92	0.0	40.65	20.0	59.65
2.57	6.88	50.16	9.45	15.4	6.88	19.0	48.42	33.01	0.0	40.58	20.0	59.22
2.58	6.73	49.34	9.45	15.5	6.73	19.0	48.6	33.11	0.0	40.48	20.0	58.63
2.59	6.63	49.07	9.54	15.6	6.63	19.0	48.8	33.2	0.0	40.42	20.0	58.23
2.6	6.46	48.65	9.54	15.7	6.46	19.0	48.99	33.29	0.0	40.31	20.0	57.59
2.61	6.32	48.75	9.64	15.79	6.32	19.0	49.18	33.38	0.0	40.23	20.0	57.07
2.62	6.27	48.71	9.64	15.89	6.27	19.0	49.37	33.47	0.0	40.19	20.0	56.85
2.63	6.23	48.55	9.74	15.99	6.23	19.0	49.56	33.56	0.0	40.16	20.0	56.66
2.64	6.27	47.69	9.83	16.09	6.27	19.0	49.75	33.66	0.0	40.17	20.0	56.72
2.65	6.32	47.07	9.83	16.19	6.32	19.0	49.94	33.75	0.0	40.18	20.0	56.82
2.66	6.49	45.2	9.93	16.28	6.49	19.0	50.13	33.84	0.0	40.26	20.0	57.27
2.67	6.78	43.29	10.02	16.38	6.78	19.0	50.32	33.93	0.0	40.4	20.0	58.1
2.68	7.08	40.96	10.12	16.48	7.08	19.0	50.51	34.02	0.0	40.53	20.0	58.91
2.69	7.22	39.75	10.21	16.58	7.22	19.0	50.7	34.12	0.0	40.58	20.0	59.24
2.7	7.39	37.22	10.31	16.68	7.39	19.0	50.89	34.21	0.0	40.64	20.0	59.58
2.71	7.41	35.9	10.31	16.78	7.41	19.0	51.08	34.3	0.0	40.63	20.0	59.52
2.72	7.38	34.62	10.4	16.87	7.38	19.0	51.27	34.39	0.0	40.59	20.0	59.29
2.73	7.28	33.9	10.4	16.97	7.28	19.0	51.46	34.48	0.0	40.53	20.0	58.89
2.74	7.13	33.77	10.5	17.07	7.13	19.0	51.65	34.58	0.0	40.44	20.0	58.37

2.75	7.05	33.83	10.5	17.17	7.05	19.0	51.84	34.67	0.0	40.39	20.0	58.08
2.76	6.85	34.39	10.5	17.27	6.85	19.0	52.03	34.76	0.0	40.29	20.0	57.43
2.77	6.67	35.38	10.59	17.36	6.67	19.0	52.22	34.85	0.0	40.19	20.0	56.86
2.78	6.58	36.16	10.59	17.46	6.58	19.0	52.41	34.94	0.0	40.14	20.0	56.58
2.79	6.45	37.68	10.59	17.56	6.45	19.0	52.6	35.04	0.0	40.08	20.0	56.2
2.8	6.36	38.96	10.69	17.66	6.36	19.0	52.79	35.13	0.0	40.03	20.0	55.94
2.81	6.27	40.01	10.69	17.76	6.27	19.0	52.98	35.22	0.0	39.99	20.0	55.66
2.82	6.24	40.47	10.69	17.85	6.24	19.0	53.17	35.31	0.0	39.97	20.0	55.55
2.83	6.17	41.03	10.69	17.95	6.17	19.0	53.36	35.4	0.0	39.93	20.0	55.3
2.84	6.1	41.35	10.79	18.05	6.1	19.0	53.55	35.49	0.0	39.93	20.0	55.32
2.85	6.08	41.16	10.79	18.15	6.08	19.0	53.74	35.59	0.0	39.91	20.0	55.21
2.86	6.07	40.2	10.79	18.25	6.07	19.0	53.93	35.68	0.0	39.89	20.0	55.08
2.87	6.06	39.75	10.88	18.34	6.06	19.0	54.12	35.77	0.0	39.87	20.0	54.98
2.88	6.09	38.46	10.88	18.44	6.09	19.0	54.31	35.86	0.0	39.82	20.0	54.69
2.89	6.12	36.76	10.98	18.54	6.12	19.0	54.5	35.95	0.0	39.81	20.0	54.66
2.9	6.1	34.72	10.98	18.64	6.1	19.0	54.69	36.05	0.0	39.77	20.0	54.43
2.91	6.07	33.9	11.07	18.74	6.07	19.0	54.88	36.14	0.0	39.74	20.0	54.23
2.92	6.04	32.19	11.07	18.84	6.04	19.0	55.07	36.23	0.0	39.69	20.0	53.98
2.93	6.13	31.11	11.17	18.93	6.13	19.0	55.26	36.32	0.0	39.73	20.0	54.19
2.94	6.25	30.84	11.17	19.03	6.25	19.0	55.45	36.41	0.0	39.8	20.0	54.56
2.95	6.25	30.84	11.17	19.13	6.25	19.0	55.64	36.51	0.0	39.79	20.0	54.53
2.96	6.25	30.84	11.17	19.23	6.25	19.0	55.83	36.6	0.0	39.79	20.0	54.5
2.97	6.82	23.55	11.93	19.33	6.82	19.0	56.02	36.69	0.0	40.02	20.0	55.86
2.98	6.9	24.18	11.93	19.42	6.9	19.0	56.21	36.78	0.0	40.07	20.0	56.14
2.99	6.89	29.17	11.93	19.52	6.89	19.0	56.4	36.87	0.0	40.12	20.0	56.47
3.0	6.85	32.95	12.12	19.62	6.85	19.0	56.59	36.97	0.0	40.14	20.0	56.57
3.01	6.81	33.93	12.22	19.72	6.81	19.0	56.78	37.06	0.0	40.13	20.0	56.47
3.02	6.79	34.59	12.22	19.82	6.79	19.0	56.97	37.15	0.0	40.12	20.0	56.42
3.03	6.71	36.23	12.22	19.91	6.71	19.0	57.16	37.24	0.0	40.08	20.0	56.23
3.04	6.61	38.23	12.22	20.01	6.61	19.0	57.35	37.33	0.0	40.09	20.0	56.25
3.05	6.54	39.75	12.31	20.11	6.54	19.0	57.54	37.42	0.0	40.06	20.0	56.06
3.06	6.52	40.47	12.31	20.21	6.52	19.0	57.73	37.52	0.0	40.04	20.0	56.0
3.07	6.54	40.7	12.31	20.31	6.54	19.0	57.92	37.61	0.0	40.05	20.0	56.05
3.08	6.62	40.73	12.41	20.4	6.62	19.0	58.11	37.7	0.0	40.09	20.0	56.29
3.09	6.71	39.98	12.41	20.5	6.71	19.0	58.3	37.79	0.0	40.13	20.0	56.53
3.1	6.74	39.35	12.41	20.6	6.74	19.0	58.49	37.88	0.0	40.14	20.0	56.56
3.11	6.77	38.27	12.5	20.7	6.77	19.0	58.68	37.98	0.0	40.14	20.0	56.57
3.12	6.73	34.79	12.5	20.8	6.73	19.0	58.87	38.07	0.0	40.08	20.0	56.2
3.13	6.71	32.91	12.5	20.9	6.71	19.0	59.06	38.16	0.0	40.04	20.0	55.98
3.14	6.63	31.3	12.6	20.99	6.63	19.0	59.25	38.25	0.0	39.93	20.0	55.3
3.15	6.5	30.61	12.6	21.09	6.5	19.0	59.44	38.34	0.0	39.84	20.0	54.79
3.16	6.33	30.55	12.6	21.19	6.33	19.0	59.63	38.44	0.0	39.77	20.0	54.43
3.17	6.27	30.29	12.6	21.29	6.27	19.0	59.82	38.53	0.0	39.73	20.0	54.17
3.18	6.19	29.63	12.69	21.39	6.19	19.0	60.01	38.62	0.0	39.66	20.0	53.81
3.19	6.15	29.53	12.69	21.48	6.15	19.0	60.2	38.71	0.0	39.63	20.0	53.63
3.2	6.11	29.53	12.79	21.58	6.11	19.0	60.39	38.8	0.0	39.6	20.0	53.46
3.21	6.13	29.76	12.79	21.68	6.13	19.0	60.58	38.89	0.0	39.61	20.0	53.51
3.22	6.15	29.76	12.79	21.78	6.15	19.0	60.77	38.99	0.0	39.62	20.0	53.55
3.23	6.17	29.73	12.79	21.88	6.17	19.0	60.96	39.08	0.0	39.63	20.0	53.59
3.24	6.23	29.33	12.89	21.97	6.23	19.0	61.15	39.17	0.0	39.65	20.0	53.75
3.25	6.3	28.58	12.98	22.07	6.3	19.0	61.34	39.26	0.0	39.68	20.0	53.92
3.26	6.33	27.66	12.98	22.17	6.33	19.0	61.53	39.35	0.0	39.69	20.0	53.94
3.27	6.34	27.39	13.08	22.27	6.34	19.0	61.72	39.45	0.0	39.68	20.0	53.92
3.28	6.34	26.93	13.17	22.37	6.34	19.0	61.91	39.54	0.0	39.67	20.0	53.86
3.29	6.94	27.03	16.61	22.46	6.94	19.0	62.1	39.63	0.0	39.98	20.0	55.62
3.3	6.11	17.54	16.51	22.56	6.11	19.0	62.29	39.72	0.0	39.34	20.0	52.04
3.31	6.15	18.1	16.61	22.66	6.15	19.0	62.48	39.81	0.0	39.37	20.0	52.21
3.32	6.11	18.72	16.61	22.76	6.11	19.0	62.67	39.91	0.0	39.35	20.0	52.09
3.33	6.08	18.95	16.61	22.86	6.08	19.0	62.86	40.0	0.0	39.33	20.0	51.98
3.34	6.04	19.71	16.61	22.96	6.04	19.0	63.05	40.09	0.0	39.31	20.0	51.87
3.35	6.04	19.91	16.7	23.05	6.04	19.0	63.24	40.18	0.0	39.31	20.0	51.86
3.36	6.04	20.3	16.7	23.15	6.04	19.0	63.43	40.27	0.0	39.31	20.0	51.87
3.37	6.03	20.53	16.8	23.25	6.03	19.0	63.62	40.37	0.0	39.3	20.0	51.82
3.38	6.02	20.86	16.8	23.35	6.02	19.0	63.81	40.46	0.0	39.3	20.0	51.79
3.39	5.95	21.25	16.8	23.45	5.95	19.0	64.0	40.55	0.0	39.3	20.0	51.77
3.4	5.84	21.71	16.89	23.54	5.84	19.0	64.19	40.64	0.0	39.22	20.0	51.38
3.41	5.73	22.4	16.89	23.64	5.73	19.0	64.38	40.73	0.0	39.15	20.0	50.99
3.42	5.68	22.86	16.89	23.74	5.68	19.0	64.57	40.82	0.0	39.12	20.0	50.81
3.43	5.54	24.54	16.89	23.84	5.54	19.0	64.76	40.92	0.0	39.03	20.0	50.37
3.44	5.5	24.7	16.99	23.94	5.5	19.0	64.95	41.01	0.0	39.0	20.0	50.2
3.45	5.45	24.96	16.99	24.03	5.45	19.0	65.14	41.1	0.0	38.96	20.0	50.0
3.46	5.37	25.49	17.09	24.13	5.37	19.0	65.33	41.19	0.0	38.9	20.0	49.69
3.47	5.3	25.98	17.09	24.23	5.3	19.0	65.52	41.28	0.0	38.85	20.0	49.43

3.48	5.25	26.08	17.09	24.33	5.25	19.0	65.71	41.38	0.0	38.81	20.0	49.21
3.49	5.17	26.28	17.18	24.43	5.17	19.0	65.9	41.47	0.0	38.75	20.0	48.88
3.5	5.12	26.57	17.18	24.52	5.12	19.0	66.09	41.56	0.0	38.7	20.0	48.67
3.51	5.02	27.07	17.28	24.62	5.02	19.0	66.28	41.65	0.0	38.63	20.0	48.27
3.52	4.91	27.62	17.28	24.72	4.91	19.0	66.47	41.74	0.0	38.54	20.0	47.83
3.53	4.86	27.79	17.28	24.82	4.86	19.0	66.66	41.84	0.0	38.49	20.0	47.61
3.54	4.78	27.69	17.37	24.92	4.78	19.0	66.85	41.93	0.0	38.42	20.0	47.25
3.55	4.73	27.36	17.37	25.02	4.73	19.0	67.04	42.02	0.0	38.37	20.0	47.0
3.56	4.72	26.84	17.56	25.11	4.72	19.0	67.23	42.11	0.0	38.35	20.0	46.9
3.57	4.72	26.61	17.56	25.21	4.72	19.0	67.42	42.2	0.0	38.34	20.0	46.86
3.58	4.74	26.05	17.66	25.31	4.74	19.0	67.61	42.3	0.0	38.35	20.0	46.88
3.59	4.75	25.72	17.66	25.41	4.75	19.0	67.8	42.39	0.0	38.35	20.0	46.88
3.6	4.8	24.87	17.75	25.51	4.8	19.0	67.99	42.48	0.0	38.37	20.0	47.0
3.61	4.84	23.98	17.85	25.6	4.84	19.0	68.18	42.57	0.0	38.39	20.0	47.09
3.62	4.86	23.29	17.94	25.7	4.86	19.0	68.37	42.66	0.0	38.39	20.0	47.1
3.63	4.87	22.76	18.04	25.8	4.87	19.0	68.56	42.75	0.0	38.39	20.0	47.08
3.64	4.88	21.97	18.04	25.9	4.88	19.0	68.75	42.85	0.0	38.38	20.0	47.05
3.65	4.88	20.96	18.13	26.0	4.88	19.0	68.94	42.94	0.0	38.36	20.0	46.96
3.66	4.89	20.5	18.23	26.09	4.89	19.0	69.13	43.03	0.0	38.36	20.0	46.94
3.67	4.89	19.48	18.23	26.19	4.89	19.0	69.32	43.12	0.0	38.34	20.0	46.85
3.68	4.89	19.15	18.33	26.29	4.89	19.0	69.51	43.21	0.0	38.33	20.0	46.8
3.69	4.91	18.49	18.42	26.39	4.91	19.0	69.7	43.31	0.0	38.33	20.0	46.81
3.7	4.91	18.1	18.52	26.49	4.91	19.0	69.89	43.4	0.0	38.32	20.0	46.76
3.71	4.91	17.9	18.52	26.59	4.91	19.0	70.08	43.49	0.0	38.31	20.0	46.72
3.72	4.9	17.51	18.61	26.68	4.9	19.0	70.27	43.58	0.0	38.3	20.0	46.63
3.73	4.87	17.57	18.71	26.78	4.87	19.0	70.46	43.67	0.0	38.27	20.0	46.49
3.74	4.83	17.84	18.71	26.88	4.83	19.0	70.65	43.77	0.0	38.23	20.0	46.32
3.75	4.81	18.0	18.8	26.98	4.81	19.0	70.84	43.86	0.0	38.21	20.0	46.22
3.76	4.72	18.59	18.9	27.08	4.72	19.0	71.03	43.95	0.0	38.14	20.0	45.87
3.77	4.68	18.85	18.9	27.17	4.68	19.0	71.22	44.04	0.0	38.1	20.0	45.69
3.78	4.6	19.38	18.9	27.27	4.6	19.0	71.4	44.13	0.0	38.03	20.0	45.37
3.79	4.56	19.61	18.99	27.37	4.56	19.0	71.6	44.23	0.0	38.0	20.0	45.19
3.8	4.51	20.14	18.99	27.47	4.51	19.0	71.78	44.32	0.0	37.95	20.0	44.99
3.81	4.49	20.6	19.09	27.57	4.49	19.0	71.97	44.41	0.0	37.94	20.0	44.91
3.82	4.5	20.99	19.18	27.66	4.5	19.0	72.16	44.5	0.0	37.94	20.0	44.95
3.83	4.5	21.32	19.28	27.76	4.5	19.0	72.35	44.59	0.0	37.94	20.0	44.95
3.84	4.49	21.42	19.28	27.86	4.49	19.0	72.54	44.68	0.0	37.93	20.0	44.88
3.85	4.44	21.61	19.38	27.96	4.44	19.0	72.73	44.78	0.0	37.88	20.0	44.66
3.86	4.41	21.68	19.38	28.06	4.41	19.0	72.92	44.87	0.0	37.85	20.0	44.51
3.87	4.36	21.91	19.47	28.15	4.36	19.0	73.11	44.96	0.0	37.8	20.0	44.28
3.88	4.34	22.11	19.47	28.25	4.34	19.0	73.3	45.05	0.0	37.78	20.0	44.18
3.89	4.36	22.27	19.57	28.35	4.36	19.0	73.49	45.14	0.0	37.8	20.0	44.25
3.9	4.45	22.04	19.66	28.45	4.45	19.0	73.68	45.24	0.0	37.87	20.0	44.6
3.91	4.61	21.35	19.85	28.55	4.61	19.0	73.87	45.33	0.0	38.0	20.0	45.21
3.92	4.7	21.12	19.85	28.65	4.7	19.0	74.06	45.42	0.0	38.07	20.0	45.55
3.93	4.89	20.6	19.95	28.74	4.89	19.0	74.25	45.51	0.0	38.22	20.0	46.27
3.94	5.08	19.97	20.04	28.84	5.08	19.0	74.44	45.6	0.0	38.36	20.0	46.97
3.95	5.08	19.97	20.04	28.94	5.08	19.0	74.63	45.7	0.0	38.36	20.0	46.95
3.96	5.08	19.97	20.04	29.04	5.08	19.0	74.82	45.79	0.0	38.35	20.0	46.92
3.97	5.13	11.86	21.86	29.14	5.13	19.0	75.01	45.88	0.0	38.28	20.0	46.54
3.98	5.15	12.94	21.95	29.23	5.15	19.0	75.2	45.97	0.0	38.3	20.0	46.68
3.99	5.15	13.8	21.95	29.33	5.15	19.0	75.39	46.06	0.0	38.31	20.0	46.72
4.0	5.14	14.39	21.95	29.43	5.14	19.0	75.58	46.15	0.0	38.31	20.0	46.7
4.01	5.14	15.7	22.05	29.53	5.14	19.0	75.77	46.25	0.0	38.32	20.0	46.76
4.02	5.15	16.98	22.05	29.63	5.15	19.0	75.96	46.34	0.0	38.34	20.0	46.87
4.03	5.16	17.97	22.14	29.72	5.16	19.0	76.15	46.43	0.0	38.36	20.0	46.95
4.04	5.16	18.39	22.14	29.82	5.16	19.0	76.34	46.52	0.0	38.36	20.0	46.95
4.05	5.17	19.02	22.14	29.92	5.17	19.0	76.53	46.61	0.0	38.37	20.0	47.0
4.06	5.17	19.18	22.24	30.02	5.17	19.0	76.72	46.71	0.0	38.37	20.0	46.99
4.07	5.19	19.48	22.24	30.12	5.19	19.0	76.91	46.8	0.0	38.38	20.0	47.06
4.08	5.23	19.58	22.33	30.21	5.23	19.0	77.1	46.89	0.0	38.41	20.0	47.2
4.09	5.25	19.64	22.43	30.31	5.25	19.0	77.29	46.98	0.0	38.42	20.0	47.26
4.1	5.32	19.71	22.53	30.41	5.32	19.0	77.48	47.07	0.0	38.47	20.0	47.51
4.11	5.41	19.87	22.53	30.51	5.41	19.0	77.67	47.17	0.0	38.54	20.0	47.84
4.12	5.53	19.84	22.72	30.61	5.53	19.0	77.86	47.26	0.0	38.63	20.0	48.27
4.13	5.59	19.61	22.72	30.71	5.59	19.0	78.05	47.35	0.0	38.66	20.0	48.46
4.14	5.7	19.02	22.81	30.8	5.7	19.0	78.24	47.44	0.0	38.73	20.0	48.81
4.15	5.74	18.76	22.91	30.9	5.74	19.0	78.43	47.53	0.0	38.75	20.0	48.91
4.16	5.8	18.69	23.0	31.0	5.8	19.0	78.62	47.63	0.0	38.79	20.0	49.11
4.17	5.83	18.72	23.0	31.1	5.83	19.0	78.81	47.72	0.0	38.81	20.0	49.2
4.18	5.87	19.02	23.1	31.2	5.87	19.0	79.0	47.81	0.0	38.83	20.0	49.34
4.19	5.95	19.45	23.19	31.29	5.95	19.0	79.19	47.9	0.0	38.89	20.0	49.63
4.2	6.04	19.71	23.29	31.39	6.04	19.0	79.38	47.99	0.0	38.95	20.0	49.94

4.21	6.12	20.3	23.48	31.49	6.12	19.0	79.57	48.08	0.0	39.01	20.0	50.24
4.22	6.17	20.6	23.48	31.59	6.17	19.0	79.76	48.18	0.0	39.04	20.0	50.41
4.23	6.26	21.15	23.58	31.69	6.26	19.0	79.95	48.27	0.0	39.1	20.0	50.74
4.24	6.31	21.42	23.67	31.78	6.31	19.0	80.14	48.36	0.0	39.13	20.0	50.9
4.25	6.4	22.01	23.77	31.88	6.4	19.0	80.33	48.45	0.0	39.19	20.0	51.23
4.26	6.45	22.37	23.77	31.98	6.45	19.0	80.52	48.54	0.0	39.22	20.0	51.39
4.27	6.51	23.45	23.86	32.08	6.51	19.0	80.71	48.64	0.0	39.27	20.0	51.64
4.28	6.56	24.34	23.96	32.18	6.56	19.0	80.9	48.73	0.0	39.31	20.0	51.83
4.29	6.59	25.29	24.05	32.27	6.59	19.0	81.09	48.82	0.0	39.33	20.0	51.96
4.3	6.61	25.82	24.05	32.37	6.61	19.0	81.28	48.91	0.0	39.34	20.0	52.03
4.31	6.61	26.87	24.15	32.47	6.61	19.0	81.47	49.0	0.0	39.35	20.0	52.06
4.32	6.61	27.82	24.24	32.57	6.61	19.0	81.66	49.1	0.0	39.35	20.0	52.08
4.33	6.61	28.22	24.24	32.67	6.61	19.0	81.85	49.19	0.0	39.35	20.0	52.08
4.34	6.58	29.17	24.34	32.77	6.58	19.0	82.04	49.28	0.0	39.34	20.0	52.0
4.35	6.56	29.6	24.34	32.86	6.56	19.0	82.23	49.37	0.0	39.32	20.0	51.93
4.36	6.47	30.61	24.43	32.96	6.47	19.0	82.42	49.46	0.0	39.27	20.0	51.64
4.37	6.36	31.57	24.53	33.06	6.36	19.0	82.62	49.56	0.0	39.2	20.0	51.28
4.38	6.3	31.99	24.43	33.16	6.3	19.0	82.8	49.65	0.0	39.16	20.0	51.06
4.39	6.17	33.11	24.53	33.26	6.17	19.0	82.99	49.74	0.0	39.08	20.0	50.63
4.4	6.04	34.23	24.53	33.35	6.04	19.0	83.18	49.83	0.0	39.0	20.0	50.18
4.41	5.92	35.21	24.63	33.45	5.92	19.0	83.38	49.92	0.0	38.92	20.0	49.77
4.42	5.85	35.7	24.63	33.55	5.85	19.0	83.56	50.01	0.0	38.87	20.0	49.51
4.43	5.72	36.46	24.72	33.65	5.72	19.0	83.76	50.11	0.0	38.78	20.0	49.03
4.44	5.66	36.76	24.72	33.75	5.66	19.0	83.94	50.2	0.0	38.73	20.0	48.8
4.45	5.59	37.18	24.82	33.84	5.59	19.0	84.14	50.29	0.0	38.68	20.0	48.52
4.46	5.62	37.15	24.91	33.94	5.62	19.0	84.32	50.38	0.0	38.69	20.0	48.61
4.47	5.67	37.02	24.91	34.04	5.67	19.0	84.52	50.47	0.0	38.72	20.0	48.77
4.48	5.8	36.82	25.01	34.14	5.81	19.0	84.71	50.57	0.0	38.81	20.0	49.22
4.49	5.89	36.59	25.1	34.24	5.9	19.0	84.9	50.66	0.0	38.87	20.0	49.52
4.5	5.94	36.62	25.2	34.34	5.95	19.0	85.08	50.75	0.0	38.9	20.0	49.68
4.51	5.95	36.43	25.2	34.43	5.96	19.0	85.28	50.84	0.0	38.9	20.0	49.68
4.52	5.92	36.39	25.29	34.53	5.93	19.0	85.46	50.93	0.0	38.88	20.0	49.55
4.53	5.9	36.23	25.29	34.63	5.91	19.0	85.66	51.03	0.0	38.86	20.0	49.44
4.54	5.85	36.0	25.48	34.73	5.86	19.0	85.85	51.12	0.0	38.81	20.0	49.23
4.55	5.81	35.57	25.48	34.83	5.82	19.0	86.04	51.21	0.0	38.78	20.0	49.04
4.56	5.8	35.38	25.58	34.92	5.81	19.0	86.22	51.3	0.0	38.76	20.0	48.97
4.57	5.83	34.62	25.77	35.02	5.84	19.0	86.42	51.39	0.0	38.78	20.0	49.03
4.58	5.94	34.06	25.87	35.12	5.95	19.0	86.61	51.49	0.0	38.84	20.0	49.39
4.59	6.01	34.0	25.87	35.22	6.02	19.0	86.8	51.58	0.0	38.89	20.0	49.61
4.6	6.16	33.7	26.06	35.32	6.17	19.0	86.99	51.67	0.0	38.98	20.0	50.12
4.61	6.29	33.34	26.15	35.41	6.3	19.0	87.18	51.76	0.0	39.06	20.0	50.54
4.62	6.41	32.98	26.15	35.51	6.42	19.0	87.37	51.85	0.0	39.14	20.0	50.92
4.63	6.5	32.98	26.25	35.61	6.51	19.0	87.56	51.94	0.0	39.19	20.0	51.2
4.64	6.54	32.95	26.34	35.71	6.55	19.0	87.75	52.04	0.0	39.21	20.0	51.32
4.65	6.66	32.39	26.44	35.81	6.67	19.0	87.94	52.13	0.0	39.28	20.0	51.68
4.66	6.79	31.4	26.53	35.9	6.8	19.0	88.13	52.22	0.0	39.35	20.0	52.06
4.67	6.85	31.11	26.53	36.0	6.86	19.0	88.32	52.31	0.0	39.38	20.0	52.22
4.68	6.97	30.94	26.63	36.1	6.98	19.0	88.51	52.4	0.0	39.44	20.0	52.59
4.69	7.02	31.04	26.73	36.2	7.03	19.0	88.7	52.5	0.0	39.47	20.0	52.74
4.7	7.04	31.27	26.82	36.3	7.05	19.0	88.89	52.59	0.0	39.48	20.0	52.79
4.71	7.01	31.89	26.82	36.4	7.02	19.0	89.08	52.68	0.0	39.46	20.0	52.69
4.72	7.01	32.49	26.82	36.49	7.02	19.0	89.27	52.77	0.0	39.46	20.0	52.69
4.73	7.02	33.5	27.01	36.59	7.03	19.0	89.46	52.86	0.0	39.47	20.0	52.74
4.74	7.05	34.65	27.11	36.69	7.06	19.0	89.65	52.96	0.0	39.49	20.0	52.86
4.75	7.06	35.64	27.11	36.79	7.07	19.0	89.84	53.05	0.0	39.5	20.0	52.91
4.76	7.07	36.07	27.11	36.89	7.08	19.0	90.03	53.14	0.0	39.51	20.0	52.94
4.77	7.06	37.15	27.2	36.98	7.07	19.0	90.22	53.23	0.0	39.5	20.0	52.92
4.78	7.07	37.71	27.2	37.08	7.08	19.0	90.41	53.32	0.0	39.51	20.0	52.95
4.79	7.09	39.32	27.3	37.18	7.1	19.0	90.6	53.42	0.0	39.53	20.0	53.05
4.8	7.13	40.6	27.39	37.28	7.14	19.0	90.79	53.51	0.0	39.56	20.0	53.2
4.81	7.15	41.16	27.49	37.38	7.16	19.0	90.98	53.6	0.0	39.57	20.0	53.27
4.82	7.25	41.75	27.49	37.47	7.26	19.0	91.17	53.69	0.0	39.62	20.0	53.59
4.83	7.38	42.04	27.68	37.57	7.39	19.0	91.36	53.78	0.0	39.7	20.0	53.99
4.84	7.45	42.01	27.78	37.67	7.46	19.0	91.55	53.87	0.0	39.73	20.0	54.19
4.85	7.6	41.91	27.87	37.77	7.61	19.0	91.74	53.97	0.0	39.81	20.0	54.64
4.86	7.76	41.32	27.97	37.87	7.77	19.0	91.93	54.06	0.0	39.89	20.0	55.1
4.87	7.83	40.93	28.06	37.96	7.84	19.0	92.12	54.15	0.0	39.92	20.0	55.28
4.88	7.93	40.7	28.16	38.06	7.94	19.0	92.31	54.24	0.0	39.97	20.0	55.56
4.89	7.95	40.63	28.16	38.16	7.96	19.0	92.5	54.33	0.0	39.98	20.0	55.6
4.9	7.92	41.09	28.25	38.26	7.93	19.0	92.69	54.43	0.0	39.96	20.0	55.5
4.91	7.88	41.29	28.35	38.36	7.89	19.0	92.88	54.52	0.0	39.93	20.0	55.36
4.92	7.85	41.09	28.35	38.46	7.86	19.0	93.07	54.61	0.0	39.91	20.0	55.23
4.93	7.83	41.32	28.35	38.55	7.84	19.0	93.26	54.7	0.0	39.9	20.0	55.16

4.94	7.83	41.32	28.35	38.65	7.84	19.0	93.45	54.79	0.0	39.9	20.0	55.13
4.95	7.83	41.32	28.35	38.75	7.84	19.0	93.64	54.89	0.0	39.89	20.0	55.11
4.96	7.64	30.55	29.49	38.85	7.65	19.0	93.83	54.98	0.0	39.72	20.0	54.1
4.97	7.67	32.42	29.49	38.95	7.68	19.0	94.02	55.07	0.0	39.74	20.0	54.25
4.98	7.7	33.21	29.49	39.04	7.71	19.0	94.21	55.16	0.0	39.76	20.0	54.35
4.99	7.74	34.42	29.59	39.14	7.75	19.0	94.4	55.25	0.0	39.78	20.0	54.5
5.0	7.72	35.97	29.59	39.24	7.73	19.0	94.59	55.35	0.0	39.78	20.0	54.47
5.01	7.67	36.69	29.59	39.34	7.68	19.0	94.78	55.44	0.0	39.75	20.0	54.32
5.02	7.64	36.92	29.68	39.44	7.65	19.0	94.97	55.53	0.0	39.73	20.0	54.21
5.03	7.55	37.58	29.78	39.53	7.56	19.0	95.16	55.62	0.0	39.68	20.0	53.92
5.04	7.47	38.4	29.68	39.63	7.48	19.0	95.35	55.71	0.0	39.64	20.0	53.68
5.05	7.42	38.99	29.68	39.73	7.43	19.0	95.54	55.8	0.0	39.61	20.0	53.51
5.06	7.28	39.58	29.78	39.83	7.29	19.0	95.73	55.9	0.0	39.53	20.0	53.06
5.07	7.18	40.07	29.68	39.93	7.19	19.0	95.92	55.99	0.0	39.47	20.0	52.73
5.08	6.97	41.35	29.68	40.02	6.98	19.0	96.11	56.08	0.0	39.35	20.0	52.06
5.09	6.79	41.88	29.78	40.12	6.8	19.0	96.3	56.17	0.0	39.24	20.0	51.45
5.1	6.74	42.08	29.78	40.22	6.75	19.0	96.49	56.26	0.0	39.2	20.0	51.27
5.11	6.68	42.08	29.78	40.32	6.69	19.0	96.68	56.36	0.0	39.16	20.0	51.04
5.12	6.68	42.67	29.87	40.42	6.69	19.0	96.87	56.45	0.0	39.16	20.0	51.04
5.13	6.74	42.27	30.07	40.52	6.75	19.0	97.06	56.54	0.0	39.19	20.0	51.21
5.14	6.78	42.11	30.07	40.61	6.79	19.0	97.25	56.63	0.0	39.21	20.0	51.31
5.15	6.87	41.55	30.26	40.71	6.88	19.0	97.44	56.72	0.0	39.26	20.0	51.58
5.16	6.89	41.39	30.26	40.81	6.9	19.0	97.63	56.82	0.0	39.27	20.0	51.62
5.17	6.88	40.89	30.35	40.91	6.89	19.0	97.82	56.91	0.0	39.25	20.0	51.54
5.18	6.85	40.6	30.35	41.01	6.86	19.0	98.01	57.0	0.0	39.23	20.0	51.41
5.19	6.8	40.2	30.45	41.1	6.81	19.0	98.2	57.09	0.0	39.19	20.0	51.21
5.2	6.69	40.17	30.54	41.2	6.7	19.0	98.39	57.18	0.0	39.12	20.0	50.82
5.21	6.55	39.61	30.54	41.3	6.56	19.0	98.58	57.27	0.0	39.02	20.0	50.3
5.22	6.55	39.61	30.54	41.4	6.56	19.0	98.77	57.37	0.0	39.02	20.0	50.28
5.23	6.35	40.2	30.54	41.5	6.36	19.0	98.96	57.46	0.0	38.88	20.0	49.59
5.24	6.25	41.06	30.64	41.59	6.26	19.0	99.15	57.55	0.0	38.82	20.0	49.24
5.25	6.21	41.68	30.64	41.69	6.22	19.0	99.34	57.64	0.0	38.79	20.0	49.09
5.26	6.16	42.54	30.73	41.79	6.17	19.0	99.53	57.73	0.0	38.75	20.0	48.92
5.27	6.15	43.62	30.83	41.89	6.16	19.0	99.72	57.83	0.0	38.75	20.0	48.89
5.28	6.17	43.95	30.83	41.99	6.18	19.0	99.91	57.92	0.0	38.76	20.0	48.95
5.29	6.26	44.15	31.02	42.08	6.27	19.0	100.1	58.01	0.0	38.82	20.0	49.25
5.3	6.44	44.05	31.21	42.18	6.45	19.0	100.29	58.1	0.0	38.93	20.0	49.85
5.31	6.56	44.05	31.21	42.28	6.57	19.0	100.48	58.19	0.0	39.01	20.0	50.25
5.32	6.82	43.49	31.4	42.38	6.83	19.0	100.67	58.29	0.0	39.17	20.0	51.09
5.33	7.0	42.9	31.5	42.48	7.01	19.0	100.86	58.38	0.0	39.27	20.0	51.65
5.34	7.06	42.6	31.59	42.58	7.07	19.0	101.05	58.47	0.0	39.3	20.0	51.82
5.35	7.19	41.55	31.69	42.67	7.2	19.0	101.24	58.56	0.0	39.37	20.0	52.19
5.36	7.25	40.99	31.78	42.77	7.26	19.0	101.43	58.65	0.0	39.4	20.0	52.35
5.37	7.33	39.68	31.88	42.87	7.34	19.0	101.62	58.75	0.0	39.44	20.0	52.55
5.38	7.33	39.68	31.88	42.97	7.34	19.0	101.81	58.84	0.0	39.43	20.0	52.52
5.39	7.26	37.87	32.07	43.07	7.27	19.0	102.0	58.93	0.0	39.38	20.0	52.22
5.4	7.26	37.87	32.07	43.16	7.27	19.0	102.19	59.02	0.0	39.37	20.0	52.2
5.41	7.24	37.64	32.07	43.26	7.25	19.0	102.38	59.11	0.0	39.36	20.0	52.11
5.42	7.23	37.71	32.07	43.36	7.24	19.0	102.57	59.2	0.0	39.35	20.0	52.06
5.43	7.15	38.63	32.17	43.46	7.16	19.0	102.76	59.3	0.0	39.3	20.0	51.81
5.44	7.11	39.81	32.26	43.56	7.12	19.0	102.95	59.39	0.0	39.28	20.0	51.69
5.45	7.07	40.14	32.36	43.65	7.08	19.0	103.14	59.48	0.0	39.25	20.0	51.55
5.46	7.0	41.45	32.26	43.75	7.01	19.0	103.33	59.57	0.0	39.21	20.0	51.33
5.47	6.97	42.04	32.36	43.85	6.98	19.0	103.52	59.66	0.0	39.19	20.0	51.23
5.48	6.92	43.16	32.36	43.95	6.93	19.0	103.71	59.76	0.0	39.16	20.0	51.07
5.49	6.89	43.82	32.45	44.05	6.9	19.0	103.9	59.85	0.0	39.14	20.0	50.97
5.5	6.86	44.84	32.45	44.14	6.87	19.0	104.09	59.94	0.0	39.13	20.0	50.87
5.51	6.84	45.89	32.55	44.24	6.85	19.0	104.28	60.03	0.0	39.12	20.0	50.81
5.52	6.85	47.04	32.64	44.34	6.86	19.0	104.47	60.12	0.0	39.12	20.0	50.85
5.53	6.9	47.6	32.74	44.44	6.91	19.0	104.66	60.22	0.0	39.15	20.0	51.01
5.54	6.95	47.69	32.83	44.54	6.96	19.0	104.85	60.31	0.0	39.18	20.0	51.16
5.55	7.01	47.56	32.93	44.64	7.02	19.0	105.04	60.4	0.0	39.21	20.0	51.33
5.56	7.18	46.74	33.12	44.73	7.19	19.0	105.23	60.49	0.0	39.31	20.0	51.85
5.57	7.18	46.74	33.12	44.83	7.19	19.0	105.42	60.58	0.0	39.3	20.0	51.83
5.58	7.48	45.82	33.31	44.93	7.49	19.0	105.61	60.68	0.0	39.47	20.0	52.75
5.59	7.62	45.39	33.41	45.03	7.63	19.0	105.8	60.77	0.0	39.55	20.0	53.16
5.6	7.66	45.46	33.5	45.13	7.67	19.0	105.99	60.86	0.0	39.57	20.0	53.26
5.61	7.61	45.59	33.6	45.22	7.62	19.0	106.18	60.95	0.0	39.53	20.0	53.09
5.62	7.57	45.72	33.6	45.32	7.58	19.0	106.37	61.04	0.0	39.51	20.0	52.94
5.63	7.48	46.48	33.6	45.42	7.49	19.0	106.56	61.13	0.0	39.46	20.0	52.66
5.64	7.37	47.43	33.69	45.52	7.38	19.0	106.75	61.23	0.0	39.39	20.0	52.31
5.65	7.31	48.09	33.69	45.62	7.32	19.0	106.94	61.32	0.0	39.36	20.0	52.11
5.66	7.19	48.58	33.69	45.71	7.2	19.0	107.13	61.41	0.0	39.28	20.0	51.71

5.67	7.1	48.65	33.69	45.81	7.11	19.0	107.32	61.5	0.0	39.23	20.0	51.4
5.68	6.93	48.91	33.79	45.91	6.94	19.0	107.51	61.59	0.0	39.12	20.0	50.82
5.69	6.85	49.3	33.79	46.01	6.86	19.0	107.7	61.69	0.0	39.07	20.0	50.54
5.7	6.66	50.09	33.69	46.11	6.67	19.0	107.89	61.78	0.0	38.94	20.0	49.9
5.71	6.48	50.91	33.79	46.21	6.49	19.0	108.08	61.87	0.0	38.82	20.0	49.28
5.72	6.4	50.91	33.98	46.3	6.41	19.0	108.27	61.96	0.0	38.77	20.0	48.98
5.73	6.41	50.55	34.17	46.4	6.42	19.0	108.46	62.05	0.0	38.77	20.0	48.99
5.74	6.5	49.76	34.36	46.5	6.51	19.0	108.65	62.15	0.0	38.82	20.0	49.26
5.75	6.75	49.5	34.46	46.6	6.76	19.0	108.84	62.24	0.0	38.98	20.0	50.08
5.76	6.9	49.27	34.46	46.7	6.91	19.0	109.03	62.33	0.0	39.07	20.0	50.56
5.77	7.21	48.84	34.65	46.79	7.22	19.0	109.22	62.42	0.0	39.25	20.0	51.55
5.78	7.4	48.91	34.74	46.89	7.41	19.0	109.41	62.51	0.0	39.36	20.0	52.14
5.79	7.86	47.73	34.93	46.99	7.87	19.0	109.6	62.61	0.0	39.62	20.0	53.54
5.8	8.42	45.62	35.12	47.09	8.43	19.0	109.79	62.7	0.0	39.9	20.0	55.17
5.81	8.69	44.97	35.32	47.19	8.7	19.0	109.98	62.79	0.0	40.03	20.0	55.93
5.82	9.26	43.65	35.6	47.28	9.27	19.5	110.17	62.89	0.0	40.3	20.0	57.51
5.83	9.72	42.57	35.79	47.38	9.73	19.5	110.37	62.98	0.0	40.5	20.0	58.74
5.84	10.07	41.45	35.89	47.48	10.08	19.5	110.56	63.08	0.0	40.65	20.0	59.64
5.85	10.21	40.93	35.89	47.58	10.22	19.5	110.76	63.18	0.0	40.7	20.0	59.98
5.86	10.34	41.42	35.98	47.68	10.35	19.5	110.95	63.27	0.0	40.75	20.0	60.32
5.87	10.41	41.72	36.08	47.77	10.42	19.5	111.15	63.37	0.0	40.78	20.0	60.49
5.88	10.5	42.5	36.27	47.87	10.51	19.5	111.34	63.47	0.0	40.82	20.0	60.73
5.89	10.52	43.33	36.37	47.97	10.53	19.5	111.54	63.56	0.0	40.83	20.0	60.78
5.9	10.49	45.26	36.37	48.07	10.5	19.5	111.73	63.66	0.0	40.82	20.0	60.73
5.91	10.59	47.6	36.56	48.17	10.6	19.5	111.93	63.76	0.0	40.87	20.0	61.03
5.92	10.68	49.8	36.65	48.27	10.69	19.5	112.12	63.85	0.0	40.91	20.0	61.3
5.93	10.69	51.18	36.75	48.36	10.7	19.5	112.32	63.95	0.0	40.91	20.0	61.34
5.94	10.69	51.18	36.75	48.46	10.7	19.5	112.51	64.05	0.0	40.91	20.0	61.31
5.95	10.69	51.18	36.75	48.56	10.7	19.5	112.71	64.15	0.0	40.91	20.0	61.29
5.96	10.6	41.75	38.94	48.66	10.61	19.5	112.9	64.24	0.0	40.83	20.0	60.8
5.97	10.64	43.19	38.94	48.76	10.65	19.5	113.1	64.34	0.0	40.85	20.0	60.92
5.98	10.61	45.66	39.13	48.85	10.62	19.5	113.29	64.44	0.0	40.84	20.0	60.89
5.99	10.65	49.11	39.23	48.95	10.66	19.5	113.49	64.53	0.0	40.87	20.0	61.05
6.0	10.66	49.76	39.23	49.05	10.67	19.5	113.68	64.63	0.0	40.87	20.0	61.07
6.01	10.55	51.8	39.23	49.15	10.56	19.5	113.88	64.73	0.0	40.83	20.0	60.81
6.02	10.49	54.85	39.52	49.25	10.5	19.5	114.07	64.82	0.0	40.81	20.0	60.7
6.03	10.42	55.15	39.71	49.34	10.43	19.5	114.27	64.92	0.0	40.78	20.0	60.5
6.04	10.38	55.61	39.71	49.44	10.39	19.5	114.46	65.02	0.0	40.76	20.0	60.38
6.05	10.37	55.81	39.71	49.54	10.38	19.5	114.66	65.11	0.0	40.76	20.0	60.33
6.06	10.32	56.17	39.8	49.64	10.33	19.5	114.85	65.21	0.0	40.73	20.0	60.19
6.07	10.35	57.75	39.9	49.74	10.36	19.5	115.05	65.31	0.0	40.75	20.0	60.28
6.08	10.37	58.24	39.9	49.83	10.38	19.5	115.24	65.41	0.0	40.75	20.0	60.32
6.09	10.33	59.16	40.09	49.93	10.34	19.5	115.44	65.5	0.0	40.74	20.0	60.21
6.1	10.33	60.57	40.28	50.03	10.34	19.5	115.63	65.6	0.0	40.74	20.0	60.21
6.11	10.29	60.73	40.28	50.13	10.3	19.5	115.83	65.7	0.0	40.72	20.0	60.09
6.12	10.27	61.79	40.37	50.23	10.28	19.5	116.02	65.79	0.0	40.71	20.0	60.03
6.13	10.26	61.72	40.57	50.33	10.27	19.5	116.22	65.89	0.0	40.7	20.0	59.98
6.14	10.27	62.64	40.66	50.42	10.28	19.5	116.41	65.99	0.0	40.7	20.0	60.0
6.15	10.28	62.57	40.76	50.52	10.29	19.5	116.61	66.08	0.0	40.71	20.0	60.01
6.16	10.38	61.62	40.95	50.62	10.39	19.5	116.8	66.18	0.0	40.74	20.0	60.23
6.17	10.44	61.52	41.04	50.72	10.45	19.5	117.0	66.28	0.0	40.76	20.0	60.37
6.18	10.58	61.29	41.14	50.82	10.59	19.5	117.19	66.37	0.0	40.82	20.0	60.71
6.19	10.65	61.06	41.33	50.91	10.66	19.5	117.39	66.47	0.0	40.84	20.0	60.87
6.2	10.66	61.19	41.42	51.01	10.67	19.5	117.58	66.57	0.0	40.84	20.0	60.88
6.21	10.62	61.23	41.52	51.11	10.63	19.5	117.78	66.66	0.0	40.82	20.0	60.75
6.22	10.45	62.34	41.61	51.21	10.46	19.5	117.97	66.76	0.0	40.75	20.0	60.3
6.23	10.23	63.1	41.61	51.31	10.24	19.5	118.17	66.86	0.0	40.66	20.0	59.71
6.24	10.12	63.63	41.61	51.4	10.13	19.5	118.36	66.96	0.0	40.61	20.0	59.4
6.25	9.9	64.61	41.71	51.5	9.91	19.5	118.56	67.05	0.0	40.51	20.0	58.8
6.26	9.78	65.2	41.71	51.6	9.79	19.0	118.74	67.14	0.0	40.46	20.0	58.46
6.27	9.61	66.68	41.81	51.7	9.62	19.0	118.94	67.24	0.0	40.38	20.0	57.99
6.28	9.55	67.14	41.81	51.8	9.56	19.0	119.13	67.33	0.0	40.35	20.0	57.81
6.29	9.4	67.63	41.9	51.89	9.41	19.0	119.32	67.42	0.0	40.28	20.0	57.38
6.3	9.22	68.52	41.9	51.99	9.23	19.0	119.51	67.51	0.0	40.19	20.0	56.86
6.31	8.97	69.24	41.9	52.09	8.98	19.0	119.7	67.6	0.0	40.07	20.0	56.14
6.32	8.82	69.87	42.0	52.19	8.83	19.0	119.89	67.7	0.0	39.99	20.0	55.69
6.33	8.49	70.95	42.0	52.29	8.5	19.0	120.08	67.79	0.0	39.82	20.0	54.71
6.34	8.09	70.95	41.9	52.39	8.1	19.0	120.27	67.88	0.0	39.61	20.0	53.49
6.35	7.86	70.92	41.9	52.48	7.87	19.0	120.46	67.97	0.0	39.48	20.0	52.76
6.36	7.36	70.39	41.81	52.58	7.37	19.0	120.65	68.06	0.0	39.18	20.0	51.15
6.37	7.11	70.42	41.71	52.68	7.12	19.0	120.84	68.16	0.0	39.02	20.0	50.32
6.38	6.62	70.59	41.61	52.78	6.63	19.0	121.03	68.25	0.0	38.7	20.0	48.66
6.39	6.41	70.56	41.61	52.88	6.42	18.5	121.21	68.33	0.0	38.56	20.0	47.92

6.4	6.04	69.77	41.61	52.97	6.05	18.5	121.4	68.42	0.0	38.29	20.0	46.58
6.41	5.78	68.58	41.61	53.07	5.79	18.5	121.58	68.51	0.0	38.08	20.0	45.6
6.42	5.68	66.65	41.81	53.17	5.69	18.5	121.77	68.59	0.0	38.0	20.0	45.19
6.43	5.67	65.56	41.9	53.27	5.68	18.5	121.95	68.68	0.0	37.98	20.0	45.12
6.44	5.81	63.17	42.09	53.37	5.82	18.5	122.14	68.77	0.0	38.08	20.0	45.58
6.45	6.07	60.64	42.38	53.46	6.08	19.0	122.33	68.86	0.0	38.26	20.0	46.47
6.46	6.22	59.12	42.47	53.56	6.23	19.0	122.52	68.95	0.0	38.36	20.0	46.96
6.47	6.45	55.48	42.09	53.66	6.46	19.0	122.71	69.04	0.0	38.51	20.0	47.69
6.48	6.47	53.77	40.66	53.76	6.48	19.0	122.9	69.14	0.0	38.51	20.0	47.71
6.49	6.35	51.57	35.6	53.86	6.36	19.0	123.09	69.23	0.0	38.42	20.0	47.24
6.5	6.22	47.89	32.26	53.96	6.23	19.0	123.28	69.32	0.0	38.31	20.0	46.7
6.51	6.11	45.46	31.21	54.05	6.12	19.0	123.47	69.41	0.0	38.22	20.0	46.25
6.52	5.84	41.19	31.02	54.15	5.85	19.0	123.66	69.5	0.0	38.0	20.0	45.19
6.53	5.61	36.99	30.92	54.25	5.62	19.0	123.85	69.6	0.0	37.8	20.0	44.26
6.54	5.49	34.69	31.02	54.35	5.5	19.0	124.04	69.69	0.0	37.69	20.0	43.75
6.55	5.25	32.39	31.4	54.45	5.26	19.0	124.23	69.78	0.0	37.47	20.0	42.78
6.56	4.96	31.57	31.78	54.54	4.97	19.0	124.42	69.87	0.0	37.21	20.0	41.61
6.57	4.76	31.24	32.07	54.64	4.77	19.0	124.61	69.96	0.0	37.02	20.0	40.79
6.58	4.32	31.07	32.64	54.74	4.33	18.5	124.79	70.05	0.0	36.57	20.0	38.95
6.59	4.1	31.27	32.93	54.84	4.11	18.5	124.98	70.14	0.0	36.34	20.0	37.98
6.6	3.64	32.91	33.41	54.94	3.65	18.5	125.16	70.22	0.0	35.8	20.0	35.91
6.61	3.44	34.36	33.79	55.03	3.45	18.5	125.35	70.31	0.0	35.54	20.0	34.96
6.62	3.15	37.15	34.74	55.13	3.16	18.5	125.53	70.4	0.0	35.15	20.0	33.55
6.63	3.07	39.98	35.7	55.23	3.08	18.5	125.72	70.48	0.0	35.04	20.0	33.17
6.64	3.16	41.68	36.46	55.33	3.17	18.5	125.9	70.57	0.0	35.18	20.0	33.64
6.65	3.52	43.1	37.89	55.43	3.53	18.5	126.09	70.66	0.0	35.67	20.0	35.42
6.66	4.13	41.45	38.94	55.52	4.14	18.5	126.27	70.75	0.0	36.38	20.0	38.18
6.67	4.44	40.17	39.8	55.62	4.45	18.5	126.46	70.83	0.0	36.7	20.0	39.47
6.68	4.45	40.27	40.37	55.72	4.46	18.5	126.64	70.92	0.0	36.71	20.0	39.5
6.69	4.33	38.5	41.42	55.82	4.34	18.5	126.83	71.01	0.0	36.58	20.0	38.95
6.7	4.21	36.95	46.58	55.92	4.22	18.5	127.01	71.09	0.0	36.44	20.0	38.4
6.71	3.97	34.06	50.59	56.02	3.98	18.5	127.2	71.18	0.0	36.16	20.0	37.28
6.72	3.86	32.78	51.83	56.11	3.87	18.5	127.38	71.27	0.0	36.02	20.0	36.75
6.73	3.77	31.17	51.92	56.21	3.78	18.5	127.57	71.35	0.0	35.9	20.0	36.3
6.74	3.97	29.69	52.5	56.31	3.98	18.5	127.75	71.44	0.0	36.13	20.0	37.16
6.75	4.14	28.58	52.78	56.41	4.15	18.5	127.94	71.53	0.0	36.31	20.0	37.87
6.76	4.45	27.79	52.97	56.51	4.46	19.0	128.13	71.62	0.0	36.63	20.0	39.17
6.77	4.62	25.79	53.55	56.6	4.63	19.0	128.32	71.71	0.0	36.79	20.0	39.81
6.78	4.63	26.05	53.26	56.7	4.64	19.0	128.51	71.8	0.0	36.79	20.0	39.84
6.79	4.64	26.28	45.24	56.8	4.65	19.0	128.7	71.9	0.0	36.8	20.0	39.87
6.8	4.62	25.52	20.62	56.9	4.62	19.0	128.89	71.99	0.0	36.77	20.0	39.73
6.81	4.63	23.85	16.61	57.0	4.63	19.0	129.08	72.08	0.0	36.76	20.0	39.72
6.82	4.6	21.38	14.41	57.09	4.6	19.0	129.27	72.17	0.0	36.72	20.0	39.52
6.83	4.58	20.86	14.51	57.19	4.58	19.0	129.46	72.26	0.0	36.69	20.0	39.42
6.84	4.5	19.74	15.27	57.29	4.5	19.0	129.65	72.35	0.0	36.6	20.0	39.04
6.85	4.37	19.61	15.94	57.39	4.37	19.0	129.84	72.45	0.0	36.46	20.0	38.48
6.86	4.03	20.83	29.3	57.49	4.04	18.5	130.02	72.53	0.0	36.1	20.0	37.04
6.87	3.8	21.91	36.08	57.58	3.81	18.5	130.21	72.62	0.0	35.83	20.0	36.03
6.88	3.77	22.6	37.99	57.68	3.78	18.5	130.39	72.71	0.0	35.79	20.0	35.89
6.89	3.83	24.14	39.61	57.78	3.84	18.5	130.58	72.79	0.0	35.87	20.0	36.18
6.9	3.94	25.95	40.37	57.88	3.95	18.5	130.76	72.88	0.0	36.01	20.0	36.7
6.91	4.11	26.51	41.14	57.98	4.12	18.5	130.95	72.97	0.0	36.2	20.0	37.44
6.92	4.18	26.47	41.52	58.08	4.19	18.5	131.13	73.05	0.0	36.27	20.0	37.73
6.93	4.44	27.33	41.81	58.17	4.45	19.0	131.32	73.15	0.0	36.55	20.0	38.84
6.94	4.44	27.33	41.81	58.27	4.45	19.0	131.51	73.24	0.0	36.54	20.0	38.82
6.95	4.44	27.33	41.81	58.37	4.45	19.0	131.7	73.33	0.0	36.54	20.0	38.81
6.96	6.06	16.06	40.28	58.47	6.07	19.0	131.89	73.42	0.0	37.9	20.0	44.73
6.97	6.92	16.1	36.75	58.57	6.93	19.0	132.08	73.51	0.0	38.5	20.0	47.64
6.98	7.62	17.57	34.74	58.66	7.63	19.0	132.27	73.61	0.0	38.94	20.0	49.89
6.99	7.89	17.97	32.83	58.76	7.9	19.5	132.47	73.7	0.0	39.1	20.0	50.72
7.0	8.23	19.02	23.1	58.86	8.23	19.5	132.66	73.8	0.0	39.29	20.0	51.75
7.01	8.36	19.81	20.52	58.96	8.36	19.5	132.86	73.9	0.0	39.36	20.0	52.14
7.02	8.4	21.88	17.37	59.06	8.4	19.5	133.05	73.99	0.0	39.39	20.0	52.29
7.03	8.37	22.17	17.75	59.15	8.37	19.5	133.25	74.09	0.0	39.37	20.0	52.19
7.04	8.39	19.87	18.61	59.25	8.39	19.5	133.44	74.19	0.0	39.37	20.0	52.18
7.05	8.38	20.79	19.95	59.35	8.38	19.5	133.64	74.28	0.0	39.36	20.0	52.15
7.06	8.29	22.04	21.57	59.45	8.29	19.5	133.83	74.38	0.0	39.32	20.0	51.9
7.07	8.21	23.68	22.62	59.55	8.21	19.5	134.03	74.48	0.0	39.28	20.0	51.68
7.08	7.96	28.02	27.49	59.64	7.97	19.0	134.22	74.57	0.0	39.15	20.0	51.0
7.09	7.61	31.8	34.55	59.74	7.62	19.0	134.41	74.66	0.0	38.96	20.0	49.99
7.1	7.4	33.34	38.08	59.84	7.41	19.0	134.6	74.75	0.0	38.83	20.0	49.34
7.11	6.9	35.9	40.76	59.94	6.91	19.0	134.79	74.85	0.0	38.52	20.0	47.75
7.12	6.67	37.84	41.81	60.04	6.68	19.0	134.98	74.94	0.0	38.37	20.0	47.0

7.13	6.12	43.88	43.52	60.14	6.13	19.0	135.17	75.03	0.0	37.99	20.0	45.19
7.14	5.83	47.04	44.86	60.23	5.84	19.0	135.36	75.12	0.0	37.78	20.0	44.18
7.15	5.29	52.79	47.06	60.33	5.3	18.5	135.54	75.21	0.0	37.35	20.0	42.22
7.16	4.77	55.81	48.68	60.43	4.78	18.5	135.73	75.3	0.0	36.88	20.0	40.2
7.17	4.56	57.94	49.92	60.53	4.57	18.5	135.91	75.38	0.0	36.67	20.0	39.35
7.18	4.39	63.23	52.02	60.63	4.4	18.5	136.1	75.47	0.0	36.51	20.0	38.67
7.19	4.58	66.88	54.31	60.72	4.59	18.5	136.28	75.56	0.0	36.71	20.0	39.48
7.2	5.17	68.29	55.84	60.82	5.18	18.5	136.47	75.64	0.0	37.26	20.0	41.84
7.21	5.49	68.22	56.31	60.92	5.5	18.5	136.65	75.73	0.0	37.53	20.0	43.04
7.22	5.97	67.24	56.79	61.02	5.98	18.5	136.84	75.82	0.0	37.91	20.0	44.78
7.23	6.14	65.99	56.31	61.12	6.15	18.5	137.02	75.9	0.0	38.03	20.0	45.35
7.24	6.26	62.34	53.26	61.21	6.27	19.0	137.21	76.0	0.0	38.11	20.0	45.72
7.25	6.23	60.73	51.16	61.31	6.24	19.0	137.4	76.09	0.0	38.08	20.0	45.57
7.26	6.08	57.61	48.2	61.41	6.09	19.0	137.59	76.18	0.0	37.95	20.0	44.99
7.27	5.87	54.95	46.77	61.51	5.88	19.0	137.78	76.27	0.0	37.78	20.0	44.2
7.28	5.8	53.31	46.77	61.61	5.81	19.0	137.97	76.36	0.0	37.72	20.0	43.91
7.29	5.71	48.98	47.25	61.7	5.72	19.0	138.16	76.46	0.0	37.64	20.0	43.52
7.3	5.68	44.61	48.2	61.8	5.69	19.0	138.35	76.55	0.0	37.6	20.0	43.34
7.31	5.65	42.31	48.58	61.9	5.66	19.0	138.54	76.64	0.0	37.56	20.0	43.18
7.32	5.58	38.6	49.16	62.0	5.59	19.0	138.73	76.73	0.0	37.49	20.0	42.86
7.33	5.44	36.76	49.73	62.1	5.45	19.0	138.92	76.82	0.0	37.36	20.0	42.3
7.34	5.34	36.43	50.01	62.2	5.35	19.0	139.11	76.91	0.0	37.27	20.0	41.91
7.35	5.11	35.74	50.49	62.29	5.12	19.0	139.3	77.01	0.0	37.07	20.0	41.0
7.36	4.97	35.05	50.78	62.39	4.98	19.0	139.49	77.1	0.0	36.93	20.0	40.43
7.37	4.65	32.52	51.06	62.49	4.66	19.0	139.68	77.19	0.0	36.61	20.0	39.1
7.38	4.48	31.47	51.26	62.59	4.49	18.5	139.87	77.28	0.0	36.43	20.0	38.38
7.39	4.13	30.91	51.54	62.69	4.14	18.5	140.05	77.36	0.0	36.05	20.0	36.87
7.4	3.8	30.02	51.92	62.78	3.81	18.5	140.24	77.45	0.0	35.66	20.0	35.38
7.41	3.53	27.26	52.4	62.88	3.54	18.5	140.42	77.54	0.0	35.3	20.0	34.08
7.42	3.44	27.07	52.59	62.98	3.45	18.5	140.61	77.62	0.0	35.17	20.0	33.64
7.43	3.32	27.1	53.35	63.08	3.33	18.5	140.79	77.71	0.0	35.0	20.0	33.04
7.44	3.34	26.93	54.31	63.18	3.35	18.5	140.98	77.8	0.0	35.03	20.0	33.13
7.45	3.43	26.7	54.98	63.27	3.44	18.5	141.16	77.89	0.0	35.15	20.0	33.54
7.46	3.81	25.72	55.93	63.37	3.82	18.5	141.35	77.97	0.0	35.63	20.0	35.29
7.47	4.13	24.83	56.6	63.47	4.14	18.5	141.53	78.06	0.0	36.0	20.0	36.67
7.48	5.1	23.32	58.03	63.57	5.11	19.0	141.72	78.15	0.0	36.97	20.0	40.59
7.49	5.65	22.37	58.7	63.67	5.66	19.0	141.91	78.24	0.0	37.44	20.0	42.62
7.5	6.58	20.56	59.46	63.76	6.59	19.0	142.1	78.34	0.0	38.13	20.0	45.83
7.51	7.04	19.64	59.75	63.86	7.05	19.0	142.29	78.43	0.0	38.43	20.0	47.32
7.52	7.12	19.31	59.75	63.96	7.13	19.0	142.48	78.52	0.0	38.48	20.0	47.55
7.53	7.18	19.25	59.75	64.06	7.19	19.0	142.67	78.61	0.0	38.52	20.0	47.73
7.54	7.19	20.04	59.85	64.16	7.2	19.0	142.86	78.7	0.0	38.52	20.0	47.76
7.55	7.24	21.35	60.04	64.26	7.25	19.0	143.05	78.79	0.0	38.56	20.0	47.93
7.56	7.28	22.07	60.04	64.35	7.29	19.0	143.24	78.89	0.0	38.58	20.0	48.06
7.57	7.31	25.33	60.04	64.45	7.32	19.0	143.43	78.98	0.0	38.61	20.0	48.19
7.58	7.35	26.97	60.13	64.55	7.36	19.0	143.62	79.07	0.0	38.64	20.0	48.33
7.59	7.38	29.76	60.23	64.65	7.39	19.0	143.81	79.16	0.0	38.66	20.0	48.46
7.6	7.39	31.27	60.32	64.75	7.4	19.0	144.0	79.25	0.0	38.67	20.0	48.49
7.61	7.41	34.33	60.7	64.84	7.42	19.0	144.19	79.35	0.0	38.69	20.0	48.58
7.62	7.45	37.08	60.99	64.94	7.46	19.0	144.38	79.44	0.0	38.72	20.0	48.73
7.63	7.46	38.23	61.09	65.04	7.47	19.0	144.57	79.53	0.0	38.72	20.0	48.76
7.64	7.5	40.57	61.37	65.14	7.51	19.0	144.76	79.62	0.0	38.75	20.0	48.9
7.65	7.55	42.6	61.56	65.24	7.56	19.0	144.95	79.71	0.0	38.78	20.0	49.07
7.66	7.56	43.62	61.66	65.33	7.57	19.0	145.14	79.81	0.0	38.79	20.0	49.09
7.67	7.55	45.36	61.85	65.43	7.56	19.0	145.33	79.9	0.0	38.78	20.0	49.07
7.68	7.52	46.74	61.95	65.53	7.53	19.0	145.52	79.99	0.0	38.76	20.0	48.97
7.69	7.51	47.04	62.04	65.63	7.52	19.0	145.71	80.08	0.0	38.75	20.0	48.93
7.7	7.47	48.06	62.14	65.73	7.48	19.0	145.9	80.17	0.0	38.73	20.0	48.79
7.71	7.43	48.02	62.14	65.83	7.44	19.0	146.09	80.26	0.0	38.7	20.0	48.65
7.72	7.32	47.53	62.23	65.92	7.33	19.0	146.28	80.36	0.0	38.63	20.0	48.28
7.73	7.22	47.3	62.23	66.02	7.23	19.0	146.47	80.45	0.0	38.56	20.0	47.94
7.74	6.91	47.53	62.04	66.12	6.92	19.0	146.66	80.54	0.0	38.35	20.0	46.92
7.75	6.51	48.35	61.95	66.22	6.52	19.0	146.85	80.63	0.0	38.08	20.0	45.58
7.76	6.28	48.98	61.85	66.32	6.29	19.0	147.04	80.72	0.0	37.91	20.0	44.78
7.77	5.86	50.19	61.75	66.41	5.87	19.0	147.23	80.82	0.0	37.59	20.0	43.29
7.78	5.47	51.41	61.66	66.51	5.48	18.5	147.42	80.9	0.0	37.26	20.0	41.86
7.79	5.08	52.29	61.66	66.61	5.09	18.5	147.6	80.99	0.0	36.91	20.0	40.33
7.8	4.91	52.65	61.66	66.71	4.92	18.5	147.79	81.08	0.0	36.75	20.0	39.66
7.81	4.59	52.33	61.66	66.81	4.6	18.5	147.97	81.16	0.0	36.43	20.0	38.36
7.82	4.46	52.23	61.66	66.9	4.47	18.5	148.16	81.25	0.0	36.29	20.0	37.8
7.83	4.29	51.47	61.95	67.0	4.3	18.5	148.34	81.34	0.0	36.1	20.0	37.07
7.84	4.23	51.47	62.04	67.1	4.24	18.5	148.53	81.42	0.0	36.03	20.0	36.8
7.85	4.21	50.75	62.52	67.2	4.22	18.5	148.71	81.51	0.0	36.01	20.0	36.7

7.86	4.22	50.09	62.71	67.3	4.23	18.5	148.9	81.6	0.0	36.01	20.0	36.72
7.87	4.29	47.6	62.8	67.39	4.3	18.5	149.08	81.69	0.0	36.08	20.0	36.98
7.88	4.27	43.75	62.04	67.49	4.28	18.5	149.27	81.77	0.0	36.05	20.0	36.85
7.89	4.21	41.75	60.99	67.59	4.22	18.5	149.45	81.86	0.0	35.97	20.0	36.57
7.9	4.05	38.0	58.32	67.69	4.06	18.5	149.64	81.95	0.0	35.78	20.0	35.83
7.91	3.81	33.77	55.84	67.79	3.82	18.5	149.82	82.03	0.0	35.47	20.0	34.71
7.92	3.49	30.48	54.69	67.89	3.5	18.5	150.01	82.12	0.0	35.05	20.0	33.19
7.93	3.32	29.6	54.5	67.98	3.33	18.5	150.19	82.21	0.0	34.8	20.0	32.35
7.94	3.32	29.6	54.5	68.08	3.33	18.5	150.38	82.29	0.0	34.8	20.0	32.34
7.95	3.32	29.6	54.5	68.18	3.33	18.5	150.56	82.38	0.0	34.8	20.0	32.33
7.96	1.92	18.2	58.6	68.28	1.93	18.0	150.74	82.46	0.0	32.11	20.0	24.41
7.97	1.8	20.37	58.6	68.38	1.81	18.0	150.92	82.54	0.0	31.8	20.0	23.62
7.98	1.57	24.24	58.8	68.47	1.58	18.0	151.1	82.63	102.19	0.0	20.0	0.0
7.99	1.35	30.55	59.65	68.57	1.36	18.0	151.28	82.71	86.47	0.0	20.0	0.0
8.0	1.13	39.81	63.09	68.67	1.14	18.0	151.46	82.79	70.8	0.0	20.0	0.0
8.01	1.07	40.99	67.29	68.77	1.08	17.5	151.64	82.87	66.56	0.0	20.0	0.0
8.02	1.03	42.83	76.74	68.87	1.05	17.5	151.81	82.94	63.82	0.0	20.0	0.0
8.03	1.02	43.79	83.23	68.96	1.04	17.5	151.99	83.02	63.19	0.0	20.0	0.0
8.04	0.98	43.72	101.36	69.06	1.0	17.5	152.16	83.1	60.58	0.0	20.0	0.0
8.05	0.96	43.33	128.85	69.16	0.99	17.5	152.34	83.17	59.53	0.0	20.0	0.0
8.06	1.0	40.37	179.92	69.26	1.04	17.5	152.51	83.25	63.11	0.0	30.5	0.0
8.07	1.32	35.64	211.42	69.36	1.36	18.0	152.69	83.33	86.4	0.0	33.14	0.0
8.08	1.59	34.23	214.18	69.45	1.63	18.0	152.87	83.42	105.71	0.0	20.0	0.0
8.09	2.23	30.22	215.81	69.55	2.27	18.0	153.05	83.5	0.0	32.9	20.0	26.51
8.1	2.78	25.88	185.55	69.65	2.82	18.5	153.24	83.58	0.0	33.93	20.0	29.52
8.11	2.98	23.58	91.82	69.75	3.0	18.5	153.42	83.67	0.0	34.22	20.0	30.43
8.12	3.0	22.83	68.15	69.85	3.01	18.5	153.61	83.76	0.0	34.23	20.0	30.48
8.13	2.93	18.59	53.16	69.95	2.94	18.5	153.79	83.84	0.0	34.1	20.0	30.05
8.14	2.85	15.31	53.45	70.04	2.86	18.5	153.98	83.93	0.0	33.95	20.0	29.58
8.15	2.65	12.68	55.84	70.14	2.66	18.5	154.16	84.02	0.0	33.58	20.0	28.47
8.16	2.57	10.77	56.6	70.24	2.58	18.5	154.35	84.11	0.0	33.42	20.0	27.99
8.17	2.43	7.59	62.14	70.34	2.44	18.5	154.53	84.19	0.0	33.13	20.0	27.14
8.18	2.38	6.5	68.91	70.44	2.39	18.5	154.72	84.28	0.0	33.02	20.0	26.83
8.19	2.3	5.06	83.52	70.53	2.32	18.5	154.9	84.37	0.0	32.84	20.0	26.34
8.2	2.29	5.12	100.22	70.63	2.31	18.5	155.09	84.45	0.0	32.82	20.0	26.3
8.21	2.43	6.57	113.87	70.73	2.45	18.5	155.27	84.54	0.0	33.12	20.0	27.14
8.22	2.57	7.85	115.59	70.83	2.59	18.5	155.46	84.63	0.0	33.4	20.0	27.94
8.23	2.97	10.81	111.2	70.93	2.99	18.5	155.64	84.71	0.0	34.11	20.0	30.09
8.24	3.35	15.77	99.17	71.02	3.37	18.5	155.83	84.8	0.0	34.7	20.0	32.02
8.25	3.45	20.1	82.47	71.12	3.47	18.5	156.01	84.89	0.0	34.85	20.0	32.52
8.26	3.53	24.7	44.67	71.22	3.54	18.5	156.2	84.97	0.0	34.96	20.0	32.89
8.27	3.56	26.44	31.31	71.32	3.57	18.5	156.38	85.06	0.0	35.0	20.0	33.02
8.28	3.59	27.43	19.66	71.42	3.59	18.5	156.57	85.15	0.0	35.03	20.0	33.15
8.29	3.62	27.39	20.71	71.51	3.62	18.5	156.75	85.24	0.0	35.07	20.0	33.27
8.3	3.77	24.6	26.82	71.61	3.78	18.5	156.94	85.32	0.0	35.26	20.0	33.92
8.31	4.03	18.16	28.54	71.71	4.04	19.0	157.13	85.41	0.0	35.55	20.0	34.99
8.32	4.19	17.61	29.11	71.81	4.2	19.0	157.32	85.51	0.0	35.73	20.0	35.66
8.33	4.68	18.33	29.4	71.91	4.69	19.0	157.51	85.6	0.0	36.26	20.0	37.68
8.34	5.23	21.38	26.82	72.01	5.24	19.0	157.7	85.69	0.0	36.79	20.0	39.84
8.35	5.48	24.5	23.0	72.1	5.48	19.0	157.89	85.78	0.0	37.02	20.0	40.79
8.36	5.98	30.42	14.22	72.2	5.98	19.0	158.08	85.87	0.0	37.44	20.0	42.63
8.37	6.4	33.18	9.64	72.3	6.4	19.0	158.27	85.97	0.0	37.76	20.0	44.09
8.38	6.56	34.03	11.55	72.4	6.56	19.0	158.46	86.06	0.0	37.88	20.0	44.63
8.39	6.77	33.18	51.26	72.5	6.78	19.0	158.65	86.15	0.0	38.03	20.0	45.33
8.4	6.83	32.75	54.02	72.59	6.84	19.0	158.84	86.24	0.0	38.06	20.0	45.51
8.41	6.94	34.95	56.7	72.69	6.95	19.0	159.03	86.33	0.0	38.14	20.0	45.88
8.42	7.04	36.3	56.98	72.79	7.05	19.0	159.22	86.42	0.0	38.21	20.0	46.2
8.43	7.28	37.48	58.6	72.89	7.29	19.0	159.41	86.52	0.0	38.36	20.0	46.97
8.44	7.49	39.61	59.65	72.99	7.5	19.0	159.6	86.61	0.0	38.5	20.0	47.63
8.45	7.6	40.57	60.04	73.08	7.61	19.0	159.79	86.7	0.0	38.57	20.0	47.97
8.46	7.79	42.57	60.42	73.18	7.8	19.0	159.98	86.79	0.0	38.68	20.0	48.56
8.47	7.94	45.1	60.8	73.28	7.95	19.0	160.17	86.88	0.0	38.77	20.0	49.02
8.48	8.0	46.38	61.09	73.38	8.01	19.0	160.36	86.98	0.0	38.81	20.0	49.19
8.49	8.11	47.96	62.04	73.48	8.12	19.0	160.55	87.07	0.0	38.87	20.0	49.52
8.5	8.29	48.45	63.09	73.58	8.3	19.0	160.74	87.16	0.0	38.97	20.0	50.05
8.51	8.4	48.09	63.47	73.67	8.41	19.0	160.93	87.25	0.0	39.03	20.0	50.36
8.52	8.62	47.89	63.85	73.77	8.63	19.0	161.12	87.34	0.0	39.15	20.0	50.98
8.53	8.72	48.84	64.05	73.87	8.73	19.0	161.31	87.44	0.0	39.2	20.0	51.27
8.54	8.92	50.45	64.43	73.97	8.93	19.0	161.5	87.53	0.0	39.31	20.0	51.84
8.55	8.99	50.42	64.62	74.07	9.0	19.0	161.69	87.62	0.0	39.34	20.0	52.02
8.56	9.12	52.42	65.0	74.16	9.13	19.0	161.88	87.71	0.0	39.41	20.0	52.39
8.57	9.19	55.54	65.38	74.26	9.2	19.0	162.07	87.8	0.0	39.44	20.0	52.59
8.58	9.2	57.25	65.57	74.36	9.21	19.0	162.26	87.9	0.0	39.45	20.0	52.61

8.59	9.22	60.47	65.76	74.46	9.23	19.0	162.45	87.99	0.0	39.46	20.0	52.67
8.6	9.28	63.49	66.05	74.56	9.29	19.0	162.64	88.08	0.0	39.49	20.0	52.84
8.61	9.32	65.37	66.24	74.65	9.33	19.0	162.83	88.17	0.0	39.51	20.0	52.95
8.62	9.34	66.91	66.43	74.75	9.35	19.0	163.02	88.26	0.0	39.52	20.0	53.0
8.63	9.4	70.42	66.72	74.85	9.41	19.0	163.21	88.35	0.0	39.55	20.0	53.17
8.64	9.44	72.1	66.81	74.95	9.45	19.0	163.4	88.45	0.0	39.57	20.0	53.27
8.65	9.55	75.09	67.1	75.05	9.56	19.0	163.59	88.54	0.0	39.62	20.0	53.58
8.66	9.58	76.07	67.29	75.14	9.59	19.0	163.78	88.63	0.0	39.63	20.0	53.65
8.67	9.67	78.8	67.77	75.24	9.68	19.0	163.97	88.72	0.0	39.68	20.0	53.89
8.68	9.7	80.15	67.96	75.34	9.71	19.0	164.16	88.81	0.0	39.69	20.0	53.96
8.69	9.84	81.89	68.44	75.44	9.85	19.0	164.35	88.91	0.0	39.76	20.0	54.34
8.7	9.92	81.72	68.63	75.54	9.93	19.0	164.54	89.0	0.0	39.79	20.0	54.54
8.71	9.88	82.18	68.63	75.64	9.89	19.0	164.73	89.09	0.0	39.77	20.0	54.41
8.72	9.68	84.35	68.72	75.73	9.69	19.0	164.92	89.18	0.0	39.67	20.0	53.86
8.73	9.37	85.93	68.91	75.83	9.38	19.0	165.11	89.27	0.0	39.52	20.0	52.99
8.74	9.14	88.49	69.2	75.93	9.15	19.0	165.3	89.37	0.0	39.4	20.0	52.34
8.75	9.03	88.85	69.39	76.03	9.04	19.0	165.49	89.46	0.0	39.34	20.0	52.01
8.76	8.96	89.41	70.15	76.13	8.97	19.0	165.68	89.55	0.0	39.3	20.0	51.8
8.77	8.99	89.61	70.34	76.22	9.0	19.0	165.87	89.64	0.0	39.31	20.0	51.87
8.78	9.1	89.25	70.54	76.32	9.11	19.0	166.06	89.73	0.0	39.37	20.0	52.17
8.79	9.17	88.62	70.73	76.42	9.18	19.0	166.25	89.83	0.0	39.4	20.0	52.34
8.8	9.34	88.46	70.92	76.52	9.35	19.0	166.44	89.92	0.0	39.48	20.0	52.81
8.81	9.55	87.5	71.2	76.62	9.56	19.0	166.63	90.01	0.0	39.58	20.0	53.37
8.82	9.62	87.24	71.49	76.71	9.63	19.0	166.82	90.1	0.0	39.62	20.0	53.54
8.83	9.6	87.18	72.44	76.81	9.61	19.0	167.01	90.19	0.0	39.6	20.0	53.47
8.84	9.55	87.37	72.83	76.91	9.56	19.0	167.2	90.28	0.0	39.58	20.0	53.32
8.85	9.39	86.09	73.3	77.01	9.4	19.0	167.39	90.38	0.0	39.49	20.0	52.85
8.86	9.24	84.38	73.02	77.11	9.25	19.0	167.58	90.47	0.0	39.41	20.0	52.41
8.87	9.1	81.56	73.11	77.2	9.11	19.0	167.77	90.56	0.0	39.34	20.0	51.99
8.88	9.02	80.34	73.11	77.3	9.03	19.0	167.96	90.65	0.0	39.29	20.0	51.74
8.89	8.83	79.49	72.83	77.4	8.84	19.0	168.15	90.74	0.0	39.19	20.0	51.18
8.9	8.73	78.77	72.64	77.5	8.74	19.0	168.34	90.84	0.0	39.13	20.0	50.87
8.91	8.47	79.16	72.44	77.6	8.48	19.0	168.53	90.93	0.0	38.98	20.0	50.1
8.92	8.34	79.13	72.54	77.7	8.35	19.0	168.72	91.02	0.0	38.91	20.0	49.7
8.93	8.34	79.13	72.54	77.79	8.35	19.0	168.91	91.11	0.0	38.9	20.0	49.69
8.94	8.34	79.13	72.54	77.89	8.35	19.0	169.1	91.2	0.0	38.9	20.0	49.67
8.95	6.16	62.64	73.78	77.99	6.17	19.0	169.29	91.3	0.0	37.44	20.0	42.64
8.96	5.36	66.91	73.59	78.09	5.37	18.5	169.47	91.38	0.0	36.77	20.0	39.77
8.97	4.93	69.9	73.59	78.19	4.94	18.5	169.66	91.47	0.0	36.37	20.0	38.12
8.98	3.89	77.82	73.78	78.28	3.9	18.0	169.84	91.55	0.0	35.23	20.0	33.82
8.99	3.41	82.48	74.16	78.38	3.42	18.0	170.02	91.63	232.49	0.0	20.0	0.0
9.0	2.72	91.35	76.17	78.48	2.74	18.0	170.2	91.72	183.22	0.0	20.0	0.0
9.01	2.61	94.76	77.5	78.58	2.63	18.0	170.38	91.8	175.37	0.0	20.0	0.0
9.02	2.63	100.05	79.7	78.68	2.65	18.0	170.56	91.88	176.81	0.0	20.0	0.0
9.03	3.65	101.69	359.36	78.77	3.72	18.0	170.74	91.96	253.65	0.0	20.0	0.0
9.04	4.37	97.36	389.62	78.87	4.45	18.0	170.92	92.04	0.0	35.85	20.0	36.1
9.05	6.05	89.21	253.51	78.97	6.1	18.5	171.1	92.13	0.0	37.37	20.0	42.32
9.06	6.74	85.17	202.73	79.07	6.78	18.5	171.29	92.22	0.0	37.87	20.0	44.6
9.07	7.46	77.55	154.53	79.17	7.49	19.0	171.48	92.31	0.0	38.34	20.0	46.85
9.08	7.69	70.29	125.13	79.26	7.72	19.0	171.67	92.4	0.0	38.47	20.0	47.51
9.09	7.73	63.79	112.91	79.36	7.75	19.0	171.86	92.49	0.0	38.49	20.0	47.59
9.1	7.7	61.29	110.34	79.46	7.72	19.0	172.05	92.58	0.0	38.47	20.0	47.47
9.11	7.61	54.36	107.86	79.56	7.63	19.0	172.24	92.68	0.0	38.4	20.0	47.15
9.12	7.49	49.3	106.23	79.66	7.51	19.0	172.43	92.77	0.0	38.32	20.0	46.74
9.13	7.42	47.33	105.66	79.76	7.44	19.0	172.62	92.86	0.0	38.27	20.0	46.5
9.14	7.26	45.43	104.51	79.85	7.28	19.0	172.81	92.95	0.0	38.16	20.0	45.97
9.15	7.17	45.95	103.85	79.95	7.19	19.0	173.0	93.04	0.0	38.1	20.0	45.68
9.16	6.97	47.83	102.8	80.05	6.99	19.0	173.19	93.14	0.0	37.96	20.0	45.02
9.17	6.85	48.02	102.41	80.15	6.87	19.0	173.38	93.23	0.0	37.87	20.0	44.62
9.18	6.54	50.42	101.84	80.25	6.56	19.0	173.57	93.32	0.0	37.65	20.0	43.59
9.19	6.2	51.08	101.08	80.34	6.22	19.0	173.76	93.41	0.0	37.39	20.0	42.42
9.2	6.02	52.13	100.7	80.44	6.04	19.0	173.95	93.5	0.0	37.25	20.0	41.79
9.21	5.58	51.8	99.93	80.54	5.6	19.0	174.14	93.59	0.0	36.88	20.0	40.2
9.22	4.99	54.66	99.07	80.64	5.01	18.5	174.32	93.68	0.0	36.34	20.0	37.99
9.23	4.66	55.58	98.6	80.74	4.68	18.5	174.51	93.77	0.0	36.0	20.0	36.68
9.24	4.02	56.92	97.45	80.83	4.04	18.5	174.69	93.86	0.0	35.28	20.0	34.01
9.25	3.26	59.65	96.12	80.93	3.28	18.0	174.87	93.94	0.0	34.25	20.0	30.54
9.26	2.9	61.06	95.54	81.03	2.92	18.0	175.05	94.02	196.0	0.0	20.0	0.0
9.27	2.3	63.23	95.07	81.13	2.32	18.0	175.23	94.1	153.13	0.0	20.0	0.0
9.28	2.1	65.2	94.87	81.23	2.12	18.0	175.41	94.18	138.83	0.0	20.0	0.0
9.29	1.74	67.67	94.4	81.32	1.76	18.0	175.59	94.27	113.09	0.0	20.0	0.0
9.3	1.59	68.91	94.87	81.42	1.61	17.5	175.77	94.34	102.37	0.0	20.0	0.0
9.31	1.38	73.64	95.45	81.52	1.4	17.5	175.94	94.42	87.37	0.0	20.0	0.0

9.32	1.31	73.61	96.31	81.62	1.33	17.5	176.12	94.5	82.37	0.0	20.0	0.0
9.33	1.21	72.66	96.97	81.72	1.23	17.5	176.29	94.57	75.22	0.0	20.0	0.0
9.34	1.09	74.76	100.22	81.82	1.11	17.5	176.47	94.65	66.68	0.0	20.0	0.0
9.35	1.04	74.1	102.41	81.91	1.06	17.5	176.64	94.73	63.13	0.0	20.0	0.0
9.36	0.96	70.82	176.67	82.01	1.0	17.5	176.82	94.8	58.47	0.0	28.08	0.0
9.37	0.92	63.4	233.46	82.11	0.97	17.5	176.99	94.88	56.41	0.0	30.08	0.0
9.38	0.96	58.96	273.55	82.21	1.01	17.5	177.17	94.96	59.82	0.0	31.64	0.0
9.39	1.22	48.19	429.7	82.31	1.31	18.0	177.35	95.04	80.61	0.0	36.72	0.0
9.4	1.99	37.68	456.62	82.4	2.08	18.0	177.53	95.12	135.99	0.0	39.27	0.0
9.41	2.55	34.42	397.92	82.5	2.63	18.0	177.71	95.2	0.0	33.07	20.0	26.99
9.42	3.63	28.38	293.6	82.6	3.69	18.5	177.89	95.29	0.0	34.75	20.0	32.19
9.43	3.98	26.44	195.0	82.7	4.02	18.5	178.08	95.38	0.0	35.17	20.0	33.63
9.44	4.19	18.07	122.36	82.8	4.21	19.0	178.27	95.47	0.0	35.39	20.0	34.42
9.45	4.16	16.88	103.18	82.89	4.18	19.0	178.46	95.56	0.0	35.35	20.0	34.26
9.46	3.96	12.48	95.07	82.99	3.98	19.0	178.65	95.65	0.0	35.1	20.0	33.37
9.47	3.84	11.2	94.59	83.09	3.86	19.0	178.84	95.74	0.0	34.94	20.0	32.82
9.48	3.63	11.53	94.97	83.19	3.65	18.5	179.02	95.83	0.0	34.66	20.0	31.88
9.49	3.4	12.61	95.64	83.29	3.42	18.5	179.21	95.92	0.0	34.34	20.0	30.81
9.5	3.27	12.91	95.73	83.38	3.29	18.5	179.39	96.01	0.0	34.14	20.0	30.18
9.51	2.95	13.89	95.73	83.48	2.97	18.5	179.58	96.09	0.0	33.63	20.0	28.6
9.52	2.59	15.83	95.64	83.58	2.61	18.5	179.76	96.18	0.0	32.97	20.0	26.71
9.53	2.4	17.01	95.54	83.68	2.42	18.5	179.95	96.27	0.0	32.58	20.0	25.65
9.54	2.09	20.14	95.54	83.78	2.11	18.5	180.13	96.35	0.0	31.88	20.0	23.83
9.55	1.79	24.08	95.16	83.88	1.81	18.0	180.31	96.43	116.34	0.0	20.0	0.0
9.56	1.66	26.44	95.07	83.97	1.68	18.0	180.49	96.52	107.04	0.0	20.0	0.0
9.57	1.45	32.68	95.35	84.07	1.47	18.0	180.67	96.6	92.03	0.0	20.0	0.0
9.58	1.33	35.9	95.83	84.17	1.35	18.0	180.85	96.68	83.45	0.0	20.0	0.0
9.59	1.18	39.71	97.93	84.27	1.2	18.0	181.03	96.76	72.75	0.0	20.0	0.0
9.6	1.12	39.42	104.51	84.37	1.14	18.0	181.21	96.84	68.55	0.0	20.0	0.0
9.61	1.04	38.3	138.68	84.46	1.07	17.5	181.39	96.92	63.31	0.0	20.0	0.0
9.62	0.94	39.91	193.19	84.56	0.98	17.5	181.56	97.0	56.93	0.0	28.25	0.0
9.63	0.87	41.19	206.26	84.66	0.91	17.5	181.74	97.07	52.11	0.0	28.28	0.0
9.64	0.81	41.16	246.54	84.76	0.86	17.5	181.91	97.15	48.39	0.0	29.33	0.0
9.65	0.79	39.52	252.46	84.86	0.84	17.5	182.09	97.23	47.03	0.0	29.38	0.0
9.66	0.75	37.15	276.8	84.95	0.81	17.5	182.26	97.31	44.51	0.0	29.9	0.0
9.67	0.74	33.8	283.48	85.05	0.8	17.5	182.44	97.38	43.88	0.0	30.03	0.0
9.68	0.73	31.6	285.39	85.15	0.79	17.5	182.61	97.46	43.18	0.0	30.0	0.0
9.69	0.72	27.0	289.01	85.25	0.78	17.5	182.79	97.54	42.5	0.0	30.03	0.0
9.7	0.76	21.58	294.45	85.35	0.82	18.0	182.97	97.62	45.42	0.0	30.48	0.0
9.71	0.79	18.99	298.37	85.45	0.85	18.0	183.15	97.7	47.61	0.0	30.8	0.0
9.72	0.84	14.81	304.57	85.54	0.9	18.0	183.33	97.78	51.26	0.0	31.3	0.0
9.73	0.88	13.04	307.34	85.64	0.94	18.0	183.51	97.86	54.14	0.0	31.62	0.0
9.74	0.89	9.26	286.06	85.74	0.95	18.0	183.69	97.95	54.54	0.0	31.01	0.0
9.75	0.88	7.88	271.83	85.84	0.93	18.0	183.87	98.03	53.61	0.0	30.48	0.0
9.76	0.86	7.69	265.92	85.94	0.91	18.0	184.05	98.11	52.08	0.0	30.14	0.0
9.77	0.87	7.26	268.68	86.03	0.92	18.0	184.23	98.19	52.82	0.0	30.28	0.0
9.78	0.86	4.47	265.72	86.13	0.91	18.0	184.41	98.27	52.05	0.0	30.09	0.0
9.79	0.83	3.19	274.7	86.23	0.88	17.5	184.58	98.35	50.03	0.0	30.16	0.0
9.8	0.84	2.59	278.04	86.33	0.9	17.5	184.76	98.43	50.78	0.0	30.32	0.0
9.81	0.86	2.73	281.57	86.43	0.92	18.0	184.94	98.51	52.24	0.0	30.56	0.0
9.82	0.86	1.94	279.18	86.52	0.92	18.0	185.12	98.59	52.19	0.0	30.47	0.0
9.83	0.86	1.71	271.36	86.62	0.91	17.5	185.29	98.67	52.07	0.0	30.2	0.0
9.84	0.83	2.5	270.31	86.72	0.88	17.5	185.47	98.74	49.9	0.0	29.95	0.0
9.85	0.81	3.12	273.07	86.82	0.86	17.5	185.64	98.82	48.5	0.0	29.89	0.0
9.86	0.82	4.43	279.76	86.92	0.88	18.0	185.82	98.9	49.3	0.0	30.17	0.0
9.87	0.84	4.04	285.86	87.01	0.9	18.0	186.0	98.99	50.8	0.0	30.49	0.0
9.88	0.87	3.94	273.27	87.11	0.92	18.0	186.18	99.07	52.75	0.0	30.28	0.0
9.89	0.95	4.04	284.53	87.21	1.01	18.0	186.36	99.15	58.61	0.0	31.13	0.0
9.9	0.99	4.4	281.95	87.31	1.05	18.0	186.54	99.23	61.42	0.0	31.28	0.0
9.91	1.01	5.09	269.07	87.41	1.06	18.0	186.72	99.31	62.65	0.0	30.99	0.0
9.92	1.01	5.39	263.63	87.51	1.06	18.0	186.9	99.39	62.56	0.0	30.81	0.0
9.93	1.01	5.39	263.63	87.6	1.06	18.0	187.08	99.48	62.55	0.0	30.8	0.0
9.94	1.01	5.39	263.63	87.7	1.06	18.0	187.26	99.56	62.53	0.0	30.78	0.0
9.95	0.82	13.57	163.69	87.8	0.85	18.0	187.44	99.64	47.52	0.0	25.39	0.0
9.96	0.8	16.39	169.32	87.9	0.83	18.0	187.62	99.72	46.16	0.0	25.5	0.0
9.97	0.8	15.64	172.95	88.0	0.83	18.0	187.8	99.8	46.2	0.0	25.67	0.0
9.98	0.81	14.29	178.58	88.09	0.85	18.0	187.98	99.89	46.98	0.0	26.02	0.0
9.99	0.85	13.63	184.21	88.19	0.89	18.0	188.16	99.97	49.91	0.0	26.61	0.0
10.0	0.85	12.55	186.41	88.29	0.89	18.0	188.34	100.05	49.92	0.0	26.7	0.0
10.01	0.84	13.4	191.66	88.39	0.88	18.0	188.52	100.13	49.27	0.0	26.84	0.0
10.02	0.86	12.58	204.26	88.49	0.9	18.0	188.7	100.21	50.87	0.0	27.53	0.0
10.03	0.85	10.54	212.56	88.58	0.89	18.0	188.88	100.3	50.26	0.0	27.77	0.0
10.04	0.83	8.41	207.22	88.68	0.87	18.0	189.06	100.38	48.74	0.0	27.37	0.0

10.05	0.8	8.08	204.64	88.78	0.84	18.0	189.24	100.46	46.55	0.0	27.0	0.0
10.06	0.78	8.24	218.48	88.88	0.82	18.0	189.42	100.54	45.31	0.0	27.38	0.0
10.07	0.78	8.01	221.91	88.98	0.82	18.0	189.6	100.62	45.34	0.0	27.5	0.0
10.08	0.78	4.7	225.54	89.07	0.83	17.5	189.78	100.7	45.38	0.0	27.63	0.0
10.09	0.78	4.01	229.07	89.17	0.83	17.5	189.95	100.78	45.42	0.0	27.75	0.0
10.1	0.77	3.61	230.79	89.27	0.82	17.5	190.13	100.85	44.72	0.0	27.72	0.0
10.11	0.77	3.25	234.13	89.37	0.82	17.5	190.3	100.93	44.75	0.0	27.83	0.0
10.12	0.77	3.35	235.56	89.47	0.82	17.5	190.48	101.01	44.76	0.0	27.88	0.0
10.13	0.77	3.45	238.52	89.57	0.82	17.5	190.65	101.08	44.79	0.0	27.97	0.0
10.14	0.76	3.65	241.67	89.66	0.81	17.5	190.83	101.16	44.11	0.0	27.99	0.0
10.15	0.75	3.68	243.29	89.76	0.8	17.5	191.0	101.24	43.4	0.0	27.95	0.0
10.16	0.75	3.48	246.44	89.86	0.8	17.5	191.18	101.32	43.44	0.0	28.06	0.0
10.17	0.75	3.22	249.98	89.96	0.8	17.5	191.35	101.39	43.47	0.0	28.18	0.0
10.18	0.75	2.5	252.65	90.06	0.8	17.5	191.53	101.47	43.5	0.0	28.26	0.0
10.19	0.76	2.85	258.57	90.15	0.81	17.5	191.7	101.55	44.29	0.0	28.55	0.0
10.2	0.78	2.33	261.72	90.25	0.83	17.5	191.88	101.62	45.75	0.0	28.81	0.0
10.21	1.07	2.39	269.92	90.35	1.12	18.0	192.06	101.7	66.57	0.0	31.01	0.0
10.22	1.46	2.43	279.09	90.45	1.52	18.0	192.24	101.79	0.0	29.86	20.0	19.28
10.23	2.36	2.53	297.8	90.55	2.42	18.5	192.42	101.87	0.0	32.34	20.0	25.01
10.24	2.9	3.53	302.09	90.64	2.96	18.5	192.61	101.96	0.0	33.38	20.0	27.88
10.25	3.68	4.46	263.24	90.74	3.73	19.0	192.8	102.05	0.0	34.55	20.0	31.52
10.26	4.03	4.62	175.81	90.84	4.07	19.0	192.99	102.14	0.0	34.98	20.0	32.96
10.27	4.14	4.81	154.91	90.94	4.17	19.0	193.18	102.24	0.0	35.11	20.0	33.4
10.28	4.26	4.86	139.07	91.04	4.29	19.0	193.37	102.33	0.0	35.24	20.0	33.87
10.29	4.34	4.92	140.5	91.13	4.37	19.0	193.56	102.42	0.0	35.33	20.0	34.2
10.3	4.4	5.58	140.98	91.23	4.43	19.0	193.75	102.51	0.0	35.4	20.0	34.43
10.31	4.52	5.26	142.22	91.33	4.55	19.0	193.94	102.6	0.0	35.53	20.0	34.91
10.32	4.56	7.42	142.31	91.43	4.59	19.0	194.13	102.7	0.0	35.57	20.0	35.05
10.33	4.51	8.61	141.83	91.53	4.54	19.0	194.32	102.79	0.0	35.51	20.0	34.84
10.34	4.12	12.12	140.5	91.63	4.15	19.0	194.51	102.88	0.0	35.06	20.0	33.22
10.35	3.82	14.29	140.02	91.72	3.85	19.0	194.7	102.97	0.0	34.67	20.0	31.92
10.36	3.26	18.46	138.59	91.82	3.29	18.5	194.88	103.06	0.0	33.87	20.0	29.34
10.37	2.91	19.74	138.21	91.92	2.94	18.5	195.07	103.15	0.0	33.29	20.0	27.62
10.38	2.31	22.63	138.4	92.02	2.34	18.5	195.25	103.23	0.0	32.1	20.0	24.39
10.39	2.05	22.8	139.26	92.12	2.08	18.0	195.43	103.31	0.0	31.48	20.0	22.84
10.4	1.58	24.96	141.17	92.21	1.61	18.0	195.61	103.4	100.9	0.0	20.0	0.0
10.41	1.3	28.45	142.5	92.31	1.33	18.0	195.79	103.48	80.91	0.0	20.0	0.0
10.42	1.2	29.04	143.65	92.41	1.23	18.0	195.97	103.56	73.77	0.0	20.0	0.0
10.43	1.1	31.7	151.76	92.51	1.13	18.0	196.15	103.64	66.73	0.0	20.0	0.0
10.44	1.06	34.92	159.3	92.61	1.09	18.0	196.33	103.72	63.97	0.0	20.0	0.0
10.45	1.02	36.92	164.07	92.7	1.05	17.5	196.51	103.8	61.16	0.0	20.0	0.0
10.46	0.89	42.31	171.9	92.8	0.92	17.5	196.68	103.88	51.98	0.0	25.63	0.0
10.47	0.83	45.07	179.63	92.9	0.87	17.5	196.86	103.95	47.79	0.0	25.48	0.0
10.48	0.74	41.95	306.19	93.0	0.8	17.5	197.03	104.03	43.16	0.0	29.55	0.0
10.49	0.75	38.6	335.02	93.1	0.82	17.5	197.21	104.11	44.27	0.0	30.53	0.0
10.5	0.76	36.43	335.5	93.2	0.83	17.5	197.38	104.19	44.98	0.0	30.6	0.0
10.51	0.8	31.6	336.16	93.29	0.87	17.5	197.56	104.26	47.83	0.0	30.89	0.0
10.52	0.83	29.83	340.94	93.39	0.9	17.5	197.73	104.34	50.03	0.0	31.21	0.0
10.53	0.94	26.28	352.3	93.49	1.01	18.0	197.91	104.42	58.04	0.0	32.18	0.0
10.54	1.01	24.44	357.35	93.59	1.08	18.0	198.09	104.5	63.1	0.0	32.69	0.0
10.55	1.25	21.06	336.64	93.69	1.32	18.0	198.27	104.58	79.93	0.0	33.31	0.0
10.56	1.41	19.41	325.76	93.78	1.48	18.0	198.45	104.67	91.19	0.0	33.69	0.0
10.57	1.57	17.15	265.34	93.88	1.62	18.0	198.63	104.75	101.75	0.0	32.68	0.0
10.58	1.55	15.01	189.18	93.98	1.59	18.0	198.81	104.83	99.22	0.0	20.0	0.0
10.59	1.5	14.45	165.89	94.08	1.53	18.0	198.99	104.91	95.3	0.0	20.0	0.0
10.6	1.36	10.18	128.19	94.18	1.39	18.0	199.17	104.99	84.75	0.0	20.0	0.0
10.61	1.21	7.98	128.66	94.27	1.24	18.0	199.35	105.08	74.03	0.0	20.0	0.0
10.62	1.14	8.93	143.36	94.37	1.17	18.0	199.53	105.16	69.22	0.0	20.0	0.0
10.63	1.0	13.43	160.73	94.47	1.03	18.0	199.71	105.24	59.46	0.0	20.0	0.0
10.64	0.95	16.13	167.41	94.57	0.98	18.0	199.89	105.32	55.97	0.0	20.0	0.0
10.65	0.91	20.33	178.58	94.67	0.95	18.0	200.07	105.4	53.26	0.0	25.87	0.0
10.66	0.91	20.14	186.12	94.76	0.95	18.0	200.25	105.49	53.36	0.0	26.21	0.0
10.67	0.94	19.77	190.13	94.86	0.98	18.0	200.43	105.57	55.54	0.0	26.61	0.0
10.68	0.99	19.15	198.15	94.96	1.03	18.0	200.61	105.65	59.22	0.0	27.32	0.0
10.69	1.01	18.99	200.53	95.06	1.05	18.0	200.79	105.73	60.67	0.0	27.54	0.0
10.7	1.0	18.89	202.92	95.16	1.04	18.0	200.97	105.81	59.97	0.0	27.56	0.0
10.71	0.99	18.07	203.21	95.26	1.03	18.0	201.15	105.89	59.25	0.0	27.49	0.0
10.72	0.94	12.84	206.74	95.35	0.98	18.0	201.33	105.98	55.72	0.0	27.28	0.0
10.73	0.94	10.08	210.75	95.45	0.98	18.0	201.51	106.06	55.76	0.0	27.44	0.0
10.74	1.12	8.08	219.43	95.55	1.16	18.0	201.69	106.14	68.73	0.0	28.95	0.0
10.75	1.78	6.7	230.79	95.65	1.83	18.5	201.88	106.23	0.0	30.67	20.0	20.99
10.76	2.34	6.34	235.09	95.75	2.39	18.5	202.06	106.31	0.0	32.1	20.0	24.37
10.77	3.27	8.64	238.14	95.84	3.32	18.5	202.25	106.4	0.0	33.8	20.0	29.13

10.78	3.63	10.77	195.86	95.94	3.67	19.0	202.44	106.49	0.0	34.31	20.0	30.73
10.79	3.43	12.09	148.61	96.04	3.46	18.5	202.62	106.58	0.0	34.01	20.0	29.76
10.8	2.88	12.51	31.21	96.14	2.89	18.5	202.81	106.67	0.0	33.07	20.0	26.98
10.81	2.55	11.66	17.18	96.24	2.55	18.5	202.99	106.75	0.0	32.42	20.0	25.22
10.82	2.37	13.43	13.27	96.33	2.37	18.5	203.18	106.84	0.0	32.03	20.0	24.21
10.83	2.08	14.35	15.94	96.43	2.08	18.5	203.36	106.93	0.0	31.33	20.0	22.5
10.84	2.09	13.53	19.57	96.53	2.09	18.5	203.55	107.01	0.0	31.36	20.0	22.56
10.85	2.62	17.15	38.08	96.63	2.63	18.5	203.73	107.1	0.0	32.55	20.0	25.57
10.86	3.0	17.87	40.37	96.73	3.01	18.5	203.92	107.19	0.0	33.25	20.0	27.51
10.87	3.88	20.56	42.28	96.82	3.89	18.5	204.1	107.28	0.0	34.57	20.0	31.57
10.88	4.3	23.88	41.81	96.92	4.31	19.0	204.29	107.37	0.0	35.08	20.0	33.32
10.89	4.84	31.76	36.75	97.02	4.85	19.0	204.48	107.46	0.0	35.67	20.0	35.44
10.9	4.85	39.91	29.11	97.12	4.86	18.5	204.67	107.55	0.0	35.67	20.0	35.44
10.91	4.76	39.68	23.77	97.22	4.76	18.5	204.85	107.63	0.0	35.57	20.0	35.07
10.92	4.76	39.68	23.77	97.32	4.76	18.5	205.04	107.72	0.0	35.57	20.0	35.06
10.93	4.76	39.68	23.77	97.41	4.76	18.5	205.22	107.81	0.0	35.57	20.0	35.05
10.94	7.57	53.38	-4.2	97.51	7.57	19.0	205.41	107.9	0.0	37.88	20.0	44.65
10.95	7.78	61.23	-6.87	97.61	7.78	19.0	205.6	107.99	0.0	38.01	20.0	45.25
10.96	7.43	76.3	-12.5	97.71	7.43	19.0	205.79	108.08	0.0	37.77	20.0	44.13
10.97	7.02	81.49	-15.65	97.81	7.02	18.5	205.98	108.17	0.0	37.48	20.0	42.82
10.98	5.95	88.62	-21.86	97.9	5.95	18.5	206.16	108.26	0.0	36.65	20.0	39.23
10.99	4.82	93.52	-27.11	98.0	4.81	18.5	206.35	108.34	0.0	35.58	20.0	35.08
11.0	3.87	92.56	-32.74	98.1	3.86	18.0	206.53	108.43	261.21	0.0	20.0	0.0
11.01	3.54	88.59	-51.54	98.2	3.53	18.0	206.71	108.51	237.36	0.0	20.0	0.0
11.02	3.17	76.37	-52.4	98.3	3.16	18.0	206.89	108.59	210.9	0.0	20.0	0.0
11.03	3.15	71.77	-52.11	98.39	3.14	18.0	207.07	108.67	209.47	0.0	20.0	0.0
11.04	3.17	60.24	-48.96	98.49	3.16	18.0	207.25	108.75	210.93	0.0	20.0	0.0
11.05	3.22	53.74	-39.52	98.59	3.21	18.0	207.43	108.83	0.0	33.5	20.0	28.23
11.06	3.2	56.4	-25.2	98.69	3.19	18.0	207.61	108.92	0.0	33.47	20.0	28.13
11.07	2.77	54.07	16.32	98.79	2.77	18.0	207.79	109.0	183.25	0.0	20.0	0.0
11.08	2.52	47.66	44.76	98.88	2.53	18.0	207.97	109.08	165.78	0.0	20.0	0.0
11.09	2.04	29.1	76.45	98.98	2.06	18.0	208.15	109.16	131.94	0.0	20.0	0.0
11.1	1.84	24.01	96.69	99.08	1.86	18.0	208.33	109.24	117.93	0.0	20.0	0.0
11.11	1.51	21.97	105.76	99.18	1.53	18.0	208.51	109.33	94.47	0.0	20.0	0.0
11.12	1.36	23.06	107.86	99.28	1.38	18.0	208.69	109.41	83.78	0.0	20.0	0.0
11.13	1.09	27.46	143.46	99.38	1.12	18.0	208.87	109.49	64.99	0.0	20.0	0.0
11.14	0.91	32.35	378.73	99.47	0.99	18.0	209.05	109.57	55.48	0.0	31.88	0.0
11.15	0.87	32.81	431.8	99.57	0.96	17.5	209.22	109.65	53.37	0.0	33.01	0.0
11.16	0.86	32.03	432.95	99.67	0.95	17.5	209.4	109.73	52.66	0.0	32.98	0.0
11.17	0.86	30.09	431.8	99.77	0.95	18.0	209.58	109.81	52.63	0.0	32.94	0.0
11.18	0.91	27.07	430.37	99.87	1.0	18.0	209.76	109.89	56.17	0.0	33.16	0.0
11.19	1.23	24.93	440.11	99.96	1.32	18.0	209.94	109.97	79.15	0.0	34.82	0.0
11.2	1.97	24.31	467.79	100.06	2.06	18.0	210.12	110.05	132.39	0.0	37.66	0.0
11.21	2.55	25.13	443.26	100.16	2.64	18.5	210.3	110.14	0.0	32.44	20.0	25.27
11.22	3.96	23.62	304.48	100.26	4.02	18.5	210.49	110.23	0.0	34.63	20.0	31.78
11.23	4.56	20.63	198.91	100.36	4.6	19.0	210.68	110.32	0.0	35.32	20.0	34.16
11.24	5.39	16.95	92.3	100.45	5.41	19.0	210.87	110.41	0.0	36.15	20.0	37.24
11.25	5.63	16.62	89.62	100.55	5.65	19.0	211.06	110.5	0.0	36.36	20.0	38.09
11.26	6.0	16.92	89.53	100.65	6.02	19.0	211.25	110.59	0.0	36.68	20.0	39.38
11.27	6.15	17.18	90.48	100.75	6.17	19.0	211.44	110.69	0.0	36.8	20.0	39.88
11.28	6.39	16.88	98.6	100.85	6.41	19.0	211.63	110.78	0.0	36.99	20.0	40.69
11.29	6.67	20.43	100.6	100.94	6.69	19.0	211.82	110.87	0.0	37.2	20.0	41.58
11.3	6.83	22.11	101.08	101.04	6.85	19.0	212.01	110.96	0.0	37.32	20.0	42.08
11.31	7.13	24.01	101.84	101.14	7.15	19.0	212.2	111.05	0.0	37.53	20.0	43.02
11.32	7.37	27.26	102.51	101.24	7.39	19.0	212.39	111.15	0.0	37.69	20.0	43.74
11.33	7.48	28.94	102.61	101.34	7.5	19.0	212.58	111.24	0.0	37.75	20.0	44.06
11.34	7.59	31.6	102.89	101.44	7.61	19.0	212.77	111.33	0.0	37.82	20.0	44.38
11.35	7.6	33.67	103.18	101.53	7.62	19.0	212.96	111.42	0.0	37.82	20.0	44.39
11.36	7.62	39.29	103.94	101.63	7.64	19.0	213.15	111.51	0.0	37.83	20.0	44.41
11.37	7.63	41.42	104.04	101.73	7.65	19.0	213.34	111.61	0.0	37.83	20.0	44.42
11.38	7.64	42.77	104.04	101.83	7.66	19.0	213.53	111.7	0.0	37.83	20.0	44.43
11.39	7.64	43.49	104.13	101.93	7.66	19.0	213.72	111.79	0.0	37.83	20.0	44.41
11.4	7.64	44.64	104.13	102.02	7.66	19.0	213.91	111.88	0.0	37.83	20.0	44.4
11.41	7.64	48.52	103.94	102.12	7.66	19.0	214.1	111.97	0.0	37.82	20.0	44.37
11.42	7.62	49.57	103.85	102.22	7.64	19.0	214.29	112.06	0.0	37.8	20.0	44.29
11.43	7.51	52.06	103.75	102.32	7.53	19.0	214.48	112.16	0.0	37.73	20.0	43.93
11.44	7.35	55.94	104.13	102.42	7.37	19.0	214.67	112.25	0.0	37.61	20.0	43.41
11.45	7.26	57.55	104.04	102.51	7.28	19.0	214.86	112.34	0.0	37.55	20.0	43.11
11.46	7.06	60.27	103.94	102.61	7.08	19.0	215.05	112.43	0.0	37.4	20.0	42.46
11.47	6.95	61.82	103.85	102.71	6.97	19.0	215.24	112.52	0.0	37.32	20.0	42.09
11.48	6.61	65.3	103.85	102.81	6.63	19.0	215.43	112.62	0.0	37.06	20.0	40.97
11.49	6.54	65.76	104.32	102.91	6.56	19.0	215.62	112.71	0.0	37.0	20.0	40.73
11.5	6.47	65.83	104.51	103.01	6.49	19.0	215.81	112.8	0.0	36.94	20.0	40.48

11.51	6.35	66.15	104.8	103.1	6.37	19.0	216.0	112.89	0.0	36.85	20.0	40.07
11.52	6.3	65.86	105.09	103.2	6.32	18.5	216.18	112.98	0.0	36.8	20.0	39.89
11.53	6.21	64.68	105.47	103.3	6.23	18.5	216.37	113.07	0.0	36.73	20.0	39.58
11.54	6.16	63.92	105.56	103.4	6.18	18.5	216.55	113.15	0.0	36.69	20.0	39.4
11.55	6.02	62.67	105.76	103.5	6.04	18.5	216.74	113.24	0.0	36.57	20.0	38.92
11.56	5.92	62.34	105.95	103.59	5.94	18.5	216.92	113.33	0.0	36.48	20.0	38.56
11.57	5.64	61.98	106.04	103.69	5.66	18.5	217.11	113.41	0.0	36.23	20.0	37.57
11.58	5.27	60.04	106.04	103.79	5.29	18.5	217.29	113.5	0.0	35.89	20.0	36.24
11.59	5.08	59.32	106.23	103.89	5.1	18.5	217.48	113.59	0.0	35.7	20.0	35.52
11.6	4.76	59.85	106.33	103.99	4.78	18.5	217.66	113.67	0.0	35.36	20.0	34.3
11.61	4.75	61.49	107.09	104.08	4.77	18.5	217.85	113.76	0.0	35.35	20.0	34.24
11.62	4.93	61.56	108.05	104.18	4.95	18.5	218.03	113.85	0.0	35.53	20.0	34.92
11.63	5.58	59.55	110.15	104.28	5.6	18.5	218.22	113.93	0.0	36.16	20.0	37.3
11.64	6.32	59.95	111.1	104.38	6.34	19.0	218.41	114.03	0.0	36.79	20.0	39.84
11.65	6.64	61.33	112.15	104.48	6.66	19.0	218.6	114.12	0.0	37.04	20.0	40.88
11.66	7.33	64.18	103.66	104.57	7.35	19.0	218.79	114.21	0.0	37.53	20.0	43.04
11.67	7.65	62.21	94.87	104.67	7.67	19.0	218.98	114.3	0.0	37.74	20.0	44.01
11.68	8.11	60.57	84.18	104.77	8.13	19.0	219.17	114.39	0.0	38.04	20.0	45.38
11.69	8.34	59.62	81.89	104.87	8.36	19.0	219.36	114.49	0.0	38.17	20.0	46.04
11.7	8.85	58.14	69.1	104.97	8.86	19.0	219.55	114.58	0.0	38.47	20.0	47.49
11.71	9.1	58.01	68.34	105.07	9.11	19.0	219.74	114.67	0.0	38.61	20.0	48.18
11.72	9.53	55.87	71.59	105.16	9.54	19.5	219.93	114.77	0.0	38.84	20.0	49.36
11.73	9.88	54.36	76.45	105.26	9.9	19.5	220.13	114.86	0.0	39.02	20.0	50.3
11.74	9.97	53.71	78.17	105.36	9.99	19.5	220.32	114.96	0.0	39.06	20.0	50.53
11.75	10.08	54.23	81.13	105.46	10.1	19.5	220.52	115.06	0.0	39.11	20.0	50.81
11.76	10.12	55.77	82.47	105.56	10.14	19.5	220.71	115.15	0.0	39.13	20.0	50.89
11.77	10.2	60.44	84.76	105.65	10.22	19.5	220.91	115.25	0.0	39.16	20.0	51.07
11.78	10.29	63.72	87.24	105.75	10.31	19.5	221.1	115.35	0.0	39.2	20.0	51.27
11.79	10.29	63.72	87.24	105.85	10.31	19.5	221.3	115.45	0.0	39.2	20.0	51.26
11.8	10.52	62.11	90.48	105.95	10.54	19.5	221.49	115.54	0.0	39.31	20.0	51.85
11.81	10.78	65.99	92.97	106.05	10.8	19.5	221.69	115.64	0.0	39.43	20.0	52.49
11.82	10.88	68.19	94.02	106.14	10.9	19.5	221.88	115.74	0.0	39.47	20.0	52.72
11.83	10.95	72.46	94.97	106.24	10.97	19.5	222.08	115.83	0.0	39.49	20.0	52.86
11.84	11.11	83.76	97.64	106.34	11.13	19.0	222.27	115.92	0.0	39.56	20.0	53.21
11.85	11.15	86.78	98.41	106.44	11.17	19.0	222.46	116.02	0.0	39.57	20.0	53.28
11.86	11.2	89.44	99.17	106.54	11.22	19.0	222.65	116.11	0.0	39.59	20.0	53.38
11.87	11.26	94.34	100.51	106.63	11.28	19.0	222.84	116.2	0.0	39.61	20.0	53.5
11.88	11.31	99.56	101.46	106.73	11.33	19.0	223.03	116.29	0.0	39.62	20.0	53.59
11.89	11.35	101.79	101.65	106.83	11.37	19.0	223.22	116.38	0.0	39.64	20.0	53.67
11.9	11.4	103.86	102.03	106.93	11.42	19.0	223.41	116.48	0.0	39.66	20.0	53.77
11.91	11.4	107.11	102.51	107.03	11.42	19.0	223.6	116.57	0.0	39.65	20.0	53.74
11.92	11.4	107.11	102.51	107.13	11.42	19.0	223.79	116.66	0.0	39.65	20.0	53.73
11.93	11.4	107.11	102.51	107.22	11.42	19.0	223.98	116.75	0.0	39.65	20.0	53.71
11.94	11.54	96.34	107.66	107.32	11.56	19.0	224.17	116.84	0.0	39.71	20.0	54.09
11.95	11.52	99.3	107.38	107.42	11.54	19.0	224.36	116.94	0.0	39.7	20.0	54.01
11.96	11.49	99.79	106.9	107.52	11.51	19.0	224.55	117.03	0.0	39.68	20.0	53.92
11.97	11.27	103.34	107.0	107.62	11.29	19.0	224.74	117.12	0.0	39.58	20.0	53.35
11.98	11.18	106.0	106.9	107.71	11.2	19.0	224.93	117.21	0.0	39.54	20.0	53.1
11.99	11.09	109.09	107.57	107.81	11.11	19.0	225.12	117.3	0.0	39.49	20.0	52.85
12.0	11.12	113.03	108.52	107.91	11.14	19.0	225.31	117.4	0.0	39.5	20.0	52.89
12.01	11.18	114.31	108.43	108.01	11.2	19.0	225.5	117.49	0.0	39.52	20.0	53.03
12.02	11.28	115.23	108.43	108.11	11.3	19.0	225.69	117.58	0.0	39.57	20.0	53.26
12.03	11.54	115.13	108.71	108.2	11.56	19.0	225.88	117.67	0.0	39.68	20.0	53.89
12.04	11.63	114.87	109.19	108.3	11.65	19.0	226.07	117.76	0.0	39.71	20.0	54.09
12.05	11.76	115.79	109.76	108.4	11.78	19.0	226.26	117.85	0.0	39.77	20.0	54.39
12.06	11.82	117.89	110.34	108.5	11.84	19.0	226.45	117.95	0.0	39.79	20.0	54.52
12.07	11.87	119.37	110.53	108.6	11.89	19.0	226.64	118.04	0.0	39.81	20.0	54.62
12.08	12.0	120.06	110.81	108.69	12.02	19.0	226.83	118.13	0.0	39.86	20.0	54.92
12.09	12.06	121.04	110.81	108.79	12.08	19.0	227.02	118.22	0.0	39.88	20.0	55.04
12.1	12.17	121.17	110.91	108.89	12.19	19.0	227.21	118.31	0.0	39.92	20.0	55.29
12.11	12.21	120.58	110.72	108.99	12.23	19.0	227.4	118.41	0.0	39.94	20.0	55.37
12.12	12.23	120.22	110.91	109.09	12.25	19.0	227.59	118.5	0.0	39.94	20.0	55.41
12.13	12.33	119.96	111.29	109.19	12.35	19.0	227.78	118.59	0.0	39.98	20.0	55.63
12.14	12.36	119.4	111.48	109.28	12.38	19.0	227.97	118.68	0.0	39.99	20.0	55.69
12.15	12.4	119.5	111.67	109.38	12.42	19.0	228.16	118.77	0.0	40.01	20.0	55.77
12.16	12.4	120.06	111.77	109.48	12.42	19.0	228.35	118.87	0.0	40.0	20.0	55.76
12.17	12.3	121.47	111.39	109.58	12.32	19.0	228.54	118.96	0.0	39.96	20.0	55.5
12.18	12.17	121.99	111.1	109.68	12.19	19.0	228.73	119.05	0.0	39.9	20.0	55.17
12.19	12.11	122.36	111.29	109.77	12.13	19.0	228.92	119.14	0.0	39.87	20.0	55.01
12.2	12.01	122.26	111.2	109.87	12.03	19.0	229.11	119.23	0.0	39.83	20.0	54.76
12.21	11.93	121.34	110.62	109.97	11.95	19.0	229.3	119.32	0.0	39.79	20.0	54.55
12.22	11.74	123.8	111.01	110.07	11.76	19.0	229.49	119.42	0.0	39.71	20.0	54.07
12.23	11.65	122.91	110.91	110.17	11.67	19.0	229.68	119.51	0.0	39.67	20.0	53.84

12.24	11.45	124.23	111.29	110.26	11.47	19.0	229.87	119.6	0.0	39.58	20.0	53.33
12.25	11.28	122.78	111.1	110.36	11.3	19.0	230.06	119.69	0.0	39.5	20.0	52.9
12.26	11.17	121.6	111.01	110.46	11.19	19.0	230.25	119.78	0.0	39.45	20.0	52.61
12.27	10.95	121.53	110.81	110.56	10.97	19.0	230.44	119.88	0.0	39.35	20.0	52.05
12.28	10.78	117.49	110.34	110.66	10.8	19.0	230.63	119.97	0.0	39.27	20.0	51.62
12.29	10.69	116.08	110.15	110.75	10.71	19.0	230.82	120.06	0.0	39.22	20.0	51.38
12.3	10.45	113.45	109.96	110.85	10.47	19.0	231.01	120.15	0.0	39.11	20.0	50.76
12.31	10.3	112.5	109.86	110.95	10.32	19.0	231.2	120.24	0.0	39.03	20.0	50.36
12.32	9.84	109.35	109.29	111.05	9.86	19.0	231.39	120.34	0.0	38.8	20.0	49.16
12.33	9.25	104.39	109.76	111.15	9.27	19.0	231.58	120.43	0.0	38.49	20.0	47.57
12.34	9.25	104.39	109.76	111.25	9.27	19.0	231.77	120.52	0.0	38.48	20.0	47.56
12.35	8.89	97.59	109.86	111.34	8.91	19.0	231.96	120.61	0.0	38.28	20.0	46.58
12.36	8.51	87.54	110.15	111.44	8.53	19.0	232.15	120.7	0.0	38.07	20.0	45.54
12.37	8.34	85.5	110.62	111.54	8.36	19.0	232.34	120.8	0.0	37.97	20.0	45.05
12.38	7.98	77.39	110.72	111.64	8.0	19.0	232.53	120.89	0.0	37.75	20.0	44.02
12.39	7.65	72.13	111.77	111.74	7.67	19.0	232.72	120.98	0.0	37.53	20.0	43.05
12.4	7.55	70.42	111.77	111.83	7.57	19.0	232.91	121.07	0.0	37.46	20.0	42.75
12.41	7.34	67.4	112.82	111.93	7.36	19.0	233.1	121.16	0.0	37.32	20.0	42.11
12.42	7.16	65.0	113.77	112.03	7.18	19.0	233.29	121.25	0.0	37.19	20.0	41.55
12.43	7.02	65.04	114.92	112.13	7.04	19.0	233.48	121.35	0.0	37.09	20.0	41.11
12.44	6.94	64.45	115.01	112.23	6.96	19.0	233.67	121.44	0.0	37.03	20.0	40.84
12.45	6.82	64.28	115.3	112.32	6.84	19.0	233.86	121.53	0.0	36.94	20.0	40.45
12.46	6.77	63.72	115.49	112.42	6.79	19.0	234.05	121.62	0.0	36.9	20.0	40.28
12.47	6.66	63.4	115.78	112.52	6.68	19.0	234.24	121.71	0.0	36.81	20.0	39.92
12.48	6.62	65.17	115.78	112.62	6.64	19.0	234.43	121.81	0.0	36.77	20.0	39.77
12.49	6.54	67.83	115.68	112.72	6.56	19.0	234.62	121.9	0.0	36.71	20.0	39.48
12.5	6.5	68.85	115.59	112.82	6.52	19.0	234.81	121.99	0.0	36.67	20.0	39.34
12.51	6.44	71.38	115.68	112.91	6.46	18.5	234.99	122.08	0.0	36.62	20.0	39.12
12.52	6.41	72.49	115.68	113.01	6.43	18.5	235.18	122.16	0.0	36.59	20.0	39.0
12.53	6.36	72.86	115.78	113.11	6.38	18.5	235.36	122.25	0.0	36.54	20.0	38.82
12.54	6.36	73.51	115.87	113.21	6.38	18.5	235.55	122.34	0.0	36.54	20.0	38.81
12.55	6.37	73.09	115.97	113.31	6.39	18.5	235.73	122.42	0.0	36.55	20.0	38.83
12.56	6.39	72.66	116.35	113.4	6.41	18.5	235.92	122.51	0.0	36.56	20.0	38.89
12.57	6.41	71.54	116.73	113.5	6.43	18.5	236.1	122.6	0.0	36.58	20.0	38.95
12.58	6.42	71.34	116.92	113.6	6.44	18.5	236.29	122.69	0.0	36.58	20.0	38.97
12.59	6.49	69.77	117.02	113.7	6.51	18.5	236.47	122.77	0.0	36.64	20.0	39.2
12.6	6.57	68.52	117.59	113.8	6.59	19.0	236.66	122.86	0.0	36.7	20.0	39.45
12.61	6.61	68.03	117.88	113.89	6.63	19.0	236.85	122.96	0.0	36.73	20.0	39.57
12.62	6.71	66.98	118.07	113.99	6.73	19.0	237.04	123.05	0.0	36.8	20.0	39.89
12.63	6.74	66.45	117.97	114.09	6.76	19.0	237.23	123.14	0.0	36.82	20.0	39.98
12.64	6.79	66.48	118.35	114.19	6.81	19.0	237.42	123.23	0.0	36.86	20.0	40.12
12.65	6.83	66.52	118.55	114.29	6.85	19.0	237.61	123.32	0.0	36.89	20.0	40.24
12.66	6.94	66.09	118.64	114.38	6.96	19.0	237.8	123.42	0.0	36.97	20.0	40.58
12.67	7.0	65.43	118.93	114.48	7.02	19.0	237.99	123.51	0.0	37.01	20.0	40.76
12.68	7.14	64.87	118.83	114.58	7.16	19.0	238.18	123.6	0.0	37.11	20.0	41.19
12.69	7.24	65.3	118.93	114.68	7.26	19.0	238.37	123.69	0.0	37.18	20.0	41.48
12.7	7.29	65.33	119.02	114.78	7.31	19.0	238.56	123.78	0.0	37.21	20.0	41.62
12.71	7.38	65.4	119.12	114.88	7.4	19.0	238.75	123.87	0.0	37.27	20.0	41.89
12.72	7.41	65.37	119.12	114.97	7.43	19.0	238.94	123.97	0.0	37.29	20.0	41.97
12.73	7.5	65.83	119.21	115.07	7.52	19.0	239.13	124.06	0.0	37.35	20.0	42.23
12.74	7.58	66.88	119.21	115.17	7.6	19.0	239.32	124.15	0.0	37.4	20.0	42.45
12.75	7.6	67.7	119.31	115.27	7.62	19.0	239.51	124.24	0.0	37.41	20.0	42.49
12.76	7.6	69.18	119.12	115.37	7.62	19.0	239.7	124.33	0.0	37.4	20.0	42.47
12.77	7.61	69.9	118.74	115.46	7.63	19.0	239.89	124.43	0.0	37.41	20.0	42.48
12.78	7.6	69.54	118.74	115.56	7.62	19.0	240.08	124.52	0.0	37.4	20.0	42.44
12.79	7.63	69.96	119.21	115.66	7.65	19.0	240.27	124.61	0.0	37.41	20.0	42.52
12.8	7.67	71.02	119.5	115.76	7.69	19.0	240.46	124.7	0.0	37.44	20.0	42.62
12.81	7.82	72.33	119.31	115.86	7.84	19.0	240.65	124.79	0.0	37.53	20.0	43.05
12.82	7.89	72.76	119.6	115.95	7.91	19.0	240.84	124.89	0.0	37.57	20.0	43.24
12.83	8.11	74.14	119.88	116.05	8.13	19.0	241.03	124.98	0.0	37.71	20.0	43.87
12.84	8.25	74.14	120.17	116.15	8.27	19.0	241.22	125.07	0.0	37.8	20.0	44.26
12.85	8.54	73.94	121.12	116.25	8.56	19.0	241.41	125.16	0.0	37.97	20.0	45.08
12.86	8.77	74.07	121.7	116.35	8.79	19.0	241.6	125.25	0.0	38.11	20.0	45.72
12.87	9.17	73.31	122.27	116.44	9.19	19.0	241.79	125.35	0.0	38.33	20.0	46.82
12.88	9.47	72.69	122.55	116.54	9.49	19.0	241.98	125.44	0.0	38.5	20.0	47.63
12.89	9.66	71.44	122.46	116.64	9.68	19.0	242.17	125.53	0.0	38.61	20.0	48.18
12.9	10.08	67.99	122.75	116.74	10.1	19.0	242.36	125.62	0.0	38.83	20.0	49.31
12.91	10.08	67.99	122.75	116.84	10.1	19.0	242.55	125.71	0.0	38.83	20.0	49.3
12.92	10.08	67.99	122.75	116.94	10.1	19.0	242.74	125.8	0.0	38.83	20.0	49.29
12.93	10.7	49.99	119.02	117.03	10.72	19.5	242.94	125.9	0.0	39.16	20.0	51.03
12.94	10.79	49.47	118.16	117.13	10.81	19.5	243.13	126.0	0.0	39.2	20.0	51.26
12.95	10.88	54.0	117.78	117.23	10.9	19.5	243.33	126.1	0.0	39.23	20.0	51.43
12.96	10.94	55.45	118.55	117.33	10.96	19.5	243.52	126.19	0.0	39.25	20.0	51.55

12.97	11.04	57.65	118.07	117.43	11.06	19.5	243.72	126.29	0.0	39.3	20.0	51.77
12.98	11.09	62.31	118.55	117.52	11.11	19.5	243.91	126.39	0.0	39.31	20.0	51.85
12.99	11.07	64.41	118.35	117.62	11.09	19.5	244.11	126.48	0.0	39.29	20.0	51.76
13.0	11.0	68.58	117.69	117.72	11.02	19.5	244.3	126.58	0.0	39.25	20.0	51.54
13.01	10.95	70.98	117.69	117.82	10.97	19.5	244.5	126.68	0.0	39.22	20.0	51.38
13.02	10.8	75.22	117.69	117.92	10.82	19.5	244.69	126.77	0.0	39.14	20.0	50.96
13.03	10.71	78.47	117.78	118.01	10.73	19.0	244.88	126.87	0.0	39.09	20.0	50.69
13.04	10.54	85.37	117.78	118.11	10.56	19.0	245.07	126.96	0.0	39.0	20.0	50.2
13.05	10.45	87.83	117.59	118.21	10.47	19.0	245.26	127.05	0.0	38.95	20.0	49.94
13.06	10.27	93.35	117.88	118.31	10.29	19.0	245.45	127.14	0.0	38.85	20.0	49.42
13.07	9.96	101.56	117.97	118.41	9.98	19.0	245.64	127.23	0.0	38.67	20.0	48.5
13.08	9.91	105.34	118.83	118.5	9.93	19.0	245.83	127.33	0.0	38.64	20.0	48.34
13.09	9.73	107.02	119.02	118.6	9.75	19.0	246.02	127.42	0.0	38.54	20.0	47.84
13.1	9.63	111.09	119.12	118.7	9.65	19.0	246.21	127.51	0.0	38.48	20.0	47.54
13.11	9.58	112.76	119.12	118.8	9.6	19.0	246.4	127.6	0.0	38.45	20.0	47.38
13.12	9.45	113.45	119.4	118.9	9.47	19.0	246.59	127.69	0.0	38.37	20.0	47.02
13.13	9.35	113.85	119.31	119.0	9.37	19.0	246.78	127.78	0.0	38.32	20.0	46.74
13.14	9.13	114.51	119.4	119.09	9.15	19.0	246.97	127.88	0.0	38.19	20.0	46.12
13.15	8.9	114.41	119.21	119.19	8.92	19.0	247.16	127.97	0.0	38.06	20.0	45.48
13.16	8.79	114.57	119.21	119.29	8.81	19.0	247.35	128.06	0.0	37.99	20.0	45.16
13.17	8.59	114.51	119.5	119.39	8.61	19.0	247.54	128.15	0.0	37.87	20.0	44.59
13.18	8.5	113.62	119.5	119.49	8.52	19.0	247.73	128.24	0.0	37.81	20.0	44.33
13.19	8.36	113.09	119.5	119.58	8.38	18.5	247.92	128.33	0.0	37.72	20.0	43.92
13.2	8.3	111.78	119.5	119.68	8.32	18.5	248.1	128.42	0.0	37.68	20.0	43.74
13.21	8.23	108.49	119.6	119.78	8.25	18.5	248.29	128.5	0.0	37.64	20.0	43.55
13.22	8.21	106.16	119.6	119.88	8.23	19.0	248.48	128.6	0.0	37.63	20.0	43.49
13.23	8.26	101.92	119.98	119.98	8.28	19.0	248.67	128.69	0.0	37.66	20.0	43.64
13.24	8.39	96.11	120.26	120.07	8.41	19.0	248.86	128.78	0.0	37.75	20.0	44.03
13.25	8.46	93.91	120.55	120.17	8.48	19.0	249.05	128.87	0.0	37.79	20.0	44.23
13.26	8.67	87.77	121.12	120.27	8.69	19.0	249.24	128.96	0.0	37.92	20.0	44.85
13.27	8.75	84.78	121.22	120.37	8.77	19.0	249.43	129.06	0.0	37.97	20.0	45.08
13.28	8.88	79.03	121.12	120.47	8.9	19.0	249.62	129.15	0.0	38.06	20.0	45.52
13.29	8.95	72.95	120.07	120.56	8.97	19.0	249.81	129.24	0.0	38.11	20.0	45.75
13.3	8.95	69.7	119.5	120.66	8.97	19.0	250.0	129.33	0.0	38.11	20.0	45.76
13.31	8.9	63.59	119.69	120.76	8.92	19.0	250.19	129.42	0.0	38.09	20.0	45.66
13.32	8.87	59.98	120.45	120.86	8.89	19.0	250.38	129.52	0.0	38.08	20.0	45.59
13.33	8.83	58.76	120.74	120.96	8.85	19.0	250.57	129.61	0.0	38.06	20.0	45.48
13.34	8.78	58.3	121.22	121.06	8.8	19.0	250.76	129.7	0.0	38.03	20.0	45.33
13.35	8.77	57.81	121.41	121.15	8.79	19.0	250.95	129.79	0.0	38.02	20.0	45.3
13.36	8.72	59.72	121.7	121.25	8.74	19.0	251.14	129.88	0.0	37.98	20.0	45.13
13.37	8.68	61.33	121.5	121.35	8.7	19.0	251.33	129.98	0.0	37.95	20.0	44.99
13.38	8.65	65.4	121.7	121.45	8.67	19.0	251.52	130.07	0.0	37.93	20.0	44.86
13.39	8.62	67.14	121.98	121.55	8.64	19.0	251.71	130.16	0.0	37.9	20.0	44.75
13.4	8.59	70.29	122.36	121.64	8.61	19.0	251.9	130.25	0.0	37.88	20.0	44.63
13.41	8.59	71.8	122.55	121.74	8.61	19.0	252.09	130.34	0.0	37.87	20.0	44.6
13.42	8.56	75.52	123.03	121.84	8.58	19.0	252.28	130.43	0.0	37.84	20.0	44.48
13.43	8.55	77.65	123.13	121.94	8.57	19.0	252.47	130.53	0.0	37.83	20.0	44.42
13.44	8.5	82.77	123.13	122.04	8.52	19.0	252.66	130.62	0.0	37.79	20.0	44.23
13.45	8.46	86.39	123.13	122.13	8.48	19.0	252.85	130.71	0.0	37.75	20.0	44.03
13.46	8.43	87.96	123.32	122.23	8.45	19.0	253.04	130.8	0.0	37.72	20.0	43.92
13.47	8.38	90.33	123.51	122.33	8.4	19.0	253.23	130.89	0.0	37.69	20.0	43.75
13.48	8.29	91.87	124.18	122.43	8.31	19.0	253.42	130.99	0.0	37.63	20.0	43.47
13.49	8.27	92.83	124.18	122.53	8.29	19.0	253.61	131.08	0.0	37.61	20.0	43.4
13.5	8.24	92.4	124.08	122.62	8.26	19.0	253.8	131.17	0.0	37.59	20.0	43.3
13.51	8.22	91.97	123.99	122.72	8.24	19.0	253.99	131.26	0.0	37.57	20.0	43.24
13.52	8.19	91.91	124.18	122.82	8.21	19.0	254.18	131.35	0.0	37.55	20.0	43.14
13.53	8.17	92.5	124.08	122.92	8.19	19.0	254.37	131.45	0.0	37.54	20.0	43.07
13.54	8.17	92.96	124.27	123.02	8.19	19.0	254.56	131.54	0.0	37.53	20.0	43.05
13.55	8.17	93.29	124.65	123.12	8.19	19.0	254.75	131.63	0.0	37.53	20.0	43.04
13.56	8.18	93.25	124.75	123.21	8.2	19.0	254.94	131.72	0.0	37.53	20.0	43.05
13.57	8.17	93.78	125.13	123.31	8.2	19.0	255.13	131.81	0.0	37.52	20.0	43.01
13.58	8.16	93.45	125.32	123.41	8.19	19.0	255.32	131.91	0.0	37.51	20.0	42.97
13.59	8.13	92.96	125.42	123.51	8.16	19.0	255.51	132.0	0.0	37.49	20.0	42.88
13.6	8.1	93.09	125.61	123.61	8.13	19.0	255.7	132.09	0.0	37.47	20.0	42.78
13.61	8.06	92.92	125.61	123.7	8.09	19.0	255.89	132.18	0.0	37.44	20.0	42.65
13.62	8.02	90.76	125.7	123.8	8.05	19.0	256.08	132.27	0.0	37.42	20.0	42.53
13.63	8.01	90.26	125.8	123.9	8.04	19.0	256.27	132.36	0.0	37.41	20.0	42.5
13.64	7.95	90.66	126.09	124.0	7.98	19.0	256.46	132.46	0.0	37.37	20.0	42.31
13.65	7.92	90.89	126.09	124.1	7.95	19.0	256.65	132.55	0.0	37.34	20.0	42.21
13.66	7.86	90.63	126.09	124.19	7.89	19.0	256.84	132.64	0.0	37.3	20.0	42.02
13.67	7.81	89.64	126.28	124.29	7.84	19.0	257.03	132.73	0.0	37.27	20.0	41.87
13.68	7.79	89.61	126.37	124.39	7.82	19.0	257.22	132.82	0.0	37.25	20.0	41.8
13.69	7.74	89.61	126.66	124.49	7.77	19.0	257.41	132.92	0.0	37.21	20.0	41.64

13.7	7.74	89.44	126.94	124.59	7.77	19.0	257.6	133.01	0.0	37.21	20.0	41.63
13.71	7.74	89.02	127.04	124.69	7.77	19.0	257.79	133.1	0.0	37.21	20.0	41.62
13.72	7.77	88.49	127.33	124.78	7.8	19.0	257.98	133.19	0.0	37.23	20.0	41.7
13.73	7.8	88.49	127.42	124.88	7.83	19.0	258.17	133.28	0.0	37.25	20.0	41.78
13.74	7.82	87.96	127.61	124.98	7.85	19.0	258.36	133.38	0.0	37.26	20.0	41.83
13.75	7.84	88.26	127.8	125.08	7.87	19.0	258.55	133.47	0.0	37.27	20.0	41.87
13.76	7.9	87.96	127.9	125.18	7.93	19.0	258.74	133.56	0.0	37.3	20.0	42.04
13.77	7.91	87.57	128.09	125.27	7.94	19.0	258.93	133.65	0.0	37.31	20.0	42.06
13.78	7.98	86.65	128.57	125.37	8.01	19.0	259.12	133.74	0.0	37.37	20.0	42.31
13.79	8.01	86.16	128.85	125.47	8.04	19.0	259.31	133.84	0.0	37.39	20.0	42.39
13.8	8.07	85.99	129.43	125.57	8.1	19.0	259.5	133.93	0.0	37.42	20.0	42.56
13.81	8.1	84.71	129.33	125.67	8.13	19.0	259.69	134.02	0.0	37.44	20.0	42.64
13.82	8.11	84.58	129.43	125.76	8.14	19.0	259.88	134.11	0.0	37.45	20.0	42.66
13.83	8.11	84.65	129.71	125.86	8.14	19.0	260.07	134.2	0.0	37.44	20.0	42.65
13.84	8.13	84.84	130.0	125.96	8.16	19.0	260.26	134.29	0.0	37.45	20.0	42.69
13.85	8.23	85.01	130.19	126.06	8.26	19.0	260.45	134.39	0.0	37.51	20.0	42.97
13.86	8.27	84.06	130.19	126.16	8.3	19.0	260.64	134.48	0.0	37.54	20.0	43.08
13.87	8.27	84.55	130.19	126.25	8.3	19.0	260.83	134.57	0.0	37.54	20.0	43.06
13.88	8.22	85.24	130.29	126.35	8.25	19.0	261.02	134.66	0.0	37.5	20.0	42.9
13.89	8.23	85.86	130.57	126.45	8.26	19.0	261.21	134.75	0.0	37.5	20.0	42.92
13.9	8.23	85.86	130.57	126.55	8.26	19.0	261.4	134.85	0.0	37.5	20.0	42.9
13.91	8.23	85.86	130.57	126.65	8.26	19.0	261.59	134.94	0.0	37.5	20.0	42.89
13.92	8.68	72.92	125.7	126.75	8.71	19.0	261.78	135.03	0.0	37.8	20.0	44.26
13.93	8.75	73.84	126.09	126.84	8.78	19.0	261.97	135.12	0.0	37.83	20.0	44.43
13.94	8.79	75.84	126.75	126.94	8.82	19.0	262.16	135.21	0.0	37.85	20.0	44.52
13.95	8.79	76.86	126.94	127.04	8.82	19.0	262.35	135.31	0.0	37.85	20.0	44.5
13.96	8.76	79.42	127.42	127.14	8.79	19.0	262.54	135.4	0.0	37.82	20.0	44.38
13.97	8.76	80.8	127.52	127.24	8.79	19.0	262.73	135.49	0.0	37.82	20.0	44.36
13.98	8.78	82.97	127.8	127.33	8.81	19.0	262.92	135.58	0.0	37.82	20.0	44.38
13.99	8.81	83.69	127.99	127.43	8.84	19.0	263.11	135.67	0.0	37.84	20.0	44.45
14.0	8.89	85.17	128.47	127.53	8.92	19.0	263.3	135.77	0.0	37.88	20.0	44.65
14.01	8.98	87.24	128.95	127.63	9.01	19.0	263.49	135.86	0.0	37.93	20.0	44.87
14.02	9.02	88.03	129.24	127.73	9.05	19.0	263.68	135.95	0.0	37.95	20.0	44.96
14.03	9.05	90.82	129.43	127.82	9.08	19.0	263.87	136.04	0.0	37.96	20.0	45.01
14.04	9.07	93.65	129.9	127.92	9.1	19.0	264.06	136.13	0.0	37.96	20.0	45.03
14.05	9.08	94.17	130.0	128.02	9.11	19.0	264.25	136.22	0.0	37.96	20.0	45.04
14.06	9.08	95.55	130.29	128.12	9.11	19.0	264.44	136.32	0.0	37.96	20.0	45.02
14.07	9.11	96.77	130.86	128.22	9.14	19.0	264.63	136.41	0.0	37.97	20.0	45.08
14.08	9.12	96.7	130.95	128.31	9.15	19.0	264.82	136.5	0.0	37.98	20.0	45.1
14.09	9.15	97.82	131.14	128.41	9.18	19.0	265.01	136.59	0.0	37.99	20.0	45.16
14.1	9.16	98.02	131.34	128.51	9.19	19.0	265.2	136.68	0.0	37.99	20.0	45.17
14.11	9.21	97.72	131.62	128.61	9.24	19.0	265.39	136.78	0.0	38.02	20.0	45.3
14.12	9.26	97.42	131.91	128.71	9.29	19.0	265.58	136.87	0.0	38.05	20.0	45.43
14.13	9.26	97.13	132.0	128.81	9.29	19.0	265.77	136.96	0.0	38.04	20.0	45.42
14.14	9.24	97.52	132.0	128.9	9.27	19.0	265.96	137.05	0.0	38.03	20.0	45.35
14.15	9.17	100.68	132.67	129.0	9.2	19.0	266.15	137.14	0.0	37.98	20.0	45.12
14.16	9.15	101.07	132.67	129.1	9.18	19.0	266.34	137.24	0.0	37.97	20.0	45.05
14.17	9.14	101.07	132.67	129.2	9.17	19.0	266.53	137.33	0.0	37.96	20.0	45.02
14.18	9.17	100.48	133.05	129.3	9.2	19.0	266.72	137.42	0.0	37.97	20.0	45.09
14.19	9.21	99.89	133.53	129.39	9.24	19.0	266.91	137.51	0.0	38.0	20.0	45.19
14.2	9.25	99.79	133.91	129.49	9.28	19.0	267.1	137.6	0.0	38.02	20.0	45.29
14.21	9.27	99.82	134.1	129.59	9.3	19.0	267.29	137.69	0.0	38.03	20.0	45.33
14.22	9.24	100.32	134.39	129.69	9.27	19.0	267.48	137.79	0.0	38.0	20.0	45.23
14.23	9.24	100.68	134.58	129.79	9.27	19.0	267.67	137.88	0.0	38.0	20.0	45.22
14.24	9.25	101.6	135.15	129.88	9.28	19.0	267.86	137.97	0.0	38.0	20.0	45.23
14.25	9.25	101.79	135.34	129.98	9.28	19.0	268.05	138.06	0.0	38.0	20.0	45.21
14.26	9.15	104.59	134.68	130.08	9.18	19.0	268.24	138.15	0.0	37.94	20.0	44.91
14.27	9.2	104.72	135.25	130.18	9.23	19.0	268.43	138.25	0.0	37.96	20.0	45.03
14.28	9.29	105.14	136.01	130.28	9.32	19.0	268.62	138.34	0.0	38.01	20.0	45.26
14.29	9.41	103.57	136.78	130.37	9.44	19.0	268.81	138.43	0.0	38.08	20.0	45.58
14.3	9.47	103.27	137.25	130.47	9.5	19.0	269.0	138.52	0.0	38.11	20.0	45.73
14.31	9.52	103.4	137.83	130.57	9.55	19.0	269.19	138.61	0.0	38.14	20.0	45.86
14.32	9.52	104.06	138.11	130.67	9.55	19.0	269.38	138.71	0.0	38.13	20.0	45.84
14.33	9.52	104.75	138.49	130.77	9.55	19.0	269.57	138.8	0.0	38.13	20.0	45.82
14.34	9.53	105.28	138.88	130.87	9.56	19.0	269.76	138.89	0.0	38.13	20.0	45.83
14.35	9.54	105.74	138.97	130.96	9.57	19.0	269.95	138.98	0.0	38.13	20.0	45.84
14.36	9.6	106.19	139.35	131.06	9.63	19.0	270.14	139.07	0.0	38.16	20.0	45.99
14.37	9.65	106.16	139.73	131.16	9.68	19.0	270.33	139.17	0.0	38.19	20.0	46.11
14.38	9.76	106.36	140.4	131.26	9.79	19.0	270.52	139.26	0.0	38.25	20.0	46.38
14.39	9.79	106.1	140.5	131.36	9.82	19.0	270.71	139.35	0.0	38.26	20.0	46.45
14.4	9.82	105.97	140.78	131.45	9.85	19.0	270.9	139.44	0.0	38.27	20.0	46.52
14.41	9.83	105.6	141.07	131.55	9.86	19.0	271.09	139.53	0.0	38.28	20.0	46.54
14.42	9.84	105.51	141.17	131.65	9.87	19.0	271.28	139.62	0.0	38.28	20.0	46.55

14.43	9.82	106.1	141.36	131.75	9.85	19.0	271.47	139.72	0.0	38.27	20.0	46.48
14.44	9.83	106.92	141.55	131.85	9.86	19.0	271.66	139.81	0.0	38.27	20.0	46.49
14.45	9.87	108.43	141.83	131.94	9.9	19.0	271.85	139.9	0.0	38.28	20.0	46.57
14.46	9.89	108.79	141.83	132.04	9.92	19.0	272.04	139.99	0.0	38.29	20.0	46.61
14.47	9.95	109.09	142.22	132.14	9.98	19.0	272.23	140.08	0.0	38.32	20.0	46.75
14.48	9.95	109.25	142.41	132.24	9.98	19.0	272.42	140.18	0.0	38.32	20.0	46.74
14.49	9.93	109.55	142.6	132.34	9.96	19.0	272.61	140.27	0.0	38.3	20.0	46.67
14.5	9.88	109.97	142.88	132.44	9.91	19.0	272.8	140.36	0.0	38.27	20.0	46.53
14.51	9.85	110.66	143.08	132.53	9.88	19.0	272.99	140.45	0.0	38.26	20.0	46.43
14.52	9.84	111.58	143.17	132.63	9.87	19.0	273.18	140.54	0.0	38.25	20.0	46.39
14.53	9.87	111.84	143.17	132.73	9.9	19.0	273.37	140.64	0.0	38.26	20.0	46.45
14.54	9.89	111.78	143.36	132.83	9.92	19.0	273.56	140.73	0.0	38.27	20.0	46.49
14.55	9.97	111.65	143.65	132.93	10.0	19.0	273.75	140.82	0.0	38.31	20.0	46.69
14.56	10.04	112.11	143.93	133.02	10.07	19.0	273.94	140.91	0.0	38.34	20.0	46.86
14.57	10.22	111.94	144.6	133.12	10.25	19.0	274.13	141.0	0.0	38.43	20.0	47.31
14.58	10.35	112.01	144.89	133.22	10.38	19.0	274.32	141.1	0.0	38.5	20.0	47.63
14.59	10.55	111.61	145.75	133.32	10.58	19.0	274.51	141.19	0.0	38.6	20.0	48.13
14.6	10.8	111.32	146.8	133.42	10.83	19.0	274.7	141.28	0.0	38.72	20.0	48.75
14.61	10.93	110.92	147.18	133.51	10.96	19.0	274.89	141.37	0.0	38.78	20.0	49.06
14.62	11.16	109.61	147.85	133.61	11.19	19.0	275.08	141.46	0.0	38.89	20.0	49.63
14.63	11.26	109.78	148.23	133.71	11.29	19.0	275.27	141.55	0.0	38.94	20.0	49.86
14.64	11.38	109.15	148.61	133.81	11.41	19.0	275.46	141.65	0.0	38.99	20.0	50.15
14.65	11.43	108.63	148.52	133.91	11.46	19.0	275.65	141.74	0.0	39.01	20.0	50.26
14.66	11.42	108.49	148.52	134.0	11.45	19.0	275.84	141.83	0.0	39.0	20.0	50.22
14.67	11.35	108.82	148.52	134.1	11.38	19.0	276.03	141.92	0.0	38.97	20.0	50.04
14.68	11.24	110.73	147.94	134.2	11.27	19.0	276.22	142.01	0.0	38.91	20.0	49.74
14.69	11.16	112.27	147.56	134.3	11.19	19.0	276.41	142.11	0.0	38.87	20.0	49.52
14.7	10.91	115.13	147.27	134.4	10.94	19.0	276.6	142.2	0.0	38.74	20.0	48.87
14.71	10.8	117.03	147.08	134.5	10.83	19.0	276.79	142.29	0.0	38.68	20.0	48.57
14.72	10.6	119.2	146.42	134.59	10.63	19.0	276.98	142.38	0.0	38.58	20.0	48.04
14.73	10.51	119.96	146.23	134.69	10.54	19.0	277.17	142.47	0.0	38.53	20.0	47.8
14.74	10.29	121.5	145.65	134.79	10.32	19.0	277.36	142.57	0.0	38.41	20.0	47.21
14.75	10.19	122.98	145.75	134.89	10.22	19.0	277.55	142.66	0.0	38.36	20.0	46.94
14.76	9.97	124.79	145.65	134.99	10.0	19.0	277.74	142.75	0.0	38.24	20.0	46.35
14.77	9.89	124.98	145.75	135.08	9.92	19.0	277.93	142.84	0.0	38.19	20.0	46.13
14.78	9.76	125.31	145.56	135.18	9.79	19.0	278.12	142.93	0.0	38.12	20.0	45.77
14.79	9.72	125.18	145.46	135.28	9.75	19.0	278.31	143.03	0.0	38.09	20.0	45.66
14.8	9.7	124.03	145.56	135.38	9.73	19.0	278.5	143.12	0.0	38.08	20.0	45.6
14.81	9.71	121.6	145.84	135.48	9.74	19.0	278.69	143.21	0.0	38.09	20.0	45.63
14.82	9.7	120.98	145.94	135.57	9.73	19.0	278.88	143.3	0.0	38.08	20.0	45.6
14.83	9.73	118.71	146.42	135.67	9.76	19.0	279.07	143.39	0.0	38.1	20.0	45.68
14.84	9.74	117.36	146.61	135.77	9.77	19.0	279.26	143.48	0.0	38.1	20.0	45.71
14.85	9.76	114.14	147.08	135.87	9.79	19.0	279.45	143.58	0.0	38.12	20.0	45.77
14.86	9.67	111.81	146.8	135.97	9.7	19.0	279.64	143.67	0.0	38.07	20.0	45.54
14.87	9.6	111.52	146.89	136.06	9.63	19.0	279.83	143.76	0.0	38.03	20.0	45.35
14.88	9.44	111.48	146.99	136.16	9.47	19.0	280.02	143.85	0.0	37.94	20.0	44.92
14.89	9.35	110.92	146.99	136.26	9.38	19.0	280.21	143.94	0.0	37.88	20.0	44.67
14.9	9.35	110.92	146.99	136.36	9.38	19.0	280.4	144.04	0.0	37.88	20.0	44.66
14.91	9.35	110.92	146.99	136.46	9.38	19.0	280.59	144.13	0.0	37.88	20.0	44.65
14.92	8.37	82.81	137.54	136.56	8.4	19.0	280.78	144.22	0.0	37.34	20.0	42.18
14.93	8.21	83.66	137.35	136.65	8.24	19.0	280.97	144.31	0.0	37.23	20.0	41.71
14.94	7.87	84.45	137.16	136.75	7.9	19.0	281.16	144.4	0.0	37.0	20.0	40.71
14.95	7.7	84.29	136.68	136.85	7.73	19.0	281.35	144.5	0.0	36.88	20.0	40.21
14.96	7.25	84.15	135.15	136.95	7.28	19.0	281.54	144.59	0.0	36.55	20.0	38.86
14.97	6.96	84.12	134.1	137.05	6.99	18.5	281.72	144.67	0.0	36.33	20.0	37.97
14.98	6.26	83.07	132.1	137.14	6.29	18.5	281.91	144.76	0.0	35.74	20.0	35.69
14.99	5.27	83.89	130.48	137.24	5.3	18.5	282.09	144.85	0.0	34.81	20.0	32.36
15.0	4.86	84.65	130.19	137.34	4.89	18.5	282.28	144.94	0.0	34.36	20.0	30.89
15.01	3.98	86.72	129.14	137.44	4.01	18.0	282.46	145.02	265.96	0.0	20.0	0.0
15.02	3.63	88.19	128.85	137.54	3.66	18.0	282.64	145.1	240.94	0.0	20.0	0.0
15.03	2.91	90.79	129.33	137.63	2.94	18.0	282.82	145.18	189.5	0.0	20.0	0.0
15.04	2.65	91.78	129.71	137.73	2.68	18.0	283.0	145.26	170.92	0.0	20.0	0.0
15.05	2.23	92.96	130.95	137.83	2.26	18.0	283.18	145.34	140.93	0.0	20.0	0.0
15.06	1.96	94.53	134.1	137.93	1.99	17.5	283.35	145.42	121.68	0.0	20.0	0.0
15.07	1.85	94.3	135.34	138.03	1.88	17.5	283.53	145.5	113.82	0.0	20.0	0.0
15.08	1.69	94.63	144.41	138.12	1.72	17.5	283.7	145.58	102.51	0.0	20.0	0.0
15.09	1.63	95.98	156.53	138.22	1.66	17.5	283.88	145.65	98.39	0.0	20.0	0.0
15.1	1.42	99.95	167.8	138.32	1.45	17.5	284.05	145.73	83.54	0.0	20.0	0.0
15.11	1.32	100.68	170.18	138.42	1.35	17.5	284.23	145.81	76.42	0.0	20.0	0.0
15.12	1.21	100.71	184.4	138.52	1.25	17.5	284.4	145.88	68.75	0.0	20.0	0.0
15.13	1.2	97.79	212.08	138.62	1.24	17.5	284.58	145.96	68.42	0.0	20.0	0.0
15.14	1.38	86.52	250.55	138.71	1.43	17.5	284.75	146.04	81.81	0.0	20.0	0.0
15.15	1.5	77.03	312.68	138.81	1.56	17.5	284.93	146.11	91.26	0.0	28.26	0.0

15.16	1.57	72.23	337.88	138.91	1.64	17.5	285.1	146.19	96.61	0.0	29.26	0.0
15.17	1.51	61.42	315.17	139.01	1.57	18.0	285.28	146.27	91.98	0.0	28.44	0.0
15.18	1.35	53.61	294.74	139.11	1.41	18.0	285.46	146.35	80.25	0.0	27.05	0.0
15.19	1.26	47.99	290.83	139.2	1.32	18.0	285.64	146.44	73.75	0.0	26.41	0.0
15.2	1.06	38.43	304.09	139.3	1.12	18.0	285.82	146.52	59.64	0.0	25.43	0.0
15.21	1.02	37.25	324.71	139.4	1.08	17.5	286.0	146.59	57.07	0.0	25.71	0.0
15.22	1.05	32.42	377.4	139.5	1.13	18.0	286.18	146.68	59.95	0.0	27.41	0.0
15.23	1.05	27.49	397.63	139.6	1.13	18.0	286.36	146.76	60.23	0.0	27.97	0.0
15.24	1.05	20.4	426.94	139.69	1.14	18.0	286.54	146.84	60.63	0.0	28.78	0.0
15.25	1.1	16.82	430.08	139.79	1.19	18.0	286.72	146.92	64.24	0.0	29.24	0.0
15.26	1.25	15.01	425.6	139.89	1.34	18.0	286.9	147.0	74.87	0.0	30.07	0.0
15.27	1.25	13.96	416.44	139.99	1.33	18.0	287.08	147.09	74.73	0.0	29.88	0.0
15.28	1.48	13.5	400.5	140.09	1.56	18.0	287.26	147.17	90.92	0.0	30.73	0.0
15.29	2.02	14.19	434.67	140.18	2.11	18.5	287.44	147.26	0.0	29.75	20.0	19.06
15.3	3.7	12.55	457.48	140.28	3.79	19.0	287.63	147.35	0.0	33.17	20.0	27.26
15.31	4.8	12.78	455.86	140.38	4.89	19.0	287.82	147.44	0.0	34.58	20.0	31.6
15.32	6.93	13.99	290.25	140.48	6.99	19.0	288.01	147.53	0.0	36.51	20.0	38.67
15.33	7.48	12.88	240.62	140.58	7.53	19.0	288.2	147.62	0.0	36.91	20.0	40.35
15.34	7.98	15.8	208.46	140.68	8.02	19.5	288.4	147.72	0.0	37.23	20.0	41.72
15.35	8.28	21.15	206.26	140.77	8.32	19.5	288.59	147.82	0.0	37.4	20.0	42.45
15.36	8.39	23.85	203.88	140.87	8.43	19.5	288.79	147.91	0.0	37.45	20.0	42.69
15.37	8.55	29.04	201.78	140.97	8.59	19.5	288.98	148.01	0.0	37.53	20.0	43.02
15.38	8.55	31.86	200.06	141.07	8.59	19.5	289.18	148.11	0.0	37.51	20.0	42.95
15.39	8.49	40.66	197.58	141.17	8.53	19.0	289.37	148.2	0.0	37.43	20.0	42.61
15.4	8.38	47.83	194.43	141.26	8.42	19.0	289.56	148.29	0.0	37.34	20.0	42.18
15.41	8.29	51.14	192.9	141.36	8.33	19.0	289.75	148.38	0.0	37.27	20.0	41.86
15.42	8.2	54.07	191.28	141.46	8.24	19.0	289.94	148.47	0.0	37.19	20.0	41.56
15.43	8.09	57.71	189.65	141.56	8.13	19.0	290.13	148.57	0.0	37.11	20.0	41.18
15.44	7.81	64.35	187.08	141.66	7.85	19.0	290.32	148.66	0.0	36.9	20.0	40.28
15.45	7.47	69.6	183.74	141.75	7.51	19.0	290.51	148.75	0.0	36.64	20.0	39.21
15.46	7.25	71.05	182.02	141.85	7.29	19.0	290.7	148.84	0.0	36.47	20.0	38.53
15.47	6.71	72.26	178.3	141.95	6.75	19.0	290.89	148.93	0.0	36.05	20.0	36.85
15.48	6.36	72.66	176.29	142.05	6.4	18.5	291.07	149.02	0.0	35.75	20.0	35.73
15.49	5.56	75.38	172.09	142.15	5.59	18.5	291.26	149.11	0.0	34.99	20.0	32.99
15.5	5.12	77.62	169.99	142.24	5.15	18.5	291.44	149.2	0.0	34.53	20.0	31.44
15.51	4.23	80.9	166.17	142.34	4.26	18.5	291.63	149.28	283.69	0.0	20.0	0.0
15.52	3.79	83.04	164.65	142.44	3.82	18.0	291.81	149.36	252.22	0.0	20.0	0.0
15.53	3.02	86.95	162.16	142.54	3.05	18.0	291.99	149.45	197.17	0.0	20.0	0.0
15.54	2.71	89.31	161.11	142.64	2.74	18.0	292.17	149.53	175.0	0.0	20.0	0.0
15.55	2.22	93.81	159.97	142.74	2.25	18.0	292.35	149.61	139.97	0.0	20.0	0.0
15.56	1.85	98.8	160.16	142.83	1.88	17.5	292.52	149.69	113.54	0.0	20.0	0.0
15.57	1.72	100.81	161.02	142.93	1.75	17.5	292.7	149.76	104.25	0.0	20.0	0.0
15.58	1.54	101.1	164.26	143.03	1.57	17.5	292.87	149.84	91.43	0.0	20.0	0.0
15.59	1.5	100.58	171.42	143.13	1.53	17.5	293.05	149.92	88.66	0.0	20.0	0.0
15.6	1.3	103.07	208.27	143.23	1.34	17.5	293.22	149.99	74.89	0.0	20.0	0.0
15.61	1.22	104.72	222.49	143.32	1.26	17.5	293.4	150.07	69.36	0.0	20.0	0.0
15.62	1.11	100.25	271.55	143.42	1.16	17.5	293.57	150.15	62.2	0.0	23.86	0.0
15.63	1.07	97.56	324.81	143.52	1.13	17.5	293.75	150.22	60.09	0.0	25.15	0.0
15.64	1.11	88.59	437.24	143.62	1.2	17.5	293.92	150.3	64.54	0.0	28.3	0.0
15.65	1.14	76.96	462.82	143.72	1.23	17.5	294.1	150.38	67.03	0.0	29.11	0.0
15.66	1.09	70.52	457.76	143.81	1.18	17.5	294.27	150.46	63.38	0.0	28.71	0.0
15.67	1.07	59.45	434.67	143.91	1.16	17.5	294.45	150.53	61.61	0.0	28.12	0.0
15.68	1.06	52.79	401.64	144.01	1.14	17.5	294.62	150.61	60.41	0.0	27.31	0.0
15.69	1.01	42.44	365.85	144.11	1.08	17.5	294.8	150.69	56.31	0.0	26.09	0.0
15.7	0.96	38.56	377.88	144.21	1.04	17.5	294.97	150.76	52.9	0.0	26.02	0.0
15.71	0.91	30.81	404.41	144.31	0.99	18.0	295.15	150.84	49.7	0.0	26.39	0.0
15.72	0.9	27.3	420.83	144.4	0.98	18.0	295.33	150.93	49.2	0.0	26.78	0.0
15.73	0.91	21.97	437.24	144.5	1.0	18.0	295.51	151.01	50.14	0.0	27.41	0.0
15.74	0.91	18.69	439.73	144.6	1.0	18.0	295.69	151.09	50.16	0.0	27.52	0.0
15.75	0.9	12.78	379.02	144.7	0.98	18.0	295.87	151.17	48.57	0.0	25.95	0.0
15.76	0.88	11.5	383.7	144.8	0.96	18.0	296.05	151.25	47.19	0.0	25.92	0.0
15.77	0.87	11.69	431.33	144.89	0.96	18.0	296.23	151.34	47.15	0.0	27.12	0.0
15.78	0.87	11.99	435.72	144.99	0.96	18.0	296.41	151.42	47.2	0.0	27.22	0.0
15.79	0.9	11.04	445.07	145.09	0.99	18.0	296.59	151.5	49.46	0.0	27.72	0.0
15.8	0.91	10.81	451.66	145.19	1.0	18.0	296.77	151.58	50.25	0.0	27.96	0.0
15.81	0.95	10.28	453.76	145.29	1.04	18.0	296.95	151.66	53.13	0.0	28.32	0.0
15.82	0.97	9.76	438.58	145.38	1.06	18.0	297.13	151.75	54.33	0.0	28.1	0.0
15.83	1.08	9.53	440.97	145.48	1.17	18.0	297.31	151.83	62.21	0.0	28.92	0.0
15.84	1.26	7.69	414.53	145.58	1.34	18.0	297.49	151.91	74.67	0.0	29.5	0.0
15.85	1.43	8.67	394.1	145.68	1.51	18.0	297.67	151.99	86.51	0.0	29.93	0.0
15.86	1.85	9.59	373.96	145.78	1.92	18.5	297.86	152.08	0.0	29.06	20.0	17.74
15.87	2.1	10.45	371.1	145.87	2.17	18.5	298.04	152.17	0.0	29.79	20.0	19.14
15.88	2.67	10.48	355.25	145.97	2.74	18.5	298.23	152.25	0.0	31.16	20.0	22.09

15.89	2.96	9.85	334.83	146.07	3.03	18.5	298.41	152.34	0.0	31.76	20.0	23.52
15.9	2.96	9.85	334.83	146.17	3.03	18.5	298.6	152.43	0.0	31.75	20.0	23.51
15.91	2.96	9.85	334.83	146.27	3.03	18.5	298.78	152.51	0.0	31.75	20.0	23.51
15.92	1.69	16.75	154.62	146.37	1.72	18.0	298.96	152.59	101.57	0.0	20.0	0.0
15.93	1.43	24.7	152.24	146.46	1.46	18.0	299.14	152.68	82.95	0.0	20.0	0.0
15.94	1.31	31.27	151.47	146.56	1.34	18.0	299.32	152.76	74.36	0.0	20.0	0.0
15.95	1.11	43.1	156.63	146.66	1.14	17.5	299.5	152.84	60.13	0.0	20.0	0.0
15.96	1.07	42.83	179.44	146.76	1.11	17.5	299.67	152.91	57.59	0.0	20.0	0.0
15.97	1.09	42.6	200.25	146.86	1.13	17.5	299.85	152.99	59.3	0.0	20.0	0.0
15.98	1.36	40.86	276.7	146.95	1.42	18.0	300.03	153.07	79.67	0.0	25.8	0.0
15.99	1.54	39.71	309.15	147.05	1.6	18.0	300.21	153.15	92.97	0.0	27.76	0.0
16.0	2.04	38.2	349.53	147.15	2.11	18.0	300.39	153.24	129.25	0.0	30.86	0.0
16.01	2.25	36.85	360.41	147.25	2.32	18.0	300.57	153.32	144.39	0.0	31.78	0.0
16.02	2.34	33.21	349.53	147.35	2.41	18.0	300.75	153.4	150.65	0.0	20.0	0.0
16.03	2.15	30.71	288.92	147.44	2.21	18.0	300.93	153.48	136.2	0.0	20.0	0.0
16.04	1.98	30.29	301.9	147.54	2.04	18.0	301.11	153.56	124.23	0.0	20.0	0.0
16.05	2.0	27.0	331.3	147.64	2.07	18.0	301.29	153.64	126.07	0.0	30.36	0.0
16.06	2.39	25.62	367.47	147.74	2.46	18.5	301.47	153.73	154.43	0.0	32.42	0.0
16.07	3.74	25.75	436.19	147.84	3.83	18.5	301.66	153.82	0.0	32.92	20.0	26.58
16.08	5.63	26.54	450.13	147.93	5.72	19.0	301.85	153.91	0.0	35.17	20.0	33.62
16.09	6.14	23.81	279.66	148.03	6.2	19.0	302.04	154.0	0.0	35.63	20.0	35.27
16.1	6.18	21.45	189.75	148.13	6.22	19.0	302.23	154.09	0.0	35.66	20.0	35.38
16.11	6.0	23.26	182.59	148.23	6.04	19.0	302.42	154.19	0.0	35.48	20.0	34.73
16.12	5.58	23.78	177.63	148.33	5.62	19.0	302.61	154.28	0.0	35.08	20.0	33.29
16.13	5.56	25.62	176.67	148.43	5.6	19.0	302.8	154.37	0.0	35.04	20.0	33.17
16.14	6.07	34.59	179.92	148.52	6.11	19.0	302.99	154.46	0.0	35.48	20.0	34.71
16.15	6.47	38.6	182.3	148.62	6.51	19.0	303.18	154.55	0.0	35.81	20.0	35.93
16.16	7.13	43.49	187.17	148.72	7.17	19.0	303.37	154.65	0.0	36.31	20.0	37.9
16.17	7.43	47.83	189.65	148.82	7.47	19.0	303.56	154.74	0.0	36.52	20.0	38.72
16.18	8.18	51.73	194.71	148.92	8.22	19.0	303.75	154.83	0.0	37.03	20.0	40.84
16.19	8.53	52.62	195.57	149.01	8.57	19.0	303.94	154.92	0.0	37.25	20.0	41.8
16.2	9.03	52.49	190.42	149.11	9.07	19.0	304.13	155.01	0.0	37.56	20.0	43.17
16.21	9.13	53.05	191.09	149.21	9.17	19.0	304.32	155.1	0.0	37.61	20.0	43.42
16.22	9.29	53.61	192.33	149.31	9.33	19.5	304.51	155.2	0.0	37.7	20.0	43.83
16.23	9.44	58.5	192.99	149.41	9.48	19.5	304.71	155.3	0.0	37.77	20.0	44.14
16.24	9.57	57.45	193.76	149.5	9.61	19.5	304.9	155.4	0.0	37.85	20.0	44.49
16.25	9.97	64.51	195.86	149.6	10.01	19.5	305.1	155.49	0.0	38.05	20.0	45.42
16.26	10.16	65.46	196.81	149.7	10.2	19.5	305.29	155.59	0.0	38.14	20.0	45.89
16.27	10.45	64.51	197.96	149.8	10.49	19.5	305.49	155.69	0.0	38.3	20.0	46.63
16.28	10.65	66.88	197.86	149.9	10.69	19.5	305.68	155.78	0.0	38.39	20.0	47.09
16.29	10.73	69.08	198.05	149.99	10.77	19.5	305.88	155.88	0.0	38.42	20.0	47.24
16.3	10.85	74.6	198.82	150.09	10.89	19.5	306.07	155.98	0.0	38.46	20.0	47.46
16.31	10.87	76.63	198.91	150.19	10.91	19.5	306.27	156.07	0.0	38.47	20.0	47.47
16.32	10.87	80.57	198.72	150.29	10.91	19.0	306.46	156.17	0.0	38.45	20.0	47.41
16.33	10.84	80.34	198.43	150.39	10.88	19.0	306.65	156.26	0.0	38.44	20.0	47.32
16.34	10.78	79.95	197.96	150.49	10.82	19.0	306.84	156.35	0.0	38.41	20.0	47.17
16.35	10.75	86.85	197.96	150.58	10.79	19.0	307.03	156.44	0.0	38.37	20.0	47.0
16.36	10.73	90.49	198.05	150.68	10.77	19.0	307.22	156.53	0.0	38.35	20.0	46.89
16.37	10.74	94.53	198.24	150.78	10.78	19.0	307.41	156.63	0.0	38.34	20.0	46.86
16.38	10.76	97.33	198.43	150.88	10.8	19.0	307.6	156.72	0.0	38.34	20.0	46.87
16.39	10.78	101.83	198.15	150.98	10.82	19.0	307.79	156.81	0.0	38.34	20.0	46.86
16.4	10.76	104.22	198.15	151.07	10.8	19.0	307.98	156.9	0.0	38.32	20.0	46.77
16.41	10.74	108.89	198.43	151.17	10.78	19.0	308.17	156.99	0.0	38.3	20.0	46.67
16.42	10.7	111.25	198.24	151.27	10.74	19.0	308.36	157.08	0.0	38.28	20.0	46.53
16.43	10.65	117.07	199.01	151.37	10.69	19.0	308.55	157.18	0.0	38.24	20.0	46.34
16.44	10.63	119.56	199.01	151.47	10.67	19.0	308.74	157.27	0.0	38.22	20.0	46.26
16.45	10.57	122.75	199.1	151.56	10.61	19.0	308.93	157.36	0.0	38.18	20.0	46.07
16.46	10.55	124.13	199.29	151.66	10.59	19.0	309.12	157.45	0.0	38.16	20.0	46.0
16.47	10.51	126.99	199.77	151.76	10.55	19.0	309.31	157.54	0.0	38.14	20.0	45.86
16.48	10.49	128.04	199.39	151.86	10.53	19.0	309.5	157.64	0.0	38.12	20.0	45.79
16.49	10.43	129.12	199.48	151.96	10.47	19.0	309.69	157.73	0.0	38.09	20.0	45.62
16.5	10.39	130.27	199.39	152.06	10.43	19.0	309.88	157.82	0.0	38.06	20.0	45.5
16.51	10.25	131.19	198.91	152.15	10.29	19.0	310.07	157.91	0.0	37.98	20.0	45.13
16.52	10.02	131.06	197.58	152.25	10.06	19.0	310.26	158.0	0.0	37.86	20.0	44.54
16.53	9.83	131.16	196.91	152.35	9.87	19.0	310.45	158.1	0.0	37.75	20.0	44.04
16.54	9.38	130.14	195.09	152.45	9.42	19.0	310.64	158.19	0.0	37.49	20.0	42.88
16.55	9.13	129.94	194.04	152.55	9.17	19.0	310.83	158.28	0.0	37.34	20.0	42.21
16.56	8.6	128.4	191.75	152.64	8.64	18.5	311.01	158.37	0.0	37.02	20.0	40.79
16.57	8.05	124.0	188.51	152.74	8.09	18.5	311.2	158.45	0.0	36.66	20.0	39.3
16.58	7.75	121.99	187.46	152.84	7.79	18.5	311.38	158.54	0.0	36.45	20.0	38.45
16.59	7.04	119.53	184.69	152.94	7.08	18.5	311.57	158.63	0.0	35.93	20.0	36.39
16.6	6.66	118.64	182.78	153.04	6.7	18.5	311.75	158.71	0.0	35.6	20.0	35.16
16.61	5.78	116.97	179.35	153.13	5.82	18.5	311.94	158.8	0.0	34.82	20.0	32.39

16.62	5.32	116.18	177.82	153.23	5.36	18.0	312.12	158.88	360.25	0.0	20.0	0.0
16.63	4.34	114.87	175.34	153.33	4.38	18.0	312.3	158.96	290.2	0.0	20.0	0.0
16.64	3.9	115.2	174.67	153.43	3.93	18.0	312.48	159.05	258.75	0.0	20.0	0.0
16.65	3.31	116.97	172.95	153.53	3.34	18.0	312.66	159.13	216.57	0.0	20.0	0.0
16.66	2.88	117.13	171.61	153.62	2.91	18.0	312.84	159.21	185.82	0.0	20.0	0.0
16.67	2.73	117.4	171.04	153.72	2.76	18.0	313.02	159.29	175.09	0.0	20.0	0.0
16.68	2.41	118.97	169.9	153.82	2.44	17.5	313.19	159.37	152.2	0.0	20.0	0.0
16.69	2.28	120.02	169.13	153.92	2.31	17.5	313.37	159.45	142.89	0.0	20.0	0.0
16.7	1.99	124.39	174.29	154.02	2.02	17.5	313.54	159.52	122.24	0.0	20.0	0.0
16.71	2.0	126.69	183.26	154.12	2.04	17.5	313.72	159.6	123.07	0.0	20.0	0.0
16.72	2.68	124.33	312.21	154.21	2.74	17.5	313.89	159.68	173.47	0.0	20.0	0.0
16.73	3.21	119.2	407.46	154.31	3.29	18.0	314.07	159.76	212.67	0.0	20.0	0.0
16.74	4.54	106.92	428.08	154.41	4.63	18.0	314.25	159.84	307.95	0.0	20.0	0.0
16.75	5.17	97.95	369.57	154.51	5.24	18.5	314.44	159.93	0.0	34.24	20.0	30.5
16.76	5.91	81.33	255.42	154.61	5.96	18.5	314.62	160.01	0.0	35.02	20.0	33.09
16.77	6.02	73.94	225.83	154.7	6.07	18.5	314.81	160.1	0.0	35.13	20.0	33.49
16.78	6.09	63.3	203.88	154.8	6.13	18.5	314.99	160.19	0.0	35.22	20.0	33.81
16.79	5.98	53.31	203.11	154.9	6.02	19.0	315.18	160.28	0.0	35.16	20.0	33.57
16.8	5.98	51.47	206.07	155.0	6.02	19.0	315.37	160.37	0.0	35.16	20.0	33.59
16.81	6.14	48.65	212.66	155.1	6.18	19.0	315.56	160.46	0.0	35.32	20.0	34.15
16.82	6.2	48.45	215.9	155.19	6.24	19.0	315.75	160.56	0.0	35.37	20.0	34.34
16.83	6.32	48.61	219.05	155.29	6.36	19.0	315.94	160.65	0.0	35.48	20.0	34.71
16.84	6.35	48.75	220.01	155.39	6.39	19.0	316.13	160.74	0.0	35.5	20.0	34.8
16.85	6.43	48.22	221.25	155.49	6.47	19.0	316.32	160.83	0.0	35.57	20.0	35.05
16.86	6.5	48.12	221.72	155.59	6.54	19.0	316.51	160.92	0.0	35.63	20.0	35.27
16.87	6.52	49.7	221.72	155.68	6.56	19.0	316.7	161.02	0.0	35.63	20.0	35.3
16.88	6.59	54.72	221.34	155.78	6.63	19.0	316.89	161.11	0.0	35.67	20.0	35.43
16.89	6.61	55.28	220.2	155.88	6.65	19.0	317.08	161.2	0.0	35.68	20.0	35.48
16.9	6.61	55.28	220.2	155.98	6.65	19.0	317.27	161.29	0.0	35.68	20.0	35.47
16.91	6.61	55.28	220.2	156.08	6.65	19.0	317.46	161.38	0.0	35.68	20.0	35.46
16.92	5.9	53.21	172.0	156.18	5.93	19.0	317.65	161.47	0.0	35.04	20.0	33.18
16.93	5.7	53.84	171.8	156.27	5.73	19.0	317.84	161.57	0.0	34.84	20.0	32.5
16.94	5.21	55.54	171.9	156.37	5.24	18.5	318.03	161.65	0.0	34.33	20.0	30.79
16.95	4.93	56.69	172.57	156.47	4.96	18.5	318.21	161.74	0.0	34.01	20.0	29.79
16.96	4.41	58.93	174.76	156.57	4.44	18.5	318.4	161.83	0.0	33.35	20.0	27.8
16.97	3.95	62.87	177.25	156.67	3.99	18.5	318.58	161.91	261.92	0.0	20.0	0.0
16.98	3.72	64.54	177.91	156.76	3.76	18.5	318.77	162.0	245.49	0.0	20.0	0.0
16.99	3.23	69.47	176.86	156.86	3.27	18.0	318.95	162.08	210.46	0.0	20.0	0.0
17.0	2.95	71.97	176.39	156.96	2.99	18.0	319.13	162.17	190.44	0.0	20.0	0.0
17.01	2.42	81.66	179.25	157.06	2.46	18.0	319.31	162.25	152.61	0.0	20.0	0.0
17.02	1.94	89.8	183.16	157.16	1.98	17.5	319.48	162.32	118.37	0.0	20.0	0.0
17.03	1.77	92.96	186.22	157.25	1.81	17.5	319.66	162.4	106.26	0.0	20.0	0.0
17.04	1.66	96.67	218.48	157.35	1.7	17.5	319.83	162.48	98.85	0.0	20.0	0.0
17.05	2.03	98.61	323.47	157.45	2.09	17.5	320.01	162.55	126.76	0.0	20.0	0.0
17.06	3.32	98.84	485.73	157.55	3.42	18.0	320.19	162.64	221.21	0.0	35.37	0.0
17.07	4.22	94.8	477.52	157.65	4.32	18.0	320.37	162.72	285.37	0.0	20.0	0.0
17.08	5.7	87.83	426.27	157.74	5.79	18.5	320.55	162.81	0.0	34.73	20.0	32.1
17.09	5.94	80.44	288.25	157.84	6.0	18.5	320.74	162.89	0.0	34.97	20.0	32.92
17.1	5.6	66.78	232.99	157.94	5.65	18.5	320.92	162.98	0.0	34.67	20.0	31.91
17.11	5.16	62.02	219.62	158.04	5.2	18.5	321.11	163.07	0.0	34.22	20.0	30.44
17.12	4.02	56.86	209.03	158.14	4.06	18.5	321.29	163.15	0.0	32.8	20.0	26.24
17.13	3.48	55.64	205.5	158.24	3.52	18.5	321.48	163.24	228.54	0.0	20.0	0.0
17.14	2.8	57.35	204.16	158.33	2.84	18.0	321.66	163.32	179.94	0.0	20.0	0.0
17.15	2.59	57.02	202.73	158.43	2.63	18.0	321.84	163.4	164.91	0.0	20.0	0.0
17.16	2.36	56.56	198.72	158.53	2.4	18.0	322.02	163.49	148.41	0.0	20.0	0.0
17.17	2.26	56.96	199.58	158.63	2.3	18.0	322.2	163.57	141.27	0.0	20.0	0.0
17.18	2.18	58.01	197.38	158.73	2.22	18.0	322.38	163.65	135.51	0.0	20.0	0.0
17.19	2.01	68.16	201.58	158.82	2.05	18.0	322.56	163.73	123.41	0.0	20.0	0.0
17.2	1.97	69.83	211.22	158.92	2.01	18.0	322.74	163.81	120.68	0.0	20.0	0.0
17.21	1.91	66.06	220.39	159.02	1.95	18.0	322.92	163.89	116.51	0.0	20.0	0.0
17.22	1.85	66.61	217.05	159.12	1.89	18.0	323.1	163.98	112.17	0.0	20.0	0.0
17.23	1.68	66.71	209.7	159.22	1.72	18.0	323.28	164.06	99.9	0.0	20.0	0.0
17.24	1.49	69.11	216.86	159.31	1.53	17.5	323.45	164.14	86.42	0.0	20.0	0.0
17.25	1.42	70.03	226.11	159.41	1.47	17.5	323.63	164.21	81.54	0.0	20.0	0.0
17.26	1.51	67.34	258.95	159.51	1.56	17.5	323.8	164.29	88.43	0.0	20.0	0.0
17.27	1.62	66.12	273.93	159.61	1.67	18.0	323.98	164.37	96.49	0.0	20.0	0.0
17.28	1.82	59.26	303.33	159.71	1.88	18.0	324.16	164.45	111.18	0.0	20.0	0.0
17.29	1.81	52.85	301.99	159.8	1.87	18.0	324.34	164.54	110.43	0.0	20.0	0.0
17.3	1.74	48.98	266.01	159.9	1.79	18.0	324.52	164.62	104.91	0.0	20.0	0.0
17.31	1.54	45.62	279.47	160.0	1.6	18.0	324.7	164.7	90.8	0.0	20.0	0.0
17.32	1.44	43.29	282.62	160.1	1.5	18.0	324.88	164.78	83.69	0.0	25.0	0.0
17.33	1.3	34.59	267.06	160.2	1.35	18.0	325.06	164.86	73.45	0.0	23.61	0.0
17.34	1.17	36.82	278.8	160.3	1.23	18.0	325.24	164.94	64.32	0.0	22.98	0.0

17.35	1.09	41.88	311.73	160.39	1.15	17.5	325.42	165.02	59.07	0.0	23.26	0.0
17.36	1.05	43.06	348.76	160.49	1.12	17.5	325.59	165.1	56.73	0.0	23.95	0.0
17.37	1.0	40.17	450.03	160.59	1.09	17.5	325.77	165.18	54.59	0.0	26.13	0.0
17.38	1.0	38.07	478.95	160.69	1.1	17.5	325.94	165.25	54.99	0.0	26.84	0.0
17.39	1.04	32.68	497.47	160.79	1.14	18.0	326.12	165.33	58.1	0.0	27.63	0.0
17.4	1.05	29.79	501.1	160.88	1.15	18.0	326.3	165.42	58.85	0.0	27.82	0.0
17.41	1.01	26.24	503.2	160.98	1.11	18.0	326.48	165.5	56.01	0.0	27.64	0.0
17.42	0.97	25.72	513.03	161.08	1.07	18.0	326.66	165.58	53.28	0.0	27.57	0.0
17.43	0.99	21.28	533.17	161.18	1.1	18.0	326.84	165.66	54.99	0.0	28.26	0.0
17.44	1.01	19.45	537.27	161.28	1.12	18.0	327.02	165.74	56.46	0.0	28.52	0.0
17.45	1.05	19.02	543.57	161.37	1.16	18.0	327.2	165.83	59.39	0.0	28.92	0.0
17.46	1.34	16.29	580.41	161.47	1.46	18.0	327.38	165.91	80.62	0.0	31.38	0.0
17.47	1.61	14.91	613.92	161.57	1.73	18.0	327.56	165.99	100.37	0.0	33.17	0.0
17.48	2.38	8.74	592.73	161.67	2.5	18.5	327.75	166.08	0.0	30.16	20.0	19.9
17.49	2.89	8.28	533.93	161.77	3.0	18.5	327.93	166.16	0.0	31.28	20.0	22.38
17.5	3.58	6.73	357.16	161.86	3.65	19.0	328.12	166.26	0.0	32.46	20.0	25.33
17.51	3.67	5.58	316.41	161.96	3.73	19.0	328.31	166.35	0.0	32.61	20.0	25.71
17.52	3.49	6.8	274.6	162.06	3.54	19.0	328.5	166.44	0.0	32.29	20.0	24.86
17.53	3.14	10.22	275.17	162.16	3.2	18.5	328.69	166.53	0.0	31.62	20.0	23.19
17.54	2.96	10.74	272.22	162.26	3.01	18.5	328.87	166.61	0.0	31.27	20.0	22.34
17.55	2.7	12.97	274.98	162.36	2.75	18.5	329.06	166.7	0.0	30.67	20.0	21.0
17.56	2.58	13.89	278.13	162.45	2.64	18.5	329.24	166.79	0.0	30.39	20.0	20.39
17.57	2.36	19.41	299.32	162.55	2.42	18.5	329.43	166.87	149.32	0.0	20.0	0.0
17.58	2.76	28.74	316.12	162.65	2.82	18.5	329.61	166.96	178.12	0.0	20.0	0.0
17.59	3.13	32.32	323.76	162.75	3.19	18.5	329.8	167.05	0.0	31.39	20.0	22.63
17.6	4.1	39.55	327.19	162.85	4.17	18.5	329.98	167.13	0.0	32.89	20.0	26.5
17.61	4.71	44.08	337.88	162.94	4.78	18.5	330.17	167.22	0.0	33.69	20.0	28.78
17.62	5.87	47.43	305.34	163.04	5.93	19.0	330.36	167.31	0.0	34.9	20.0	32.69
17.63	6.23	45.23	277.46	163.14	6.29	19.0	330.55	167.4	0.0	35.24	20.0	33.87
17.64	6.79	44.8	243.58	163.24	6.84	19.0	330.74	167.5	0.0	35.72	20.0	35.6
17.65	7.02	45.36	236.8	163.34	7.07	19.0	330.93	167.59	0.0	35.9	20.0	36.27
17.66	7.36	45.3	232.41	163.43	7.41	19.0	331.12	167.68	0.0	36.16	20.0	37.28
17.67	7.55	44.74	229.65	163.53	7.6	19.0	331.31	167.77	0.0	36.3	20.0	37.84
17.68	7.89	41.09	217.91	163.63	7.93	19.0	331.5	167.86	0.0	36.56	20.0	38.88
17.69	8.05	40.11	213.61	163.73	8.09	19.0	331.69	167.96	0.0	36.67	20.0	39.34
17.7	8.38	40.8	212.37	163.83	8.42	19.0	331.88	168.05	0.0	36.89	20.0	40.25
17.71	8.58	40.34	213.9	163.93	8.62	19.0	332.07	168.14	0.0	37.02	20.0	40.8
17.72	8.86	38.96	216.95	164.02	8.9	19.5	332.26	168.24	0.0	37.2	20.0	41.59
17.73	9.01	39.12	217.33	164.12	9.05	19.5	332.46	168.33	0.0	37.29	20.0	41.98
17.74	9.25	38.83	220.39	164.22	9.29	19.5	332.65	168.43	0.0	37.44	20.0	42.63
17.75	9.6	38.3	222.87	164.32	9.64	19.5	332.85	168.53	0.0	37.64	20.0	43.56
17.76	9.76	38.0	224.4	164.42	9.8	19.5	333.04	168.62	0.0	37.73	20.0	43.97
17.77	10.11	41.52	227.36	164.51	10.16	19.5	333.24	168.72	0.0	37.91	20.0	44.79
17.78	10.37	44.67	228.6	164.61	10.42	19.5	333.43	168.82	0.0	38.03	20.0	45.37
17.79	10.48	47.86	229.45	164.71	10.53	19.5	333.63	168.92	0.0	38.08	20.0	45.57
17.8	10.66	50.98	230.5	164.81	10.71	19.5	333.82	169.01	0.0	38.15	20.0	45.95
17.81	10.74	53.25	230.79	164.91	10.79	19.5	334.02	169.11	0.0	38.18	20.0	46.09
17.82	10.79	57.06	230.31	165.0	10.84	19.5	334.21	169.21	0.0	38.19	20.0	46.13
17.83	10.84	58.67	230.31	165.1	10.89	19.5	334.41	169.3	0.0	38.21	20.0	46.21
17.84	11.01	60.41	228.88	165.2	11.06	19.5	334.6	169.4	0.0	38.29	20.0	46.59
17.85	11.07	62.02	228.69	165.3	11.12	19.5	334.8	169.5	0.0	38.31	20.0	46.69
17.86	11.17	64.35	230.98	165.4	11.22	19.5	334.99	169.59	0.0	38.35	20.0	46.88
17.87	11.23	68.39	232.22	165.49	11.28	19.5	335.19	169.69	0.0	38.36	20.0	46.95
17.88	11.26	70.19	232.32	165.59	11.31	19.5	335.38	169.79	0.0	38.37	20.0	46.98
17.89	11.25	73.87	232.13	165.69	11.3	19.5	335.58	169.88	0.0	38.35	20.0	46.89
17.9	11.25	73.87	232.13	165.79	11.3	19.5	335.77	169.98	0.0	38.35	20.0	46.88
17.91	11.25	73.87	232.13	165.89	11.3	19.5	335.97	170.08	0.0	38.34	20.0	46.87
17.92	11.05	75.06	198.05	165.99	11.09	19.5	336.16	170.17	0.0	38.24	20.0	46.34
17.93	10.96	76.63	197.96	166.08	11.0	19.5	336.36	170.27	0.0	38.18	20.0	46.08
17.94	10.81	79.56	197.77	166.18	10.85	19.0	336.55	170.36	0.0	38.09	20.0	45.66
17.95	10.69	81.72	197.48	166.28	10.73	19.0	336.74	170.46	0.0	38.02	20.0	45.33
17.96	10.54	86.42	197.67	166.38	10.58	19.0	336.93	170.55	0.0	37.93	20.0	44.88
17.97	10.48	90.07	197.19	166.48	10.52	19.0	337.12	170.64	0.0	37.89	20.0	44.67
17.98	10.38	97.62	197.48	166.57	10.42	19.0	337.31	170.73	0.0	37.81	20.0	44.32
17.99	10.34	101.07	197.48	166.67	10.38	19.0	337.5	170.82	0.0	37.78	20.0	44.16
18.0	10.26	107.08	197.77	166.77	10.3	19.0	337.69	170.92	0.0	37.72	20.0	43.88
18.01	10.22	109.28	198.05	166.87	10.26	19.0	337.88	171.01	0.0	37.69	20.0	43.75
18.02	10.24	114.57	197.67	166.97	10.28	19.0	338.07	171.1	0.0	37.68	20.0	43.73
18.03	10.26	117.99	196.81	167.06	10.3	19.0	338.26	171.19	0.0	37.68	20.0	43.73
18.04	10.27	119.79	194.9	167.16	10.31	19.0	338.45	171.28	0.0	37.68	20.0	43.73
18.05	10.24	119.1	192.14	167.26	10.28	19.0	338.64	171.37	0.0	37.66	20.0	43.65
18.06	10.2	118.02	192.42	167.36	10.24	19.0	338.83	171.47	0.0	37.64	20.0	43.55
18.07	10.08	117.17	194.71	167.46	10.12	19.0	339.02	171.56	0.0	37.58	20.0	43.25

18.08	10.02	115.95	194.14	167.55	10.06	19.0	339.21	171.65	0.0	37.54	20.0	43.1
18.09	9.8	113.49	192.42	167.65	9.84	19.0	339.4	171.74	0.0	37.42	20.0	42.56
18.1	9.36	111.71	190.61	167.75	9.4	19.0	339.59	171.83	0.0	37.17	20.0	41.45
18.11	9.08	111.61	189.56	167.85	9.12	19.0	339.78	171.93	0.0	37.0	20.0	40.71
18.12	8.22	110.96	186.79	167.95	8.26	18.5	339.96	172.01	0.0	36.44	20.0	38.4
18.13	7.73	111.75	185.26	168.05	7.77	18.5	340.15	172.1	0.0	36.09	20.0	37.02
18.14	6.79	112.3	181.64	168.14	6.83	18.5	340.33	172.19	0.0	35.35	20.0	34.27
18.15	6.28	112.21	178.87	168.24	6.32	18.5	340.52	172.27	0.0	34.88	20.0	32.63
18.16	5.43	112.4	174.86	168.34	5.46	18.5	340.7	172.36	366.02	0.0	20.0	0.0
18.17	5.09	113.39	173.24	168.44	5.12	18.0	340.88	172.44	341.7	0.0	20.0	0.0
18.18	4.56	117.17	172.38	168.54	4.59	18.0	341.06	172.52	303.82	0.0	20.0	0.0
18.19	4.37	119.2	172.19	168.63	4.4	18.0	341.24	172.61	290.23	0.0	20.0	0.0
18.2	4.2	122.82	173.52	168.73	4.23	18.0	341.42	172.69	278.09	0.0	20.0	0.0
18.21	4.32	125.34	171.42	168.83	4.35	18.0	341.6	172.77	286.62	0.0	20.0	0.0
18.22	4.44	128.43	174.19	168.93	4.47	18.0	341.78	172.85	295.22	0.0	20.0	0.0
18.23	5.22	138.32	183.35	169.03	5.26	18.0	341.96	172.93	351.05	0.0	20.0	0.0
18.24	5.91	138.65	181.35	169.12	5.95	18.0	342.14	173.02	400.29	0.0	20.0	0.0
18.25	7.19	130.63	192.71	169.22	7.23	18.5	342.33	173.1	0.0	35.61	20.0	35.21
18.26	7.81	127.41	205.69	169.32	7.85	18.5	342.51	173.19	0.0	36.08	20.0	37.0
18.27	8.99	117.59	205.78	169.42	9.03	19.0	342.7	173.28	0.0	36.89	20.0	40.27
18.28	9.29	108.07	196.05	169.52	9.33	19.0	342.89	173.37	0.0	37.1	20.0	41.14
18.29	9.6	95.78	181.73	169.61	9.64	19.0	343.08	173.47	0.0	37.31	20.0	42.07
18.3	9.71	92.14	178.1	169.71	9.75	19.0	343.27	173.56	0.0	37.38	20.0	42.38
18.31	9.76	83.76	172.95	169.81	9.79	19.0	343.46	173.65	0.0	37.43	20.0	42.61
18.32	9.67	82.18	174.48	169.91	9.7	19.0	343.65	173.74	0.0	37.38	20.0	42.39
18.33	9.63	83.33	178.2	170.01	9.67	19.0	343.84	173.83	0.0	37.36	20.0	42.27
18.34	9.63	84.12	178.96	170.11	9.67	19.0	344.03	173.92	0.0	37.35	20.0	42.24
18.35	9.62	88.13	180.01	170.2	9.66	19.0	344.22	174.02	0.0	37.33	20.0	42.16
18.36	9.63	91.41	181.54	170.3	9.67	19.0	344.41	174.11	0.0	37.33	20.0	42.13
18.37	9.61	95.39	183.16	170.4	9.65	19.0	344.6	174.2	0.0	37.3	20.0	42.02
18.38	9.53	98.84	184.12	170.5	9.57	19.0	344.79	174.29	0.0	37.24	20.0	41.76
18.39	9.47	99.92	184.5	170.6	9.51	19.0	344.98	174.38	0.0	37.2	20.0	41.58
18.4	9.34	99.95	185.74	170.69	9.38	19.0	345.17	174.48	0.0	37.12	20.0	41.24
18.41	9.25	98.77	186.22	170.79	9.29	19.0	345.36	174.57	0.0	37.07	20.0	41.01
18.42	9.06	97.42	186.6	170.89	9.1	19.0	345.55	174.66	0.0	36.95	20.0	40.52
18.43	8.9	99.99	186.6	170.99	8.94	19.0	345.74	174.75	0.0	36.84	20.0	40.06
18.44	8.48	108.23	186.12	171.09	8.52	19.0	345.93	174.84	0.0	36.55	20.0	38.84
18.45	8.05	114.44	185.84	171.18	8.09	18.5	346.12	174.93	0.0	36.24	20.0	37.59
18.46	7.92	115.72	185.64	171.28	7.96	18.5	346.3	175.02	0.0	36.14	20.0	37.21
18.47	7.83	117.63	184.88	171.38	7.87	18.5	346.49	175.1	0.0	36.07	20.0	36.93
18.48	7.95	117.53	186.03	171.48	7.99	18.5	346.67	175.19	0.0	36.15	20.0	37.26
18.49	8.44	116.57	190.42	171.58	8.48	18.5	346.86	175.28	0.0	36.49	20.0	38.6
18.5	8.73	115.26	193.66	171.68	8.77	19.0	347.05	175.37	0.0	36.68	20.0	39.38
18.51	9.16	110.99	197.48	171.77	9.2	19.0	347.24	175.46	0.0	36.96	20.0	40.55
18.52	9.44	107.8	198.82	171.87	9.48	19.0	347.43	175.55	0.0	37.14	20.0	41.3
18.53	9.55	105.93	199.39	171.97	9.59	19.0	347.62	175.65	0.0	37.2	20.0	41.59
18.54	9.7	102.38	201.97	172.07	9.74	19.0	347.81	175.74	0.0	37.3	20.0	42.01
18.55	9.79	101.01	203.11	172.17	9.83	19.0	348.0	175.83	0.0	37.35	20.0	42.24
18.56	9.94	98.18	204.93	172.26	9.98	19.0	348.19	175.92	0.0	37.44	20.0	42.65
18.57	9.99	96.6	206.64	172.36	10.03	19.0	348.38	176.01	0.0	37.47	20.0	42.79
18.58	10.07	94.17	209.6	172.46	10.11	19.0	348.57	176.11	0.0	37.52	20.0	43.01
18.59	10.12	93.02	210.27	172.56	10.16	19.0	348.76	176.2	0.0	37.55	20.0	43.14
18.6	10.17	91.55	211.8	172.66	10.21	19.0	348.95	176.29	0.0	37.58	20.0	43.28
18.61	10.18	90.92	212.37	172.75	10.22	19.0	349.14	176.38	0.0	37.59	20.0	43.3
18.62	10.23	91.05	214.18	172.85	10.27	19.0	349.33	176.47	0.0	37.61	20.0	43.41
18.63	10.28	92.0	214.85	172.95	10.32	19.0	349.52	176.56	0.0	37.63	20.0	43.52
18.64	10.41	94.86	215.33	173.05	10.45	19.0	349.71	176.66	0.0	37.69	20.0	43.79
18.65	10.49	97.42	216.09	173.15	10.53	19.0	349.9	176.75	0.0	37.73	20.0	43.94
18.66	10.57	103.14	217.52	173.24	10.61	19.0	350.09	176.84	0.0	37.75	20.0	44.06
18.67	10.57	105.14	217.81	173.34	10.61	19.0	350.28	176.93	0.0	37.75	20.0	44.02
18.68	10.5	110.73	217.24	173.44	10.54	19.0	350.47	177.02	0.0	37.69	20.0	43.77
18.69	10.39	112.67	216.19	173.54	10.43	19.0	350.66	177.12	0.0	37.62	20.0	43.47
18.7	9.93	114.74	211.42	173.64	9.97	19.0	350.85	177.21	0.0	37.36	20.0	42.29
18.71	9.58	116.05	208.65	173.74	9.62	19.0	351.04	177.3	0.0	37.16	20.0	41.38
18.72	8.5	116.57	201.97	173.83	8.54	18.5	351.22	177.39	0.0	36.48	20.0	38.55
18.73	7.82	118.35	198.05	173.93	7.86	18.5	351.41	177.47	0.0	36.0	20.0	36.66
18.74	6.19	118.51	189.56	174.03	6.23	18.5	351.59	177.56	0.0	34.64	20.0	31.8
18.75	5.22	115.52	182.49	174.13	5.26	18.0	351.77	177.64	350.34	0.0	20.0	0.0
18.76	4.79	114.54	181.35	174.23	4.83	18.0	351.95	177.72	319.59	0.0	20.0	0.0
18.77	4.21	116.11	182.02	174.32	4.25	18.0	352.13	177.81	278.16	0.0	20.0	0.0
18.78	4.06	116.94	181.92	174.42	4.1	18.0	352.31	177.89	267.43	0.0	20.0	0.0
18.79	3.89	116.31	183.93	174.52	3.93	18.0	352.49	177.97	255.31	0.0	20.0	0.0
18.8	3.82	114.87	183.83	174.62	3.86	18.0	352.67	178.05	250.29	0.0	20.0	0.0

18.81	3.78	114.11	180.2	174.72	3.82	18.0	352.85	178.13	247.37	0.0	20.0	0.0
18.82	3.74	111.81	182.02	174.81	3.78	18.0	353.03	178.22	244.53	0.0	20.0	0.0
18.83	3.65	108.43	185.74	174.91	3.69	18.0	353.21	178.3	238.14	0.0	20.0	0.0
18.84	3.63	108.72	190.7	175.01	3.67	18.0	353.39	178.38	236.77	0.0	20.0	0.0
18.85	3.58	106.56	195.95	175.11	3.62	18.0	353.57	178.46	233.26	0.0	20.0	0.0
18.86	3.35	94.9	189.65	175.21	3.39	18.0	353.75	178.54	216.73	0.0	20.0	0.0
18.87	3.16	88.69	187.55	175.3	3.2	18.0	353.93	178.63	203.11	0.0	20.0	0.0
18.88	2.67	80.84	181.92	175.4	2.71	18.0	354.11	178.71	168.02	0.0	20.0	0.0
18.89	2.44	79.46	183.45	175.5	2.48	18.0	354.29	178.79	151.6	0.0	20.0	0.0
18.9	2.44	79.46	183.45	175.6	2.48	18.0	354.47	178.87	151.59	0.0	20.0	0.0
18.91	2.44	79.46	183.45	175.7	2.48	18.0	354.65	178.95	151.57	0.0	20.0	0.0
18.92	2.49	69.67	226.31	175.8	2.54	18.0	354.83	179.03	155.75	0.0	20.0	0.0
18.93	2.55	63.0	218.96	175.89	2.59	18.0	355.01	179.12	159.91	0.0	20.0	0.0
18.94	2.39	57.22	212.94	175.99	2.43	18.0	355.19	179.2	148.39	0.0	20.0	0.0
18.95	2.1	51.08	220.58	176.09	2.14	18.0	355.37	179.28	127.77	0.0	20.0	0.0
18.96	1.97	47.07	223.92	176.19	2.01	18.0	355.55	179.36	118.52	0.0	20.0	0.0
18.97	1.72	43.03	231.27	176.29	1.77	18.0	355.73	179.44	100.75	0.0	20.0	0.0
18.98	1.53	41.58	239.0	176.38	1.58	18.0	355.91	179.53	87.28	0.0	20.0	0.0
18.99	1.36	38.46	249.59	176.48	1.41	18.0	356.09	179.61	75.27	0.0	20.0	0.0
19.0	1.25	38.92	259.33	176.58	1.3	18.0	356.27	179.69	67.54	0.0	20.0	0.0
19.01	1.2	39.98	343.13	176.68	1.27	18.0	356.45	179.77	65.16	0.0	23.21	0.0
19.02	1.14	40.2	401.93	176.78	1.22	18.0	356.63	179.85	61.7	0.0	24.2	0.0
19.03	1.1	37.28	437.82	176.87	1.19	18.0	356.81	179.94	59.34	0.0	24.76	0.0
19.04	1.16	31.96	462.44	176.97	1.25	18.0	356.99	180.02	63.96	0.0	25.89	0.0
19.05	1.28	29.66	484.87	177.07	1.38	18.0	357.17	180.1	72.84	0.0	27.26	0.0
19.06	1.46	28.58	512.46	177.17	1.56	18.0	357.35	180.18	86.08	0.0	28.96	0.0
19.07	1.66	27.16	528.3	177.27	1.77	18.0	357.53	180.26	100.58	0.0	30.26	0.0
19.08	1.74	25.23	410.33	177.36	1.82	18.0	357.71	180.35	104.6	0.0	28.43	0.0
19.09	1.74	23.95	386.08	177.46	1.82	18.0	357.89	180.43	104.24	0.0	27.91	0.0
19.1	1.69	22.66	362.6	177.56	1.76	18.0	358.07	180.51	100.32	0.0	27.14	0.0
19.11	1.54	22.5	356.88	177.66	1.61	18.0	358.25	180.59	89.51	0.0	26.19	0.0
19.12	1.41	21.32	344.18	177.76	1.48	18.0	358.43	180.67	80.03	0.0	25.09	0.0
19.13	1.3	21.91	337.79	177.86	1.37	18.0	358.61	180.75	72.07	0.0	24.07	0.0
19.14	1.23	23.85	353.82	177.95	1.3	18.0	358.79	180.84	67.28	0.0	23.9	0.0
19.15	1.2	24.6	393.91	178.05	1.28	18.0	358.97	180.92	65.7	0.0	24.66	0.0
19.16	1.12	25.69	446.5	178.15	1.21	18.0	359.15	181.0	60.72	0.0	25.22	0.0
19.17	1.05	27.23	463.97	178.25	1.14	18.0	359.33	181.08	55.96	0.0	24.99	0.0
19.18	1.01	27.43	486.69	178.35	1.11	18.0	359.51	181.16	53.42	0.0	25.17	0.0
19.19	1.02	26.8	502.82	178.44	1.12	18.0	359.69	181.25	54.35	0.0	25.63	0.0
19.2	1.05	25.52	529.73	178.54	1.16	18.0	359.87	181.33	56.86	0.0	26.49	0.0
19.21	1.11	24.31	548.25	178.64	1.22	18.0	360.05	181.41	61.4	0.0	27.35	0.0
19.22	1.15	23.45	556.27	178.74	1.26	18.0	360.23	181.49	64.36	0.0	27.8	0.0
19.23	1.2	23.39	554.74	178.84	1.31	18.0	360.41	181.57	67.9	0.0	28.09	0.0
19.24	1.22	22.7	552.64	178.93	1.33	18.0	360.59	181.66	69.28	0.0	28.19	0.0
19.25	1.25	19.61	535.46	179.03	1.36	18.0	360.77	181.74	71.17	0.0	28.12	0.0
19.26	1.22	18.36	517.61	179.13	1.32	18.0	360.95	181.82	68.76	0.0	27.6	0.0
19.27	1.16	15.5	526.49	179.23	1.27	18.0	361.13	181.9	64.58	0.0	27.45	0.0
19.28	1.17	13.8	531.55	179.33	1.28	18.0	361.31	181.98	65.36	0.0	27.68	0.0
19.29	1.17	11.3	536.6	179.42	1.28	18.0	361.49	182.07	65.42	0.0	27.94	0.0
19.3	1.17	8.57	546.53	179.52	1.28	18.0	361.67	182.15	65.55	0.0	28.26	0.0
19.31	1.21	8.01	555.41	179.62	1.32	18.0	361.85	182.23	68.52	0.0	28.71	0.0
19.32	1.37	7.75	573.26	179.72	1.48	18.0	362.03	182.31	80.19	0.0	29.97	0.0
19.33	1.51	8.05	579.84	179.82	1.63	18.0	362.21	182.39	90.27	0.0	30.78	0.0
19.34	1.63	8.67	561.61	179.92	1.74	18.0	362.39	182.47	98.57	0.0	30.99	0.0
19.35	1.59	9.03	458.81	180.01	1.68	18.0	362.57	182.56	94.23	0.0	28.9	0.0
19.36	1.51	9.2	431.8	180.11	1.6	18.0	362.75	182.64	88.11	0.0	27.91	0.0
19.37	1.3	10.97	413.76	180.21	1.38	18.0	362.93	182.72	72.84	0.0	26.13	0.0
19.38	1.12	11.6	453.85	180.31	1.21	18.0	363.11	182.8	60.55	0.0	25.61	0.0
19.39	1.14	11.86	475.04	180.41	1.24	18.0	363.29	182.88	62.27	0.0	26.22	0.0
19.4	1.15	11.6	482.2	180.5	1.25	18.0	363.47	182.97	63.07	0.0	26.46	0.0
19.41	1.18	11.14	482.49	180.6	1.28	18.0	363.65	183.05	65.2	0.0	26.76	0.0
19.42	1.17	11.04	482.68	180.7	1.27	18.0	363.83	183.13	64.48	0.0	26.69	0.0
19.43	1.16	10.31	483.15	180.8	1.26	18.0	364.01	183.21	63.76	0.0	26.65	0.0
19.44	1.14	11.07	481.63	180.9	1.24	18.0	364.19	183.29	62.3	0.0	26.36	0.0
19.45	1.12	10.58	494.32	180.99	1.22	18.0	364.37	183.38	61.04	0.0	26.5	0.0
19.46	1.18	10.31	503.96	181.09	1.28	18.0	364.55	183.46	65.45	0.0	27.21	0.0
19.47	1.22	9.76	509.4	181.19	1.32	18.0	364.73	183.54	68.37	0.0	27.61	0.0
19.48	1.3	9.1	513.89	181.29	1.4	18.0	364.91	183.62	74.13	0.0	28.24	0.0
19.49	1.38	9.49	501.48	181.39	1.48	18.0	365.09	183.7	79.66	0.0	28.45	0.0
19.5	1.42	10.28	488.21	181.48	1.52	18.0	365.27	183.79	82.31	0.0	28.38	0.0
19.51	1.38	10.35	489.64	181.58	1.48	18.0	365.45	183.87	79.46	0.0	28.16	0.0
19.52	1.37	7.72	503.39	181.68	1.47	18.0	365.63	183.95	78.93	0.0	28.49	0.0
19.53	1.47	9.59	507.3	181.78	1.57	18.0	365.81	184.03	86.12	0.0	29.03	0.0

19.54	1.66	7.26	483.54	181.88	1.76	18.0	365.99	184.11	99.34	0.0	29.65	0.0
19.55	1.76	7.46	474.56	181.98	1.85	18.5	366.18	184.2	106.34	0.0	29.93	0.0
19.56	2.1	10.35	493.56	182.07	2.2	18.5	366.36	184.29	130.88	0.0	31.49	0.0
19.57	2.33	11.66	489.93	182.17	2.43	18.5	366.55	184.37	0.0	29.32	20.0	18.22
19.58	2.3	11.04	454.9	182.27	2.39	18.5	366.73	184.46	0.0	29.23	20.0	18.05
19.59	2.08	9.53	392.96	182.37	2.16	18.5	366.92	184.55	127.98	0.0	29.48	0.0
19.6	1.84	8.87	381.41	182.47	1.92	18.5	367.1	184.63	110.66	0.0	28.26	0.0
19.61	1.58	8.57	394.29	182.56	1.66	18.0	367.28	184.72	92.26	0.0	27.29	0.0
19.62	1.48	8.64	405.56	182.66	1.56	18.0	367.46	184.8	85.26	0.0	26.96	0.0
19.63	1.44	12.28	433.23	182.76	1.53	18.0	367.64	184.88	82.79	0.0	27.18	0.0
19.64	1.54	16.23	498.33	182.86	1.64	18.0	367.82	184.96	90.85	0.0	28.9	0.0
19.65	1.67	17.77	510.26	182.96	1.77	18.0	368.0	185.04	100.29	0.0	29.72	0.0
19.66	1.9	19.61	534.89	183.05	2.01	18.0	368.18	185.13	117.06	0.0	31.09	0.0
19.67	2.13	18.36	535.36	183.15	2.24	18.5	368.36	185.21	133.48	0.0	31.97	0.0
19.68	2.78	17.05	491.84	183.25	2.88	18.5	368.55	185.3	0.0	30.28	20.0	20.16
19.69	3.15	16.78	471.51	183.35	3.24	18.5	368.73	185.39	0.0	31.05	20.0	21.85
19.7	3.83	17.93	466.45	183.45	3.92	18.5	368.92	185.47	0.0	32.19	20.0	24.62
19.71	4.17	19.18	384.27	183.55	4.25	19.0	369.11	185.56	0.0	32.65	20.0	25.83
19.72	3.89	19.87	331.87	183.64	3.96	18.5	369.29	185.65	0.0	32.22	20.0	24.68
19.73	3.29	18.69	326.91	183.74	3.36	18.5	369.48	185.74	0.0	31.22	20.0	22.25
19.74	3.0	17.57	327.57	183.84	3.07	18.5	369.66	185.83	0.0	30.65	20.0	20.95
19.75	2.52	16.78	327.38	183.94	2.59	18.5	369.85	185.91	0.0	29.6	20.0	18.76
19.76	2.24	18.79	327.67	184.04	2.31	18.5	370.03	186.0	138.25	0.0	20.0	0.0
19.77	2.05	22.6	326.72	184.13	2.12	18.0	370.21	186.08	124.65	0.0	20.0	0.0
19.78	1.88	28.74	326.81	184.23	1.95	18.0	370.39	186.16	112.5	0.0	20.0	0.0
19.79	1.78	31.53	334.07	184.33	1.85	18.0	370.57	186.25	105.45	0.0	26.09	0.0
19.8	1.59	38.99	356.69	184.43	1.66	18.0	370.75	186.33	92.18	0.0	25.49	0.0
19.81	1.52	43.42	365.85	184.53	1.59	18.0	370.93	186.41	87.3	0.0	25.23	0.0
19.82	1.45	51.21	397.25	184.62	1.53	18.0	371.11	186.49	82.74	0.0	25.42	0.0
19.83	1.41	48.84	423.12	184.72	1.49	18.0	371.29	186.57	80.24	0.0	25.75	0.0
19.84	1.4	44.61	460.06	184.82	1.49	18.0	371.47	186.65	80.04	0.0	26.51	0.0
19.85	1.51	46.08	491.93	184.92	1.61	18.0	371.65	186.74	88.34	0.0	27.77	0.0
19.86	1.58	45.56	495.56	185.02	1.68	18.0	371.83	186.82	93.38	0.0	28.22	0.0
19.87	1.72	39.68	473.13	185.11	1.81	18.0	372.01	186.9	103.04	0.0	28.67	0.0
19.88	1.69	34.23	431.13	185.21	1.78	18.0	372.19	186.98	100.29	0.0	27.78	0.0
19.89	1.57	32.03	433.04	185.31	1.66	18.0	372.37	187.06	91.73	0.0	27.14	0.0
19.9	1.57	32.03	433.04	185.41	1.66	18.0	372.55	187.15	91.72	0.0	27.13	0.0
19.91	1.57	32.03	433.04	185.51	1.66	18.0	372.73	187.23	91.71	0.0	27.13	0.0
19.92	1.47	28.84	262.38	185.61	1.52	18.0	372.91	187.31	82.11	0.0	20.0	0.0
19.93	1.47	28.35	279.09	185.7	1.53	18.0	373.09	187.39	82.34	0.0	20.0	0.0
19.94	1.56	27.1	296.75	185.8	1.62	18.0	373.27	187.47	89.01	0.0	20.0	0.0
19.95	1.57	26.18	299.32	185.9	1.63	18.0	373.45	187.56	89.74	0.0	20.0	0.0
19.96	1.5	24.21	295.41	186.0	1.56	18.0	373.63	187.64	84.67	0.0	20.0	0.0
19.97	1.51	22.2	318.13	186.1	1.57	18.0	373.81	187.72	85.7	0.0	24.18	0.0
19.98	1.69	21.78	332.06	186.19	1.76	18.0	373.99	187.8	98.74	0.0	25.6	0.0
19.99	1.84	23.22	342.94	186.29	1.91	18.0	374.17	187.88	109.6	0.0	26.59	0.0
20.0	1.9	22.76	349.91	186.39	1.97	18.0	374.35	187.96	113.97	0.0	27.04	0.0
20.01	1.97	22.3	356.78	186.49	2.04	18.0	374.53	188.05	119.06	0.0	27.52	0.0
20.02	1.78	18.56	345.04	186.59	1.85	18.0	374.71	188.13	105.31	0.0	26.44	0.0
20.03	1.53	14.06	342.37	186.68	1.6	18.0	374.89	188.21	87.4	0.0	25.14	0.0
20.04	1.4	11.96	351.34	186.78	1.47	18.0	375.07	188.29	78.23	0.0	24.62	0.0
20.05	1.35	12.42	359.45	186.88	1.42	18.0	375.25	188.37	74.76	0.0	24.46	0.0
20.06	1.3	16.62	386.27	186.98	1.38	18.0	375.43	188.46	71.56	0.0	24.56	0.0
20.07	1.27	17.47	406.99	187.08	1.35	18.0	375.61	188.54	69.7	0.0	24.79	0.0
20.08	1.25	15.93	413.29	187.17	1.33	18.0	375.79	188.62	68.35	0.0	24.83	0.0
20.09	1.21	15.77	423.88	187.27	1.29	18.0	375.97	188.7	65.63	0.0	24.76	0.0
20.1	1.21	15.14	426.94	187.37	1.3	18.0	376.15	188.78	65.66	0.0	24.84	0.0

Tabella 2 - Dati output

Prof.(m)	Rf (%)	FR (%)	Qt1	Qtn	IC	Es (MPa)	M (MPa)	G0 (MPa)	OCR	K0	KSBT
0.08	0.01	0.01	421.63	74.03	1.93	4.87	6.1	6.1	0.0	0.0	1.24E-05
0.09	0.01	0.01	596.87	83.7	1.79	6.55	8.2	8.2	0.0	0.0	3.15E-05
0.1	0.01	0.01	609.62	93.27	1.78	7.35	9.21	9.21	0.0	0.0	3.39E-05
0.11	0.01	0.01	682.0	104.85	1.79	9.18	11.5	11.5	0.0	0.0	3.17E-05
0.12	0.0	0.0	675.87	109.88	1.8	10.0	12.53	12.53	0.0	0.0	3.08E-05
0.13	0.0	0.0	690.99	121.72	1.79	11.02	13.82	13.82	0.0	0.0	3.21E-05
0.14	0.01	0.01	691.77	116.9	1.73	11.05	13.85	13.85	0.0	0.0	4.89E-05
0.15	0.0	0.0	681.21	130.09	1.81	12.88	16.14	16.14	0.0	0.0	2.87E-05
0.16	0.0	0.0	651.01	124.97	1.83	13.48	16.9	16.9	0.0	0.0	2.51E-05
0.17	0.01	0.01	634.35	119.93	1.75	12.73	15.96	15.96	0.0	0.0	4.22E-05
0.18	0.0	0.01	619.6	121.12	1.76	13.3	16.66	16.66	0.0	0.0	4.05E-05
0.19	0.0	0.0	594.73	120.2	1.76	13.61	17.05	17.05	0.0	0.0	3.87E-05
0.2	0.0	0.0	591.88	119.53	1.78	14.55	18.23	18.23	0.0	0.0	3.49E-05
0.21	0.0	0.0	597.25	124.5	1.78	15.48	19.4	19.4	0.0	0.0	3.43E-05
0.22	0.0	0.0	609.68	130.95	1.78	16.63	20.84	20.84	0.0	0.0	3.37E-05
0.23	0.0	0.0	601.73	133.06	1.79	17.26	21.64	21.64	0.0	0.0	3.28E-05
0.24	0.0	0.0	610.6	138.76	1.79	18.37	23.03	23.03	0.0	0.0	3.21E-05
0.25	0.0	0.0	609.9	142.3	1.8	19.23	24.1	24.1	0.0	0.0	3.12E-05
0.26	0.0	0.0	598.63	143.24	1.8	19.75	24.76	24.76	0.0	0.0	3.03E-05
0.27	0.0	0.0	596.39	150.45	1.79	20.32	25.47	25.47	0.0	0.0	3.14E-05
0.28	0.0	0.0	584.47	137.17	1.75	19.6	24.57	24.57	0.0	0.0	4.21E-05
0.29	0.0	0.0	572.83	150.64	1.8	21.28	26.67	26.67	0.0	0.0	2.93E-05
0.3	0.0	0.0	556.51	149.35	1.81	21.54	27.0	27.0	0.0	0.0	2.84E-05
0.31	0.0	0.0	539.52	139.4	1.75	20.18	25.29	25.29	0.0	0.0	4.14E-05
0.32	0.01	0.01	523.62	122.05	1.69	18.56	23.26	23.26	0.0	0.0	6.70E-05
0.33	0.02	0.02	510.38	106.08	1.54	15.42	19.33	19.33	0.0	0.0	1.93E-04
0.34	0.07	0.08	493.52	98.9	1.48	14.3	17.92	17.92	0.0	0.0	2.88E-04
0.35	0.11	0.11	477.65	98.86	1.5	14.57	18.27	18.27	0.0	0.0	2.55E-04
0.36	0.0	0.0	474.39	inf	inf	0.0	43.6	0.0	0.0	0.0	0.00E+00
0.37	0.0	0.0	463.99	189.86	2.16	34.6	43.36	43.36	0.0	0.0	2.47E-06
0.38	0.0	0.0	451.3	187.14	2.16	34.75	43.55	43.55	0.0	0.0	2.41E-06
0.39	0.0	0.0	439.26	184.5	2.16	34.9	43.74	43.74	0.0	0.0	2.35E-06
0.4	0.0	0.0	427.85	181.96	2.17	35.04	43.92	43.92	0.0	0.0	2.30E-06
0.41	0.0	0.0	466.19	135.64	1.74	22.92	28.73	28.73	0.0	0.0	4.44E-05
0.42	0.01	0.01	413.94	118.27	1.71	19.92	24.96	24.96	0.0	0.0	5.75E-05
0.43	0.02	0.02	411.52	99.66	1.57	17.01	21.31	21.31	0.0	0.0	1.52E-04
0.44	0.1	0.1	419.15	95.93	1.5	16.32	20.46	20.46	0.0	0.0	2.42E-04
0.45	0.18	0.18	432.47	103.86	1.53	17.88	22.41	22.41	0.0	0.0	1.97E-04
0.46	0.22	0.22	435.74	107.72	1.55	18.75	23.5	23.5	0.0	0.0	1.79E-04
0.47	0.31	0.31	451.57	116.39	1.57	20.56	25.76	25.76	0.0	0.0	1.49E-04
0.48	0.36	0.37	462.21	122.6	1.59	21.93	27.49	27.49	0.0	0.0	1.33E-04
0.49	0.37	0.37	466.9	128.03	1.58	22.28	27.93	27.93	0.0	0.0	1.45E-04
0.5	0.37	0.37	463.79	128.47	1.58	22.59	28.32	28.32	0.0	0.0	1.45E-04
0.51	0.39	0.39	468.24	130.99	1.58	23.28	29.18	29.18	0.0	0.0	1.45E-04
0.52	0.39	0.39	467.29	132.12	1.58	23.73	29.74	29.74	0.0	0.0	1.44E-04
0.53	0.4	0.4	481.69	136.27	1.57	24.62	30.85	30.85	0.0	0.0	1.55E-04
0.54	0.39	0.4	501.55	141.5	1.55	25.66	32.16	32.16	0.0	0.0	1.72E-04
0.55	0.41	0.41	504.95	143.84	1.55	26.34	33.01	33.01	0.0	0.0	1.71E-04
0.56	0.43	0.43	517.86	148.99	1.55	27.55	34.54	34.54	0.0	0.0	1.70E-04
0.57	0.44	0.44	517.05	150.49	1.56	28.11	35.23	35.23	0.0	0.0	1.67E-04
0.58	0.46	0.46	521.85	153.34	1.56	28.9	36.22	36.22	0.0	0.0	1.66E-04
0.59	0.45	0.45	520.08	153.77	1.55	29.17	36.56	36.56	0.0	0.0	1.71E-04
0.6	0.43	0.43	525.56	154.9	1.54	29.41	36.86	36.86	0.0	0.0	1.90E-04
0.61	0.4	0.4	532.63	156.13	1.52	29.62	37.13	37.13	0.0	0.0	2.16E-04
0.62	0.39	0.39	538.59	158.01	1.51	30.06	37.68	37.68	0.0	0.0	2.32E-04
0.63	0.4	0.4	534.95	158.58	1.51	30.42	38.13	38.13	0.0	0.0	2.29E-04
0.64	0.41	0.41	536.47	160.87	1.51	31.15	39.04	39.04	0.0	0.0	2.23E-04
0.65	0.42	0.42	539.61	163.13	1.51	31.81	39.87	39.87	0.0	0.0	2.24E-04
0.66	0.42	0.42	538.57	164.06	1.51	32.2	40.35	40.35	0.0	0.0	2.26E-04
0.67	0.42	0.43	547.2	167.44	1.51	33.02	41.38	41.38	0.0	0.0	2.34E-04
0.68	0.43	0.43	546.08	168.64	1.51	33.5	41.98	41.98	0.0	0.0	2.32E-04
0.69	0.45	0.45	544.2	170.52	1.52	34.24	42.92	42.92	0.0	0.0	2.19E-04
0.7	0.47	0.47	533.15	170.04	1.53	34.59	43.35	43.35	0.0	0.0	2.01E-04
0.71	0.49	0.49	520.93	168.67	1.54	34.7	43.49	43.49	0.0	0.0	1.88E-04
0.72	0.53	0.53	501.6	166.95	1.56	35.03	43.91	43.91	0.0	0.0	1.56E-04
0.73	0.55	0.55	482.83	163.8	1.58	34.86	43.69	43.69	0.0	0.0	1.41E-04
0.74	0.55	0.56	466.04	160.54	1.59	34.57	43.33	43.33	0.0	0.0	1.31E-04
0.75	0.56	0.56	454.69	158.67	1.6	34.52	43.26	43.26	0.0	0.0	1.24E-04
0.76	0.58	0.58	439.43	155.96	1.61	34.38	43.08	43.08	0.0	0.0	1.13E-04
0.77	0.58	0.58	429.44	154.23	1.62	34.32	43.02	43.02	0.0	0.0	1.08E-04

0.78	0.59	0.59	415.58	151.45	1.63	34.11	42.75	42.75	0.0	0.0	1.01E-04
0.79	0.6	0.6	400.72	145.45	1.65	34.06	42.69	42.69	0.0	0.0	8.91E-05
0.8	0.61	0.61	390.25	143.5	1.65	33.93	42.52	42.52	0.0	0.0	8.44E-05
0.81	0.62	0.62	374.75	140.23	1.67	33.58	42.09	42.09	0.0	0.0	7.66E-05
0.82	0.64	0.64	358.99	136.87	1.68	33.24	41.66	41.66	0.0	0.0	6.85E-05
0.83	0.65	0.65	345.55	133.89	1.7	32.92	41.26	41.26	0.0	0.0	6.26E-05
0.84	0.66	0.66	336.26	131.93	1.7	32.76	41.06	41.06	0.0	0.0	5.92E-05
0.85	0.67	0.67	322.8	128.61	1.72	32.34	40.53	40.53	0.0	0.0	5.42E-05
0.86	0.67	0.68	315.24	127.04	1.72	32.24	40.41	40.41	0.0	0.0	5.16E-05
0.87	0.69	0.7	304.16	124.61	1.74	32.06	40.18	40.18	0.0	0.0	4.67E-05
0.88	0.71	0.71	295.77	122.89	1.75	31.98	40.09	40.09	0.0	0.0	4.32E-05
0.89	0.72	0.72	289.98	121.72	1.75	31.96	40.06	40.06	0.0	0.0	4.14E-05
0.9	0.72	0.72	284.91	120.66	1.76	31.94	40.03	40.03	0.0	0.0	4.02E-05
0.91	0.73	0.74	279.37	119.62	1.77	31.97	40.07	40.07	0.0	0.0	3.81E-05
0.92	0.75	0.75	273.37	118.38	1.77	31.96	40.06	40.06	0.0	0.0	3.60E-05
0.93	0.76	0.76	268.72	117.46	1.78	31.99	40.09	40.09	0.0	0.0	3.46E-05
0.94	0.78	0.78	262.47	116.19	1.79	32.0	40.11	40.11	0.0	0.0	3.21E-05
0.95	0.78	0.78	258.6	115.39	1.8	32.03	40.14	40.14	0.0	0.0	3.12E-05
0.96	0.78	0.78	255.93	114.9	1.8	32.09	40.21	40.21	0.0	0.0	3.09E-05
0.97	0.78	0.78	253.31	114.41	1.8	32.14	40.29	40.29	0.0	0.0	3.06E-05
0.98	0.58	0.58	243.03	106.49	1.75	29.22	36.62	36.62	0.0	0.0	4.37E-05
0.99	0.57	0.57	243.23	106.7	1.74	29.31	36.74	36.74	0.0	0.0	4.57E-05
1.0	0.56	0.56	241.28	106.34	1.74	29.34	36.78	36.78	0.0	0.0	4.59E-05
1.01	0.55	0.55	241.16	106.24	1.74	29.31	36.73	36.73	0.0	0.0	4.74E-05
1.02	0.55	0.55	239.97	105.94	1.74	29.28	36.7	36.7	0.0	0.0	4.76E-05
1.03	0.54	0.55	237.22	105.06	1.74	29.13	36.51	36.51	0.0	0.0	4.72E-05
1.04	0.54	0.54	234.49	104.15	1.74	28.95	36.29	36.29	0.0	0.0	4.70E-05
1.05	0.54	0.54	232.32	103.58	1.74	28.9	36.22	36.22	0.0	0.0	4.63E-05
1.06	0.53	0.53	230.68	102.99	1.74	28.78	36.07	36.07	0.0	0.0	4.69E-05
1.07	0.51	0.51	230.61	102.75	1.73	28.66	35.92	35.92	0.0	0.0	4.92E-05
1.08	0.5	0.5	231.05	102.71	1.72	28.59	35.83	35.83	0.0	0.0	5.17E-05
1.09	0.49	0.49	230.47	102.55	1.72	28.57	35.8	35.8	0.0	0.0	5.25E-05
1.1	0.49	0.49	229.89	102.46	1.72	28.58	35.82	35.82	0.0	0.0	5.30E-05
1.11	0.48	0.49	228.81	102.2	1.72	28.57	35.8	35.8	0.0	0.0	5.31E-05
1.12	0.48	0.49	226.22	101.46	1.72	28.47	35.68	35.68	0.0	0.0	5.22E-05
1.13	0.49	0.5	221.14	100.08	1.73	28.32	35.5	35.5	0.0	0.0	4.86E-05
1.14	0.5	0.5	217.62	99.12	1.74	28.23	35.38	35.38	0.0	0.0	4.64E-05
1.15	0.51	0.52	211.13	97.18	1.75	27.97	35.05	35.05	0.0	0.0	4.24E-05
1.16	0.52	0.52	205.25	95.31	1.76	27.67	34.69	34.69	0.0	0.0	3.94E-05
1.17	0.53	0.54	199.92	93.71	1.77	27.46	34.42	34.42	0.0	0.0	3.64E-05
1.18	0.54	0.54	197.09	92.93	1.78	27.4	34.34	34.34	0.0	0.0	3.49E-05
1.19	0.55	0.56	192.33	91.56	1.79	27.26	34.17	34.17	0.0	0.0	3.21E-05
1.2	0.56	0.56	189.07	90.59	1.8	27.15	34.03	34.03	0.0	0.0	3.06E-05
1.21	0.57	0.57	185.35	89.43	1.81	27.0	33.84	33.84	0.0	0.0	2.89E-05
1.22	0.57	0.57	183.11	88.62	1.81	26.84	33.65	33.65	0.0	0.0	2.86E-05
1.23	0.56	0.57	181.85	88.2	1.81	26.78	33.56	33.56	0.0	0.0	2.85E-05
1.24	0.54	0.55	182.05	88.06	1.8	26.67	33.42	33.42	0.0	0.0	3.01E-05
1.25	0.52	0.52	183.19	88.22	1.79	26.59	33.33	33.33	0.0	0.0	3.24E-05
1.26	0.5	0.5	183.85	88.23	1.78	26.5	33.21	33.21	0.0	0.0	3.44E-05
1.27	0.49	0.49	184.04	88.21	1.78	26.45	33.15	33.15	0.0	0.0	3.57E-05
1.28	0.46	0.46	186.57	88.76	1.76	26.41	33.1	33.1	0.0	0.0	3.98E-05
1.29	0.45	0.45	187.17	88.84	1.75	26.37	33.04	33.04	0.0	0.0	4.19E-05
1.3	0.42	0.42	188.69	89.05	1.74	26.26	32.92	32.92	0.0	0.0	4.58E-05
1.31	0.41	0.41	189.27	89.21	1.73	26.26	32.92	32.92	0.0	0.0	4.77E-05
1.32	0.39	0.39	190.31	89.31	1.72	26.16	32.79	32.79	0.0	0.0	5.14E-05
1.33	0.38	0.38	189.5	88.86	1.72	26.01	32.59	32.59	0.0	0.0	5.32E-05
1.34	0.38	0.38	187.31	88.15	1.72	25.89	32.45	32.45	0.0	0.0	5.23E-05
1.35	0.38	0.38	185.14	87.58	1.73	25.86	32.41	32.41	0.0	0.0	5.05E-05
1.36	0.39	0.39	181.62	86.52	1.73	25.74	32.26	32.26	0.0	0.0	4.77E-05
1.37	0.4	0.4	178.13	85.56	1.74	25.67	32.18	32.18	0.0	0.0	4.45E-05
1.38	0.4	0.41	176.48	85.15	1.75	25.68	32.18	32.18	0.0	0.0	4.32E-05
1.39	0.41	0.41	175.33	84.99	1.75	25.75	32.27	32.27	0.0	0.0	4.20E-05
1.4	0.41	0.42	175.09	85.08	1.75	25.84	32.38	32.38	0.0	0.0	4.17E-05
1.41	0.42	0.42	173.06	84.58	1.76	25.84	32.39	32.39	0.0	0.0	3.99E-05
1.42	0.43	0.44	169.72	83.6	1.77	25.77	32.3	32.3	0.0	0.0	3.72E-05
1.43	0.45	0.46	165.06	82.22	1.79	25.66	32.17	32.17	0.0	0.0	3.33E-05
1.44	0.46	0.46	162.66	81.5	1.79	25.61	32.1	32.1	0.0	0.0	3.18E-05
1.45	0.46	0.47	161.15	81.05	1.8	25.58	32.05	32.05	0.0	0.0	3.11E-05
1.46	0.45	0.45	162.28	81.46	1.79	25.63	32.13	32.13	0.0	0.0	3.26E-05
1.47	0.44	0.45	163.4	81.88	1.78	25.71	32.22	32.22	0.0	0.0	3.40E-05
1.48	0.42	0.42	167.99	83.42	1.76	25.9	32.47	32.47	0.0	0.0	3.88E-05
1.49	0.41	0.41	169.92	84.12	1.76	26.01	32.6	32.6	0.0	0.0	4.13E-05
1.5	0.39	0.4	173.12	85.28	1.74	26.21	32.84	32.84	0.0	0.0	4.49E-05

1.51	0.39	0.39	174.57	85.84	1.74	26.31	32.97	32.97	0.0	0.0	4.70E-05
1.52	0.38	0.38	175.59	86.23	1.73	26.37	33.05	33.05	0.0	0.0	4.90E-05
1.53	0.36	0.37	178.73	87.31	1.72	26.51	33.23	33.23	0.0	0.0	5.36E-05
1.54	0.35	0.35	182.27	88.59	1.71	26.72	33.49	33.49	0.0	0.0	5.85E-05
1.55	0.34	0.34	184.94	89.57	1.7	26.87	33.68	33.68	0.0	0.0	6.27E-05
1.56	0.32	0.32	191.38	91.77	1.67	27.18	34.07	34.07	0.0	0.0	7.27E-05
1.57	0.3	0.3	199.03	94.37	1.65	27.54	34.52	34.52	0.0	0.0	8.57E-05
1.58	0.29	0.29	203.28	95.97	1.64	27.83	34.88	34.88	0.0	0.0	9.30E-05
1.59	0.28	0.28	211.65	99.08	1.62	28.4	35.59	35.59	0.0	0.0	1.06E-04
1.6	0.28	0.28	215.4	100.57	1.61	28.7	35.97	35.97	0.0	0.0	1.13E-04
1.61	0.28	0.28	222.85	103.51	1.6	29.3	36.73	36.73	0.0	0.0	1.24E-04
1.62	0.28	0.28	227.35	105.55	1.59	29.82	37.37	37.37	0.0	0.0	1.28E-04
1.63	0.29	0.29	228.95	106.67	1.6	30.23	37.89	37.89	0.0	0.0	1.26E-04
1.64	0.3	0.3	228.49	106.93	1.6	30.44	38.15	38.15	0.0	0.0	1.23E-04
1.65	0.32	0.32	226.4	107.03	1.61	30.82	38.63	38.63	0.0	0.0	1.11E-04
1.66	0.35	0.35	223.52	106.97	1.63	31.25	39.17	39.17	0.0	0.0	9.78E-05
1.67	0.37	0.37	221.47	106.85	1.64	31.51	39.49	39.49	0.0	0.0	9.07E-05
1.68	0.41	0.41	219.04	107.05	1.66	32.07	40.19	40.19	0.0	0.0	7.91E-05
1.69	0.42	0.43	217.82	107.24	1.67	32.4	40.6	40.6	0.0	0.0	7.39E-05
1.7	0.46	0.46	215.81	107.42	1.69	32.89	41.22	41.22	0.0	0.0	6.59E-05
1.71	0.49	0.49	214.22	107.64	1.7	33.34	41.78	41.78	0.0	0.0	5.99E-05
1.72	0.5	0.5	213.43	107.72	1.71	33.53	42.02	42.02	0.0	0.0	5.81E-05
1.73	0.52	0.52	213.44	108.31	1.71	33.93	42.53	42.53	0.0	0.0	5.55E-05
1.74	0.53	0.53	213.45	108.82	1.72	34.28	42.96	42.96	0.0	0.0	5.35E-05
1.75	0.54	0.54	213.85	109.33	1.72	34.54	43.28	43.28	0.0	0.0	5.29E-05
1.76	0.54	0.54	213.85	109.48	1.72	34.62	43.39	43.39	0.0	0.0	5.33E-05
1.77	0.53	0.53	215.03	109.93	1.71	34.67	43.45	43.45	0.0	0.0	5.56E-05
1.78	0.52	0.53	214.25	109.68	1.71	34.62	43.4	43.4	0.0	0.0	5.60E-05
1.79	0.52	0.52	211.94	108.79	1.71	34.45	43.17	43.17	0.0	0.0	5.53E-05
1.8	0.52	0.52	209.64	107.97	1.72	34.33	43.02	43.02	0.0	0.0	5.41E-05
1.81	0.52	0.53	205.05	106.22	1.72	34.02	42.64	42.64	0.0	0.0	5.13E-05
1.82	0.53	0.53	200.49	104.53	1.73	33.75	42.3	42.3	0.0	0.0	4.83E-05
1.83	0.54	0.55	195.97	102.91	1.74	33.55	42.05	42.05	0.0	0.0	4.48E-05
1.84	0.55	0.55	193.37	102.02	1.75	33.46	41.93	41.93	0.0	0.0	4.32E-05
1.85	0.56	0.56	189.28	100.55	1.76	33.27	41.7	41.7	0.0	0.0	4.03E-05
1.86	0.57	0.58	185.98	99.49	1.77	33.24	41.66	41.66	0.0	0.0	3.75E-05
1.87	0.58	0.58	184.57	99.06	1.77	33.22	41.64	41.64	0.0	0.0	3.67E-05
1.88	0.57	0.57	185.06	99.33	1.77	33.3	41.73	41.73	0.0	0.0	3.75E-05
1.89	0.57	0.57	185.91	99.78	1.77	33.41	41.88	41.88	0.0	0.0	3.85E-05
1.9	0.55	0.55	190.11	101.45	1.75	33.67	42.19	42.19	0.0	0.0	4.26E-05
1.91	0.53	0.54	192.42	102.4	1.74	33.81	42.38	42.38	0.0	0.0	4.52E-05
1.92	0.51	0.51	197.68	104.3	1.72	33.98	42.59	42.59	0.0	0.0	5.21E-05
1.93	0.48	0.48	201.79	105.76	1.71	34.08	42.72	42.72	0.0	0.0	5.85E-05
1.94	0.46	0.46	204.78	106.81	1.69	34.14	42.79	42.79	0.0	0.0	6.40E-05
1.95	0.46	0.46	204.08	106.66	1.69	34.16	42.82	42.82	0.0	0.0	6.38E-05
1.96	0.46	0.46	203.39	106.51	1.69	34.18	42.84	42.84	0.0	0.0	6.36E-05
1.97	0.26	0.26	202.7	101.26	1.6	30.3	37.98	37.98	0.0	0.0	1.24E-04
1.98	0.27	0.27	202.75	101.63	1.6	30.52	38.26	38.26	0.0	0.0	1.21E-04
1.99	0.28	0.29	202.79	102.26	1.61	30.94	38.78	38.78	0.0	0.0	1.15E-04
2.0	0.29	0.3	202.47	102.56	1.61	31.2	39.1	39.1	0.0	0.0	1.11E-04
2.01	0.31	0.31	203.23	103.51	1.62	31.7	39.73	39.73	0.0	0.0	1.05E-04
2.02	0.33	0.33	204.35	104.68	1.63	32.3	40.48	40.48	0.0	0.0	9.97E-05
2.03	0.35	0.35	205.81	106.01	1.64	32.93	41.27	41.27	0.0	0.0	9.48E-05
2.04	0.37	0.37	207.97	107.53	1.64	33.55	42.05	42.05	0.0	0.0	9.22E-05
2.05	0.37	0.38	208.35	108.04	1.64	33.81	42.38	42.38	0.0	0.0	9.09E-05
2.06	0.38	0.39	211.91	109.96	1.64	34.4	43.12	43.12	0.0	0.0	9.24E-05
2.07	0.38	0.39	213.68	110.95	1.64	34.7	43.5	43.5	0.0	0.0	9.38E-05
2.08	0.39	0.39	218.24	113.13	1.63	35.24	44.16	44.16	0.0	0.0	9.87E-05
2.09	0.39	0.4	221.73	115.09	1.63	35.86	44.95	44.95	0.0	0.0	9.95E-05
2.1	0.4	0.4	224.15	116.5	1.63	36.33	45.53	45.53	0.0	0.0	1.00E-04
2.11	0.4	0.4	224.82	117.0	1.63	36.51	45.76	45.76	0.0	0.0	1.01E-04
2.12	0.4	0.4	227.22	118.23	1.62	36.83	46.16	46.16	0.0	0.0	1.04E-04
2.13	0.4	0.4	230.29	119.59	1.62	37.09	46.48	46.48	0.0	0.0	1.09E-04
2.14	0.39	0.4	231.62	120.26	1.61	37.23	46.66	46.66	0.0	0.0	1.12E-04
2.15	0.39	0.39	235.0	121.79	1.6	37.53	47.04	47.04	0.0	0.0	1.19E-04
2.16	0.39	0.39	236.99	122.78	1.6	37.76	47.33	47.33	0.0	0.0	1.22E-04
2.17	0.39	0.39	237.26	123.12	1.6	37.91	47.51	47.51	0.0	0.0	1.22E-04
2.18	0.39	0.39	237.53	123.55	1.6	38.13	47.79	47.79	0.0	0.0	1.21E-04
2.19	0.4	0.41	237.13	123.88	1.61	38.45	48.19	48.19	0.0	0.0	1.17E-04
2.2	0.42	0.42	236.38	124.2	1.61	38.85	48.7	48.7	0.0	0.0	1.10E-04
2.21	0.43	0.43	235.65	124.32	1.62	39.09	49.0	49.0	0.0	0.0	1.07E-04
2.22	0.45	0.46	234.91	124.8	1.63	39.65	49.69	49.69	0.0	0.0	9.86E-05
2.23	0.46	0.47	234.86	125.22	1.64	39.97	50.09	50.09	0.0	0.0	9.58E-05

2.24	0.49	0.49	233.46	125.4	1.65	40.46	50.71	50.71	0.0	0.0	8.81E-05
2.25	0.51	0.51	232.08	125.49	1.66	40.89	51.25	51.25	0.0	0.0	8.18E-05
2.26	0.53	0.54	230.7	125.55	1.67	41.31	51.77	51.77	0.0	0.0	7.61E-05
2.27	0.54	0.55	230.66	125.91	1.67	41.58	52.12	52.12	0.0	0.0	7.45E-05
2.28	0.56	0.56	231.6	126.86	1.67	42.09	52.76	52.76	0.0	0.0	7.24E-05
2.29	0.57	0.57	232.54	127.74	1.68	42.53	53.31	53.31	0.0	0.0	7.11E-05
2.3	0.57	0.57	233.14	128.2	1.68	42.71	53.52	53.52	0.0	0.0	7.17E-05
2.31	0.57	0.57	235.05	129.3	1.67	43.04	53.95	53.95	0.0	0.0	7.31E-05
2.32	0.56	0.56	238.9	131.12	1.67	43.41	54.41	54.41	0.0	0.0	7.75E-05
2.33	0.56	0.56	240.78	132.04	1.66	43.6	54.64	54.64	0.0	0.0	8.04E-05
2.34	0.54	0.55	244.58	133.69	1.65	43.82	54.92	54.92	0.0	0.0	8.66E-05
2.35	0.53	0.53	248.69	135.39	1.64	44.0	55.15	55.15	0.0	0.0	9.44E-05
2.36	0.51	0.51	251.81	136.65	1.63	44.09	55.26	55.26	0.0	0.0	1.02E-04
2.37	0.5	0.51	252.67	137.08	1.62	44.14	55.33	55.33	0.0	0.0	1.05E-04
2.38	0.49	0.5	255.12	138.12	1.61	44.24	55.45	55.45	0.0	0.0	1.11E-04
2.39	0.49	0.49	254.69	138.02	1.61	44.22	55.42	55.42	0.0	0.0	1.12E-04
2.4	0.49	0.5	253.62	137.8	1.62	44.28	55.5	55.5	0.0	0.0	1.10E-04
2.41	0.5	0.51	250.97	137.01	1.62	44.35	55.58	55.58	0.0	0.0	1.05E-04
2.42	0.52	0.52	247.08	135.73	1.63	44.37	55.61	55.61	0.0	0.0	9.74E-05
2.43	0.53	0.53	244.78	135.09	1.64	44.47	55.73	55.73	0.0	0.0	9.28E-05
2.44	0.55	0.56	241.55	134.34	1.65	44.78	56.12	56.12	0.0	0.0	8.44E-05
2.45	0.58	0.58	238.66	133.67	1.67	45.07	56.49	56.49	0.0	0.0	7.74E-05
2.46	0.59	0.59	237.34	133.47	1.67	45.28	56.75	56.75	0.0	0.0	7.43E-05
2.47	0.6	0.61	236.66	133.63	1.68	45.61	57.16	57.16	0.0	0.0	7.14E-05
2.48	0.62	0.62	236.6	134.09	1.68	46.02	57.68	57.68	0.0	0.0	6.89E-05
2.49	0.63	0.63	235.61	133.95	1.69	46.17	57.87	57.87	0.0	0.0	6.72E-05
2.5	0.64	0.64	234.31	133.8	1.69	46.44	58.2	58.2	0.0	0.0	6.41E-05
2.51	0.65	0.66	231.18	132.69	1.7	46.44	58.21	58.21	0.0	0.0	6.04E-05
2.52	0.68	0.68	226.84	131.14	1.71	46.47	58.24	58.24	0.0	0.0	5.51E-05
2.53	0.69	0.69	224.35	130.25	1.72	46.46	58.23	58.23	0.0	0.0	5.27E-05
2.54	0.71	0.71	218.53	127.81	1.73	46.18	57.88	57.88	0.0	0.0	4.79E-05
2.55	0.71	0.72	215.78	126.67	1.74	46.05	57.71	57.71	0.0	0.0	4.61E-05
2.56	0.72	0.73	210.92	124.54	1.75	45.72	57.3	57.3	0.0	0.0	4.29E-05
2.57	0.73	0.73	206.99	122.74	1.76	45.39	56.88	56.88	0.0	0.0	4.09E-05
2.58	0.73	0.74	201.88	120.3	1.77	44.86	56.23	56.23	0.0	0.0	3.86E-05
2.59	0.74	0.75	198.3	118.69	1.77	44.59	55.89	55.89	0.0	0.0	3.67E-05
2.6	0.75	0.76	192.64	116.07	1.78	44.13	55.3	55.3	0.0	0.0	3.36E-05
2.61	0.77	0.78	187.91	113.98	1.8	43.86	54.97	54.97	0.0	0.0	3.08E-05
2.62	0.78	0.78	185.9	113.12	1.8	43.76	54.84	54.84	0.0	0.0	2.98E-05
2.63	0.78	0.79	184.19	112.38	1.8	43.65	54.7	54.7	0.0	0.0	2.92E-05
2.64	0.76	0.77	184.87	112.59	1.8	43.53	54.56	54.56	0.0	0.0	3.07E-05
2.65	0.74	0.75	185.85	113.01	1.79	43.5	54.52	54.52	0.0	0.0	3.22E-05
2.66	0.7	0.7	190.36	114.78	1.77	43.39	54.38	54.38	0.0	0.0	3.78E-05
2.67	0.64	0.64	198.39	118.14	1.74	43.5	54.52	54.52	0.0	0.0	4.76E-05
2.68	0.58	0.58	206.66	121.45	1.7	43.48	54.49	54.49	0.0	0.0	6.07E-05
2.69	0.55	0.55	210.2	122.85	1.68	43.43	54.43	54.43	0.0	0.0	6.82E-05
2.7	0.5	0.51	214.6	124.24	1.66	43.02	53.92	53.92	0.0	0.0	8.17E-05
2.71	0.48	0.49	214.61	123.97	1.65	42.67	53.48	53.48	0.0	0.0	8.68E-05
2.72	0.47	0.47	213.16	123.05	1.64	42.23	52.93	52.93	0.0	0.0	8.98E-05
2.73	0.47	0.47	209.68	121.38	1.65	41.82	52.42	52.42	0.0	0.0	8.78E-05
2.74	0.47	0.48	204.78	119.23	1.66	41.51	52.02	52.02	0.0	0.0	8.15E-05
2.75	0.48	0.48	201.93	118.06	1.66	41.39	51.87	51.87	0.0	0.0	7.78E-05
2.76	0.5	0.51	195.63	115.43	1.68	41.18	51.61	51.61	0.0	0.0	6.81E-05
2.77	0.53	0.53	189.95	113.17	1.7	41.14	51.56	51.56	0.0	0.0	5.90E-05
2.78	0.55	0.55	186.87	112.04	1.72	41.21	51.65	51.65	0.0	0.0	5.42E-05
2.79	0.58	0.59	182.66	110.56	1.74	41.42	51.91	51.91	0.0	0.0	4.72E-05
2.8	0.61	0.62	179.62	109.53	1.75	41.63	52.17	52.17	0.0	0.0	4.24E-05
2.81	0.64	0.64	176.59	108.43	1.77	41.76	52.34	52.34	0.0	0.0	3.85E-05
2.82	0.65	0.65	175.27	108.0	1.77	41.85	52.45	52.45	0.0	0.0	3.70E-05
2.83	0.66	0.67	172.83	107.04	1.78	41.88	52.49	52.49	0.0	0.0	3.46E-05
2.84	0.68	0.68	170.41	107.13	1.79	41.64	52.19	52.19	0.0	0.0	3.35E-05
2.85	0.68	0.68	169.4	106.67	1.79	41.57	52.1	52.1	0.0	0.0	3.32E-05
2.86	0.66	0.67	168.68	106.18	1.78	41.29	51.75	51.75	0.0	0.0	3.42E-05
2.87	0.66	0.66	167.96	105.8	1.78	41.16	51.58	51.58	0.0	0.0	3.45E-05
2.88	0.63	0.64	168.36	104.7	1.78	41.05	51.45	51.45	0.0	0.0	3.59E-05
2.89	0.6	0.61	168.76	104.57	1.76	40.63	50.93	50.93	0.0	0.0	3.91E-05
2.9	0.57	0.57	167.77	103.67	1.75	39.99	50.11	50.11	0.0	0.0	4.19E-05
2.91	0.56	0.56	166.51	102.94	1.75	39.69	49.74	49.74	0.0	0.0	4.25E-05
2.92	0.53	0.54	165.25	101.97	1.74	39.1	49.01	49.01	0.0	0.0	4.49E-05
2.93	0.51	0.51	167.31	102.79	1.73	38.97	48.84	48.84	0.0	0.0	4.96E-05
2.94	0.49	0.5	170.18	104.2	1.72	39.16	49.08	49.08	0.0	0.0	5.38E-05
2.95	0.49	0.5	169.74	104.09	1.72	39.18	49.1	49.1	0.0	0.0	5.37E-05
2.96	0.49	0.5	169.31	103.97	1.72	39.2	49.13	49.13	0.0	0.0	5.35E-05

2.97	0.35	0.35	184.42	109.2	1.62	37.88	47.48	47.48	0.0	0.0	1.05E-04
2.98	0.35	0.35	186.13	110.32	1.62	38.28	47.98	47.98	0.0	0.0	1.06E-04
2.99	0.42	0.43	185.39	111.6	1.66	40.02	50.16	50.16	0.0	0.0	8.21E-05
3.0	0.48	0.48	183.85	112.01	1.68	41.21	51.65	51.65	0.0	0.0	6.76E-05
3.01	0.5	0.5	182.31	111.63	1.69	41.46	51.97	51.97	0.0	0.0	6.33E-05
3.02	0.51	0.51	181.31	111.42	1.7	41.65	52.2	52.2	0.0	0.0	6.07E-05
3.03	0.54	0.54	178.71	110.65	1.72	42.02	52.67	52.67	0.0	0.0	5.41E-05
3.04	0.58	0.58	175.59	110.75	1.73	42.27	52.97	52.97	0.0	0.0	4.82E-05
3.05	0.61	0.61	173.28	110.01	1.75	42.6	53.39	53.39	0.0	0.0	4.34E-05
3.06	0.62	0.63	172.32	109.76	1.75	42.8	53.64	53.64	0.0	0.0	4.16E-05
3.07	0.62	0.63	172.42	109.95	1.75	42.93	53.81	53.81	0.0	0.0	4.16E-05
3.08	0.62	0.62	174.12	110.91	1.75	43.13	54.06	54.06	0.0	0.0	4.34E-05
3.09	0.6	0.6	176.07	111.84	1.74	43.12	54.04	54.04	0.0	0.0	4.69E-05
3.1	0.58	0.59	176.43	111.97	1.73	43.01	53.91	53.91	0.0	0.0	4.87E-05
3.11	0.57	0.57	176.79	112.0	1.72	42.76	53.6	53.6	0.0	0.0	5.15E-05
3.12	0.52	0.52	175.31	110.53	1.71	41.61	52.15	52.15	0.0	0.0	5.80E-05
3.13	0.49	0.49	174.36	109.69	1.7	40.98	51.36	51.36	0.0	0.0	6.20E-05
3.14	0.47	0.48	171.84	107.05	1.7	40.49	50.75	50.75	0.0	0.0	6.20E-05
3.15	0.47	0.48	168.04	105.06	1.7	40.01	50.15	50.15	0.0	0.0	5.93E-05
3.16	0.48	0.49	163.21	103.68	1.71	39.48	49.48	49.48	0.0	0.0	5.50E-05
3.17	0.48	0.49	161.25	102.69	1.72	39.29	49.24	49.24	0.0	0.0	5.36E-05
3.18	0.48	0.48	158.79	101.35	1.72	38.92	48.78	48.78	0.0	0.0	5.26E-05
3.19	0.48	0.48	157.38	100.67	1.72	38.82	48.66	48.66	0.0	0.0	5.14E-05
3.2	0.48	0.49	155.97	100.02	1.73	38.76	48.58	48.58	0.0	0.0	5.00E-05
3.21	0.49	0.49	156.11	100.23	1.73	38.9	48.75	48.75	0.0	0.0	4.99E-05
3.22	0.48	0.49	156.25	100.38	1.73	38.96	48.83	48.83	0.0	0.0	5.04E-05
3.23	0.48	0.49	156.39	100.53	1.73	39.01	48.9	48.9	0.0	0.0	5.09E-05
3.24	0.47	0.48	157.55	101.12	1.72	39.02	48.91	48.91	0.0	0.0	5.36E-05
3.25	0.45	0.46	158.96	101.76	1.71	38.93	48.8	48.8	0.0	0.0	5.78E-05
3.26	0.44	0.44	159.35	101.82	1.7	38.7	48.5	48.5	0.0	0.0	6.14E-05
3.27	0.43	0.44	159.23	101.77	1.7	38.64	48.43	48.43	0.0	0.0	6.24E-05
3.28	0.42	0.43	158.85	101.54	1.69	38.5	48.26	48.26	0.0	0.0	6.37E-05
3.29	0.39	0.39	173.64	108.28	1.65	39.94	50.06	50.06	0.0	0.0	8.61E-05
3.3	0.29	0.29	152.33	94.8	1.64	34.74	43.54	43.54	0.0	0.0	9.15E-05
3.31	0.29	0.3	152.98	95.39	1.64	35.06	43.94	43.94	0.0	0.0	9.02E-05
3.32	0.31	0.31	151.62	94.97	1.65	35.24	44.16	44.16	0.0	0.0	8.46E-05
3.33	0.31	0.31	150.52	94.56	1.66	35.28	44.22	44.22	0.0	0.0	8.17E-05
3.34	0.33	0.33	149.17	94.17	1.67	35.51	44.5	44.5	0.0	0.0	7.60E-05
3.35	0.33	0.33	148.83	94.14	1.67	35.6	44.62	44.62	0.0	0.0	7.49E-05
3.36	0.34	0.34	148.48	94.15	1.67	35.77	44.83	44.83	0.0	0.0	7.30E-05
3.37	0.34	0.34	147.89	94.0	1.68	35.85	44.93	44.93	0.0	0.0	7.14E-05
3.38	0.35	0.35	147.31	93.86	1.68	35.97	45.08	45.08	0.0	0.0	6.94E-05
3.39	0.36	0.36	145.24	93.82	1.69	35.83	44.91	44.91	0.0	0.0	6.64E-05
3.4	0.37	0.38	142.2	92.39	1.7	35.79	44.86	44.86	0.0	0.0	6.02E-05
3.41	0.39	0.4	139.18	91.0	1.72	35.83	44.91	44.91	0.0	0.0	5.38E-05
3.42	0.4	0.41	137.63	90.35	1.73	35.91	45.01	45.01	0.0	0.0	5.06E-05
3.43	0.44	0.45	133.9	88.79	1.75	36.24	45.41	45.41	0.0	0.0	4.18E-05
3.44	0.45	0.45	132.62	88.19	1.76	36.22	45.4	45.4	0.0	0.0	4.03E-05
3.45	0.46	0.46	131.1	87.48	1.77	36.22	45.4	45.4	0.0	0.0	3.82E-05
3.46	0.47	0.48	128.86	86.43	1.78	36.25	45.43	45.43	0.0	0.0	3.51E-05
3.47	0.49	0.5	126.87	85.5	1.79	36.28	45.47	45.47	0.0	0.0	3.24E-05
3.48	0.5	0.5	125.38	84.75	1.8	36.22	45.4	45.4	0.0	0.0	3.10E-05
3.49	0.51	0.51	123.17	83.62	1.81	36.12	45.27	45.27	0.0	0.0	2.89E-05
3.5	0.52	0.53	121.69	82.91	1.81	36.13	45.28	45.28	0.0	0.0	2.73E-05
3.51	0.54	0.55	119.01	81.56	1.83	36.08	45.22	45.22	0.0	0.0	2.46E-05
3.52	0.56	0.57	116.11	80.08	1.85	36.02	45.15	45.15	0.0	0.0	2.20E-05
3.53	0.57	0.58	114.66	79.34	1.85	35.98	45.09	45.09	0.0	0.0	2.09E-05
3.54	0.58	0.59	112.49	78.14	1.86	35.77	44.83	44.83	0.0	0.0	1.96E-05
3.55	0.58	0.59	111.05	77.3	1.87	35.55	44.56	44.56	0.0	0.0	1.91E-05
3.56	0.57	0.58	110.57	76.98	1.86	35.37	44.33	44.33	0.0	0.0	1.95E-05
3.57	0.56	0.57	110.33	76.85	1.86	35.31	44.25	44.25	0.0	0.0	1.96E-05
3.58	0.55	0.56	110.55	76.92	1.86	35.18	44.1	44.1	0.0	0.0	2.05E-05
3.59	0.54	0.55	110.55	76.91	1.85	35.11	44.01	44.01	0.0	0.0	2.10E-05
3.6	0.52	0.53	111.48	77.33	1.84	34.95	43.81	43.81	0.0	0.0	2.28E-05
3.61	0.5	0.5	112.18	77.61	1.83	34.75	43.55	43.55	0.0	0.0	2.47E-05
3.62	0.48	0.49	112.4	77.65	1.82	34.57	43.32	43.32	0.0	0.0	2.60E-05
3.63	0.47	0.47	112.39	77.59	1.82	34.42	43.13	43.13	0.0	0.0	2.69E-05
3.64	0.45	0.46	112.37	77.47	1.81	34.16	42.82	42.82	0.0	0.0	2.84E-05
3.65	0.43	0.44	112.13	77.17	1.8	33.8	42.37	42.37	0.0	0.0	3.01E-05
3.66	0.42	0.42	112.12	77.12	1.8	33.67	42.2	42.2	0.0	0.0	3.11E-05
3.67	0.4	0.4	111.88	76.82	1.79	33.29	41.73	41.73	0.0	0.0	3.31E-05
3.68	0.39	0.4	111.63	76.66	1.78	33.18	41.59	41.59	0.0	0.0	3.37E-05
3.69	0.38	0.38	111.85	76.7	1.78	32.99	41.34	41.34	0.0	0.0	3.56E-05

3.7	0.37	0.37	111.61	76.53	1.77	32.85	41.17	41.17	0.0	0.0	3.64E-05
3.71	0.36	0.37	111.37	76.4	1.77	32.78	41.09	41.09	0.0	0.0	3.68E-05
3.72	0.36	0.36	110.91	76.1	1.77	32.62	40.88	40.88	0.0	0.0	3.74E-05
3.73	0.36	0.37	109.98	75.64	1.77	32.59	40.85	40.85	0.0	0.0	3.63E-05
3.74	0.37	0.37	108.83	75.09	1.78	32.62	40.89	40.89	0.0	0.0	3.45E-05
3.75	0.37	0.38	108.14	74.78	1.79	32.66	40.93	40.93	0.0	0.0	3.35E-05
3.76	0.39	0.4	105.87	73.64	1.8	32.69	40.98	40.98	0.0	0.0	2.99E-05
3.77	0.4	0.41	104.73	73.08	1.81	32.72	41.0	41.0	0.0	0.0	2.84E-05
3.78	0.42	0.43	102.7	72.05	1.82	32.75	41.04	41.04	0.0	0.0	2.57E-05
3.79	0.43	0.44	101.58	71.48	1.83	32.76	41.05	41.05	0.0	0.0	2.44E-05
3.8	0.45	0.45	100.23	70.84	1.84	32.85	41.18	41.18	0.0	0.0	2.26E-05
3.81	0.46	0.47	99.57	70.59	1.85	33.0	41.35	41.35	0.0	0.0	2.15E-05
3.82	0.47	0.47	99.59	70.72	1.85	33.18	41.59	41.59	0.0	0.0	2.11E-05
3.83	0.47	0.48	99.38	70.7	1.85	33.33	41.77	41.77	0.0	0.0	2.06E-05
3.84	0.48	0.48	98.94	70.51	1.86	33.35	41.8	41.8	0.0	0.0	2.02E-05
3.85	0.49	0.49	97.62	69.8	1.87	33.32	41.76	41.76	0.0	0.0	1.91E-05
3.86	0.49	0.5	96.75	69.33	1.87	33.29	41.72	41.72	0.0	0.0	1.85E-05
3.87	0.5	0.51	95.43	68.63	1.88	33.26	41.69	41.69	0.0	0.0	1.74E-05
3.88	0.51	0.52	94.79	68.32	1.88	33.3	41.74	41.74	0.0	0.0	1.68E-05
3.89	0.51	0.52	95.04	68.54	1.88	33.43	41.9	41.9	0.0	0.0	1.69E-05
3.9	0.49	0.5	96.83	69.63	1.87	33.59	42.1	42.1	0.0	0.0	1.85E-05
3.91	0.46	0.47	100.16	71.55	1.85	33.74	42.29	42.29	0.0	0.0	2.20E-05
3.92	0.45	0.46	101.94	72.62	1.83	33.89	42.47	42.47	0.0	0.0	2.39E-05
3.93	0.42	0.43	105.9	74.94	1.81	34.16	42.81	42.81	0.0	0.0	2.86E-05
3.94	0.39	0.4	109.85	77.21	1.78	34.37	43.08	43.08	0.0	0.0	3.42E-05
3.95	0.39	0.4	109.63	77.13	1.78	34.39	43.1	43.1	0.0	0.0	3.41E-05
3.96	0.39	0.4	109.4	77.05	1.78	34.41	43.12	43.12	0.0	0.0	3.40E-05
3.97	0.23	0.23	110.28	75.81	1.7	31.12	39.01	39.01	0.0	0.0	6.25E-05
3.98	0.25	0.25	110.49	76.25	1.71	31.67	39.69	39.69	0.0	0.0	5.80E-05
3.99	0.27	0.27	110.26	76.39	1.72	32.06	40.18	40.18	0.0	0.0	5.42E-05
4.0	0.28	0.28	109.82	76.32	1.72	32.31	40.49	40.49	0.0	0.0	5.13E-05
4.01	0.31	0.31	109.6	76.54	1.74	32.88	41.21	41.21	0.0	0.0	4.66E-05
4.02	0.33	0.33	109.59	76.87	1.75	33.46	41.93	41.93	0.0	0.0	4.28E-05
4.03	0.35	0.35	109.59	77.13	1.76	33.9	42.49	42.49	0.0	0.0	4.02E-05
4.04	0.36	0.36	109.37	77.14	1.76	34.09	42.73	42.73	0.0	0.0	3.90E-05
4.05	0.37	0.37	109.36	77.32	1.77	34.38	43.09	43.09	0.0	0.0	3.76E-05
4.06	0.37	0.38	109.14	77.28	1.77	34.46	43.19	43.19	0.0	0.0	3.71E-05
4.07	0.38	0.38	109.35	77.52	1.77	34.64	43.42	43.42	0.0	0.0	3.68E-05
4.08	0.37	0.38	109.99	77.97	1.77	34.79	43.6	43.6	0.0	0.0	3.75E-05
4.09	0.37	0.38	110.19	78.17	1.77	34.87	43.71	43.71	0.0	0.0	3.78E-05
4.1	0.37	0.38	111.46	79.0	1.76	35.08	43.96	43.96	0.0	0.0	3.94E-05
4.11	0.37	0.37	113.15	80.1	1.75	35.36	44.31	44.31	0.0	0.0	4.15E-05
4.12	0.36	0.36	115.47	81.54	1.74	35.63	44.65	44.65	0.0	0.0	4.50E-05
4.13	0.35	0.36	116.51	82.18	1.74	35.68	44.72	44.72	0.0	0.0	4.73E-05
4.14	0.33	0.34	118.59	83.37	1.72	35.7	44.74	44.74	0.0	0.0	5.27E-05
4.15	0.33	0.33	119.2	83.74	1.71	35.69	44.73	44.73	0.0	0.0	5.48E-05
4.16	0.32	0.33	120.23	84.4	1.71	35.81	44.88	44.88	0.0	0.0	5.70E-05
4.17	0.32	0.33	120.62	84.71	1.71	35.9	44.99	44.99	0.0	0.0	5.79E-05
4.18	0.32	0.33	121.22	85.19	1.71	36.12	45.27	45.27	0.0	0.0	5.81E-05
4.19	0.33	0.33	122.66	86.2	1.7	36.48	45.72	45.72	0.0	0.0	5.93E-05
4.2	0.33	0.33	124.29	87.3	1.7	36.79	46.11	46.11	0.0	0.0	6.16E-05
4.21	0.33	0.34	125.72	88.34	1.7	37.21	46.64	46.64	0.0	0.0	6.22E-05
4.22	0.33	0.34	126.51	88.94	1.7	37.45	46.94	46.94	0.0	0.0	6.29E-05
4.23	0.34	0.34	128.13	90.09	1.69	37.87	47.46	47.46	0.0	0.0	6.41E-05
4.24	0.34	0.34	128.92	90.69	1.69	38.1	47.75	47.75	0.0	0.0	6.48E-05
4.25	0.34	0.35	130.53	91.84	1.69	38.53	48.29	48.29	0.0	0.0	6.59E-05
4.26	0.35	0.35	131.31	92.45	1.69	38.79	48.61	48.61	0.0	0.0	6.63E-05
4.27	0.36	0.36	132.29	93.32	1.69	39.34	49.31	49.31	0.0	0.0	6.46E-05
4.28	0.37	0.38	133.06	94.03	1.69	39.8	49.89	49.89	0.0	0.0	6.32E-05
4.29	0.38	0.39	133.42	94.49	1.7	40.24	50.44	50.44	0.0	0.0	6.10E-05
4.3	0.39	0.4	133.58	94.75	1.7	40.5	50.76	50.76	0.0	0.0	5.99E-05
4.31	0.41	0.41	133.32	94.86	1.71	40.91	51.27	51.27	0.0	0.0	5.66E-05
4.32	0.42	0.43	133.07	94.94	1.72	41.28	51.73	51.73	0.0	0.0	5.39E-05
4.33	0.43	0.43	132.82	94.93	1.72	41.44	51.94	51.94	0.0	0.0	5.27E-05
4.34	0.44	0.45	131.96	94.63	1.73	41.74	52.31	52.31	0.0	0.0	4.94E-05
4.35	0.45	0.46	131.3	94.37	1.73	41.87	52.48	52.48	0.0	0.0	4.77E-05
4.36	0.47	0.48	129.24	93.33	1.75	42.06	52.72	52.72	0.0	0.0	4.30E-05
4.37	0.5	0.5	126.77	92.02	1.77	42.19	52.88	52.88	0.0	0.0	3.85E-05
4.38	0.51	0.51	125.33	91.25	1.77	42.23	52.93	52.93	0.0	0.0	3.63E-05
4.39	0.54	0.54	122.48	89.71	1.79	42.35	53.08	53.08	0.0	0.0	3.18E-05
4.4	0.57	0.57	119.64	88.15	1.81	42.47	53.23	53.23	0.0	0.0	2.78E-05
4.41	0.59	0.6	117.01	86.68	1.83	42.55	53.33	53.33	0.0	0.0	2.45E-05
4.42	0.61	0.62	115.39	85.78	1.84	42.57	53.36	53.36	0.0	0.0	2.29E-05

4.43	0.64	0.65	112.58	84.14	1.86	42.55	53.32	53.32	0.0	0.0	2.03E-05
4.44	0.65	0.66	111.18	83.34	1.87	42.52	53.3	53.3	0.0	0.0	1.91E-05
4.45	0.66	0.67	109.58	82.41	1.87	42.52	53.29	53.29	0.0	0.0	1.79E-05
4.46	0.66	0.67	109.97	82.71	1.87	42.59	53.38	53.38	0.0	0.0	1.82E-05
4.47	0.65	0.66	110.76	83.25	1.87	42.69	53.5	53.5	0.0	0.0	1.89E-05
4.48	0.63	0.64	113.12	84.79	1.85	42.94	53.82	53.82	0.0	0.0	2.08E-05
4.49	0.62	0.63	114.69	85.82	1.84	43.08	54.0	54.0	0.0	0.0	2.22E-05
4.5	0.62	0.62	115.47	86.37	1.84	43.23	54.18	54.18	0.0	0.0	2.29E-05
4.51	0.61	0.62	115.45	86.39	1.84	43.2	54.15	54.15	0.0	0.0	2.32E-05
4.52	0.61	0.62	114.65	85.92	1.84	43.14	54.07	54.07	0.0	0.0	2.27E-05
4.53	0.61	0.62	114.05	85.56	1.84	43.06	53.97	53.97	0.0	0.0	2.25E-05
4.54	0.61	0.62	112.86	84.82	1.85	42.89	53.76	53.76	0.0	0.0	2.19E-05
4.55	0.61	0.62	111.87	84.18	1.85	42.68	53.49	53.49	0.0	0.0	2.17E-05
4.56	0.61	0.62	111.48	83.94	1.85	42.61	53.4	53.4	0.0	0.0	2.17E-05
4.57	0.59	0.6	111.86	84.14	1.84	42.44	53.19	53.19	0.0	0.0	2.28E-05
4.58	0.57	0.58	113.79	85.37	1.83	42.52	53.29	53.29	0.0	0.0	2.51E-05
4.59	0.57	0.57	114.94	86.15	1.82	42.67	53.48	53.48	0.0	0.0	2.62E-05
4.6	0.55	0.55	117.64	87.9	1.8	42.91	53.78	53.78	0.0	0.0	2.92E-05
4.61	0.53	0.54	119.94	89.39	1.79	43.08	54.0	54.0	0.0	0.0	3.21E-05
4.62	0.51	0.52	122.04	90.74	1.78	43.23	54.18	54.18	0.0	0.0	3.50E-05
4.63	0.51	0.51	123.55	91.77	1.77	43.44	54.44	54.44	0.0	0.0	3.68E-05
4.64	0.5	0.51	124.1	92.17	1.77	43.53	54.55	54.55	0.0	0.0	3.77E-05
4.65	0.49	0.49	126.18	93.48	1.76	43.59	54.64	54.64	0.0	0.0	4.14E-05
4.66	0.46	0.47	128.44	94.84	1.74	43.52	54.55	54.55	0.0	0.0	4.65E-05
4.67	0.45	0.46	129.36	95.45	1.73	43.56	54.59	54.59	0.0	0.0	4.86E-05
4.68	0.44	0.45	131.42	96.8	1.72	43.75	54.84	54.84	0.0	0.0	5.23E-05
4.69	0.44	0.45	132.14	97.34	1.72	43.9	55.03	55.03	0.0	0.0	5.34E-05
4.7	0.44	0.45	132.28	97.53	1.72	44.04	55.2	55.2	0.0	0.0	5.33E-05
4.71	0.45	0.46	131.48	97.18	1.73	44.22	55.43	55.43	0.0	0.0	5.08E-05
4.72	0.46	0.47	131.25	97.18	1.73	44.46	55.72	55.72	0.0	0.0	4.94E-05
4.73	0.48	0.48	131.2	97.37	1.74	44.85	56.21	56.21	0.0	0.0	4.74E-05
4.74	0.49	0.5	131.54	97.81	1.74	45.33	56.81	56.81	0.0	0.0	4.58E-05
4.75	0.5	0.51	131.5	97.99	1.75	45.71	57.29	57.29	0.0	0.0	4.40E-05
4.76	0.51	0.52	131.45	98.08	1.75	45.9	57.52	57.52	0.0	0.0	4.34E-05
4.77	0.53	0.53	131.04	98.03	1.76	46.26	57.98	57.98	0.0	0.0	4.12E-05
4.78	0.53	0.54	130.99	98.14	1.76	46.49	58.27	58.27	0.0	0.0	4.04E-05
4.79	0.55	0.56	131.14	98.51	1.77	47.09	59.02	59.02	0.0	0.0	3.83E-05
4.8	0.57	0.58	131.66	99.07	1.77	47.61	59.67	59.67	0.0	0.0	3.71E-05
4.81	0.58	0.58	131.8	99.3	1.77	47.85	59.98	59.98	0.0	0.0	3.67E-05
4.82	0.58	0.58	133.44	100.51	1.77	48.27	60.49	60.49	0.0	0.0	3.78E-05
4.83	0.57	0.58	135.62	102.03	1.76	48.64	60.96	60.96	0.0	0.0	4.00E-05
4.84	0.56	0.57	136.69	102.79	1.75	48.79	61.14	61.14	0.0	0.0	4.15E-05
4.85	0.55	0.56	139.23	104.5	1.74	49.06	61.49	61.49	0.0	0.0	4.49E-05
4.86	0.53	0.54	141.95	106.26	1.73	49.2	61.66	61.66	0.0	0.0	4.97E-05
4.87	0.52	0.53	143.0	106.96	1.72	49.22	61.69	61.69	0.0	0.0	5.21E-05
4.88	0.51	0.52	144.6	108.04	1.71	49.35	61.85	61.85	0.0	0.0	5.51E-05
4.89	0.51	0.52	144.72	108.18	1.71	49.38	61.89	61.89	0.0	0.0	5.57E-05
4.9	0.52	0.52	143.92	107.79	1.72	49.5	62.04	62.04	0.0	0.0	5.38E-05
4.91	0.52	0.53	142.94	107.25	1.72	49.51	62.05	62.05	0.0	0.0	5.23E-05
4.92	0.52	0.53	142.15	106.77	1.72	49.4	61.92	61.92	0.0	0.0	5.18E-05
4.93	0.53	0.53	141.54	106.47	1.73	49.46	61.99	61.99	0.0	0.0	5.07E-05
4.94	0.53	0.53	141.3	106.38	1.73	49.48	62.01	62.01	0.0	0.0	5.06E-05
4.95	0.53	0.53	141.06	106.3	1.73	49.49	62.03	62.03	0.0	0.0	5.05E-05
4.96	0.4	0.4	137.37	102.45	1.68	45.37	56.86	56.86	0.0	0.0	7.12E-05
4.97	0.42	0.43	137.68	103.0	1.69	46.13	57.82	57.82	0.0	0.0	6.64E-05
4.98	0.43	0.44	137.99	103.38	1.69	46.49	58.27	58.27	0.0	0.0	6.50E-05
4.99	0.44	0.45	138.48	103.95	1.7	47.02	58.93	58.93	0.0	0.0	6.29E-05
5.0	0.47	0.47	137.89	103.84	1.71	47.54	59.59	59.59	0.0	0.0	5.82E-05
5.01	0.48	0.48	136.75	103.26	1.71	47.72	59.81	59.81	0.0	0.0	5.50E-05
5.02	0.48	0.49	135.98	102.84	1.72	47.76	59.86	59.86	0.0	0.0	5.36E-05
5.03	0.5	0.5	134.14	101.77	1.73	47.83	59.95	59.95	0.0	0.0	4.97E-05
5.04	0.51	0.52	132.48	100.84	1.74	47.98	60.13	60.13	0.0	0.0	4.60E-05
5.05	0.53	0.53	131.36	100.23	1.75	48.1	60.29	60.29	0.0	0.0	4.37E-05
5.06	0.54	0.55	128.63	98.54	1.76	48.04	60.21	60.21	0.0	0.0	3.96E-05
5.07	0.56	0.57	126.63	97.32	1.77	48.03	60.19	60.19	0.0	0.0	3.67E-05
5.08	0.59	0.6	122.68	94.85	1.8	48.04	60.21	60.21	0.0	0.0	3.10E-05
5.09	0.62	0.63	119.27	92.66	1.81	47.86	59.99	59.99	0.0	0.0	2.73E-05
5.1	0.62	0.63	118.18	91.99	1.82	47.84	59.96	59.96	0.0	0.0	2.63E-05
5.11	0.63	0.64	116.92	91.18	1.83	47.73	59.82	59.82	0.0	0.0	2.53E-05
5.12	0.64	0.65	116.73	91.17	1.83	47.94	60.09	60.09	0.0	0.0	2.47E-05
5.13	0.63	0.64	117.6	91.77	1.82	47.96	60.11	60.11	0.0	0.0	2.59E-05
5.14	0.62	0.63	118.11	92.16	1.82	48.01	60.17	60.17	0.0	0.0	2.66E-05
5.15	0.6	0.61	119.5	93.1	1.81	48.03	60.2	60.2	0.0	0.0	2.86E-05

5.16	0.6	0.61	119.66	93.25	1.81	48.04	60.21	60.21	0.0	0.0	2.90E-05
5.17	0.59	0.6	119.29	92.99	1.8	47.87	60.0	60.0	0.0	0.0	2.94E-05
5.18	0.59	0.6	118.56	92.52	1.81	47.73	59.82	59.82	0.0	0.0	2.91E-05
5.19	0.59	0.6	117.49	91.79	1.81	47.51	59.55	59.55	0.0	0.0	2.87E-05
5.2	0.6	0.61	115.38	90.39	1.82	47.29	59.27	59.27	0.0	0.0	2.68E-05
5.21	0.6	0.61	112.75	88.56	1.83	46.82	58.69	58.69	0.0	0.0	2.52E-05
5.22	0.6	0.61	112.56	88.49	1.83	46.84	58.71	58.71	0.0	0.0	2.51E-05
5.23	0.63	0.64	108.9	86.05	1.85	46.62	58.44	58.44	0.0	0.0	2.17E-05
5.24	0.66	0.67	106.98	84.85	1.86	46.71	58.54	58.54	0.0	0.0	1.96E-05
5.25	0.67	0.68	106.12	84.35	1.87	46.84	58.7	58.7	0.0	0.0	1.86E-05
5.26	0.69	0.7	105.08	83.76	1.88	47.02	58.93	58.93	0.0	0.0	1.74E-05
5.27	0.71	0.72	104.74	83.66	1.89	47.36	59.36	59.36	0.0	0.0	1.66E-05
5.28	0.71	0.72	104.91	83.86	1.89	47.53	59.57	59.57	0.0	0.0	1.66E-05
5.29	0.7	0.72	106.29	84.9	1.88	47.81	59.92	59.92	0.0	0.0	1.74E-05
5.3	0.68	0.69	109.22	86.99	1.86	48.2	60.4	60.4	0.0	0.0	1.95E-05
5.31	0.67	0.68	111.11	88.36	1.85	48.47	60.75	60.75	0.0	0.0	2.09E-05
5.32	0.64	0.65	115.39	91.36	1.83	48.87	61.24	61.24	0.0	0.0	2.49E-05
5.33	0.61	0.62	118.29	93.37	1.81	49.07	61.5	61.5	0.0	0.0	2.82E-05
5.34	0.6	0.61	119.13	93.98	1.8	49.11	61.55	61.55	0.0	0.0	2.94E-05
5.35	0.58	0.59	121.16	95.34	1.79	49.04	61.46	61.46	0.0	0.0	3.28E-05
5.36	0.56	0.57	121.99	95.91	1.78	48.99	61.4	61.4	0.0	0.0	3.46E-05
5.37	0.54	0.55	123.15	96.64	1.77	48.72	61.07	61.07	0.0	0.0	3.79E-05
5.38	0.54	0.55	122.96	96.56	1.77	48.74	61.09	61.09	0.0	0.0	3.78E-05
5.39	0.52	0.53	121.58	95.46	1.76	48.0	60.16	60.16	0.0	0.0	3.90E-05
5.4	0.52	0.53	121.38	95.38	1.76	48.02	60.18	60.18	0.0	0.0	3.89E-05
5.41	0.52	0.53	120.85	95.04	1.76	47.91	60.05	60.05	0.0	0.0	3.87E-05
5.42	0.52	0.53	120.49	94.85	1.77	47.94	60.08	60.08	0.0	0.0	3.83E-05
5.43	0.54	0.55	118.96	93.93	1.78	48.11	60.3	60.3	0.0	0.0	3.53E-05
5.44	0.56	0.57	118.1	93.51	1.79	48.45	60.73	60.73	0.0	0.0	3.29E-05
5.45	0.57	0.58	117.24	92.99	1.79	48.5	60.79	60.79	0.0	0.0	3.17E-05
5.46	0.59	0.6	115.88	92.22	1.81	48.82	61.18	61.18	0.0	0.0	2.89E-05
5.47	0.6	0.61	115.19	91.85	1.81	48.97	61.38	61.38	0.0	0.0	2.77E-05
5.48	0.62	0.63	114.18	91.28	1.82	49.25	61.73	61.73	0.0	0.0	2.58E-05
5.49	0.64	0.65	113.5	90.91	1.83	49.43	61.95	61.95	0.0	0.0	2.47E-05
5.5	0.65	0.66	112.82	90.58	1.84	49.71	62.3	62.3	0.0	0.0	2.33E-05
5.51	0.67	0.68	112.31	90.36	1.84	50.02	62.7	62.7	0.0	0.0	2.22E-05
5.52	0.69	0.7	112.3	90.5	1.85	50.43	63.21	63.21	0.0	0.0	2.14E-05
5.53	0.69	0.7	112.96	91.07	1.85	50.73	63.58	63.58	0.0	0.0	2.15E-05
5.54	0.69	0.7	113.61	91.6	1.84	50.88	63.77	63.77	0.0	0.0	2.21E-05
5.55	0.68	0.69	114.43	92.22	1.84	50.99	63.9	63.9	0.0	0.0	2.29E-05
5.56	0.65	0.66	117.06	94.08	1.82	51.1	64.04	64.04	0.0	0.0	2.59E-05
5.57	0.65	0.66	116.88	94.0	1.82	51.11	64.06	64.06	0.0	0.0	2.58E-05
5.58	0.61	0.62	121.65	97.38	1.79	51.44	64.47	64.47	0.0	0.0	3.13E-05
5.59	0.6	0.6	123.77	98.9	1.78	51.59	64.66	64.66	0.0	0.0	3.42E-05
5.6	0.59	0.6	124.23	99.29	1.78	51.71	64.81	64.81	0.0	0.0	3.48E-05
5.61	0.6	0.61	123.22	98.64	1.78	51.68	64.77	64.77	0.0	0.0	3.36E-05
5.62	0.6	0.61	122.38	98.11	1.79	51.66	64.74	64.74	0.0	0.0	3.27E-05
5.63	0.62	0.63	120.72	97.05	1.8	51.75	64.85	64.85	0.0	0.0	3.03E-05
5.64	0.64	0.65	118.74	95.76	1.81	51.85	64.99	64.99	0.0	0.0	2.76E-05
5.65	0.66	0.67	117.58	95.04	1.82	51.96	65.12	65.12	0.0	0.0	2.60E-05
5.66	0.68	0.69	115.45	93.59	1.83	51.89	65.03	65.03	0.0	0.0	2.39E-05
5.67	0.68	0.7	113.81	92.46	1.84	51.74	64.85	64.85	0.0	0.0	2.26E-05
5.68	0.71	0.72	110.87	90.4	1.86	51.48	64.53	64.53	0.0	0.0	2.03E-05
5.69	0.72	0.73	109.41	89.41	1.87	51.45	64.49	64.49	0.0	0.0	1.91E-05
5.7	0.75	0.76	106.17	87.14	1.89	51.31	64.3	64.3	0.0	0.0	1.66E-05
5.71	0.78	0.8	103.1	84.99	1.91	51.18	64.14	64.14	0.0	0.0	1.44E-05
5.72	0.79	0.81	101.65	83.97	1.91	51.02	63.94	63.94	0.0	0.0	1.37E-05
5.73	0.79	0.8	101.66	83.99	1.91	50.95	63.85	63.85	0.0	0.0	1.39E-05
5.74	0.76	0.78	102.96	84.93	1.9	50.92	63.83	63.83	0.0	0.0	1.50E-05
5.75	0.73	0.74	106.82	87.8	1.88	51.41	64.43	64.43	0.0	0.0	1.76E-05
5.76	0.71	0.72	109.06	89.47	1.86	51.68	64.77	64.77	0.0	0.0	1.94E-05
5.77	0.68	0.69	113.87	93.01	1.84	52.21	65.44	65.44	0.0	0.0	2.34E-05
5.78	0.66	0.67	116.74	95.16	1.82	52.64	65.97	65.97	0.0	0.0	2.59E-05
5.79	0.61	0.62	123.91	100.34	1.78	53.19	66.66	66.66	0.0	0.0	3.43E-05
5.8	0.54	0.55	132.66	106.53	1.73	53.56	67.13	67.13	0.0	0.0	4.85E-05
5.81	0.52	0.52	136.76	109.48	1.71	53.85	67.49	67.49	0.0	0.0	5.62E-05
5.82	0.47	0.48	145.61	115.76	1.67	54.41	68.19	68.19	0.0	0.0	7.57E-05
5.83	0.44	0.44	152.69	120.77	1.64	54.82	68.71	68.71	0.0	0.0	9.51E-05
5.84	0.41	0.42	158.0	124.5	1.61	55.01	68.95	68.95	0.0	0.0	1.14E-04
5.85	0.4	0.4	159.97	125.92	1.6	55.07	69.02	69.02	0.0	0.0	1.22E-04
5.86	0.4	0.4	161.78	127.34	1.6	55.47	69.52	69.52	0.0	0.0	1.26E-04
5.87	0.4	0.4	162.63	128.07	1.59	55.7	69.82	69.82	0.0	0.0	1.28E-04
5.88	0.4	0.41	163.8	129.08	1.59	56.14	70.37	70.37	0.0	0.0	1.28E-04

5.89	0.41	0.42	163.86	129.3	1.6	56.49	70.8	70.8	0.0	0.0	1.25E-04
5.9	0.43	0.44	163.14	129.09	1.61	57.14	71.61	71.61	0.0	0.0	1.16E-04
5.91	0.45	0.45	164.46	130.37	1.61	58.12	72.84	72.84	0.0	0.0	1.11E-04
5.92	0.47	0.47	165.61	131.51	1.62	59.03	73.99	73.99	0.0	0.0	1.07E-04
5.93	0.48	0.48	165.52	131.67	1.63	59.53	74.61	74.61	0.0	0.0	1.03E-04
5.94	0.48	0.48	165.26	131.58	1.63	59.55	74.63	74.63	0.0	0.0	1.02E-04
5.95	0.48	0.48	165.01	131.48	1.63	59.57	74.66	74.66	0.0	0.0	1.02E-04
5.96	0.39	0.4	163.36	129.39	1.59	56.17	70.4	70.4	0.0	0.0	1.35E-04
5.97	0.41	0.41	163.74	129.9	1.59	56.77	71.15	71.15	0.0	0.0	1.30E-04
5.98	0.43	0.43	163.02	129.75	1.61	57.61	72.2	72.2	0.0	0.0	1.18E-04
5.99	0.46	0.47	163.39	130.46	1.62	58.88	73.8	73.8	0.0	0.0	1.07E-04
6.0	0.47	0.47	163.3	130.54	1.62	59.14	74.12	74.12	0.0	0.0	1.05E-04
6.01	0.49	0.5	161.35	129.42	1.64	59.67	74.78	74.78	0.0	0.0	9.40E-05
6.02	0.52	0.53	160.19	128.94	1.65	60.59	75.95	75.95	0.0	0.0	8.36E-05
6.03	0.53	0.53	158.87	128.09	1.66	60.6	75.95	75.95	0.0	0.0	8.05E-05
6.04	0.54	0.54	158.01	127.59	1.66	60.7	76.08	76.08	0.0	0.0	7.81E-05
6.05	0.54	0.54	157.62	127.4	1.67	60.77	76.16	76.16	0.0	0.0	7.72E-05
6.06	0.54	0.55	156.62	126.78	1.67	60.82	76.23	76.23	0.0	0.0	7.47E-05
6.07	0.56	0.56	156.84	127.16	1.68	61.4	76.95	76.95	0.0	0.0	7.21E-05
6.08	0.56	0.57	156.91	127.34	1.68	61.61	77.22	77.22	0.0	0.0	7.15E-05
6.09	0.57	0.58	156.06	126.87	1.68	61.85	77.52	77.52	0.0	0.0	6.84E-05
6.1	0.59	0.59	155.83	126.9	1.69	62.32	78.11	78.11	0.0	0.0	6.57E-05
6.11	0.59	0.6	154.99	126.37	1.69	62.32	78.11	78.11	0.0	0.0	6.42E-05
6.12	0.6	0.61	154.46	126.14	1.7	62.64	78.51	78.51	0.0	0.0	6.18E-05
6.13	0.6	0.61	154.07	125.93	1.7	62.62	78.49	78.49	0.0	0.0	6.15E-05
6.14	0.61	0.62	154.0	126.02	1.7	62.95	78.89	78.89	0.0	0.0	6.01E-05
6.15	0.61	0.62	153.92	126.03	1.7	62.96	78.91	78.91	0.0	0.0	6.04E-05
6.16	0.59	0.6	155.2	126.99	1.69	62.85	78.77	78.77	0.0	0.0	6.43E-05
6.17	0.59	0.6	155.88	127.56	1.69	62.94	78.88	78.88	0.0	0.0	6.59E-05
6.18	0.58	0.59	157.76	129.01	1.68	63.12	79.11	79.11	0.0	0.0	6.99E-05
6.19	0.57	0.58	158.58	129.68	1.68	63.18	79.19	79.19	0.0	0.0	7.21E-05
6.2	0.57	0.58	158.5	129.71	1.68	63.26	79.28	79.28	0.0	0.0	7.20E-05
6.21	0.58	0.58	157.66	129.17	1.68	63.22	79.24	79.24	0.0	0.0	7.07E-05
6.22	0.6	0.6	154.88	127.27	1.69	63.31	79.35	79.35	0.0	0.0	6.41E-05
6.23	0.62	0.62	151.37	124.77	1.71	63.2	79.21	79.21	0.0	0.0	5.75E-05
6.24	0.63	0.64	149.5	123.49	1.72	63.2	79.21	79.21	0.0	0.0	5.41E-05
6.25	0.65	0.66	146.0	121.0	1.73	63.14	79.13	79.13	0.0	0.0	4.81E-05
6.26	0.67	0.67	144.01	119.6	1.74	63.13	79.12	79.12	0.0	0.0	4.50E-05
6.27	0.69	0.7	141.28	117.71	1.76	63.29	79.33	79.33	0.0	0.0	4.02E-05
6.28	0.7	0.71	140.2	116.97	1.76	63.34	79.39	79.39	0.0	0.0	3.86E-05
6.29	0.72	0.73	137.78	115.23	1.78	63.23	79.25	79.25	0.0	0.0	3.57E-05
6.3	0.74	0.75	134.92	113.17	1.79	63.19	79.19	79.19	0.0	0.0	3.22E-05
6.31	0.77	0.78	131.04	110.3	1.81	62.95	78.9	78.9	0.0	0.0	2.81E-05
6.32	0.79	0.8	128.64	108.55	1.82	62.87	78.79	78.79	0.0	0.0	2.58E-05
6.33	0.83	0.85	123.6	104.78	1.85	62.55	78.4	78.4	0.0	0.0	2.14E-05
6.34	0.88	0.89	117.53	100.13	1.88	61.77	77.41	77.41	0.0	0.0	1.75E-05
6.35	0.9	0.92	113.99	97.42	1.89	61.3	76.83	76.83	0.0	0.0	1.55E-05
6.36	0.96	0.97	106.48	91.57	1.93	60.1	75.32	75.32	0.0	0.0	1.20E-05
6.37	0.99	1.01	102.67	88.61	1.95	59.57	74.66	74.66	0.0	0.0	1.04E-05
6.38	1.06	1.08	95.35	82.87	2.0	58.51	73.33	73.33	0.0	0.0	7.67E-06
6.39	1.1	1.12	92.15	80.36	2.02	58.01	72.71	72.71	0.0	0.0	6.70E-06
6.4	1.15	1.18	86.62	75.94	2.05	56.9	71.32	71.32	0.0	0.0	5.34E-06
6.41	1.18	1.21	82.72	72.78	2.07	55.93	70.1	70.1	0.0	0.0	4.58E-06
6.42	1.17	1.2	81.15	71.47	2.07	55.17	69.15	69.15	0.0	0.0	4.48E-06
6.43	1.15	1.18	80.9	71.25	2.07	54.87	68.76	68.76	0.0	0.0	4.57E-06
6.44	1.09	1.11	82.83	72.73	2.05	54.58	68.41	68.41	0.0	0.0	5.39E-06
6.45	1.0	1.02	86.5	75.58	2.01	54.53	68.34	68.34	0.0	0.0	6.94E-06
6.46	0.95	0.97	88.55	77.18	1.99	54.47	68.27	68.27	0.0	0.0	8.01E-06
6.47	0.86	0.88	91.76	79.59	1.95	53.94	67.6	67.6	0.0	0.0	1.04E-05
6.48	0.83	0.85	91.92	79.67	1.94	53.48	67.03	67.03	0.0	0.0	1.11E-05
6.49	0.81	0.83	90.05	78.1	1.94	52.54	65.85	65.85	0.0	0.0	1.10E-05
6.5	0.77	0.78	88.04	76.34	1.94	51.1	64.04	64.04	0.0	0.0	1.14E-05
6.51	0.74	0.76	86.34	74.88	1.94	50.08	62.76	62.76	0.0	0.0	1.15E-05
6.52	0.7	0.72	82.33	71.49	1.94	48.06	60.23	60.23	0.0	0.0	1.12E-05
6.53	0.66	0.67	78.92	68.55	1.94	46.09	57.77	57.77	0.0	0.0	1.12E-05
6.54	0.63	0.65	77.09	66.98	1.94	45.01	56.41	56.41	0.0	0.0	1.13E-05
6.55	0.62	0.63	73.55	64.04	1.95	43.62	54.67	54.67	0.0	0.0	1.05E-05
6.56	0.64	0.65	69.3	60.61	1.98	42.63	53.42	53.42	0.0	0.0	8.62E-06
6.57	0.66	0.67	66.35	58.24	2.0	42.02	52.66	52.66	0.0	0.0	7.39E-06
6.58	0.72	0.74	59.98	53.09	2.06	40.81	51.15	51.15	0.0	0.0	5.00E-06
6.59	0.76	0.79	56.77	50.49	2.09	40.29	50.5	50.5	0.0	0.0	3.99E-06
6.6	0.9	0.93	50.15	45.13	2.17	39.53	49.54	49.54	0.0	0.0	2.25E-06
6.61	1.0	1.03	47.24	42.79	2.21	39.4	46.5	49.39	0.0	0.0	1.66E-06

6.62	1.18	1.23	43.06	39.4	2.29	39.35	42.44	49.32	0.0	0.0	1.01E-06
6.63	1.3	1.35	41.87	38.51	2.32	39.96	41.32	50.09	0.0	0.0	7.97E-07
6.64	1.32	1.37	43.1	39.6	2.31	40.82	42.58	51.16	0.0	0.0	8.37E-07
6.65	1.22	1.27	48.14	43.91	2.26	42.51	47.62	53.28	0.0	0.0	1.24E-06
6.66	1.0	1.03	56.7	51.01	2.15	43.93	55.06	55.06	0.0	0.0	2.58E-06
6.67	0.9	0.93	61.01	54.53	2.1	44.42	55.67	55.67	0.0	0.0	3.66E-06
6.68	0.9	0.93	61.08	54.61	2.1	44.5	55.77	55.77	0.0	0.0	3.67E-06
6.69	0.89	0.91	59.31	53.09	2.11	43.59	54.63	54.63	0.0	0.0	3.52E-06
6.7	0.88	0.9	57.56	51.6	2.11	42.75	53.58	53.58	0.0	0.0	3.35E-06
6.71	0.86	0.88	54.13	48.65	2.13	41.09	51.5	51.5	0.0	0.0	2.99E-06
6.72	0.85	0.88	52.52	47.27	2.14	40.33	50.55	50.55	0.0	0.0	2.82E-06
6.73	0.82	0.85	51.19	46.11	2.14	39.51	49.52	49.52	0.0	0.0	2.76E-06
6.74	0.75	0.77	53.93	48.33	2.1	39.57	49.6	49.6	0.0	0.0	3.67E-06
6.75	0.69	0.71	56.24	50.21	2.07	39.65	49.69	49.69	0.0	0.0	4.61E-06
6.76	0.62	0.64	60.49	53.69	2.02	40.2	50.38	50.38	0.0	0.0	6.44E-06
6.77	0.56	0.57	62.79	55.48	1.98	39.86	49.96	49.96	0.0	0.0	8.35E-06
6.78	0.56	0.58	62.84	55.56	1.98	40.01	50.14	50.14	0.0	0.0	8.28E-06
6.79	0.57	0.58	62.87	55.63	1.99	40.13	50.3	50.3	0.0	0.0	8.22E-06
6.8	0.55	0.57	62.45	55.25	1.98	39.78	49.86	49.86	0.0	0.0	8.37E-06
6.81	0.51	0.53	62.49	55.22	1.97	39.14	49.05	49.05	0.0	0.0	9.26E-06
6.82	0.46	0.48	61.99	54.68	1.95	38.04	47.67	47.67	0.0	0.0	1.04E-05
6.83	0.46	0.47	61.63	54.37	1.95	37.78	47.35	47.35	0.0	0.0	1.06E-05
6.84	0.44	0.45	60.44	53.36	1.95	37.1	46.5	46.5	0.0	0.0	1.06E-05
6.85	0.45	0.46	58.57	51.83	1.97	36.73	46.03	46.03	0.0	0.0	9.46E-06
6.86	0.52	0.53	53.85	48.03	2.02	36.38	45.6	45.6	0.0	0.0	6.31E-06
6.87	0.58	0.6	50.63	45.43	2.07	36.22	45.39	45.39	0.0	0.0	4.63E-06
6.88	0.6	0.62	50.16	45.09	2.08	36.43	45.66	45.66	0.0	0.0	4.29E-06
6.89	0.63	0.65	50.93	45.82	2.08	37.24	46.68	46.68	0.0	0.0	4.15E-06
6.9	0.66	0.68	52.38	47.14	2.08	38.29	47.99	47.99	0.0	0.0	4.19E-06
6.91	0.64	0.66	54.64	49.07	2.06	38.99	48.87	48.87	0.0	0.0	4.82E-06
6.92	0.63	0.65	55.54	49.83	2.05	39.18	49.11	49.11	0.0	0.0	5.16E-06
6.93	0.61	0.63	59.02	52.8	2.02	40.23	50.42	50.42	0.0	0.0	6.29E-06
6.94	0.61	0.63	58.94	52.75	2.02	40.24	50.43	50.43	0.0	0.0	6.28E-06
6.95	0.61	0.63	58.87	52.71	2.02	40.25	50.45	50.45	0.0	0.0	6.27E-06
6.96	0.26	0.27	80.85	70.04	1.75	39.13	49.04	49.04	0.0	0.0	4.26E-05
6.97	0.23	0.24	92.43	79.42	1.68	40.9	51.26	51.26	0.0	0.0	7.05E-05
6.98	0.23	0.23	101.82	87.13	1.64	42.92	53.79	53.79	0.0	0.0	9.28E-05
6.99	0.23	0.23	105.34	90.03	1.62	43.61	54.66	54.66	0.0	0.0	1.03E-04
7.0	0.23	0.23	109.78	93.73	1.61	44.71	56.03	56.03	0.0	0.0	1.14E-04
7.01	0.24	0.24	111.39	95.14	1.61	45.3	56.78	56.78	0.0	0.0	1.16E-04
7.02	0.26	0.26	111.77	95.68	1.62	46.31	58.04	58.04	0.0	0.0	1.05E-04
7.03	0.26	0.27	111.22	95.32	1.63	46.4	58.15	58.15	0.0	0.0	1.02E-04
7.04	0.24	0.24	111.34	95.28	1.61	45.42	56.93	56.93	0.0	0.0	1.16E-04
7.05	0.25	0.25	111.06	95.2	1.62	45.83	57.44	57.44	0.0	0.0	1.10E-04
7.06	0.27	0.27	109.71	94.27	1.63	46.24	57.96	57.96	0.0	0.0	9.83E-05
7.07	0.29	0.29	108.49	93.48	1.65	46.83	58.7	58.7	0.0	0.0	8.68E-05
7.08	0.35	0.36	105.02	91.05	1.7	48.24	60.46	60.46	0.0	0.0	6.20E-05
7.09	0.42	0.42	100.22	87.45	1.75	49.15	61.6	61.6	0.0	0.0	4.35E-05
7.1	0.45	0.46	97.29	85.2	1.77	49.37	61.88	61.88	0.0	0.0	3.62E-05
7.11	0.52	0.53	90.5	79.81	1.83	49.38	61.89	61.89	0.0	0.0	2.44E-05
7.12	0.57	0.58	87.32	77.32	1.86	49.65	62.22	62.22	0.0	0.0	1.96E-05
7.13	0.72	0.73	79.88	71.46	1.95	50.6	63.42	63.42	0.0	0.0	1.09E-05
7.14	0.81	0.82	75.93	68.3	1.99	51.0	63.92	63.92	0.0	0.0	7.90E-06
7.15	1.0	1.02	68.66	62.4	2.08	51.5	64.55	64.55	0.0	0.0	4.32E-06
7.16	1.17	1.2	61.68	56.56	2.15	51.01	63.93	63.93	0.0	0.0	2.54E-06
7.17	1.27	1.31	58.82	54.18	2.19	51.03	63.96	63.96	0.0	0.0	1.96E-06
7.18	1.44	1.48	56.5	52.33	2.24	52.0	59.7	65.17	0.0	0.0	1.42E-06
7.19	1.46	1.5	58.96	54.56	2.23	53.59	62.36	67.16	0.0	0.0	1.53E-06
7.2	1.32	1.35	66.69	61.27	2.16	55.72	69.83	69.83	0.0	0.0	2.46E-06
7.21	1.24	1.27	70.84	64.84	2.12	56.6	70.93	70.93	0.0	0.0	3.17E-06
7.22	1.12	1.15	77.09	70.17	2.07	57.59	72.18	72.18	0.0	0.0	4.62E-06
7.23	1.07	1.1	79.24	71.98	2.05	57.68	72.29	72.29	0.0	0.0	5.37E-06
7.24	0.99	1.02	80.71	73.15	2.02	56.93	71.35	71.35	0.0	0.0	6.43E-06
7.25	0.97	1.0	80.21	72.7	2.02	56.4	70.69	70.69	0.0	0.0	6.59E-06
7.26	0.95	0.97	78.13	70.86	2.02	55.12	69.09	69.09	0.0	0.0	6.51E-06
7.27	0.93	0.96	75.28	68.37	2.03	53.82	67.45	67.45	0.0	0.0	6.09E-06
7.28	0.92	0.94	74.27	67.48	2.03	53.16	66.63	66.63	0.0	0.0	6.09E-06
7.29	0.86	0.88	73.0	66.28	2.02	51.59	64.66	64.66	0.0	0.0	6.58E-06
7.3	0.78	0.8	72.52	65.74	2.0	50.1	62.79	62.79	0.0	0.0	7.51E-06
7.31	0.75	0.77	72.04	65.27	1.99	49.27	61.75	61.75	0.0	0.0	7.99E-06
7.32	0.69	0.71	71.04	64.3	1.98	47.83	59.94	59.94	0.0	0.0	8.78E-06
7.33	0.67	0.69	69.13	62.63	1.98	46.85	58.72	58.72	0.0	0.0	8.52E-06
7.34	0.68	0.7	67.75	61.46	1.99	46.51	58.29	58.29	0.0	0.0	7.98E-06

7.35	0.7	0.72	64.68	58.84	2.01	45.71	57.3	57.3	0.0	0.0	6.84E-06
7.36	0.7	0.72	62.79	57.21	2.02	45.13	56.56	56.56	0.0	0.0	6.27E-06
7.37	0.7	0.72	58.56	53.52	2.05	43.4	54.39	54.39	0.0	0.0	5.34E-06
7.38	0.7	0.72	56.3	51.54	2.06	42.57	53.36	53.36	0.0	0.0	4.80E-06
7.39	0.75	0.77	51.71	47.58	2.11	41.42	51.92	51.92	0.0	0.0	3.51E-06
7.4	0.79	0.82	47.39	43.81	2.15	40.15	50.33	50.33	0.0	0.0	2.59E-06
7.41	0.77	0.8	43.85	40.65	2.17	38.31	48.01	48.01	0.0	0.0	2.20E-06
7.42	0.78	0.82	42.64	39.6	2.19	37.97	47.59	47.59	0.0	0.0	1.99E-06
7.43	0.81	0.85	41.05	38.22	2.21	37.62	44.66	47.15	0.0	0.0	1.71E-06
7.44	0.8	0.84	41.26	38.41	2.21	37.63	44.94	47.16	0.0	0.0	1.77E-06
7.45	0.78	0.81	42.37	39.38	2.19	37.84	47.42	47.42	0.0	0.0	2.00E-06
7.46	0.67	0.7	47.19	43.58	2.12	38.61	48.39	48.39	0.0	0.0	3.27E-06
7.47	0.6	0.62	51.24	47.08	2.06	39.15	49.07	49.07	0.0	0.0	4.79E-06
7.48	0.46	0.47	63.59	57.67	1.93	40.98	51.36	51.36	0.0	0.0	1.24E-05
7.49	0.4	0.41	70.55	63.59	1.86	41.83	52.43	52.43	0.0	0.0	1.97E-05
7.5	0.31	0.32	82.34	73.51	1.76	42.98	53.86	53.86	0.0	0.0	4.02E-05
7.51	0.28	0.28	88.1	78.36	1.71	43.47	54.48	54.48	0.0	0.0	5.52E-05
7.52	0.27	0.28	89.02	79.15	1.71	43.48	54.5	54.5	0.0	0.0	5.87E-05
7.53	0.27	0.27	89.67	79.74	1.7	43.58	54.62	54.62	0.0	0.0	6.08E-05
7.54	0.28	0.28	89.69	79.84	1.71	43.98	55.12	55.12	0.0	0.0	5.82E-05
7.55	0.29	0.3	90.22	80.41	1.71	44.68	56.0	56.0	0.0	0.0	5.55E-05
7.56	0.3	0.31	90.62	80.83	1.72	45.09	56.52	56.52	0.0	0.0	5.44E-05
7.57	0.35	0.35	90.89	81.29	1.74	46.6	58.4	58.4	0.0	0.0	4.64E-05
7.58	0.37	0.37	91.29	81.76	1.75	47.38	59.39	59.39	0.0	0.0	4.36E-05
7.59	0.4	0.41	91.56	82.18	1.76	48.62	60.93	60.93	0.0	0.0	3.87E-05
7.6	0.42	0.43	91.58	82.31	1.77	49.26	61.74	61.74	0.0	0.0	3.63E-05
7.61	0.46	0.47	91.72	82.62	1.79	50.53	63.33	63.33	0.0	0.0	3.20E-05
7.62	0.5	0.51	92.12	83.12	1.81	51.68	64.77	64.77	0.0	0.0	2.91E-05
7.63	0.51	0.52	92.14	83.22	1.81	52.15	65.36	65.36	0.0	0.0	2.79E-05
7.64	0.54	0.55	92.53	83.7	1.82	53.11	66.56	66.56	0.0	0.0	2.60E-05
7.65	0.56	0.57	93.05	84.26	1.83	53.96	67.63	67.63	0.0	0.0	2.47E-05
7.66	0.58	0.59	93.07	84.36	1.83	54.36	68.13	68.13	0.0	0.0	2.39E-05
7.67	0.6	0.61	92.83	84.26	1.84	54.98	68.9	68.9	0.0	0.0	2.23E-05
7.68	0.62	0.63	92.35	83.93	1.85	55.42	69.46	69.46	0.0	0.0	2.09E-05
7.69	0.63	0.64	92.12	83.78	1.86	55.52	69.58	69.58	0.0	0.0	2.05E-05
7.7	0.64	0.66	91.51	83.33	1.86	55.81	69.95	69.95	0.0	0.0	1.93E-05
7.71	0.65	0.66	90.9	82.84	1.87	55.73	69.85	69.85	0.0	0.0	1.89E-05
7.72	0.65	0.66	89.43	81.58	1.87	55.36	69.38	69.38	0.0	0.0	1.80E-05
7.73	0.65	0.67	88.08	80.44	1.88	55.09	69.05	69.05	0.0	0.0	1.71E-05
7.74	0.69	0.7	84.13	77.05	1.91	54.55	68.37	68.37	0.0	0.0	1.41E-05
7.75	0.74	0.76	79.07	72.7	1.95	53.99	67.67	67.67	0.0	0.0	1.07E-05
7.76	0.78	0.8	76.13	70.18	1.97	53.71	67.31	67.31	0.0	0.0	8.97E-06
7.77	0.85	0.88	70.84	65.6	2.02	53.15	66.61	66.61	0.0	0.0	6.42E-06
7.78	0.94	0.96	65.94	61.34	2.07	52.6	65.93	65.93	0.0	0.0	4.60E-06
7.79	1.03	1.06	61.05	56.93	2.12	51.93	65.09	65.09	0.0	0.0	3.25E-06
7.8	1.07	1.1	58.89	55.04	2.14	51.6	64.67	64.67	0.0	0.0	2.77E-06
7.81	1.14	1.17	54.88	51.49	2.18	50.61	63.44	63.44	0.0	0.0	2.10E-06
7.82	1.17	1.21	53.22	50.02	2.2	50.22	62.94	62.94	0.0	0.0	1.86E-06
7.83	1.2	1.24	51.07	48.1	2.22	49.5	58.16	62.04	0.0	0.0	1.62E-06
7.84	1.21	1.26	50.28	47.4	2.23	49.33	57.31	61.83	0.0	0.0	1.52E-06
7.85	1.2	1.25	49.98	47.13	2.23	49.07	57.03	61.5	0.0	0.0	1.52E-06
7.86	1.18	1.23	50.05	47.2	2.22	48.91	57.17	61.3	0.0	0.0	1.57E-06
7.87	1.11	1.15	50.85	47.87	2.2	48.36	58.15	60.61	0.0	0.0	1.84E-06
7.88	1.02	1.06	50.54	47.53	2.18	47.08	59.01	59.01	0.0	0.0	2.07E-06
7.89	0.99	1.03	49.75	46.8	2.18	46.26	57.98	57.98	0.0	0.0	2.11E-06
7.9	0.94	0.97	47.74	44.92	2.18	44.53	55.81	55.81	0.0	0.0	2.08E-06
7.91	0.88	0.92	44.75	42.16	2.19	42.32	53.05	53.05	0.0	0.0	1.94E-06
7.92	0.87	0.91	40.81	38.55	2.22	40.14	46.91	50.31	0.0	0.0	1.57E-06
7.93	0.89	0.93	38.69	36.64	2.25	39.28	44.53	49.23	0.0	0.0	1.33E-06
7.94	0.89	0.93	38.65	36.61	2.25	39.29	44.53	49.24	0.0	0.0	1.32E-06
7.95	0.89	0.93	38.61	36.58	2.25	39.3	44.52	49.26	0.0	0.0	1.32E-06
7.96	0.94	1.02	21.6	20.85	2.48	29.47	24.93	36.93	0.0	0.0	2.63E-07
7.97	1.12	1.23	20.12	19.53	2.54	29.82	23.25	37.38	0.0	0.0	1.68E-07
7.98	1.53	1.69	17.31	16.98	2.67	0.0	20.03	37.76	5.71	0.43	6.95E-08
7.99	2.24	2.52	14.64	14.53	2.82	0.0	16.95	38.77	4.83	0.37	2.38E-08
8.0	3.48	4.02	11.97	12.06	3.01	0.0	11.95	40.11	3.95	0.31	6.54E-09
8.01	3.78	4.4	11.24	11.37	3.05	0.0	10.59	39.89	3.71	0.29	4.79E-09
8.02	4.1	4.79	10.77	10.92	3.09	0.0	9.76	40.07	3.56	0.28	3.71E-09
8.03	4.22	4.95	10.66	10.81	3.1	0.0	9.57	40.28	3.52	0.27	3.41E-09
8.04	4.37	5.15	10.21	10.38	3.12	0.0	8.8	39.85	3.37	0.26	2.86E-09
8.05	4.4	5.2	10.02	10.19	3.13	0.0	8.5	39.58	3.31	0.26	2.70E-09
8.06	3.9	4.57	10.61	10.75	3.08	0.0	9.5	39.25	3.5	0.66	3.91E-09
8.07	2.62	2.95	14.52	14.46	2.86	0.0	16.93	40.8	4.79	0.05	1.79E-08

8.08	2.1	2.31	17.74	17.5	2.73	0.0	20.72	42.41	5.85	0.44	4.41E-08
8.09	1.33	1.43	25.39	24.6	2.49	35.73	29.68	44.79	0.0	0.0	2.38E-07
8.1	0.92	0.97	31.87	30.49	2.32	36.29	37.29	45.49	0.0	0.0	7.71E-07
8.11	0.79	0.83	34.0	32.4	2.27	36.02	39.83	45.15	0.0	0.0	1.16E-06
8.12	0.76	0.8	34.15	32.52	2.26	35.78	40.04	44.84	0.0	0.0	1.24E-06
8.13	0.63	0.67	33.24	31.6	2.23	33.7	39.02	42.24	0.0	0.0	1.49E-06
8.14	0.54	0.57	32.25	30.62	2.21	31.9	37.89	39.98	0.0	0.0	1.72E-06
8.15	0.48	0.51	29.84	28.36	2.22	29.89	35.1	37.47	0.0	0.0	1.61E-06
8.16	0.42	0.44	28.86	27.42	2.21	28.59	33.98	35.84	0.0	0.0	1.72E-06
8.17	0.31	0.33	27.17	25.79	2.19	26.23	32.88	32.88	0.0	0.0	2.00E-06
8.18	0.27	0.29	26.57	25.2	2.18	25.37	31.79	31.79	0.0	0.0	2.14E-06
8.19	0.22	0.23	25.62	24.29	2.17	24.12	30.23	30.23	0.0	0.0	2.33E-06
8.2	0.22	0.24	25.52	24.2	2.17	24.14	30.26	30.26	0.0	0.0	2.27E-06
8.21	0.27	0.29	27.18	25.78	2.17	25.65	32.15	32.15	0.0	0.0	2.31E-06
8.22	0.3	0.32	28.8	27.32	2.16	26.98	33.81	33.81	0.0	0.0	2.43E-06
8.23	0.36	0.38	33.48	31.7	2.13	30.06	37.68	37.68	0.0	0.0	3.09E-06
8.24	0.47	0.49	37.9	35.88	2.12	33.85	42.42	42.42	0.0	0.0	3.20E-06
8.25	0.58	0.61	39.0	37.0	2.15	36.19	45.36	45.36	0.0	0.0	2.60E-06
8.26	0.7	0.73	39.81	37.86	2.18	38.41	48.13	48.13	0.0	0.0	2.11E-06
8.27	0.74	0.78	40.09	38.17	2.19	39.21	49.15	49.15	0.0	0.0	1.97E-06
8.28	0.76	0.8	40.37	38.46	2.19	39.7	49.76	49.76	0.0	0.0	1.92E-06
8.29	0.76	0.79	40.68	38.75	2.19	39.79	49.87	49.87	0.0	0.0	1.99E-06
8.3	0.65	0.68	42.41	40.28	2.14	39.12	49.03	49.03	0.0	0.0	2.77E-06
8.31	0.45	0.47	45.41	42.86	2.04	36.99	46.35	46.35	0.0	0.0	5.54E-06
8.32	0.42	0.44	47.23	44.51	2.01	37.16	46.58	46.58	0.0	0.0	6.75E-06
8.33	0.39	0.4	52.9	49.69	1.96	38.77	48.59	48.59	0.0	0.0	1.01E-05
8.34	0.41	0.42	59.26	55.55	1.92	41.52	52.03	52.03	0.0	0.0	1.30E-05
8.35	0.45	0.46	62.1	58.23	1.92	43.49	54.51	54.51	0.0	0.0	1.31E-05
8.36	0.51	0.52	67.83	63.61	1.91	47.11	59.05	59.05	0.0	0.0	1.38E-05
8.37	0.52	0.53	72.63	68.05	1.89	49.13	61.58	61.58	0.0	0.0	1.60E-05
8.38	0.52	0.53	74.41	69.71	1.88	49.81	62.43	62.43	0.0	0.0	1.71E-05
8.39	0.49	0.5	76.86	71.92	1.86	49.94	62.59	62.59	0.0	0.0	2.03E-05
8.4	0.48	0.49	77.48	72.5	1.85	49.9	62.54	62.54	0.0	0.0	2.14E-05
8.41	0.5	0.51	78.68	73.67	1.85	51.01	63.93	63.93	0.0	0.0	2.07E-05
8.42	0.51	0.53	79.75	74.71	1.85	51.75	64.86	64.86	0.0	0.0	2.08E-05
8.43	0.51	0.53	82.44	77.2	1.84	52.69	66.04	66.04	0.0	0.0	2.27E-05
8.44	0.53	0.54	84.78	79.41	1.84	53.93	67.59	67.59	0.0	0.0	2.34E-05
8.45	0.53	0.54	85.95	80.53	1.83	54.52	68.33	68.33	0.0	0.0	2.40E-05
8.46	0.55	0.56	88.05	82.52	1.83	55.64	69.74	69.74	0.0	0.0	2.46E-05
8.47	0.57	0.58	89.68	84.09	1.83	56.87	71.28	71.28	0.0	0.0	2.43E-05
8.48	0.58	0.59	90.28	84.7	1.83	57.46	72.02	72.02	0.0	0.0	2.39E-05
8.49	0.59	0.6	91.44	85.84	1.83	58.25	73.0	73.0	0.0	0.0	2.40E-05
8.5	0.58	0.6	93.41	87.67	1.82	58.77	73.66	73.66	0.0	0.0	2.58E-05
8.51	0.57	0.58	94.57	88.75	1.81	58.86	73.77	73.77	0.0	0.0	2.76E-05
8.52	0.55	0.57	96.99	90.98	1.8	59.2	74.2	74.2	0.0	0.0	3.09E-05
8.53	0.56	0.57	98.03	91.98	1.79	59.74	74.87	74.87	0.0	0.0	3.13E-05
8.54	0.56	0.58	100.21	94.04	1.79	60.68	76.05	76.05	0.0	0.0	3.26E-05
8.55	0.56	0.57	100.9	94.71	1.78	60.81	76.21	76.21	0.0	0.0	3.37E-05
8.56	0.57	0.58	102.28	96.05	1.78	61.75	77.4	77.4	0.0	0.0	3.36E-05
8.57	0.6	0.61	102.97	96.8	1.79	62.98	78.93	78.93	0.0	0.0	3.14E-05
8.58	0.62	0.63	102.97	96.88	1.8	63.59	79.7	79.7	0.0	0.0	3.00E-05
8.59	0.65	0.67	103.09	97.11	1.81	64.73	81.12	81.12	0.0	0.0	2.75E-05
8.6	0.68	0.7	103.66	97.73	1.82	65.84	82.52	82.52	0.0	0.0	2.59E-05
8.61	0.7	0.71	104.01	98.13	1.83	66.54	83.4	83.4	0.0	0.0	2.51E-05
8.62	0.72	0.73	104.12	98.31	1.83	67.09	84.09	84.09	0.0	0.0	2.43E-05
8.63	0.75	0.76	104.69	98.94	1.84	68.33	85.64	85.64	0.0	0.0	2.27E-05
8.64	0.76	0.78	105.03	99.33	1.84	68.94	86.41	86.41	0.0	0.0	2.21E-05
8.65	0.79	0.8	106.17	100.46	1.85	70.08	87.83	87.83	0.0	0.0	2.16E-05
8.66	0.79	0.81	106.39	100.73	1.85	70.45	88.3	88.3	0.0	0.0	2.13E-05
8.67	0.81	0.83	107.3	101.65	1.85	71.46	89.56	89.56	0.0	0.0	2.08E-05
8.68	0.83	0.84	107.52	101.92	1.86	71.94	90.16	90.16	0.0	0.0	2.04E-05
8.69	0.83	0.85	108.98	103.34	1.85	72.73	91.15	91.15	0.0	0.0	2.08E-05
8.7	0.82	0.84	109.77	104.1	1.85	72.84	91.29	91.29	0.0	0.0	2.16E-05
8.71	0.83	0.84	109.2	103.63	1.85	72.92	91.39	91.39	0.0	0.0	2.10E-05
8.72	0.87	0.89	106.85	101.54	1.87	73.21	91.76	91.76	0.0	0.0	1.83E-05
8.73	0.92	0.93	103.26	98.29	1.9	73.11	91.63	91.63	0.0	0.0	1.53E-05
8.74	0.97	0.98	100.58	95.89	1.92	73.42	92.02	92.02	0.0	0.0	1.30E-05
8.75	0.98	1.0	99.25	94.69	1.93	73.33	91.9	91.9	0.0	0.0	1.23E-05
8.76	1.0	1.02	98.36	93.92	1.94	73.37	91.95	91.95	0.0	0.0	1.17E-05
8.77	1.0	1.01	98.6	94.17	1.93	73.5	92.12	92.12	0.0	0.0	1.18E-05
8.78	0.98	1.0	99.72	95.24	1.93	73.63	92.29	92.29	0.0	0.0	1.25E-05
8.79	0.96	0.98	100.39	95.9	1.92	73.61	92.26	92.26	0.0	0.0	1.31E-05
8.8	0.95	0.96	102.18	97.59	1.91	73.91	92.64	92.64	0.0	0.0	1.42E-05

8.81	0.91	0.93	104.41	99.69	1.89	74.06	92.82	92.82	0.0	0.0	1.59E-05
8.82	0.91	0.92	105.08	100.34	1.89	74.13	92.91	92.91	0.0	0.0	1.65E-05
8.83	0.91	0.92	104.75	100.08	1.89	74.09	92.87	92.87	0.0	0.0	1.63E-05
8.84	0.91	0.93	104.09	99.5	1.89	74.07	92.84	92.84	0.0	0.0	1.59E-05
8.85	0.92	0.93	102.21	97.78	1.9	73.42	92.02	92.02	0.0	0.0	1.52E-05
8.86	0.91	0.93	100.44	96.15	1.9	72.66	91.07	91.07	0.0	0.0	1.47E-05
8.87	0.89	0.91	98.79	94.61	1.9	71.58	89.72	89.72	0.0	0.0	1.46E-05
8.88	0.89	0.91	97.81	93.71	1.91	71.09	89.1	89.1	0.0	0.0	1.44E-05
8.89	0.9	0.92	95.61	91.68	1.92	70.49	88.35	88.35	0.0	0.0	1.34E-05
8.9	0.9	0.92	94.41	90.59	1.92	70.1	87.86	87.86	0.0	0.0	1.30E-05
8.91	0.93	0.95	91.46	87.86	1.94	69.72	87.38	87.38	0.0	0.0	1.13E-05
8.92	0.95	0.97	89.93	86.46	1.95	69.47	87.06	87.06	0.0	0.0	1.06E-05
8.93	0.95	0.97	89.84	86.41	1.95	69.48	87.09	87.09	0.0	0.0	1.05E-05
8.94	0.95	0.97	89.75	86.35	1.95	69.5	87.11	87.11	0.0	0.0	1.05E-05
8.95	1.01	1.04	65.78	63.63	2.08	59.77	74.91	74.91	0.0	0.0	4.37E-06
8.96	1.24	1.29	56.96	55.35	2.18	59.03	73.98	73.98	0.0	0.0	2.13E-06
8.97	1.41	1.46	52.2	50.87	2.24	58.69	66.85	73.56	0.0	0.0	1.36E-06
8.98	1.99	2.08	40.8	40.04	2.42	57.45	52.29	72.0	0.0	0.0	3.94E-07
8.99	2.41	2.53	35.52	35.0	2.52	56.77	45.57	71.16	11.72	0.82	1.97E-07
9.0	3.34	3.56	27.97	27.75	2.69	0.0	35.91	69.79	9.23	0.66	5.87E-08
9.01	3.61	3.86	26.75	26.57	2.73	0.0	34.37	70.02	8.83	0.64	4.52E-08
9.02	3.78	4.04	26.94	26.78	2.74	0.0	34.66	71.57	8.89	0.64	4.20E-08
9.03	2.73	2.86	38.62	38.08	2.53	62.49	49.72	78.33	12.74	0.89	1.87E-07
9.04	2.19	2.28	46.47	45.62	2.4	64.27	59.88	80.55	0.0	0.0	4.48E-07
9.05	1.46	1.5	64.36	62.69	2.18	67.29	84.34	84.34	0.0	0.0	2.12E-06
9.06	1.26	1.29	71.67	69.63	2.1	67.95	85.16	85.16	0.0	0.0	3.65E-06
9.07	1.04	1.06	79.29	76.81	2.02	67.44	84.53	84.53	0.0	0.0	6.69E-06
9.08	0.91	0.93	81.64	78.99	1.97	65.77	82.43	82.43	0.0	0.0	9.09E-06
9.09	0.82	0.84	81.96	79.25	1.94	63.83	79.99	79.99	0.0	0.0	1.10E-05
9.1	0.79	0.81	81.55	78.86	1.94	62.97	78.93	78.93	0.0	0.0	1.16E-05
9.11	0.71	0.73	80.49	77.81	1.91	60.5	75.82	75.82	0.0	0.0	1.36E-05
9.12	0.66	0.67	79.11	76.47	1.9	58.51	73.34	73.34	0.0	0.0	1.49E-05
9.13	0.64	0.65	78.27	75.68	1.9	57.68	72.3	72.3	0.0	0.0	1.53E-05
9.14	0.62	0.64	76.47	73.98	1.9	56.69	71.05	71.05	0.0	0.0	1.49E-05
9.15	0.64	0.65	75.42	73.02	1.91	56.72	71.09	71.09	0.0	0.0	1.38E-05
9.16	0.68	0.7	73.2	70.95	1.94	57.0	71.44	71.44	0.0	0.0	1.15E-05
9.17	0.7	0.72	71.84	69.68	1.95	56.83	71.23	71.23	0.0	0.0	1.05E-05
9.18	0.77	0.79	68.44	66.5	1.99	57.03	71.47	71.47	0.0	0.0	7.97E-06
9.19	0.82	0.84	64.73	62.99	2.03	56.51	70.83	70.83	0.0	0.0	6.19E-06
9.2	0.86	0.89	62.74	61.11	2.05	56.47	70.77	70.77	0.0	0.0	5.26E-06
9.21	0.93	0.95	57.97	56.57	2.1	55.31	69.33	69.33	0.0	0.0	3.83E-06
9.22	1.09	1.13	51.62	50.51	2.18	54.73	68.6	68.6	0.0	0.0	2.15E-06
9.23	1.19	1.23	48.05	47.09	2.22	54.11	63.07	67.82	0.0	0.0	1.55E-06
9.24	1.41	1.47	41.18	40.49	2.32	52.59	54.11	65.91	0.0	0.0	7.76E-07
9.25	1.82	1.92	33.05	32.64	2.47	50.71	43.46	63.56	0.0	0.0	2.83E-07
9.26	2.09	2.23	29.19	28.89	2.55	49.66	38.42	62.24	9.63	0.69	1.60E-07
9.27	2.73	2.95	22.78	22.66	2.71	0.0	30.01	59.45	7.52	0.55	5.28E-08
9.28	3.08	3.35	20.64	20.57	2.77	0.0	27.21	58.73	6.81	0.5	3.29E-08
9.29	3.85	4.27	16.8	16.8	2.91	0.0	22.17	56.73	5.54	0.42	1.28E-08
9.3	4.28	4.81	15.19	15.22	2.97	0.0	20.06	55.8	5.01	0.38	8.10E-09
9.31	5.26	6.02	12.95	13.02	3.09	0.0	15.93	55.07	4.27	0.33	3.63E-09
9.32	5.54	6.38	12.2	12.28	3.13	0.0	14.16	54.34	4.03	0.31	2.82E-09
9.33	5.91	6.9	11.14	11.22	3.18	0.0	11.81	52.99	3.67	0.29	1.96E-09
9.34	6.73	8.01	9.86	9.96	3.26	0.0	9.3	52.07	3.25	0.26	1.11E-09
9.35	6.99	8.38	9.33	9.43	3.29	0.0	8.33	51.28	3.08	0.24	9.40E-10
9.36	7.12	8.65	8.63	8.73	3.32	0.0	7.14	49.59	2.85	0.99	8.43E-10
9.37	6.56	8.03	8.32	8.41	3.32	0.0	6.64	47.32	2.75	0.74	8.67E-10
9.38	5.81	7.04	8.82	8.9	3.26	0.0	7.45	46.8	2.91	0.99	1.10E-09
9.39	3.69	4.27	11.88	11.91	3.03	0.0	13.45	46.87	3.92	0.59	5.67E-09
9.4	1.81	1.98	20.01	19.89	2.65	0.0	26.65	49.02	6.6	0.0	7.96E-08
9.41	1.31	1.4	25.75	25.5	2.48	40.46	34.33	50.71	0.0	0.0	2.67E-07
9.42	0.77	0.81	36.84	36.26	2.22	41.85	49.15	52.45	0.0	0.0	1.61E-06
9.43	0.66	0.69	40.27	39.58	2.15	42.01	52.66	52.66	0.0	0.0	2.59E-06
9.44	0.43	0.45	42.28	41.47	2.05	38.71	48.52	48.52	0.0	0.0	5.36E-06
9.45	0.4	0.42	41.88	41.08	2.04	38.04	47.67	47.67	0.0	0.0	5.64E-06
9.46	0.31	0.33	39.73	38.97	2.02	35.16	44.07	44.07	0.0	0.0	6.55E-06
9.47	0.29	0.3	38.44	37.71	2.02	34.11	42.75	42.75	0.0	0.0	6.48E-06
9.48	0.32	0.33	36.21	35.57	2.06	33.72	42.26	42.26	0.0	0.0	4.99E-06
9.49	0.37	0.39	33.78	33.22	2.11	33.67	42.2	42.2	0.0	0.0	3.44E-06
9.5	0.39	0.42	32.39	31.89	2.14	33.46	41.93	41.93	0.0	0.0	2.84E-06
9.51	0.47	0.5	29.03	28.63	2.21	32.99	39.05	41.35	0.0	0.0	1.69E-06
9.52	0.61	0.65	25.26	24.97	2.32	32.77	34.01	41.07	0.0	0.0	8.14E-07
9.53	0.7	0.76	23.26	23.03	2.38	32.66	31.35	40.93	0.0	0.0	5.29E-07

9.54	0.95	1.04	20.02	19.87	2.5	32.85	27.01	41.17	0.0	0.0	2.24E-07
9.55	1.33	1.48	16.89	16.81	2.64	0.0	22.8	41.49	5.57	0.42	8.45E-08
9.56	1.57	1.76	15.53	15.47	2.71	0.0	20.98	41.79	5.12	0.39	5.12E-08
9.57	2.22	2.54	13.34	13.33	2.85	0.0	17.17	42.98	4.4	0.34	1.90E-08
9.58	2.66	3.07	12.08	12.09	2.94	0.0	14.13	43.26	3.99	0.31	1.07E-08
9.59	3.31	3.9	10.53	10.55	3.04	0.0	10.75	43.28	3.47	0.27	5.00E-09
9.6	3.46	4.11	9.91	9.94	3.08	0.0	9.54	42.59	3.27	0.26	3.93E-09
9.61	3.59	4.32	9.15	9.18	3.12	0.0	8.14	41.43	3.02	0.24	2.95E-09
9.62	4.08	5.01	8.22	8.26	3.19	0.0	6.58	40.97	2.71	1.0	1.74E-09
9.63	4.52	5.65	7.52	7.56	3.26	0.0	5.52	40.57	2.48	1.0	1.13E-09
9.64	4.79	6.08	6.97	7.02	3.3	0.0	4.75	39.88	2.3	0.91	9.06E-10
9.65	4.7	6.0	6.77	6.82	3.31	0.0	4.49	39.1	2.23	0.92	8.87E-10
9.66	4.61	5.96	6.4	6.45	3.33	0.0	4.02	37.83	2.11	0.95	8.39E-10
9.67	4.24	5.5	6.31	6.35	3.31	0.0	3.9	36.58	2.08	0.96	8.81E-10
9.68	4.01	5.23	6.2	6.24	3.3	0.0	3.77	35.67	2.05	0.98	9.01E-10
9.69	3.47	4.54	6.1	6.13	3.27	0.0	3.65	33.82	2.01	1.0	9.89E-10
9.7	2.64	3.39	6.51	6.54	3.18	0.0	4.16	32.09	2.15	0.97	1.93E-09
9.71	2.23	2.85	6.82	6.84	3.12	0.0	4.56	31.26	2.25	0.99	2.89E-09
9.72	1.64	2.06	7.34	7.35	3.02	0.0	5.28	29.67	2.42	1.01	5.81E-09
9.73	1.39	1.72	7.75	7.75	2.96	0.0	5.88	29.06	2.56	0.96	8.81E-09
9.74	0.98	1.21	7.8	7.8	2.89	0.0	5.95	26.67	2.57	0.96	1.48E-08
9.75	0.84	1.05	7.66	7.65	2.87	0.0	5.74	25.54	2.53	0.86	1.70E-08
9.76	0.84	1.05	7.43	7.43	2.88	0.0	5.42	25.21	2.45	0.83	1.56E-08
9.77	0.79	0.98	7.53	7.53	2.86	0.0	5.57	24.97	2.49	0.84	1.78E-08
9.78	0.49	0.61	7.42	7.41	2.79	0.0	5.4	22.42	2.45	0.83	2.98E-08
9.79	0.36	0.46	7.12	7.11	2.76	0.0	4.98	20.81	2.35	0.87	3.60E-08
9.8	0.29	0.36	7.22	7.21	2.73	0.0	5.12	20.21	2.38	0.87	4.61E-08
9.81	0.3	0.37	7.42	7.41	2.72	0.0	5.42	20.57	2.45	0.89	4.89E-08
9.82	0.21	0.27	7.41	7.4	2.68	0.0	5.4	19.57	2.45	0.88	6.40E-08
9.83	0.19	0.23	7.39	7.37	2.67	0.0	5.37	19.26	2.44	0.84	6.91E-08
9.84	0.28	0.36	7.07	7.06	2.73	0.0	4.93	20.02	2.33	0.86	4.41E-08
9.85	0.36	0.46	6.87	6.86	2.78	0.0	4.66	20.58	2.27	0.88	3.23E-08
9.86	0.51	0.64	6.98	6.97	2.82	0.0	4.81	22.1	2.3	0.88	2.39E-08
9.87	0.45	0.57	7.18	7.18	2.79	0.0	5.1	21.9	2.37	0.9	2.96E-08
9.88	0.43	0.53	7.45	7.45	2.77	0.0	5.5	22.05	2.46	0.84	3.51E-08
9.89	0.4	0.49	8.28	8.26	2.71	0.0	6.78	22.87	2.73	0.97	5.14E-08
9.9	0.42	0.51	8.67	8.65	2.7	0.0	7.44	23.57	2.86	0.98	5.63E-08
9.91	0.48	0.58	8.83	8.82	2.71	0.0	7.74	24.4	2.91	0.91	5.19E-08
9.92	0.51	0.62	8.81	8.8	2.72	0.0	7.71	24.68	2.91	0.85	4.83E-08
9.93	0.51	0.62	8.8	8.79	2.72	0.0	7.7	24.69	2.9	0.85	4.82E-08
9.94	0.51	0.62	8.79	8.78	2.72	0.0	7.69	24.7	2.9	0.85	4.80E-08
9.95	1.59	2.04	6.68	6.68	3.06	0.0	4.45	28.68	2.2	0.91	4.61E-09
9.96	1.97	2.54	6.48	6.49	3.11	0.0	4.19	30.04	2.14	0.84	3.04E-09
9.97	1.87	2.42	6.48	6.49	3.1	0.0	4.2	29.66	2.14	0.72	3.28E-09
9.98	1.69	2.17	6.58	6.59	3.07	0.0	4.34	29.05	2.17	0.41	4.03E-09
9.99	1.54	1.95	6.99	6.99	3.03	0.0	4.89	29.12	2.31	0.01	5.56E-09
10.0	1.41	1.8	6.99	6.99	3.01	0.0	4.89	28.49	2.31	0.0	6.29E-09
10.01	1.53	1.94	6.89	6.89	3.03	0.0	4.76	28.92	2.27	0.02	5.38E-09
10.02	1.4	1.77	7.11	7.11	3.0	0.0	5.06	28.67	2.35	0.57	6.74E-09
10.03	1.18	1.5	7.02	7.02	2.97	0.0	4.94	27.29	2.32	0.78	8.27E-09
10.04	0.97	1.23	6.8	6.8	2.95	0.0	4.64	25.59	2.24	0.41	9.96E-09
10.05	0.96	1.24	6.49	6.49	2.96	0.0	4.23	25.05	2.14	0.09	8.70E-09
10.06	1.0	1.3	6.31	6.31	2.98	0.0	4.0	25.0	2.08	0.39	7.57E-09
10.07	0.97	1.26	6.31	6.31	2.98	0.0	4.01	24.84	2.08	0.5	7.87E-09
10.08	0.57	0.74	6.31	6.31	2.88	0.0	4.01	22.04	2.08	0.62	1.53E-08
10.09	0.49	0.63	6.31	6.31	2.86	0.0	4.01	21.36	2.08	0.72	1.83E-08
10.1	0.44	0.58	6.21	6.21	2.85	0.0	3.89	20.84	2.05	0.69	1.93E-08
10.11	0.4	0.52	6.21	6.21	2.84	0.0	3.89	20.45	2.05	0.78	2.15E-08
10.12	0.41	0.53	6.2	6.2	2.84	0.0	3.89	20.57	2.05	0.81	2.08E-08
10.13	0.42	0.55	6.2	6.2	2.84	0.0	3.89	20.7	2.05	0.87	2.02E-08
10.14	0.45	0.59	6.1	6.1	2.86	0.0	3.77	20.83	2.01	0.88	1.79E-08
10.15	0.46	0.61	6.0	6.0	2.87	0.0	3.65	20.77	1.98	0.85	1.66E-08
10.16	0.44	0.57	6.0	6.0	2.86	0.0	3.65	20.57	1.98	0.91	1.76E-08
10.17	0.4	0.53	6.0	6.0	2.85	0.0	3.65	20.29	1.98	0.96	1.91E-08
10.18	0.31	0.41	6.0	6.0	2.82	0.0	3.66	19.43	1.98	1.0	2.43E-08
10.19	0.35	0.46	6.11	6.11	2.83	0.0	3.79	19.98	2.01	1.05	2.30E-08
10.2	0.28	0.36	6.3	6.3	2.78	0.0	4.04	19.54	2.08	1.04	3.12E-08
10.21	0.21	0.26	9.16	9.17	2.59	17.68	8.54	22.16	3.02	0.9	1.24E-07
10.22	0.16	0.18	13.0	13.01	2.4	19.97	17.23	25.03	0.0	0.0	4.38E-07
10.23	0.1	0.11	21.86	21.9	2.15	24.26	30.41	30.41	0.0	0.0	2.65E-06
10.24	0.12	0.13	27.15	27.2	2.06	27.04	33.89	33.89	0.0	0.0	4.85E-06
10.25	0.12	0.13	34.69	34.77	1.96	30.23	37.89	37.89	0.0	0.0	1.02E-05
10.26	0.11	0.12	37.91	38.02	1.91	31.35	39.29	39.29	0.0	0.0	1.37E-05

10.27	0.12	0.12	38.91	39.04	1.9	31.79	39.84	39.84	0.0	0.0	1.47E-05
10.28	0.11	0.12	40.01	40.16	1.89	32.16	40.31	40.31	0.0	0.0	1.62E-05
10.29	0.11	0.12	40.76	40.93	1.88	32.44	40.66	40.66	0.0	0.0	1.72E-05
10.3	0.13	0.13	41.31	41.49	1.88	33.0	41.36	41.36	0.0	0.0	1.69E-05
10.31	0.12	0.12	42.44	42.65	1.86	33.16	41.56	41.56	0.0	0.0	1.92E-05
10.32	0.16	0.17	42.79	43.01	1.89	34.56	43.32	43.32	0.0	0.0	1.61E-05
10.33	0.19	0.2	42.26	42.49	1.91	35.17	44.07	44.07	0.0	0.0	1.37E-05
10.34	0.29	0.31	38.43	38.62	2.01	36.25	45.43	45.43	0.0	0.0	6.88E-06
10.35	0.37	0.39	35.48	35.65	2.08	36.67	45.96	45.96	0.0	0.0	4.17E-06
10.36	0.56	0.6	30.01	30.14	2.23	37.22	43.3	46.65	0.0	0.0	1.53E-06
10.37	0.67	0.72	26.59	26.69	2.31	36.71	38.4	46.01	0.0	0.0	8.50E-07
10.38	0.97	1.06	20.75	20.81	2.49	35.8	29.99	44.87	0.0	0.0	2.49E-07
10.39	1.1	1.21	18.22	18.26	2.56	34.77	26.35	43.57	0.0	0.0	1.43E-07
10.4	1.55	1.77	13.66	13.68	2.76	0.0	19.32	41.73	4.51	0.34	3.72E-08
10.41	2.14	2.51	10.95	10.94	2.92	0.0	12.4	41.2	3.61	0.28	1.18E-08
10.42	2.36	2.81	9.97	9.96	2.98	0.0	10.29	40.59	3.29	0.26	7.69E-09
10.43	2.8	3.39	9.01	9.0	3.06	0.0	8.41	40.77	2.97	0.24	4.31E-09
10.44	3.2	3.9	8.63	8.62	3.12	0.0	7.72	41.65	2.85	0.23	3.03E-09
10.45	3.51	4.31	8.25	8.23	3.16	0.0	7.05	41.98	2.72	0.22	2.27E-09
10.46	4.58	5.81	7.01	6.98	3.29	0.0	5.08	42.32	2.31	0.78	9.34E-10
10.47	5.2	6.74	6.44	6.41	3.36	0.0	4.29	42.43	2.12	0.85	7.53E-10
10.48	5.24	6.94	5.81	5.78	3.4	0.0	3.49	40.49	1.92	1.05	6.56E-10
10.49	4.72	6.23	5.95	5.92	3.37	0.0	3.67	39.63	1.96	1.05	7.38E-10
10.5	4.4	5.79	6.04	6.02	3.34	0.0	3.79	39.04	1.99	1.05	7.97E-10
10.51	3.64	4.72	6.42	6.4	3.27	0.0	4.28	37.82	2.12	1.03	1.04E-09
10.52	3.32	4.26	6.71	6.69	3.23	0.0	4.68	37.54	2.22	1.02	1.39E-09
10.53	2.6	3.23	7.78	7.76	3.11	0.0	6.31	37.36	2.57	0.59	3.23E-09
10.54	2.26	2.77	8.45	8.44	3.04	0.0	7.45	37.28	2.79	0.12	5.19E-09
10.55	1.6	1.88	10.7	10.7	2.86	0.0	11.98	37.76	3.53	0.17	1.79E-08
10.56	1.32	1.52	12.2	12.22	2.76	0.0	15.6	38.1	4.03	0.69	3.52E-08
10.57	1.06	1.2	13.6	13.63	2.67	0.0	19.42	37.85	4.49	0.2	6.70E-08
10.58	0.95	1.08	13.25	13.29	2.66	0.0	18.46	36.32	4.37	0.33	7.32E-08
10.59	0.94	1.08	12.72	12.75	2.68	0.0	17.01	35.61	4.2	0.32	6.53E-08
10.6	0.73	0.86	11.3	11.33	2.68	0.0	13.44	31.68	3.73	0.29	6.52E-08
10.61	0.65	0.77	9.86	9.89	2.71	0.0	10.25	28.89	3.25	0.26	5.13E-08
10.62	0.76	0.92	9.22	9.23	2.77	0.0	8.95	29.14	3.04	0.24	3.38E-08
10.63	1.3	1.61	7.91	7.9	2.94	0.0	6.58	31.08	2.61	0.21	1.02E-08
10.64	1.64	2.06	7.44	7.43	3.02	0.0	5.82	32.22	2.46	0.2	5.99E-09
10.65	2.15	2.73	7.07	7.05	3.1	0.0	5.26	34.05	2.33	0.58	3.36E-09
10.66	2.13	2.7	7.08	7.06	3.1	0.0	5.27	33.98	2.34	0.25	3.43E-09
10.67	2.02	2.54	7.37	7.34	3.07	0.0	5.71	34.13	2.43	0.01	4.17E-09
10.68	1.86	2.31	7.85	7.83	3.02	0.0	6.49	34.35	2.59	0.4	5.74E-09
10.69	1.81	2.24	8.03	8.02	3.01	0.0	6.81	34.48	2.65	0.64	6.43E-09
10.7	1.82	2.25	7.93	7.92	3.01	0.0	6.65	34.35	2.62	0.65	6.16E-09
10.71	1.75	2.18	7.83	7.82	3.01	0.0	6.48	33.83	2.58	0.58	6.27E-09
10.72	1.31	1.65	7.36	7.35	2.97	0.0	5.73	30.33	2.43	0.34	8.16E-09
10.73	1.03	1.29	7.36	7.35	2.92	0.0	5.74	28.5	2.43	0.5	1.16E-08
10.74	0.69	0.84	9.07	9.08	2.76	0.0	8.74	28.54	2.99	0.82	3.64E-08
10.75	0.37	0.41	15.29	15.41	2.43	25.31	22.74	31.73	0.0	0.0	3.67E-07
10.76	0.27	0.29	20.55	20.79	2.26	27.38	30.59	34.31	0.0	0.0	1.22E-06
10.77	0.26	0.28	29.28	29.7	2.1	32.14	40.28	40.28	0.0	0.0	3.59E-06
10.78	0.29	0.31	32.55	33.05	2.08	34.53	43.28	43.28	0.0	0.0	4.35E-06
10.79	0.35	0.37	30.56	31.0	2.13	34.72	43.52	43.52	0.0	0.0	2.99E-06
10.8	0.43	0.47	25.16	25.47	2.25	33.17	37.57	41.57	0.0	0.0	1.32E-06
10.81	0.46	0.5	22.02	22.27	2.31	31.52	32.91	39.5	0.0	0.0	8.42E-07
10.82	0.57	0.62	20.31	20.51	2.38	31.87	30.37	39.94	0.0	0.0	5.09E-07
10.83	0.69	0.76	17.58	17.72	2.48	31.21	26.32	39.11	0.0	0.0	2.59E-07
10.84	0.65	0.72	17.66	17.82	2.47	30.82	26.47	38.62	0.0	0.0	2.86E-07
10.85	0.65	0.71	22.63	22.88	2.37	34.84	33.93	43.66	0.0	0.0	5.74E-07
10.86	0.59	0.64	26.16	26.49	2.29	36.54	39.26	45.8	0.0	0.0	9.86E-07
10.87	0.53	0.56	34.34	34.88	2.16	40.58	50.87	50.87	0.0	0.0	2.50E-06
10.88	0.55	0.58	38.22	38.86	2.12	43.33	54.31	54.31	0.0	0.0	3.15E-06
10.89	0.66	0.68	43.21	43.95	2.11	48.22	60.44	60.44	0.0	0.0	3.45E-06
10.9	0.82	0.86	43.25	43.95	2.16	51.53	64.58	64.58	0.0	0.0	2.42E-06
10.91	0.83	0.87	42.37	43.05	2.17	51.21	64.19	64.19	0.0	0.0	2.24E-06
10.92	0.83	0.87	42.33	43.03	2.17	51.23	64.21	64.21	0.0	0.0	2.24E-06
10.93	0.83	0.87	42.29	43.0	2.17	51.24	64.22	64.22	0.0	0.0	2.23E-06
10.94	0.71	0.72	68.25	69.76	1.95	62.67	78.54	78.54	0.0	0.0	1.04E-05
10.95	0.79	0.81	70.13	71.68	1.97	65.85	82.53	82.53	0.0	0.0	9.22E-06
10.96	1.03	1.06	66.82	68.17	2.06	70.02	87.76	87.76	0.0	0.0	5.05E-06
10.97	1.16	1.2	62.97	64.17	2.11	70.69	88.6	88.6	0.0	0.0	3.47E-06
10.98	1.49	1.54	53.02	53.87	2.24	70.09	80.35	87.85	0.0	0.0	1.41E-06
10.99	1.94	2.03	42.53	43.06	2.39	68.1	64.52	85.35	0.0	0.0	4.92E-07

11.0	2.4	2.53	33.73	34.03	2.53	64.52	51.2	80.86	11.13	0.79	1.85E-07
11.01	2.51	2.67	30.62	30.87	2.58	62.22	46.52	77.99	10.11	0.72	1.33E-07
11.02	2.42	2.59	27.19	27.38	2.61	0.0	41.34	72.15	8.97	0.65	1.06E-07
11.03	2.29	2.45	26.99	27.19	2.59	56.28	41.06	70.53	8.91	0.64	1.16E-07
11.04	1.91	2.04	27.15	27.4	2.54	53.13	41.34	66.59	8.96	0.64	1.66E-07
11.05	1.67	1.79	27.61	27.89	2.5	51.38	42.07	64.39	0.0	0.0	2.20E-07
11.06	1.77	1.89	27.43	27.7	2.52	52.15	41.82	65.36	0.0	0.0	1.96E-07
11.07	1.95	2.11	23.54	23.72	2.6	0.0	35.92	62.32	7.77	0.57	1.10E-07
11.08	1.88	2.05	21.28	21.42	2.63	0.0	32.49	58.49	7.02	0.52	8.96E-08
11.09	1.42	1.58	16.92	17.03	2.65	0.0	25.86	47.65	5.58	0.42	7.88E-08
11.1	1.29	1.45	15.11	15.2	2.67	0.0	23.11	43.88	4.99	0.38	6.68E-08
11.11	1.43	1.66	12.1	12.13	2.79	0.0	16.04	40.6	3.99	0.31	3.01E-08
11.12	1.67	1.97	10.72	10.72	2.87	0.0	12.58	40.04	3.54	0.28	1.67E-08
11.13	2.45	3.02	8.31	8.26	3.07	0.0	7.52	39.8	2.74	0.22	4.25E-09
11.14	3.28	4.17	7.09	7.02	3.2	0.0	5.45	40.44	2.34	0.81	1.62E-09
11.15	3.43	4.39	6.81	6.74	3.23	0.0	5.04	40.28	2.25	0.0	1.34E-09
11.16	3.38	4.34	6.72	6.65	3.23	0.0	4.9	39.87	2.22	0.0	1.32E-09
11.17	3.18	4.08	6.71	6.64	3.22	0.0	4.89	39.09	2.21	0.0	1.46E-09
11.18	2.72	3.44	7.16	7.1	3.15	0.0	5.58	38.4	2.36	0.03	2.32E-09
11.19	1.89	2.25	10.08	10.06	2.93	0.0	11.15	40.54	3.33	0.92	1.14E-08
11.2	1.18	1.31	16.84	16.98	2.61	0.0	25.95	45.41	5.56	0.97	1.05E-07
11.21	0.95	1.03	22.05	22.34	2.45	39.01	34.0	48.9	0.0	0.0	3.10E-07
11.22	0.59	0.62	34.57	35.35	2.17	42.82	53.67	53.67	0.0	0.0	2.23E-06
11.23	0.45	0.47	39.79	40.83	2.06	42.91	53.78	53.78	0.0	0.0	4.83E-06
11.24	0.31	0.33	47.08	48.54	1.93	42.93	53.8	53.8	0.0	0.0	1.23E-05
11.25	0.29	0.31	49.2	50.79	1.9	43.29	54.26	54.26	0.0	0.0	1.50E-05
11.26	0.28	0.29	52.5	54.28	1.87	44.26	55.48	55.48	0.0	0.0	1.91E-05
11.27	0.28	0.29	53.82	55.67	1.85	44.73	56.06	56.06	0.0	0.0	2.08E-05
11.28	0.26	0.27	55.95	57.95	1.83	45.08	56.5	56.5	0.0	0.0	2.48E-05
11.29	0.31	0.32	58.43	60.52	1.83	47.5	59.53	59.53	0.0	0.0	2.37E-05
11.3	0.32	0.33	59.82	61.99	1.83	48.66	60.99	60.99	0.0	0.0	2.37E-05
11.31	0.34	0.35	62.48	64.78	1.82	50.18	62.9	62.9	0.0	0.0	2.55E-05
11.32	0.37	0.38	64.58	66.98	1.83	52.19	65.41	65.41	0.0	0.0	2.48E-05
11.33	0.39	0.4	65.52	67.96	1.83	53.18	66.66	66.66	0.0	0.0	2.43E-05
11.34	0.42	0.43	66.45	68.93	1.84	54.6	68.43	68.43	0.0	0.0	2.28E-05
11.35	0.44	0.45	66.48	68.95	1.85	55.55	69.62	69.62	0.0	0.0	2.09E-05
11.36	0.51	0.53	66.61	69.02	1.88	57.98	72.66	72.66	0.0	0.0	1.68E-05
11.37	0.54	0.56	66.64	69.05	1.9	58.88	73.79	73.79	0.0	0.0	1.55E-05
11.38	0.56	0.57	66.67	69.09	1.9	59.45	74.52	74.52	0.0	0.0	1.48E-05
11.39	0.57	0.58	66.62	69.04	1.91	59.75	74.89	74.89	0.0	0.0	1.44E-05
11.4	0.58	0.6	66.56	68.99	1.91	60.22	75.48	75.48	0.0	0.0	1.38E-05
11.41	0.63	0.65	66.5	68.9	1.93	61.74	77.38	77.38	0.0	0.0	1.20E-05
11.42	0.65	0.67	66.27	68.66	1.94	62.11	77.85	77.85	0.0	0.0	1.14E-05
11.43	0.69	0.71	65.23	67.55	1.96	62.84	78.76	78.76	0.0	0.0	9.87E-06
11.44	0.76	0.78	63.75	65.95	1.99	63.94	80.14	80.14	0.0	0.0	7.93E-06
11.45	0.79	0.81	62.9	65.05	2.01	64.35	80.65	80.65	0.0	0.0	7.14E-06
11.46	0.85	0.88	61.07	63.1	2.04	64.89	81.33	81.33	0.0	0.0	5.82E-06
11.47	0.89	0.92	60.04	62.01	2.05	65.2	81.72	81.72	0.0	0.0	5.18E-06
11.48	0.98	1.02	56.97	58.75	2.1	65.63	82.26	82.26	0.0	0.0	3.76E-06
11.49	1.0	1.04	56.3	58.05	2.11	65.64	82.27	82.27	0.0	0.0	3.53E-06
11.5	1.01	1.05	55.63	57.36	2.11	65.52	82.11	82.11	0.0	0.0	3.36E-06
11.51	1.04	1.07	54.52	56.19	2.13	65.36	81.92	81.92	0.0	0.0	3.06E-06
11.52	1.04	1.08	54.04	55.7	2.13	65.16	81.67	81.67	0.0	0.0	2.97E-06
11.53	1.04	1.08	53.2	54.83	2.14	64.58	80.94	80.94	0.0	0.0	2.87E-06
11.54	1.03	1.07	52.71	54.34	2.14	64.23	80.5	80.5	0.0	0.0	2.83E-06
11.55	1.04	1.08	51.43	53.01	2.15	63.5	79.59	79.59	0.0	0.0	2.64E-06
11.56	1.05	1.09	50.51	52.05	2.16	63.17	79.17	79.17	0.0	0.0	2.47E-06
11.57	1.09	1.14	48.0	49.41	2.19	62.37	78.17	78.17	0.0	0.0	2.01E-06
11.58	1.13	1.18	44.7	45.96	2.22	60.79	71.03	76.19	0.0	0.0	1.57E-06
11.59	1.16	1.21	43.0	44.17	2.24	60.06	68.37	75.28	0.0	0.0	1.36E-06
11.6	1.25	1.31	40.15	41.17	2.29	59.36	63.89	74.39	0.0	0.0	9.96E-07
11.61	1.29	1.35	40.03	41.04	2.3	59.87	63.75	75.04	0.0	0.0	9.38E-07
11.62	1.24	1.3	41.58	42.68	2.27	60.42	66.27	75.73	0.0	0.0	1.10E-06
11.63	1.06	1.11	47.25	48.7	2.19	61.51	77.09	77.09	0.0	0.0	2.04E-06
11.64	0.95	0.98	53.71	55.55	2.11	63.44	79.51	79.51	0.0	0.0	3.50E-06
11.65	0.92	0.95	56.47	58.49	2.08	64.65	81.03	81.03	0.0	0.0	4.18E-06
11.66	0.87	0.9	62.45	64.84	2.03	67.11	84.11	84.11	0.0	0.0	5.96E-06
11.67	0.81	0.84	65.18	67.8	2.0	67.1	84.1	84.1	0.0	0.0	7.59E-06
11.68	0.75	0.77	69.13	72.07	1.95	67.44	84.53	84.53	0.0	0.0	1.03E-05
11.69	0.71	0.73	71.07	74.19	1.93	67.55	84.66	84.66	0.0	0.0	1.19E-05
11.7	0.66	0.67	75.44	78.93	1.89	67.95	85.17	85.17	0.0	0.0	1.61E-05
11.71	0.64	0.65	77.56	81.23	1.87	68.36	85.68	85.68	0.0	0.0	1.82E-05
11.72	0.59	0.6	81.25	85.27	1.83	68.32	85.62	85.62	0.0	0.0	2.38E-05

11.73	0.55	0.56	84.23	88.55	1.81	68.34	85.65	85.65	0.0	0.0	2.91E-05
11.74	0.54	0.55	84.94	89.36	1.8	68.25	85.54	85.54	0.0	0.0	3.08E-05
11.75	0.54	0.55	85.83	90.34	1.79	68.64	86.03	86.03	0.0	0.0	3.18E-05
11.76	0.55	0.56	86.11	90.65	1.8	69.3	86.86	86.86	0.0	0.0	3.08E-05
11.77	0.59	0.6	86.73	91.27	1.81	71.18	89.21	89.21	0.0	0.0	2.78E-05
11.78	0.62	0.63	87.44	92.01	1.82	72.52	90.89	90.89	0.0	0.0	2.64E-05
11.79	0.62	0.63	87.37	91.96	1.82	72.54	90.91	90.91	0.0	0.0	2.63E-05
11.8	0.59	0.6	89.29	94.1	1.8	72.34	90.67	90.67	0.0	0.0	3.03E-05
11.81	0.61	0.62	91.46	96.43	1.8	74.16	92.94	92.94	0.0	0.0	3.03E-05
11.82	0.63	0.64	92.25	97.28	1.8	75.11	94.13	94.13	0.0	0.0	2.98E-05
11.83	0.66	0.67	92.78	97.81	1.81	76.71	96.15	96.15	0.0	0.0	2.75E-05
11.84	0.75	0.77	94.09	99.08	1.84	80.75	101.2	101.2	0.0	0.0	2.24E-05
11.85	0.78	0.79	94.36	99.36	1.85	81.8	102.52	102.52	0.0	0.0	2.13E-05
11.86	0.8	0.81	94.71	99.73	1.86	82.74	103.71	103.71	0.0	0.0	2.05E-05
11.87	0.84	0.85	95.16	100.17	1.87	84.39	105.77	105.77	0.0	0.0	1.90E-05
11.88	0.88	0.9	95.51	100.51	1.88	86.08	107.89	107.89	0.0	0.0	1.74E-05
11.89	0.9	0.91	95.78	100.8	1.88	86.84	108.84	108.84	0.0	0.0	1.69E-05
11.9	0.91	0.93	96.13	101.18	1.89	87.56	109.74	109.74	0.0	0.0	1.66E-05
11.91	0.94	0.96	96.05	101.08	1.89	88.54	110.97	110.97	0.0	0.0	1.56E-05
11.92	0.94	0.96	95.98	101.03	1.89	88.56	110.99	110.99	0.0	0.0	1.56E-05
11.93	0.94	0.96	95.9	100.97	1.89	88.58	111.02	111.02	0.0	0.0	1.56E-05
11.94	0.83	0.85	97.03	102.39	1.86	85.59	107.28	107.28	0.0	0.0	2.01E-05
11.95	0.86	0.88	96.78	102.11	1.87	86.48	108.39	108.39	0.0	0.0	1.88E-05
11.96	0.87	0.88	96.45	101.76	1.87	86.6	108.54	108.54	0.0	0.0	1.84E-05
11.97	0.92	0.93	94.49	99.61	1.89	87.32	109.45	109.45	0.0	0.0	1.58E-05
11.98	0.95	0.97	93.65	98.68	1.91	87.98	110.27	110.27	0.0	0.0	1.45E-05
11.99	0.98	1.0	92.81	97.75	1.92	88.75	111.23	111.23	0.0	0.0	1.32E-05
12.0	1.01	1.04	92.99	97.92	1.93	89.95	112.74	112.74	0.0	0.0	1.24E-05
12.01	1.02	1.04	93.42	98.41	1.93	90.44	113.35	113.35	0.0	0.0	1.24E-05
12.02	1.02	1.04	94.2	99.27	1.92	90.9	113.92	113.92	0.0	0.0	1.27E-05
12.03	1.0	1.02	96.34	101.63	1.91	91.33	114.47	114.47	0.0	0.0	1.41E-05
12.04	0.99	1.01	97.02	102.41	1.9	91.43	114.59	114.59	0.0	0.0	1.46E-05
12.05	0.98	1.0	98.05	103.55	1.9	91.93	115.22	115.22	0.0	0.0	1.51E-05
12.06	1.0	1.01	98.48	104.02	1.9	92.65	116.12	116.12	0.0	0.0	1.49E-05
12.07	1.0	1.02	98.83	104.41	1.9	93.17	116.78	116.78	0.0	0.0	1.48E-05
12.08	1.0	1.02	99.85	105.55	1.9	93.61	117.32	117.32	0.0	0.0	1.53E-05
12.09	1.0	1.02	100.28	106.04	1.9	94.0	117.82	117.82	0.0	0.0	1.54E-05
12.1	0.99	1.01	101.13	107.0	1.89	94.24	118.12	118.12	0.0	0.0	1.59E-05
12.11	0.99	1.0	101.39	107.32	1.89	94.16	118.02	118.02	0.0	0.0	1.63E-05
12.12	0.98	1.0	101.48	107.45	1.89	94.11	117.95	117.95	0.0	0.0	1.65E-05
12.13	0.97	0.99	102.24	108.33	1.88	94.22	118.09	118.09	0.0	0.0	1.72E-05
12.14	0.96	0.98	102.41	108.56	1.88	94.13	117.98	117.98	0.0	0.0	1.75E-05
12.15	0.96	0.98	102.67	108.87	1.88	94.24	118.12	118.12	0.0	0.0	1.77E-05
12.16	0.97	0.98	102.59	108.8	1.88	94.42	118.35	118.35	0.0	0.0	1.75E-05
12.17	0.99	1.0	101.66	107.8	1.89	94.68	118.67	118.67	0.0	0.0	1.65E-05
12.18	1.0	1.02	100.49	106.53	1.89	94.64	118.61	118.61	0.0	0.0	1.56E-05
12.19	1.01	1.03	99.91	105.91	1.9	94.66	118.64	118.64	0.0	0.0	1.51E-05
12.2	1.02	1.04	98.99	104.94	1.9	94.49	118.42	118.42	0.0	0.0	1.46E-05
12.21	1.02	1.04	98.24	104.16	1.91	94.11	117.95	117.95	0.0	0.0	1.43E-05
12.22	1.05	1.07	96.58	102.31	1.92	94.5	118.44	118.44	0.0	0.0	1.28E-05
12.23	1.05	1.07	95.75	101.44	1.93	94.12	117.96	117.96	0.0	0.0	1.25E-05
12.24	1.08	1.11	94.0	99.53	1.94	94.16	118.01	118.01	0.0	0.0	1.13E-05
12.25	1.09	1.11	92.51	97.93	1.95	93.48	117.16	117.16	0.0	0.0	1.09E-05
12.26	1.09	1.11	91.51	96.89	1.95	92.98	116.53	116.53	0.0	0.0	1.06E-05
12.27	1.11	1.13	89.61	94.81	1.96	92.59	116.04	116.04	0.0	0.0	9.68E-06
12.28	1.09	1.11	88.12	93.26	1.96	91.17	114.27	114.27	0.0	0.0	9.65E-06
12.29	1.08	1.11	87.3	92.4	1.97	90.64	113.6	113.6	0.0	0.0	9.51E-06
12.3	1.08	1.11	85.23	90.19	1.97	89.48	112.14	112.14	0.0	0.0	8.98E-06
12.31	1.09	1.11	83.92	88.78	1.98	88.95	111.49	111.49	0.0	0.0	8.55E-06
12.32	1.11	1.14	80.03	84.57	2.0	87.22	109.31	109.31	0.0	0.0	7.37E-06
12.33	1.13	1.15	75.07	79.21	2.03	84.68	106.13	106.13	0.0	0.0	6.11E-06
12.34	1.13	1.15	75.01	79.17	2.03	84.7	106.15	106.15	0.0	0.0	6.11E-06
12.35	1.1	1.12	71.97	75.94	2.04	82.02	102.8	102.8	0.0	0.0	5.82E-06
12.36	1.03	1.05	68.76	72.58	2.03	78.26	98.09	98.09	0.0	0.0	5.89E-06
12.37	1.02	1.05	67.3	71.02	2.04	77.31	96.9	96.9	0.0	0.0	5.62E-06
12.38	0.97	1.0	64.27	67.83	2.04	74.05	92.81	92.81	0.0	0.0	5.56E-06
12.39	0.94	0.97	61.5	64.88	2.05	71.68	89.84	89.84	0.0	0.0	5.23E-06
12.4	0.93	0.96	60.62	63.96	2.05	70.93	88.9	88.9	0.0	0.0	5.14E-06
12.41	0.92	0.95	58.84	62.07	2.06	69.5	87.1	87.1	0.0	0.0	4.90E-06
12.42	0.9	0.94	57.31	60.44	2.07	68.32	85.63	85.63	0.0	0.0	4.68E-06
12.43	0.92	0.96	56.12	59.14	2.08	68.06	85.3	85.3	0.0	0.0	4.27E-06
12.44	0.93	0.96	55.41	58.39	2.08	67.7	84.85	84.85	0.0	0.0	4.12E-06
12.45	0.94	0.97	54.38	57.27	2.1	67.4	84.47	84.47	0.0	0.0	3.82E-06

12.46	0.94	0.97	53.93	56.8	2.1	67.11	84.12	84.12	0.0	0.0	3.75E-06
12.47	0.95	0.98	52.98	55.78	2.11	66.78	83.7	83.7	0.0	0.0	3.51E-06
12.48	0.98	1.02	52.61	55.36	2.12	67.31	84.36	84.36	0.0	0.0	3.25E-06
12.49	1.03	1.07	51.92	54.56	2.14	68.03	85.26	85.26	0.0	0.0	2.86E-06
12.5	1.06	1.09	51.55	54.16	2.14	68.29	85.59	85.59	0.0	0.0	2.70E-06
12.51	1.1	1.15	51.02	53.55	2.16	68.99	86.47	86.47	0.0	0.0	2.42E-06
12.52	1.13	1.17	50.73	53.24	2.17	69.29	86.85	86.85	0.0	0.0	2.30E-06
12.53	1.14	1.19	50.29	52.75	2.17	69.31	86.87	86.87	0.0	0.0	2.20E-06
12.54	1.15	1.2	50.25	52.71	2.18	69.53	87.15	87.15	0.0	0.0	2.16E-06
12.55	1.14	1.19	50.3	52.78	2.17	69.44	87.03	87.03	0.0	0.0	2.19E-06
12.56	1.13	1.18	50.42	52.93	2.17	69.37	86.94	86.94	0.0	0.0	2.24E-06
12.57	1.11	1.15	50.55	53.1	2.17	69.07	86.57	86.57	0.0	0.0	2.34E-06
12.58	1.11	1.15	50.59	53.16	2.16	69.05	86.54	86.54	0.0	0.0	2.36E-06
12.59	1.07	1.11	51.13	53.77	2.15	68.72	86.12	86.12	0.0	0.0	2.58E-06
12.6	1.04	1.08	51.74	54.48	2.14	68.51	85.86	85.86	0.0	0.0	2.82E-06
12.61	1.03	1.06	52.02	54.81	2.13	68.45	85.8	85.8	0.0	0.0	2.93E-06
12.62	0.99	1.03	52.8	55.69	2.12	68.35	85.66	85.66	0.0	0.0	3.22E-06
12.63	0.98	1.02	53.0	55.93	2.12	68.25	85.54	85.54	0.0	0.0	3.33E-06
12.64	0.98	1.01	53.36	56.35	2.11	68.39	85.72	85.72	0.0	0.0	3.43E-06
12.65	0.97	1.01	53.65	56.67	2.11	68.51	85.87	85.87	0.0	0.0	3.51E-06
12.66	0.95	0.98	54.5	57.63	2.1	68.62	86.01	86.01	0.0	0.0	3.81E-06
12.67	0.93	0.96	54.94	58.14	2.09	68.54	85.91	85.91	0.0	0.0	4.03E-06
12.68	0.91	0.94	56.03	59.37	2.07	68.67	86.06	86.06	0.0	0.0	4.46E-06
12.69	0.9	0.93	56.8	60.23	2.07	69.04	86.53	86.53	0.0	0.0	4.69E-06
12.7	0.89	0.92	57.16	60.64	2.06	69.17	86.7	86.7	0.0	0.0	4.82E-06
12.71	0.88	0.91	57.84	61.41	2.05	69.4	86.98	86.98	0.0	0.0	5.08E-06
12.72	0.88	0.91	58.04	61.64	2.05	69.47	87.07	87.07	0.0	0.0	5.17E-06
12.73	0.87	0.9	58.72	62.41	2.05	69.83	87.52	87.52	0.0	0.0	5.38E-06
12.74	0.88	0.91	59.32	63.07	2.04	70.37	88.2	88.2	0.0	0.0	5.48E-06
12.75	0.89	0.92	59.43	63.2	2.05	70.71	88.62	88.62	0.0	0.0	5.41E-06
12.76	0.91	0.94	59.39	63.13	2.05	71.23	89.27	89.27	0.0	0.0	5.20E-06
12.77	0.92	0.95	59.42	63.17	2.05	71.51	89.62	89.62	0.0	0.0	5.12E-06
12.78	0.91	0.94	59.3	63.05	2.05	71.38	89.47	89.47	0.0	0.0	5.13E-06
12.79	0.91	0.94	59.49	63.28	2.05	71.6	89.74	89.74	0.0	0.0	5.16E-06
12.8	0.92	0.95	59.77	63.58	2.05	72.06	90.31	90.31	0.0	0.0	5.13E-06
12.81	0.92	0.95	60.93	64.86	2.05	72.82	91.26	91.26	0.0	0.0	5.41E-06
12.82	0.92	0.95	61.44	65.44	2.04	73.12	91.64	91.64	0.0	0.0	5.56E-06
12.83	0.91	0.94	63.15	67.35	2.03	74.03	92.79	92.79	0.0	0.0	6.07E-06
12.84	0.9	0.92	64.23	68.57	2.02	74.32	93.15	93.15	0.0	0.0	6.54E-06
12.85	0.86	0.89	66.5	71.13	2.0	74.83	93.79	93.79	0.0	0.0	7.67E-06
12.86	0.84	0.87	68.28	73.15	1.98	75.32	94.4	94.4	0.0	0.0	8.60E-06
12.87	0.8	0.82	71.42	76.72	1.95	75.81	95.02	95.02	0.0	0.0	1.07E-05
12.88	0.77	0.79	73.76	79.39	1.93	76.14	95.43	95.43	0.0	0.0	1.25E-05
12.89	0.74	0.76	75.22	81.26	1.91	75.98	95.23	95.23	0.0	0.0	1.42E-05
12.9	0.67	0.69	78.51	85.11	1.87	75.48	94.6	94.6	0.0	0.0	1.87E-05
12.91	0.67	0.69	78.45	85.07	1.87	75.5	94.62	94.62	0.0	0.0	1.86E-05
12.92	0.67	0.69	78.39	85.03	1.87	75.51	94.65	94.65	0.0	0.0	1.86E-05
12.93	0.47	0.48	83.25	91.16	1.76	69.66	87.31	87.31	0.0	0.0	4.07E-05
12.94	0.46	0.47	83.89	91.95	1.75	69.6	87.23	87.23	0.0	0.0	4.29E-05
12.95	0.5	0.51	84.54	92.57	1.77	71.56	89.69	89.69	0.0	0.0	3.86E-05
12.96	0.51	0.52	84.95	93.03	1.77	72.23	90.53	90.53	0.0	0.0	3.78E-05
12.97	0.52	0.53	85.68	93.82	1.77	73.25	91.8	91.8	0.0	0.0	3.68E-05
12.98	0.56	0.57	86.0	94.08	1.79	75.11	94.13	94.13	0.0	0.0	3.29E-05
12.99	0.58	0.59	85.78	93.79	1.8	75.87	95.09	95.09	0.0	0.0	3.07E-05
13.0	0.62	0.64	85.16	92.98	1.82	77.3	96.89	96.89	0.0	0.0	2.68E-05
13.01	0.65	0.66	84.7	92.41	1.83	78.1	97.89	97.89	0.0	0.0	2.46E-05
13.02	0.69	0.71	83.45	90.89	1.85	79.37	99.48	99.48	0.0	0.0	2.08E-05
13.03	0.73	0.75	82.68	89.94	1.87	80.36	100.72	100.72	0.0	0.0	1.86E-05
13.04	0.81	0.83	81.28	88.19	1.9	82.41	103.28	103.28	0.0	0.0	1.48E-05
13.05	0.84	0.86	80.51	87.28	1.92	83.07	104.12	104.12	0.0	0.0	1.34E-05
13.06	0.91	0.93	79.03	85.5	1.94	84.54	105.96	105.96	0.0	0.0	1.11E-05
13.07	1.02	1.04	76.54	82.33	1.99	86.62	108.56	108.56	0.0	0.0	8.14E-06
13.08	1.06	1.09	76.09	81.77	2.0	87.67	109.88	109.88	0.0	0.0	7.40E-06
13.09	1.1	1.13	74.62	80.1	2.02	87.85	110.11	110.11	0.0	0.0	6.59E-06
13.1	1.15	1.18	73.78	79.1	2.03	88.86	111.37	111.37	0.0	0.0	5.84E-06
13.11	1.17	1.21	73.33	78.58	2.04	89.26	111.88	111.88	0.0	0.0	5.53E-06
13.12	1.2	1.23	72.26	77.38	2.05	89.23	111.83	111.83	0.0	0.0	5.13E-06
13.13	1.21	1.25	71.43	76.45	2.06	89.16	111.75	111.75	0.0	0.0	4.85E-06
13.14	1.25	1.29	69.65	74.45	2.08	88.93	111.46	111.46	0.0	0.0	4.30E-06
13.15	1.28	1.32	67.8	72.39	2.1	88.45	110.86	110.86	0.0	0.0	3.83E-06
13.16	1.3	1.34	66.89	71.38	2.1	88.29	110.65	110.65	0.0	0.0	3.61E-06
13.17	1.33	1.37	65.28	69.58	2.12	87.87	110.13	110.13	0.0	0.0	3.25E-06
13.18	1.33	1.37	64.53	68.77	2.12	87.45	109.6	109.6	0.0	0.0	3.14E-06

13.19	1.35	1.39	63.4	67.51	2.13	87.02	109.07	109.07	0.0	0.0	2.94E-06
13.2	1.34	1.38	62.89	66.97	2.13	86.54	108.47	108.47	0.0	0.0	2.91E-06
13.21	1.31	1.36	62.3	66.37	2.13	85.49	107.14	107.14	0.0	0.0	2.96E-06
13.22	1.29	1.33	62.1	66.19	2.13	84.8	106.28	106.28	0.0	0.0	3.06E-06
13.23	1.23	1.27	62.44	66.66	2.11	83.7	104.91	104.91	0.0	0.0	3.40E-06
13.24	1.14	1.18	63.4	67.85	2.09	82.27	103.11	103.11	0.0	0.0	4.08E-06
13.25	1.11	1.14	63.9	68.47	2.07	81.77	102.48	102.48	0.0	0.0	4.43E-06
13.26	1.01	1.04	65.48	70.39	2.04	80.31	100.65	100.65	0.0	0.0	5.62E-06
13.27	0.97	0.99	66.06	71.11	2.03	79.53	99.68	99.68	0.0	0.0	6.25E-06
13.28	0.89	0.91	67.01	72.52	2.0	77.84	97.55	97.55	0.0	0.0	7.65E-06
13.29	0.81	0.84	67.5	73.24	1.97	75.93	95.17	95.17	0.0	0.0	9.18E-06
13.3	0.78	0.8	67.45	73.28	1.96	74.82	93.78	93.78	0.0	0.0	9.95E-06
13.31	0.71	0.73	67.02	72.96	1.94	72.57	90.96	90.96	0.0	0.0	1.14E-05
13.32	0.67	0.69	66.74	72.75	1.93	71.21	89.25	89.25	0.0	0.0	1.24E-05
13.33	0.66	0.68	66.38	72.4	1.92	70.7	88.61	88.61	0.0	0.0	1.26E-05
13.34	0.66	0.68	65.95	71.93	1.93	70.45	88.3	88.3	0.0	0.0	1.24E-05
13.35	0.66	0.68	65.82	71.82	1.93	70.27	88.07	88.07	0.0	0.0	1.25E-05
13.36	0.68	0.7	65.39	71.28	1.94	70.91	88.87	88.87	0.0	0.0	1.15E-05
13.37	0.7	0.73	65.04	70.85	1.95	71.45	89.55	89.55	0.0	0.0	1.08E-05
13.38	0.75	0.78	64.76	70.43	1.97	72.89	91.36	91.36	0.0	0.0	9.47E-06
13.39	0.78	0.8	64.48	70.09	1.97	73.47	92.09	92.09	0.0	0.0	8.88E-06
13.4	0.82	0.84	64.2	69.71	1.99	74.54	93.42	93.42	0.0	0.0	8.04E-06
13.41	0.83	0.86	64.16	69.63	1.99	75.08	94.1	94.1	0.0	0.0	7.73E-06
13.42	0.88	0.91	63.88	69.25	2.01	76.31	95.64	95.64	0.0	0.0	6.93E-06
13.43	0.91	0.93	63.76	69.07	2.02	77.02	96.53	96.53	0.0	0.0	6.53E-06
13.44	0.97	1.0	63.33	68.48	2.04	78.62	98.54	98.54	0.0	0.0	5.64E-06
13.45	1.02	1.05	62.98	67.85	2.06	79.81	100.02	100.02	0.0	0.0	5.05E-06
13.46	1.04	1.07	62.7	67.52	2.06	80.26	100.59	100.59	0.0	0.0	4.80E-06
13.47	1.07	1.11	62.28	67.0	2.07	80.92	101.42	101.42	0.0	0.0	4.43E-06
13.48	1.1	1.14	61.54	66.15	2.09	81.23	101.81	101.81	0.0	0.0	4.08E-06
13.49	1.12	1.15	61.35	65.92	2.09	81.5	102.15	102.15	0.0	0.0	3.95E-06
13.5	1.12	1.15	61.07	65.63	2.09	81.33	101.93	101.93	0.0	0.0	3.92E-06
13.51	1.12	1.15	60.88	65.43	2.09	81.18	101.74	101.74	0.0	0.0	3.90E-06
13.52	1.12	1.15	60.6	65.13	2.09	81.11	101.66	101.66	0.0	0.0	3.84E-06
13.53	1.13	1.16	60.41	64.91	2.1	81.27	101.86	101.86	0.0	0.0	3.75E-06
13.54	1.13	1.17	60.37	64.87	2.1	81.43	102.06	102.06	0.0	0.0	3.70E-06
13.55	1.14	1.17	60.32	64.83	2.1	81.55	102.21	102.21	0.0	0.0	3.67E-06
13.56	1.14	1.17	60.35	64.88	2.1	81.58	102.25	102.25	0.0	0.0	3.69E-06
13.57	1.14	1.18	60.24	64.74	2.1	81.74	102.45	102.45	0.0	0.0	3.63E-06
13.58	1.14	1.18	60.12	64.63	2.1	81.64	102.32	102.32	0.0	0.0	3.63E-06
13.59	1.14	1.18	59.85	64.34	2.1	81.44	102.08	102.08	0.0	0.0	3.60E-06
13.6	1.15	1.18	59.58	64.04	2.11	81.44	102.07	102.07	0.0	0.0	3.52E-06
13.61	1.15	1.19	59.23	63.66	2.11	81.32	101.93	101.93	0.0	0.0	3.45E-06
13.62	1.13	1.17	58.89	63.32	2.11	80.6	101.01	101.01	0.0	0.0	3.53E-06
13.63	1.12	1.16	58.77	63.21	2.11	80.44	100.82	100.82	0.0	0.0	3.54E-06
13.64	1.14	1.17	58.27	62.65	2.11	80.46	100.84	100.84	0.0	0.0	3.39E-06
13.65	1.14	1.18	58.01	62.35	2.12	80.48	100.87	100.87	0.0	0.0	3.31E-06
13.66	1.15	1.19	57.51	61.8	2.12	80.29	100.63	100.63	0.0	0.0	3.21E-06
13.67	1.14	1.18	57.09	61.36	2.12	79.9	100.14	100.14	0.0	0.0	3.18E-06
13.68	1.15	1.19	56.9	61.15	2.12	79.87	100.1	100.1	0.0	0.0	3.14E-06
13.69	1.15	1.19	56.49	60.69	2.13	79.78	99.99	99.99	0.0	0.0	3.04E-06
13.7	1.15	1.19	56.45	60.66	2.13	79.75	99.95	99.95	0.0	0.0	3.05E-06
13.71	1.15	1.19	56.41	60.63	2.13	79.63	99.81	99.81	0.0	0.0	3.07E-06
13.72	1.14	1.17	56.59	60.86	2.12	79.55	99.71	99.71	0.0	0.0	3.16E-06
13.73	1.13	1.17	56.78	61.08	2.12	79.63	99.81	99.81	0.0	0.0	3.21E-06
13.74	1.12	1.16	56.89	61.23	2.12	79.53	99.68	99.68	0.0	0.0	3.28E-06
13.75	1.12	1.16	57.0	61.36	2.12	79.68	99.87	99.87	0.0	0.0	3.30E-06
13.76	1.11	1.15	57.4	61.85	2.11	79.73	99.93	99.93	0.0	0.0	3.43E-06
13.77	1.1	1.14	57.44	61.91	2.11	79.65	99.83	99.83	0.0	0.0	3.47E-06
13.78	1.08	1.12	57.92	62.67	2.1	79.43	99.55	99.55	0.0	0.0	3.71E-06
13.79	1.07	1.11	58.1	62.9	2.1	79.35	99.46	99.46	0.0	0.0	3.81E-06
13.8	1.06	1.1	58.51	63.39	2.09	79.44	99.56	99.56	0.0	0.0	3.95E-06
13.81	1.04	1.08	58.69	63.64	2.08	79.11	99.15	99.15	0.0	0.0	4.13E-06
13.82	1.04	1.07	58.73	63.7	2.08	79.11	99.15	99.15	0.0	0.0	4.16E-06
13.83	1.04	1.07	58.69	63.66	2.08	79.15	99.2	99.2	0.0	0.0	4.15E-06
13.84	1.04	1.07	58.79	63.79	2.08	79.26	99.34	99.34	0.0	0.0	4.17E-06
13.85	1.03	1.06	59.5	64.62	2.08	79.54	99.69	99.69	0.0	0.0	4.38E-06
13.86	1.01	1.05	59.75	64.95	2.07	79.33	99.42	99.42	0.0	0.0	4.57E-06
13.87	1.02	1.05	59.71	64.9	2.07	79.5	99.64	99.64	0.0	0.0	4.52E-06
13.88	1.03	1.07	59.3	64.42	2.08	79.64	99.82	99.82	0.0	0.0	4.32E-06
13.89	1.04	1.07	59.33	64.46	2.08	79.88	100.12	100.12	0.0	0.0	4.28E-06
13.9	1.04	1.07	59.29	64.43	2.08	79.9	100.14	100.14	0.0	0.0	4.27E-06
13.91	1.04	1.07	59.25	64.39	2.08	79.92	100.16	100.16	0.0	0.0	4.27E-06

13.92	0.84	0.86	62.53	68.55	2.0	76.48	95.86	95.86	0.0	0.0	7.36E-06
13.93	0.84	0.87	63.0	69.1	2.0	76.95	96.44	96.44	0.0	0.0	7.45E-06
13.94	0.86	0.89	63.26	69.36	2.0	77.72	97.41	97.41	0.0	0.0	7.23E-06
13.95	0.87	0.9	63.21	69.3	2.01	78.09	97.87	97.87	0.0	0.0	7.04E-06
13.96	0.9	0.93	62.95	68.94	2.02	78.91	98.9	98.9	0.0	0.0	6.52E-06
13.97	0.92	0.95	62.9	68.86	2.02	79.39	99.5	99.5	0.0	0.0	6.30E-06
13.98	0.94	0.97	63.01	68.95	2.03	80.16	100.47	100.47	0.0	0.0	6.05E-06
13.99	0.95	0.98	63.18	69.15	2.03	80.47	100.86	100.86	0.0	0.0	6.04E-06
14.0	0.96	0.98	63.73	69.77	2.03	81.12	101.68	101.68	0.0	0.0	6.08E-06
14.01	0.97	1.0	64.35	70.46	2.03	81.98	102.75	102.75	0.0	0.0	6.08E-06
14.02	0.97	1.0	64.6	70.75	2.03	82.33	103.19	103.19	0.0	0.0	6.09E-06
14.03	1.0	1.03	64.77	70.91	2.04	83.3	104.4	104.4	0.0	0.0	5.81E-06
14.04	1.03	1.06	64.88	70.97	2.04	84.25	105.59	105.59	0.0	0.0	5.53E-06
14.05	1.03	1.07	64.91	71.01	2.04	84.45	105.84	105.84	0.0	0.0	5.49E-06
14.06	1.05	1.08	64.86	70.94	2.05	84.89	106.4	106.4	0.0	0.0	5.33E-06
14.07	1.06	1.09	65.04	71.14	2.05	85.35	106.97	106.97	0.0	0.0	5.27E-06
14.08	1.06	1.09	65.06	71.19	2.05	85.36	106.99	106.99	0.0	0.0	5.30E-06
14.09	1.07	1.1	65.24	71.38	2.05	85.79	107.52	107.52	0.0	0.0	5.26E-06
14.1	1.07	1.1	65.27	71.42	2.05	85.88	107.64	107.64	0.0	0.0	5.25E-06
14.11	1.06	1.09	65.59	71.82	2.05	85.91	107.67	107.67	0.0	0.0	5.41E-06
14.12	1.05	1.08	65.91	72.22	2.04	85.92	107.69	107.69	0.0	0.0	5.57E-06
14.13	1.05	1.08	65.86	72.19	2.04	85.85	107.6	107.6	0.0	0.0	5.60E-06
14.14	1.05	1.08	65.67	71.97	2.04	85.95	107.73	107.73	0.0	0.0	5.49E-06
14.15	1.09	1.13	65.12	71.26	2.06	86.81	108.81	108.81	0.0	0.0	4.98E-06
14.16	1.1	1.13	64.93	71.05	2.06	86.91	108.93	108.93	0.0	0.0	4.89E-06
14.17	1.1	1.14	64.81	70.92	2.06	86.91	108.93	108.93	0.0	0.0	4.86E-06
14.18	1.09	1.13	64.98	71.16	2.06	86.81	108.8	108.8	0.0	0.0	4.98E-06
14.19	1.08	1.11	65.23	71.48	2.05	86.72	108.69	108.69	0.0	0.0	5.13E-06
14.2	1.08	1.11	65.48	71.78	2.05	86.79	108.77	108.77	0.0	0.0	5.24E-06
14.21	1.07	1.11	65.58	71.92	2.05	86.85	108.85	108.85	0.0	0.0	5.28E-06
14.22	1.08	1.11	65.31	71.61	2.05	86.97	109.0	109.0	0.0	0.0	5.15E-06
14.23	1.09	1.12	65.27	71.56	2.05	87.1	109.16	109.16	0.0	0.0	5.10E-06
14.24	1.1	1.13	65.3	71.59	2.06	87.41	109.56	109.56	0.0	0.0	5.03E-06
14.25	1.1	1.13	65.25	71.55	2.06	87.49	109.65	109.65	0.0	0.0	5.01E-06
14.26	1.14	1.17	64.48	70.6	2.07	88.17	110.5	110.5	0.0	0.0	4.51E-06
14.27	1.13	1.17	64.8	70.98	2.07	88.32	110.69	110.69	0.0	0.0	4.61E-06
14.28	1.13	1.16	65.41	71.7	2.06	88.64	111.09	111.09	0.0	0.0	4.77E-06
14.29	1.1	1.13	66.23	72.73	2.05	88.41	110.81	110.81	0.0	0.0	5.21E-06
14.3	1.09	1.12	66.62	73.21	2.05	88.45	110.86	110.86	0.0	0.0	5.39E-06
14.31	1.08	1.11	66.94	73.59	2.04	88.6	111.05	111.05	0.0	0.0	5.50E-06
14.32	1.09	1.12	66.89	73.54	2.05	88.82	111.32	111.32	0.0	0.0	5.42E-06
14.33	1.1	1.13	66.85	73.49	2.05	89.05	111.61	111.61	0.0	0.0	5.34E-06
14.34	1.1	1.13	66.87	73.52	2.05	89.25	111.86	111.86	0.0	0.0	5.31E-06
14.35	1.11	1.14	66.9	73.56	2.05	89.42	112.08	112.08	0.0	0.0	5.28E-06
14.36	1.1	1.13	67.29	74.02	2.05	89.69	112.41	112.41	0.0	0.0	5.38E-06
14.37	1.1	1.13	67.6	74.41	2.04	89.79	112.54	112.54	0.0	0.0	5.51E-06
14.38	1.09	1.12	68.35	75.3	2.04	90.08	112.89	112.89	0.0	0.0	5.77E-06
14.39	1.08	1.11	68.51	75.53	2.03	90.07	112.89	112.89	0.0	0.0	5.88E-06
14.4	1.08	1.11	68.68	75.75	2.03	90.1	112.93	112.93	0.0	0.0	5.97E-06
14.41	1.07	1.1	68.71	75.8	2.03	90.03	112.84	112.84	0.0	0.0	6.03E-06
14.42	1.07	1.1	68.73	75.85	2.03	90.04	112.85	112.85	0.0	0.0	6.06E-06
14.43	1.08	1.11	68.54	75.63	2.03	90.2	113.05	113.05	0.0	0.0	5.93E-06
14.44	1.08	1.12	68.57	75.66	2.03	90.49	113.41	113.41	0.0	0.0	5.86E-06
14.45	1.1	1.13	68.81	75.92	2.04	91.03	114.1	114.1	0.0	0.0	5.80E-06
14.46	1.1	1.13	68.91	76.04	2.04	91.2	114.3	114.3	0.0	0.0	5.81E-06
14.47	1.09	1.12	69.29	76.51	2.03	91.42	114.58	114.58	0.0	0.0	5.93E-06
14.48	1.09	1.13	69.24	76.46	2.03	91.48	114.66	114.66	0.0	0.0	5.91E-06
14.49	1.1	1.13	69.05	76.25	2.04	91.56	114.75	114.75	0.0	0.0	5.81E-06
14.5	1.11	1.14	68.65	75.78	2.04	91.61	114.82	114.82	0.0	0.0	5.63E-06
14.51	1.12	1.15	68.39	75.47	2.04	91.78	115.03	115.03	0.0	0.0	5.48E-06
14.52	1.13	1.16	68.27	75.32	2.05	92.05	115.38	115.38	0.0	0.0	5.36E-06
14.53	1.13	1.16	68.44	75.53	2.05	92.21	115.57	115.57	0.0	0.0	5.40E-06
14.54	1.13	1.16	68.54	75.66	2.04	92.24	115.61	115.61	0.0	0.0	5.45E-06
14.55	1.12	1.15	69.06	76.3	2.04	92.37	115.77	115.77	0.0	0.0	5.66E-06
14.56	1.11	1.14	69.51	76.85	2.04	92.66	116.13	116.13	0.0	0.0	5.79E-06
14.57	1.09	1.12	70.74	78.34	2.02	92.95	116.5	116.5	0.0	0.0	6.29E-06
14.58	1.08	1.11	71.62	79.4	2.02	93.22	116.84	116.84	0.0	0.0	6.65E-06
14.59	1.05	1.08	72.99	81.07	2.0	93.47	117.15	117.15	0.0	0.0	7.30E-06
14.6	1.03	1.05	74.71	83.17	1.99	93.84	117.61	117.61	0.0	0.0	8.16E-06
14.61	1.01	1.04	75.58	84.24	1.98	93.95	117.76	117.76	0.0	0.0	8.67E-06
14.62	0.98	1.0	77.15	86.2	1.96	93.96	117.76	117.76	0.0	0.0	9.75E-06
14.63	0.97	1.0	77.81	87.01	1.96	94.19	118.06	118.06	0.0	0.0	1.01E-05
14.64	0.96	0.98	78.61	88.01	1.95	94.21	118.08	118.08	0.0	0.0	1.07E-05

14.65	0.95	0.97	78.91	88.41	1.94	94.15	118.01	118.01	0.0	0.0	1.10E-05
14.66	0.95	0.97	78.78	88.29	1.94	94.11	117.95	117.95	0.0	0.0	1.10E-05
14.67	0.96	0.98	78.24	87.64	1.95	94.12	117.96	117.96	0.0	0.0	1.06E-05
14.68	0.98	1.01	77.41	86.6	1.96	94.55	118.5	118.5	0.0	0.0	9.80E-06
14.69	1.0	1.03	76.8	85.83	1.97	94.9	118.94	118.94	0.0	0.0	9.22E-06
14.7	1.05	1.08	74.99	83.59	1.99	95.36	119.52	119.52	0.0	0.0	7.90E-06
14.71	1.08	1.11	74.16	82.56	2.0	95.76	120.02	120.02	0.0	0.0	7.29E-06
14.72	1.12	1.15	72.71	80.77	2.02	96.07	120.4	120.4	0.0	0.0	6.44E-06
14.73	1.14	1.17	72.03	79.95	2.03	96.15	120.51	120.51	0.0	0.0	6.10E-06
14.74	1.18	1.21	70.44	78.02	2.05	96.22	120.6	120.6	0.0	0.0	5.39E-06
14.75	1.2	1.24	69.69	77.11	2.06	96.48	120.93	120.93	0.0	0.0	5.03E-06
14.76	1.25	1.28	68.1	75.18	2.07	96.61	121.09	121.09	0.0	0.0	4.41E-06
14.77	1.26	1.3	67.5	74.47	2.08	96.53	120.99	120.99	0.0	0.0	4.23E-06
14.78	1.28	1.32	66.54	73.33	2.09	96.4	120.82	120.82	0.0	0.0	3.95E-06
14.79	1.28	1.32	66.22	72.96	2.09	96.3	120.7	120.7	0.0	0.0	3.88E-06
14.8	1.27	1.31	66.03	72.78	2.09	95.96	120.27	120.27	0.0	0.0	3.91E-06
14.81	1.25	1.29	66.06	72.89	2.09	95.3	119.45	119.45	0.0	0.0	4.09E-06
14.82	1.24	1.28	65.95	72.78	2.09	95.13	119.22	119.22	0.0	0.0	4.11E-06
14.83	1.22	1.25	66.11	73.04	2.08	94.55	118.5	118.5	0.0	0.0	4.32E-06
14.84	1.2	1.24	66.14	73.12	2.07	94.19	118.05	118.05	0.0	0.0	4.44E-06
14.85	1.17	1.2	66.24	73.33	2.06	93.3	116.94	116.94	0.0	0.0	4.73E-06
14.86	1.15	1.19	65.57	72.6	2.07	92.46	115.88	115.88	0.0	0.0	4.72E-06
14.87	1.16	1.19	65.04	71.98	2.07	92.26	115.63	115.63	0.0	0.0	4.58E-06
14.88	1.18	1.21	63.88	70.61	2.08	91.96	115.26	115.26	0.0	0.0	4.24E-06
14.89	1.18	1.22	63.21	69.84	2.09	91.65	114.86	114.86	0.0	0.0	4.09E-06
14.9	1.18	1.22	63.17	69.8	2.09	91.66	114.89	114.89	0.0	0.0	4.09E-06
14.91	1.18	1.22	63.13	69.76	2.09	91.68	114.91	114.91	0.0	0.0	4.08E-06
14.92	0.99	1.02	56.28	62.27	2.08	80.97	101.48	101.48	0.0	0.0	4.32E-06
14.93	1.02	1.05	55.13	60.88	2.09	80.96	101.47	101.47	0.0	0.0	3.87E-06
14.94	1.07	1.11	52.74	58.01	2.12	80.56	100.96	100.96	0.0	0.0	3.12E-06
14.95	1.09	1.13	51.53	56.58	2.14	80.17	100.48	100.48	0.0	0.0	2.83E-06
14.96	1.16	1.2	48.38	52.85	2.18	79.19	99.25	99.25	0.0	0.0	2.15E-06
14.97	1.2	1.25	46.35	50.45	2.2	78.55	93.87	98.45	0.0	0.0	1.78E-06
14.98	1.32	1.38	41.48	44.59	2.27	76.7	84.06	96.14	0.0	0.0	1.10E-06
14.99	1.58	1.67	34.62	36.65	2.39	74.34	70.2	93.18	0.0	0.0	4.83E-07
15.0	1.73	1.84	31.76	33.39	2.45	73.38	64.45	91.97	0.0	0.0	3.24E-07
15.01	2.16	2.33	25.68	26.49	2.59	71.06	52.13	89.06	8.47	0.61	1.20E-07
15.02	2.41	2.61	23.25	23.78	2.66	0.0	47.22	87.93	7.67	0.56	7.44E-08
15.03	3.09	3.42	18.27	18.3	2.82	0.0	37.14	84.87	6.03	0.45	2.40E-08
15.04	3.43	3.84	16.47	16.35	2.89	0.0	33.5	83.56	5.44	0.41	1.48E-08
15.05	4.12	4.71	13.57	13.25	3.02	0.0	26.14	80.93	4.48	0.34	6.07E-09
15.06	4.76	5.55	11.71	11.28	3.11	0.0	19.22	79.2	3.87	0.3	3.04E-09
15.07	5.02	5.92	10.95	10.49	3.16	0.0	16.72	78.15	3.61	0.28	2.26E-09
15.08	5.51	6.59	9.86	9.36	3.23	0.0	13.43	76.73	3.25	0.26	1.40E-09
15.09	5.78	6.97	9.46	8.94	3.26	0.0	12.31	76.55	3.12	0.25	1.13E-09
15.1	6.88	8.55	8.03	7.47	3.37	0.0	8.74	75.33	2.65	0.21	7.24E-10
15.11	7.44	9.41	7.34	6.75	3.43	0.0	7.22	74.41	2.42	0.2	5.98E-10
15.12	8.08	10.46	6.6	6.01	3.5	0.0	5.79	72.97	2.18	0.18	4.82E-10
15.13	7.87	10.21	6.56	5.98	3.5	0.0	5.73	72.14	2.17	0.18	4.90E-10
15.14	6.05	7.55	7.84	7.32	3.35	0.0	8.39	71.27	2.59	0.21	7.89E-10
15.15	4.93	6.03	8.74	8.28	3.24	0.0	10.57	69.83	2.89	1.0	1.24E-09
15.16	4.41	5.34	9.25	8.82	3.19	0.0	11.93	69.02	3.05	0.72	1.82E-09
15.17	3.9	4.77	8.8	8.41	3.18	0.0	10.83	64.64	2.91	0.98	1.99E-09
15.18	3.8	4.77	7.68	7.28	3.23	0.0	8.18	60.11	2.53	0.14	1.40E-09
15.19	3.64	4.65	7.05	6.66	3.25	0.0	6.88	56.98	2.33	0.1	1.18E-09
15.2	3.43	4.6	5.7	5.33	3.33	0.0	4.45	50.8	1.88	0.85	8.35E-10
15.21	3.43	4.66	5.45	5.08	3.35	0.0	4.06	49.86	1.8	0.62	7.83E-10
15.22	2.88	3.86	5.72	5.39	3.28	0.0	4.52	48.16	1.89	0.39	9.66E-10
15.23	2.43	3.26	5.75	5.44	3.24	0.0	4.59	45.79	1.9	0.85	1.29E-09
15.24	1.8	2.4	5.78	5.53	3.16	0.0	4.69	41.92	1.91	1.09	2.18E-09
15.25	1.42	1.87	6.12	5.91	3.08	0.0	5.32	40.16	2.02	1.02	3.80E-09
15.26	1.12	1.43	7.13	7.0	2.96	0.0	7.34	40.23	2.35	0.86	8.77E-09
15.27	1.05	1.33	7.11	7.0	2.95	0.0	7.32	39.46	2.35	0.85	9.66E-09
15.28	0.87	1.06	8.65	8.66	2.82	0.0	11.02	40.86	2.85	0.84	2.35E-08
15.29	0.67	0.78	12.36	12.72	2.61	0.0	23.14	44.85	0.0	0.0	1.01E-07
15.3	0.33	0.36	23.78	26.02	2.2	40.58	50.86	50.86	0.0	0.0	1.89E-06
15.31	0.26	0.28	31.22	34.94	2.04	43.64	54.7	54.7	0.0	0.0	5.72E-06
15.32	0.2	0.21	45.41	52.34	1.83	48.98	61.39	61.39	0.0	0.0	2.41E-05
15.33	0.17	0.18	49.04	56.98	1.78	49.37	61.88	61.88	0.0	0.0	3.53E-05
15.34	0.2	0.2	52.35	60.93	1.77	52.01	65.19	65.19	0.0	0.0	3.81E-05
15.35	0.25	0.26	54.34	63.07	1.79	55.56	69.64	69.64	0.0	0.0	3.27E-05
15.36	0.28	0.29	55.05	63.78	1.8	57.22	71.72	71.72	0.0	0.0	2.99E-05
15.37	0.34	0.35	56.09	64.78	1.83	60.19	75.44	75.44	0.0	0.0	2.52E-05

15.38	0.37	0.38	56.05	64.57	1.84	61.61	77.22	77.22	0.0	0.0	2.21E-05
15.39	0.48	0.49	55.6	63.56	1.9	65.67	82.31	82.31	0.0	0.0	1.49E-05
15.4	0.57	0.59	54.82	62.27	1.95	68.63	86.02	86.02	0.0	0.0	1.09E-05
15.41	0.61	0.64	54.18	61.34	1.97	69.88	87.58	87.58	0.0	0.0	9.24E-06
15.42	0.66	0.68	53.53	60.44	1.99	70.93	88.9	88.9	0.0	0.0	7.99E-06
15.43	0.71	0.74	52.76	59.36	2.01	72.19	90.48	90.48	0.0	0.0	6.71E-06
15.44	0.82	0.85	50.84	56.79	2.07	74.22	93.02	93.02	0.0	0.0	4.71E-06
15.45	0.93	0.96	48.51	53.81	2.12	75.49	94.61	94.61	0.0	0.0	3.32E-06
15.46	0.98	1.02	47.0	51.95	2.14	75.57	94.71	94.71	0.0	0.0	2.78E-06
15.47	1.07	1.12	43.34	47.52	2.2	74.85	93.81	93.81	0.0	0.0	1.88E-06
15.48	1.14	1.19	40.96	44.67	2.23	74.21	85.46	93.01	0.0	0.0	1.45E-06
15.49	1.35	1.42	35.57	38.09	2.34	73.28	74.24	91.85	0.0	0.0	7.13E-07
15.5	1.51	1.6	32.59	34.6	2.4	72.82	68.08	91.26	0.0	0.0	4.57E-07
15.51	1.9	2.04	26.6	27.69	2.54	71.09	55.6	89.09	8.78	0.63	1.71E-07
15.52	2.17	2.35	23.64	24.33	2.62	0.0	49.44	87.95	7.8	0.57	9.57E-08
15.53	2.85	3.15	18.47	18.55	2.79	0.0	38.65	85.34	6.1	0.45	2.90E-08
15.54	3.26	3.65	16.39	16.27	2.88	0.0	34.3	84.26	5.41	0.41	1.61E-08
15.55	4.17	4.79	13.1	12.72	3.03	0.0	24.92	82.26	4.32	0.33	5.34E-09
15.56	5.25	6.22	10.62	10.09	3.18	0.0	16.04	80.61	3.5	0.27	1.88E-09
15.57	5.75	6.91	9.75	9.18	3.24	0.0	13.4	79.94	3.22	0.25	1.23E-09
15.58	6.43	7.9	8.54	7.95	3.33	0.0	10.18	78.11	2.82	0.22	8.29E-10
15.59	6.56	8.1	8.28	7.69	3.35	0.0	9.54	77.53	2.73	0.22	7.82E-10
15.6	7.68	9.83	6.99	6.35	3.47	0.0	6.66	75.97	2.31	0.19	5.40E-10
15.61	8.28	10.78	6.47	5.83	3.52	0.0	5.66	75.37	2.14	0.17	4.55E-10
15.62	8.61	11.51	5.8	5.18	3.58	0.0	4.51	72.7	1.91	1.05	3.79E-10
15.63	8.6	11.6	5.6	4.99	3.59	0.0	4.2	71.54	1.85	0.99	3.62E-10
15.64	7.4	9.8	6.01	5.42	3.52	0.0	4.89	70.0	1.98	1.01	4.57E-10
15.65	6.24	8.2	6.24	5.68	3.45	0.0	5.33	67.02	2.06	1.02	5.60E-10
15.66	5.97	7.95	5.9	5.36	3.47	0.0	4.75	64.31	1.95	1.07	5.40E-10
15.67	5.14	6.89	5.73	5.22	3.44	0.0	4.51	60.26	1.89	0.93	5.91E-10
15.68	4.63	6.24	5.62	5.13	3.42	0.0	4.34	57.64	1.85	0.29	6.29E-10
15.69	3.92	5.38	5.23	4.79	3.4	0.0	3.78	52.86	1.73	0.28	6.55E-10
15.7	3.72	5.21	4.91	4.49	3.42	0.0	3.33	50.61	1.62	0.33	6.25E-10
15.71	3.11	4.43	4.61	4.23	3.4	0.0	2.94	46.51	1.52	0.07	6.60E-10
15.72	2.77	3.96	4.56	4.2	3.38	0.0	2.89	44.69	1.51	0.0	7.11E-10
15.73	2.2	3.13	4.65	4.33	3.31	0.0	3.04	41.89	1.53	0.33	8.76E-10
15.74	1.87	2.66	4.65	4.36	3.27	0.0	3.06	39.95	1.53	0.43	9.87E-10
15.75	1.31	1.88	4.5	4.25	3.21	0.0	2.89	35.66	1.48	0.36	1.56E-09
15.76	1.2	1.74	4.37	4.13	3.21	0.0	2.73	34.46	1.44	0.38	1.61E-09
15.77	1.22	1.77	4.36	4.12	3.21	0.0	2.72	34.62	1.44	0.12	1.56E-09
15.78	1.25	1.81	4.36	4.12	3.22	0.0	2.72	34.87	1.44	0.18	1.51E-09
15.79	1.12	1.59	4.57	4.35	3.17	0.0	3.01	34.48	1.51	0.59	2.08E-09
15.8	1.08	1.54	4.64	4.42	3.16	0.0	3.11	34.42	1.53	0.79	2.29E-09
15.81	0.99	1.38	4.9	4.7	3.11	0.0	3.5	34.4	1.62	1.02	3.13E-09
15.82	0.92	1.28	5.01	4.82	3.09	0.0	3.67	34.13	1.65	0.9	3.69E-09
15.83	0.82	1.09	5.74	5.59	3.0	0.0	4.87	34.99	1.89	1.09	6.81E-09
15.84	0.57	0.74	6.88	6.85	2.85	0.0	7.17	34.72	2.27	0.9	1.95E-08
15.85	0.57	0.72	7.97	8.01	2.78	0.0	9.71	36.94	2.63	0.76	3.12E-08
15.86	0.5	0.59	10.7	11.01	2.62	0.0	17.92	40.53	0.0	0.0	9.55E-08
15.87	0.48	0.56	12.33	12.82	2.55	34.11	24.06	42.75	0.0	0.0	1.56E-07
15.88	0.38	0.43	16.04	17.08	2.39	36.39	34.2	45.61	0.0	0.0	4.71E-07
15.89	0.33	0.36	17.91	19.36	2.32	36.86	38.2	46.2	0.0	0.0	8.08E-07
15.9	0.33	0.36	17.9	19.35	2.32	36.87	38.2	46.21	0.0	0.0	8.06E-07
15.91	0.33	0.36	17.89	19.34	2.32	36.88	38.19	46.22	0.0	0.0	8.05E-07
15.92	0.97	1.18	9.32	9.33	2.81	0.0	13.26	45.15	3.08	0.24	2.50E-08
15.93	1.69	2.13	7.61	7.38	3.03	0.0	8.57	48.34	2.51	0.2	5.60E-09
15.94	2.33	3.0	6.81	6.49	3.15	0.0	6.75	50.84	2.25	0.18	2.31E-09
15.95	3.78	5.12	5.51	5.05	3.37	0.0	4.25	54.25	1.82	0.15	7.23E-10
15.96	3.87	5.31	5.27	4.82	3.4	0.0	3.88	53.71	1.74	0.14	6.66E-10
15.97	3.77	5.13	5.43	4.97	3.38	0.0	4.13	53.93	1.79	0.15	7.09E-10
15.98	2.89	3.66	7.29	6.91	3.18	0.0	7.7	56.2	2.4	0.66	1.95E-09
15.99	2.48	3.05	8.5	8.18	3.07	0.0	10.65	57.38	2.8	0.84	4.07E-09
16.0	1.81	2.11	11.81	11.75	2.85	0.0	21.26	60.46	3.9	0.74	1.89E-08
16.01	1.59	1.82	13.19	13.27	2.78	0.0	26.83	61.11	4.35	1.09	3.28E-08
16.02	1.38	1.57	13.75	13.95	2.72	0.0	29.42	59.71	4.54	0.35	4.71E-08
16.03	1.39	1.61	12.42	12.52	2.77	0.0	23.87	57.17	4.1	0.32	3.43E-08
16.04	1.48	1.74	11.33	11.32	2.82	0.0	19.69	55.91	3.74	0.29	2.34E-08
16.05	1.31	1.53	11.49	11.54	2.79	0.0	20.37	54.2	3.79	0.59	3.01E-08
16.06	1.04	1.19	14.06	14.43	2.65	0.0	30.27	55.66	4.64	0.57	7.97E-08
16.07	0.67	0.73	22.92	24.72	2.34	49.18	49.36	61.64	0.0	0.0	6.77E-07
16.08	0.46	0.49	35.2	39.57	2.08	54.33	68.1	68.1	0.0	0.0	4.19E-06
16.09	0.38	0.4	38.27	43.53	2.01	53.89	67.54	67.54	0.0	0.0	6.99E-06
16.1	0.34	0.36	38.39	43.82	1.99	52.63	65.96	65.96	0.0	0.0	8.13E-06

16.11	0.39	0.41	37.19	42.22	2.02	53.28	66.78	66.78	0.0	0.0	6.39E-06
16.12	0.42	0.45	34.44	38.79	2.07	52.68	66.02	66.02	0.0	0.0	4.46E-06
16.13	0.46	0.48	34.28	38.52	2.09	53.64	67.23	67.23	0.0	0.0	3.96E-06
16.14	0.57	0.6	37.57	42.17	2.1	59.25	74.27	74.27	0.0	0.0	3.79E-06
16.15	0.59	0.62	40.14	45.19	2.08	61.97	77.67	77.67	0.0	0.0	4.28E-06
16.16	0.61	0.63	44.39	50.27	2.04	65.48	82.07	82.07	0.0	0.0	5.53E-06
16.17	0.64	0.67	46.3	52.49	2.04	67.95	85.16	85.16	0.0	0.0	5.71E-06
16.18	0.63	0.65	51.12	58.38	1.99	70.97	88.95	88.95	0.0	0.0	7.79E-06
16.19	0.61	0.64	53.35	61.16	1.97	71.96	90.19	90.19	0.0	0.0	9.16E-06
16.2	0.58	0.6	56.54	65.22	1.93	72.75	91.18	91.18	0.0	0.0	1.19E-05
16.21	0.58	0.6	57.15	65.98	1.93	73.17	91.7	91.7	0.0	0.0	1.23E-05
16.22	0.57	0.59	58.14	67.24	1.92	73.67	92.34	92.34	0.0	0.0	1.31E-05
16.23	0.62	0.64	59.07	68.21	1.93	75.93	95.17	95.17	0.0	0.0	1.21E-05
16.24	0.6	0.62	59.87	69.29	1.92	75.73	94.92	94.92	0.0	0.0	1.33E-05
16.25	0.64	0.66	62.41	72.22	1.92	79.19	99.25	99.25	0.0	0.0	1.31E-05
16.26	0.64	0.66	63.59	73.7	1.91	79.87	100.1	100.1	0.0	0.0	1.39E-05
16.27	0.61	0.63	65.41	76.1	1.89	79.96	100.21	100.21	0.0	0.0	1.62E-05
16.28	0.63	0.64	66.66	77.6	1.89	81.2	101.77	101.77	0.0	0.0	1.66E-05
16.29	0.64	0.66	67.13	78.12	1.89	82.18	103.0	103.0	0.0	0.0	1.62E-05
16.3	0.69	0.7	67.85	78.82	1.9	84.46	105.85	105.85	0.0	0.0	1.48E-05
16.31	0.7	0.72	67.94	78.86	1.91	85.25	106.85	106.85	0.0	0.0	1.42E-05
16.32	0.74	0.76	67.9	78.65	1.92	86.7	108.67	108.67	0.0	0.0	1.30E-05
16.33	0.74	0.76	67.66	78.38	1.92	86.59	108.53	108.53	0.0	0.0	1.28E-05
16.34	0.74	0.76	67.24	77.87	1.92	86.38	108.26	108.26	0.0	0.0	1.26E-05
16.35	0.8	0.83	67.01	77.31	1.95	88.8	111.29	111.29	0.0	0.0	1.07E-05
16.36	0.84	0.86	66.84	76.97	1.96	90.04	112.85	112.85	0.0	0.0	9.77E-06
16.37	0.88	0.9	66.86	76.86	1.97	91.44	114.61	114.61	0.0	0.0	9.01E-06
16.38	0.9	0.93	66.95	76.89	1.98	92.43	115.85	115.85	0.0	0.0	8.58E-06
16.39	0.94	0.97	67.04	76.85	1.99	93.96	117.77	117.77	0.0	0.0	7.92E-06
16.4	0.97	0.99	66.87	76.57	2.0	94.72	118.72	118.72	0.0	0.0	7.49E-06
16.41	1.01	1.04	66.7	76.22	2.01	96.2	120.57	120.57	0.0	0.0	6.81E-06
16.42	1.04	1.07	66.41	75.78	2.02	96.9	121.44	121.44	0.0	0.0	6.40E-06
16.43	1.1	1.13	66.05	75.17	2.04	98.63	123.62	123.62	0.0	0.0	5.65E-06
16.44	1.12	1.15	65.88	74.89	2.05	99.38	124.55	124.55	0.0	0.0	5.36E-06
16.45	1.16	1.19	65.46	74.28	2.06	100.25	125.65	125.65	0.0	0.0	4.95E-06
16.46	1.17	1.21	65.29	74.05	2.06	100.65	126.15	126.15	0.0	0.0	4.79E-06
16.47	1.2	1.24	65.0	73.61	2.07	101.45	127.15	127.15	0.0	0.0	4.49E-06
16.48	1.22	1.25	64.84	73.39	2.08	101.74	127.52	127.52	0.0	0.0	4.37E-06
16.49	1.23	1.27	64.42	72.84	2.08	101.97	127.8	127.8	0.0	0.0	4.17E-06
16.5	1.25	1.29	64.12	72.46	2.09	102.25	128.16	128.16	0.0	0.0	4.02E-06
16.51	1.27	1.31	63.2	71.29	2.1	102.29	128.2	128.2	0.0	0.0	3.72E-06
16.52	1.3	1.34	61.7	69.43	2.11	101.84	127.64	127.64	0.0	0.0	3.35E-06
16.53	1.33	1.37	60.46	67.9	2.13	101.53	127.25	127.25	0.0	0.0	3.05E-06
16.54	1.38	1.43	57.58	64.35	2.16	100.39	125.82	125.82	0.0	0.0	2.49E-06
16.55	1.42	1.47	55.96	62.36	2.17	99.85	125.14	125.14	0.0	0.0	2.20E-06
16.56	1.49	1.54	52.58	58.24	2.21	98.33	116.58	123.25	0.0	0.0	1.70E-06
16.57	1.53	1.59	49.08	54.05	2.25	95.91	108.87	120.21	0.0	0.0	1.34E-06
16.58	1.57	1.63	47.16	51.75	2.27	94.68	104.67	118.67	0.0	0.0	1.15E-06
16.59	1.69	1.77	42.65	46.34	2.33	92.32	94.72	115.71	0.0	0.0	7.64E-07
16.6	1.77	1.86	40.23	43.27	2.36	91.3	89.39	114.43	0.0	0.0	5.90E-07
16.61	2.01	2.13	34.66	36.73	2.45	88.43	77.06	110.84	0.0	0.0	3.10E-07
16.62	2.17	2.3	31.74	33.34	2.51	86.84	70.61	108.84	10.48	0.74	2.11E-07
16.63	2.63	2.83	25.56	26.26	2.65	0.0	56.88	104.24	8.43	0.61	8.12E-08
16.64	2.93	3.18	22.78	23.12	2.72	0.0	50.71	102.22	7.52	0.55	4.80E-08
16.65	3.5	3.86	19.05	18.97	2.84	0.0	42.45	99.56	6.29	0.47	2.08E-08
16.66	4.02	4.5	16.34	16.0	2.94	0.0	36.42	96.91	5.39	0.41	1.03E-08
16.67	4.25	4.79	15.39	14.97	2.98	0.0	34.32	95.98	5.08	0.38	7.85E-09
16.68	4.87	5.58	13.37	12.81	3.07	0.0	27.3	94.06	4.41	0.34	4.04E-09
16.69	5.19	6.0	12.55	11.94	3.12	0.0	23.88	93.33	4.14	0.32	2.98E-09
16.7	6.14	7.27	10.73	10.02	3.23	0.0	17.15	91.98	3.54	0.28	1.36E-09
16.71	6.22	7.35	10.8	10.08	3.23	0.0	17.37	92.75	3.56	0.28	1.35E-09
16.72	4.53	5.12	15.21	14.74	3.0	0.0	34.0	98.0	5.02	0.38	6.64E-09
16.73	3.62	4.0	18.64	18.49	2.86	0.0	41.68	100.12	6.15	0.46	1.82E-08
16.74	2.31	2.48	26.97	27.98	2.59	82.1	60.36	102.89	8.9	0.64	1.21E-07
16.75	1.87	1.99	30.82	32.56	2.48	81.53	69.01	102.18	0.0	0.0	2.64E-07
16.76	1.36	1.44	35.29	38.32	2.34	78.16	79.05	97.96	0.0	0.0	7.06E-07
16.77	1.22	1.29	35.92	39.26	2.3	75.92	80.51	95.16	0.0	0.0	9.17E-07
16.78	1.03	1.09	36.31	40.02	2.25	72.26	81.42	90.56	0.0	0.0	1.28E-06
16.79	0.89	0.93	35.6	39.45	2.22	68.15	79.88	85.41	0.0	0.0	1.60E-06
16.8	0.85	0.9	35.58	39.49	2.21	67.42	79.88	84.5	0.0	0.0	1.69E-06
16.81	0.79	0.83	36.56	40.81	2.18	66.62	83.5	83.5	0.0	0.0	2.11E-06
16.82	0.78	0.82	36.92	41.27	2.17	66.68	83.57	83.57	0.0	0.0	2.22E-06
16.83	0.76	0.8	37.65	42.17	2.16	67.02	84.0	84.0	0.0	0.0	2.41E-06

16.84	0.76	0.8	37.81	42.38	2.16	67.16	84.17	84.17	0.0	0.0	2.45E-06
16.85	0.74	0.78	38.29	43.0	2.15	67.12	84.12	84.12	0.0	0.0	2.65E-06
16.86	0.74	0.77	38.7	43.53	2.14	67.24	84.27	84.27	0.0	0.0	2.79E-06
16.87	0.76	0.8	38.8	43.6	2.15	67.96	85.18	85.18	0.0	0.0	2.67E-06
16.88	0.82	0.87	39.21	43.94	2.16	70.19	87.97	87.97	0.0	0.0	2.38E-06
16.89	0.83	0.87	39.31	44.05	2.16	70.47	88.33	88.33	0.0	0.0	2.37E-06
16.9	0.83	0.87	39.29	44.03	2.16	70.49	88.34	88.34	0.0	0.0	2.36E-06
16.91	0.83	0.87	39.26	44.0	2.16	70.5	88.36	88.36	0.0	0.0	2.36E-06
16.92	0.9	0.95	34.78	38.52	2.23	68.11	78.63	85.37	0.0	0.0	1.47E-06
16.93	0.94	0.99	33.52	36.96	2.26	67.92	75.83	85.12	0.0	0.0	1.22E-06
16.94	1.06	1.13	30.47	33.19	2.33	67.4	68.97	84.48	0.0	0.0	7.53E-07
16.95	1.14	1.22	28.73	31.05	2.37	67.13	65.05	84.14	0.0	0.0	5.57E-07
16.96	1.33	1.43	25.5	27.04	2.46	66.64	57.77	83.52	0.0	0.0	3.01E-07
16.97	1.58	1.71	22.65	23.65	2.55	66.61	51.34	83.49	7.47	0.55	1.57E-07
16.98	1.72	1.88	21.21	21.97	2.6	0.0	48.12	83.24	7.0	0.51	1.12E-07
16.99	2.13	2.36	18.18	18.45	2.72	0.0	41.25	82.97	6.0	0.45	4.85E-08
17.0	2.41	2.7	16.44	16.48	2.79	0.0	37.33	82.48	5.43	0.41	2.89E-08
17.01	3.33	3.82	13.17	12.81	2.97	0.0	27.37	82.82	4.35	0.33	8.30E-09
17.02	4.54	5.42	10.21	9.61	3.16	0.0	15.93	81.86	3.37	0.26	2.17E-09
17.03	5.14	6.25	9.16	8.51	3.24	0.0	12.66	81.31	3.02	0.24	1.24E-09
17.04	5.67	6.99	8.52	7.79	3.3	0.0	10.79	81.61	2.81	0.22	9.02E-10
17.05	4.71	5.56	10.92	10.31	3.15	0.0	18.29	85.8	3.6	0.28	2.45E-09
17.06	2.89	3.19	19.04	19.11	2.79	0.0	43.36	94.94	6.28	0.46	3.04E-08
17.07	2.2	2.37	24.55	25.39	2.61	0.0	55.93	97.95	8.1	0.59	1.04E-07
17.08	1.52	1.61	33.57	36.06	2.39	80.54	76.51	100.94	0.0	0.0	4.99E-07
17.09	1.34	1.42	34.85	37.94	2.34	78.51	79.48	98.39	0.0	0.0	7.10E-07
17.1	1.18	1.25	32.68	35.63	2.33	72.88	74.56	91.34	0.0	0.0	7.52E-07
17.11	1.19	1.27	29.94	32.44	2.36	70.01	68.36	87.74	0.0	0.0	5.81E-07
17.12	1.4	1.52	22.93	24.1	2.52	64.9	52.37	81.35	0.0	0.0	2.02E-07
17.13	1.58	1.74	19.6	20.27	2.61	0.0	44.79	78.47	6.47	0.48	1.04E-07
17.14	2.02	2.28	15.42	15.52	2.77	0.0	35.27	75.83	5.09	0.38	3.36E-08
17.15	2.17	2.47	14.13	14.08	2.83	0.0	32.32	74.5	4.66	0.35	2.29E-08
17.16	2.36	2.72	12.71	12.52	2.89	0.0	26.02	72.88	4.19	0.32	1.44E-08
17.17	2.48	2.88	12.09	11.85	2.93	0.0	23.43	72.41	3.99	0.31	1.14E-08
17.18	2.61	3.06	11.59	11.29	2.96	0.0	21.43	72.32	3.83	0.3	9.10E-09
17.19	3.32	3.94	10.55	10.1	3.06	0.0	17.45	75.15	3.48	0.27	4.39E-09
17.2	3.47	4.13	10.31	9.83	3.08	0.0	16.61	75.5	3.4	0.27	3.78E-09
17.21	3.38	4.05	9.95	9.48	3.09	0.0	15.46	73.61	3.28	0.26	3.58E-09
17.22	3.52	4.24	9.58	9.07	3.12	0.0	14.25	73.33	3.16	0.25	2.96E-09
17.23	3.87	4.77	8.53	7.97	3.19	0.0	11.15	71.86	2.81	0.22	1.75E-09
17.24	4.51	5.71	7.37	6.73	3.3	0.0	8.15	71.06	2.43	0.2	9.12E-10
17.25	4.78	6.13	6.95	6.3	3.34	0.0	7.19	70.67	2.29	0.19	7.99E-10
17.26	4.31	5.44	7.54	6.91	3.28	0.0	8.55	70.74	2.49	0.2	9.76E-10
17.27	3.95	4.89	8.22	7.66	3.21	0.0	10.34	71.26	2.71	0.22	1.51E-09
17.28	3.15	3.81	9.46	9.0	3.09	0.0	14.01	70.43	3.12	0.25	3.53E-09
17.29	2.83	3.42	9.4	8.98	3.07	0.0	13.88	67.69	3.1	0.24	4.23E-09
17.3	2.73	3.33	8.92	8.51	3.08	0.0	12.49	65.39	2.94	0.23	3.86E-09
17.31	2.86	3.59	7.72	7.26	3.16	0.0	9.23	62.21	2.55	0.2	2.29E-09
17.32	2.89	3.69	7.11	6.65	3.19	0.0	7.79	60.24	2.35	1.01	1.74E-09
17.33	2.56	3.36	6.24	5.77	3.22	0.0	5.94	54.82	2.06	0.97	1.43E-09
17.34	3.0	4.09	5.46	4.96	3.32	0.0	4.47	54.6	1.8	1.12	8.42E-10
17.35	3.63	5.06	5.01	4.48	3.41	0.0	3.7	56.1	1.65	1.21	6.36E-10
17.36	3.85	5.42	4.81	4.27	3.45	0.0	3.39	56.22	1.59	1.26	5.72E-10
17.37	3.69	5.26	4.63	4.1	3.45	0.0	3.13	54.57	1.53	0.23	5.60E-10
17.38	3.47	4.95	4.66	4.14	3.44	0.0	3.19	53.7	1.54	0.01	5.94E-10
17.39	2.87	4.02	4.92	4.44	3.36	0.0	3.61	51.64	1.62	0.53	7.51E-10
17.4	2.59	3.62	4.98	4.52	3.33	0.0	3.72	50.28	1.64	0.7	8.29E-10
17.41	2.36	3.35	4.74	4.3	3.33	0.0	3.37	47.9	1.56	0.53	8.27E-10
17.42	2.4	3.45	4.51	4.06	3.36	0.0	3.03	47.17	1.49	0.45	7.58E-10
17.43	1.94	2.76	4.65	4.24	3.29	0.0	3.27	44.81	1.53	0.99	9.32E-10
17.44	1.74	2.46	4.77	4.38	3.25	0.0	3.47	43.87	1.57	1.11	1.14E-09
17.45	1.64	2.29	5.01	4.64	3.22	0.0	3.86	44.03	1.65	1.18	1.48E-09
17.46	1.12	1.44	6.8	6.59	2.99	0.0	7.43	44.72	2.25	1.01	7.35E-09
17.47	0.86	1.06	8.47	8.42	2.83	0.0	11.83	45.72	2.79	0.04	2.18E-08
17.48	0.35	0.4	13.07	13.85	2.47	35.59	30.08	44.61	0.0	0.0	2.77E-07
17.49	0.28	0.31	16.06	17.53	2.34	36.98	37.36	46.34	0.0	0.0	7.03E-07
17.5	0.18	0.2	19.99	22.45	2.18	37.88	47.47	47.47	0.0	0.0	2.07E-06
17.51	0.15	0.16	20.47	23.14	2.15	37.22	46.64	46.64	0.0	0.0	2.61E-06
17.52	0.19	0.21	19.32	21.63	2.2	37.61	45.03	47.14	0.0	0.0	1.79E-06
17.53	0.32	0.36	17.21	18.82	2.33	39.2	40.13	49.14	0.0	0.0	7.54E-07
17.54	0.36	0.4	16.12	17.47	2.37	39.0	37.6	48.88	0.0	0.0	5.42E-07
17.55	0.47	0.53	14.55	15.43	2.47	39.8	33.96	49.89	0.0	0.0	2.76E-07
17.56	0.53	0.6	13.83	14.55	2.51	39.99	32.29	50.12	0.0	0.0	2.03E-07

17.57	0.8	0.93	12.53	12.89	2.64	0.0	26.94	53.39	4.13	0.32	8.33E-08
17.58	1.02	1.15	14.94	15.43	2.62	0.0	34.91	61.7	4.93	0.37	9.93E-08
17.59	1.01	1.13	17.15	17.92	2.56	52.36	40.11	65.62	0.0	0.0	1.52E-07
17.6	0.95	1.03	22.95	24.57	2.42	58.84	53.7	73.75	0.0	0.0	4.00E-07
17.61	0.92	0.99	26.6	28.99	2.35	62.4	62.26	78.21	0.0	0.0	6.55E-07
17.62	0.8	0.85	33.47	37.41	2.22	66.65	78.41	83.54	0.0	0.0	1.63E-06
17.63	0.72	0.76	35.57	40.14	2.17	66.48	83.32	83.32	0.0	0.0	2.32E-06
17.64	0.66	0.69	38.85	44.35	2.11	67.43	84.51	84.51	0.0	0.0	3.50E-06
17.65	0.64	0.67	40.2	46.05	2.09	68.14	85.4	85.4	0.0	0.0	4.00E-06
17.66	0.61	0.64	42.2	48.64	2.06	68.77	86.19	86.19	0.0	0.0	4.99E-06
17.67	0.59	0.62	43.3	50.1	2.04	68.88	86.32	86.32	0.0	0.0	5.72E-06
17.68	0.52	0.54	45.29	52.89	1.99	67.81	84.99	84.99	0.0	0.0	8.01E-06
17.69	0.5	0.52	46.21	54.17	1.97	67.64	84.77	84.77	0.0	0.0	9.11E-06
17.7	0.48	0.5	48.14	56.69	1.95	68.53	85.89	85.89	0.0	0.0	1.07E-05
17.71	0.47	0.49	49.31	58.27	1.93	68.66	86.05	86.05	0.0	0.0	1.21E-05
17.72	0.44	0.45	50.95	60.54	1.9	68.46	85.81	85.81	0.0	0.0	1.47E-05
17.73	0.43	0.45	51.81	61.7	1.89	68.79	86.22	86.22	0.0	0.0	1.58E-05
17.74	0.42	0.43	53.21	63.6	1.87	69.04	86.53	86.53	0.0	0.0	1.80E-05
17.75	0.4	0.41	55.25	66.4	1.85	69.33	86.9	86.9	0.0	0.0	2.17E-05
17.76	0.39	0.4	56.17	67.68	1.83	69.44	87.03	87.03	0.0	0.0	2.37E-05
17.77	0.41	0.42	58.22	70.21	1.83	71.66	89.81	89.81	0.0	0.0	2.43E-05
17.78	0.43	0.44	59.72	72.04	1.83	73.52	92.15	92.15	0.0	0.0	2.44E-05
17.79	0.45	0.47	60.34	72.68	1.84	75.15	94.19	94.19	0.0	0.0	2.29E-05
17.8	0.48	0.49	61.37	73.88	1.84	76.82	96.28	96.28	0.0	0.0	2.24E-05
17.81	0.49	0.51	61.81	74.35	1.85	77.94	97.68	97.68	0.0	0.0	2.16E-05
17.82	0.53	0.54	62.07	74.47	1.86	79.66	99.85	99.85	0.0	0.0	1.96E-05
17.83	0.54	0.56	62.32	74.74	1.87	80.43	100.81	100.81	0.0	0.0	1.91E-05
17.84	0.55	0.56	63.29	75.96	1.86	81.41	102.04	102.04	0.0	0.0	1.95E-05
17.85	0.56	0.58	63.61	76.31	1.87	82.18	103.0	103.0	0.0	0.0	1.91E-05
17.86	0.57	0.59	64.16	76.94	1.87	83.29	104.39	104.39	0.0	0.0	1.87E-05
17.87	0.61	0.63	64.48	77.15	1.88	85.02	106.56	106.56	0.0	0.0	1.72E-05
17.88	0.62	0.64	64.62	77.26	1.89	85.79	107.53	107.53	0.0	0.0	1.66E-05
17.89	0.65	0.67	64.52	76.95	1.9	87.23	109.33	109.33	0.0	0.0	1.51E-05
17.9	0.65	0.67	64.48	76.91	1.9	87.25	109.35	109.35	0.0	0.0	1.50E-05
17.91	0.65	0.67	64.44	76.88	1.9	87.26	109.37	109.37	0.0	0.0	1.50E-05
17.92	0.68	0.7	63.19	75.15	1.92	87.44	109.59	109.59	0.0	0.0	1.34E-05
17.93	0.7	0.72	62.62	74.33	1.93	87.92	110.2	110.2	0.0	0.0	1.24E-05
17.94	0.73	0.76	61.71	72.97	1.95	88.82	111.32	111.32	0.0	0.0	1.08E-05
17.95	0.76	0.79	60.97	71.9	1.96	89.45	112.12	112.12	0.0	0.0	9.76E-06
17.96	0.82	0.84	60.06	70.49	1.99	90.95	113.99	113.99	0.0	0.0	8.21E-06
17.97	0.86	0.88	59.67	69.84	2.0	92.17	115.52	115.52	0.0	0.0	7.39E-06
17.98	0.94	0.97	59.05	68.74	2.03	94.64	118.62	118.62	0.0	0.0	6.04E-06
17.99	0.97	1.01	58.79	68.27	2.04	95.76	120.02	120.02	0.0	0.0	5.54E-06
18.0	1.04	1.07	58.29	67.41	2.06	97.63	122.37	122.37	0.0	0.0	4.76E-06
18.01	1.07	1.1	58.02	66.99	2.07	98.3	123.2	123.2	0.0	0.0	4.48E-06
18.02	1.11	1.15	58.1	66.93	2.08	100.04	125.39	125.39	0.0	0.0	4.11E-06
18.03	1.15	1.18	58.19	66.94	2.09	101.17	126.8	126.8	0.0	0.0	3.91E-06
18.04	1.16	1.2	58.21	66.93	2.1	101.77	127.55	127.55	0.0	0.0	3.80E-06
18.05	1.16	1.2	58.0	66.68	2.1	101.52	127.24	127.24	0.0	0.0	3.79E-06
18.06	1.15	1.19	57.74	66.38	2.1	101.13	126.75	126.75	0.0	0.0	3.78E-06
18.07	1.16	1.2	57.01	65.48	2.1	100.68	126.18	126.18	0.0	0.0	3.63E-06
18.08	1.15	1.19	56.62	65.03	2.1	100.21	125.59	125.59	0.0	0.0	3.60E-06
18.09	1.15	1.19	55.31	63.41	2.11	99.06	124.16	124.16	0.0	0.0	3.38E-06
18.1	1.19	1.23	52.72	60.12	2.14	97.72	122.47	122.47	0.0	0.0	2.80E-06
18.11	1.22	1.27	51.06	58.0	2.16	97.18	121.8	121.8	0.0	0.0	2.43E-06
18.12	1.34	1.4	46.03	51.6	2.23	95.29	110.84	119.43	0.0	0.0	1.53E-06
18.13	1.44	1.5	43.15	47.96	2.27	94.52	103.98	118.46	0.0	0.0	1.12E-06
18.14	1.65	1.73	37.67	41.11	2.36	92.54	90.8	115.98	0.0	0.0	5.97E-07
18.15	1.78	1.88	34.68	37.27	2.42	91.44	83.65	114.61	0.0	0.0	4.05E-07
18.16	2.06	2.19	29.73	31.34	2.52	89.1	71.74	111.67	9.81	0.7	2.00E-07
18.17	2.21	2.37	27.74	28.98	2.56	88.34	66.97	110.72	9.15	0.66	1.44E-07
18.18	2.55	2.75	24.65	25.34	2.65	0.0	59.55	109.82	8.14	0.59	7.84E-08
18.19	2.71	2.93	23.54	24.03	2.69	0.0	56.88	109.66	7.77	0.57	6.14E-08
18.2	2.9	3.15	22.55	22.86	2.72	0.0	54.51	110.09	7.44	0.54	4.74E-08
18.21	2.88	3.12	23.23	23.61	2.71	0.0	56.18	111.53	7.66	0.56	5.22E-08
18.22	2.87	3.11	23.91	24.36	2.7	0.0	57.86	113.15	7.89	0.57	5.67E-08
18.23	2.63	2.81	28.42	29.46	2.61	0.0	68.81	119.9	9.38	0.67	1.07E-07
18.24	2.33	2.47	32.39	34.13	2.52	97.97	78.46	122.78	10.69	0.76	1.94E-07
18.25	1.81	1.9	39.78	43.39	2.37	99.07	96.41	124.16	0.0	0.0	5.71E-07
18.26	1.62	1.7	43.36	47.91	2.3	99.62	105.12	124.86	0.0	0.0	8.93E-07
18.27	1.3	1.35	50.14	56.77	2.18	99.16	124.28	124.28	0.0	0.0	2.05E-06
18.28	1.16	1.2	51.83	59.24	2.14	96.74	121.25	121.25	0.0	0.0	2.83E-06
18.29	0.99	1.03	53.57	61.93	2.08	93.24	116.86	116.86	0.0	0.0	4.18E-06

18.3	0.95	0.98	54.17	62.87	2.06	92.19	115.54	115.54	0.0	0.0	4.75E-06
18.31	0.86	0.89	54.43	63.54	2.04	89.31	111.94	111.94	0.0	0.0	5.82E-06
18.32	0.85	0.88	53.88	62.9	2.04	88.61	111.05	111.05	0.0	0.0	5.77E-06
18.33	0.86	0.89	53.63	62.52	2.04	88.98	111.52	111.52	0.0	0.0	5.51E-06
18.34	0.87	0.9	53.6	62.46	2.05	89.28	111.9	111.9	0.0	0.0	5.41E-06
18.35	0.91	0.95	53.51	62.2	2.06	90.72	113.7	113.7	0.0	0.0	4.92E-06
18.36	0.95	0.98	53.54	62.12	2.07	91.91	115.19	115.19	0.0	0.0	4.61E-06
18.37	0.99	1.03	53.4	61.79	2.08	93.27	116.89	116.89	0.0	0.0	4.20E-06
18.38	1.03	1.07	52.91	61.04	2.1	94.32	118.21	118.21	0.0	0.0	3.76E-06
18.39	1.05	1.09	52.54	60.53	2.11	94.59	118.56	118.56	0.0	0.0	3.57E-06
18.4	1.07	1.11	51.77	59.52	2.11	94.39	118.3	118.3	0.0	0.0	3.34E-06
18.41	1.06	1.1	51.22	58.86	2.12	93.85	117.63	117.63	0.0	0.0	3.26E-06
18.42	1.07	1.11	50.11	57.47	2.13	93.07	116.65	116.65	0.0	0.0	3.03E-06
18.43	1.12	1.16	49.16	56.16	2.15	93.66	117.39	117.39	0.0	0.0	2.64E-06
18.44	1.27	1.32	46.73	52.79	2.2	95.55	114.4	119.76	0.0	0.0	1.79E-06
18.45	1.42	1.48	44.25	49.45	2.25	96.63	108.37	121.11	0.0	0.0	1.25E-06
18.46	1.45	1.52	43.49	48.46	2.27	96.77	106.55	121.28	0.0	0.0	1.13E-06
18.47	1.5	1.56	42.95	47.74	2.28	97.17	105.29	121.79	0.0	0.0	1.03E-06
18.48	1.47	1.54	43.61	48.58	2.27	97.42	106.97	122.1	0.0	0.0	1.11E-06
18.49	1.37	1.43	46.39	52.15	2.23	98.17	113.84	123.04	0.0	0.0	1.50E-06
18.5	1.31	1.37	48.02	54.28	2.2	98.37	117.9	123.29	0.0	0.0	1.80E-06
18.51	1.21	1.25	50.45	57.55	2.16	97.87	122.67	122.67	0.0	0.0	2.45E-06
18.52	1.14	1.18	52.02	59.7	2.13	97.38	122.05	122.05	0.0	0.0	2.99E-06
18.53	1.1	1.15	52.62	60.55	2.12	96.99	121.56	121.56	0.0	0.0	3.26E-06
18.54	1.05	1.09	53.45	61.76	2.1	96.1	120.44	120.44	0.0	0.0	3.75E-06
18.55	1.03	1.07	53.93	62.46	2.09	95.81	120.08	120.08	0.0	0.0	4.02E-06
18.56	0.98	1.02	54.76	63.66	2.07	95.13	119.23	119.23	0.0	0.0	4.56E-06
18.57	0.96	1.0	55.01	64.07	2.06	94.69	118.68	118.68	0.0	0.0	4.82E-06
18.58	0.93	0.96	55.44	64.74	2.05	94.0	117.81	117.81	0.0	0.0	5.25E-06
18.59	0.92	0.95	55.7	65.14	2.04	93.7	117.43	117.43	0.0	0.0	5.50E-06
18.6	0.9	0.93	55.95	65.55	2.04	93.28	116.91	116.91	0.0	0.0	5.80E-06
18.61	0.89	0.92	55.98	65.62	2.03	93.09	116.67	116.67	0.0	0.0	5.90E-06
18.62	0.89	0.92	56.23	65.97	2.03	93.24	116.86	116.86	0.0	0.0	6.01E-06
18.63	0.89	0.92	56.49	66.28	2.03	93.67	117.4	117.4	0.0	0.0	6.02E-06
18.64	0.91	0.94	57.19	67.11	2.03	94.9	118.94	118.94	0.0	0.0	6.02E-06
18.65	0.92	0.96	57.61	67.58	2.03	95.93	120.24	120.24	0.0	0.0	5.92E-06
18.66	0.97	1.0	58.04	67.93	2.04	98.03	122.87	122.87	0.0	0.0	5.49E-06
18.67	0.99	1.02	58.01	67.83	2.05	98.72	123.73	123.73	0.0	0.0	5.28E-06
18.68	1.05	1.09	57.58	67.06	2.07	100.48	125.93	125.93	0.0	0.0	4.61E-06
18.69	1.08	1.12	56.93	66.14	2.08	100.94	126.51	126.51	0.0	0.0	4.23E-06
18.7	1.15	1.19	54.29	62.6	2.12	100.83	126.38	126.38	0.0	0.0	3.29E-06
18.71	1.21	1.25	52.29	59.94	2.14	100.64	126.14	126.14	0.0	0.0	2.71E-06
18.72	1.36	1.42	46.17	52.0	2.23	98.75	114.65	123.77	0.0	0.0	1.51E-06
18.73	1.51	1.58	42.31	47.04	2.29	97.89	105.11	122.69	0.0	0.0	9.83E-07
18.74	1.9	2.02	33.09	35.38	2.45	94.22	82.27	118.09	0.0	0.0	3.13E-07
18.75	2.2	2.36	27.61	28.87	2.56	90.52	68.67	113.45	9.11	0.65	1.44E-07
18.76	2.37	2.56	25.18	26.03	2.62	0.0	62.64	111.36	8.31	0.6	9.61E-08
18.77	2.73	2.98	21.9	22.22	2.72	0.0	54.52	109.32	7.23	0.53	4.94E-08
18.78	2.85	3.12	21.05	21.23	2.74	0.0	52.42	108.89	6.95	0.51	4.06E-08
18.79	2.96	3.25	20.08	20.14	2.77	0.0	50.04	107.84	6.63	0.49	3.31E-08
18.8	2.98	3.28	19.68	19.7	2.78	0.0	49.06	107.01	6.49	0.48	3.10E-08
18.81	2.99	3.29	19.44	19.44	2.79	0.0	48.48	106.56	6.42	0.48	2.97E-08
18.82	2.96	3.27	19.21	19.2	2.79	0.0	47.93	105.58	6.34	0.47	2.94E-08
18.83	2.94	3.25	18.7	18.65	2.8	0.0	46.68	103.95	6.17	0.46	2.76E-08
18.84	2.96	3.28	18.58	18.52	2.8	0.0	46.41	103.97	6.13	0.46	2.67E-08
18.85	2.94	3.26	18.3	18.22	2.81	0.0	45.72	102.98	6.04	0.45	2.60E-08
18.86	2.8	3.13	16.99	16.87	2.82	0.0	42.48	97.53	5.61	0.42	2.34E-08
18.87	2.77	3.12	15.92	15.73	2.85	0.0	39.81	94.17	5.25	0.4	1.98E-08
18.88	2.99	3.44	13.16	12.75	2.95	0.0	29.99	88.22	4.34	0.33	9.96E-09
18.89	3.21	3.74	11.87	11.35	3.01	0.0	24.1	86.16	3.92	0.3	6.43E-09
18.9	3.21	3.74	11.86	11.35	3.01	0.0	24.08	86.18	3.92	0.3	6.42E-09
18.91	3.21	3.74	11.86	11.34	3.01	0.0	24.06	86.2	3.91	0.3	6.40E-09
18.92	2.75	3.2	12.18	11.77	2.95	0.0	25.67	82.74	4.02	0.31	9.33E-09
18.93	2.43	2.81	12.5	12.19	2.91	0.0	27.29	80.32	4.12	0.32	1.27E-08
18.94	2.35	2.75	11.59	11.25	2.93	0.0	23.38	76.76	3.83	0.3	1.08E-08
18.95	2.38	2.86	9.98	9.55	3.0	0.0	17.09	72.0	3.29	0.26	6.74E-09
18.96	2.34	2.84	9.25	8.81	3.03	0.0	14.62	69.18	3.05	0.24	5.55E-09
18.97	2.44	3.05	7.86	7.36	3.11	0.0	10.38	65.29	2.59	0.21	3.11E-09
18.98	2.64	3.4	6.81	6.22	3.2	0.0	7.61	63.14	2.25	0.18	1.69E-09
18.99	2.73	3.65	5.87	5.28	3.28	0.0	5.56	60.01	1.94	0.16	9.84E-10
19.0	2.99	4.12	5.26	4.66	3.35	0.0	4.4	59.13	1.74	0.14	7.80E-10
19.01	3.15	4.38	5.07	4.46	3.38	0.0	4.07	59.3	1.67	1.19	7.08E-10
19.02	3.29	4.65	4.8	4.19	3.42	0.0	3.62	58.87	1.58	1.25	6.29E-10

19.03	3.14	4.49	4.62	4.02	3.42	0.0	3.34	57.06	1.52	1.17	6.17E-10
19.04	2.55	3.57	4.97	4.41	3.34	0.0	3.95	55.03	1.64	0.44	8.14E-10
19.05	2.15	2.91	5.66	5.14	3.23	0.0	5.24	55.02	1.87	0.25	1.33E-09
19.06	1.83	2.37	6.69	6.26	3.11	0.0	7.54	55.91	2.21	0.99	3.07E-09
19.07	1.54	1.93	7.81	7.48	3.0	0.0	10.53	56.68	2.58	0.8	6.74E-09
19.08	1.38	1.72	8.12	7.84	2.96	0.0	11.48	55.88	2.68	0.99	9.05E-09
19.09	1.32	1.64	8.09	7.82	2.95	0.0	11.42	55.01	2.67	0.92	9.68E-09
19.1	1.29	1.61	7.78	7.51	2.96	0.0	10.54	53.76	2.57	0.22	8.89E-09
19.11	1.4	1.8	6.94	6.6	3.03	0.0	8.27	52.52	2.29	0.26	5.39E-09
19.12	1.44	1.9	6.2	5.82	3.09	0.0	6.53	50.63	2.05	1.01	3.55E-09
19.13	1.6	2.17	5.58	5.13	3.17	0.0	5.18	50.21	1.84	1.1	2.09E-09
19.14	1.83	2.53	5.21	4.72	3.23	0.0	4.45	50.87	1.72	1.17	1.33E-09
19.15	1.92	2.67	5.08	4.58	3.26	0.0	4.22	51.14	1.68	1.15	1.13E-09
19.16	2.12	3.02	4.7	4.18	3.32	0.0	3.55	51.11	1.55	0.95	8.60E-10
19.17	2.38	3.48	4.33	3.79	3.39	0.0	2.97	51.3	1.43	1.08	6.95E-10
19.18	2.48	3.67	4.13	3.59	3.42	0.0	2.69	51.01	1.36	0.98	6.28E-10
19.19	2.39	3.52	4.2	3.66	3.4	0.0	2.79	50.81	1.39	0.61	6.62E-10
19.2	2.21	3.21	4.39	3.87	3.36	0.0	3.08	50.47	1.45	0.03	7.53E-10
19.21	1.99	2.83	4.74	4.23	3.3	0.0	3.64	50.43	1.56	0.29	9.14E-10
19.22	1.86	2.6	4.96	4.47	3.26	0.0	4.03	50.32	1.64	0.68	1.10E-09
19.23	1.78	2.46	5.23	4.75	3.22	0.0	4.51	50.78	1.73	0.9	1.41E-09
19.24	1.71	2.34	5.34	4.86	3.2	0.0	4.72	50.53	1.76	0.96	1.62E-09
19.25	1.45	1.97	5.48	5.05	3.15	0.0	5.03	48.66	1.81	0.93	2.31E-09
19.26	1.39	1.91	5.29	4.87	3.16	0.0	4.69	47.46	1.75	0.53	2.20E-09
19.27	1.23	1.71	4.97	4.57	3.16	0.0	4.13	44.74	1.64	0.38	2.15E-09
19.28	1.08	1.51	5.03	4.65	3.13	0.0	4.26	43.46	1.66	0.58	2.70E-09
19.29	0.88	1.23	5.03	4.72	3.09	0.0	4.33	41.14	1.66	0.79	3.67E-09
19.3	0.67	0.93	5.04	4.79	3.03	0.0	4.39	38.48	1.66	0.99	5.38E-09
19.31	0.61	0.84	5.26	5.04	2.99	0.0	4.83	38.25	1.74	1.13	7.09E-09
19.32	0.52	0.69	6.16	6.02	2.89	0.0	6.76	39.32	2.03	0.99	1.45E-08
19.33	0.5	0.64	6.93	6.87	2.83	0.0	8.68	40.72	2.29	0.98	2.31E-08
19.34	0.5	0.63	7.56	7.56	2.78	0.0	10.43	42.21	2.5	0.97	3.07E-08
19.35	0.54	0.68	7.23	7.17	2.82	0.0	9.46	42.18	2.38	0.95	2.40E-08
19.36	0.58	0.75	6.75	6.64	2.86	0.0	8.19	41.76	2.23	0.86	1.76E-08
19.37	0.79	1.08	5.58	5.32	3.02	0.0	5.42	41.84	1.84	0.27	6.06E-09
19.38	0.96	1.37	4.64	4.27	3.15	0.0	3.62	41.01	1.53	0.66	2.44E-09
19.39	0.96	1.36	4.77	4.41	3.13	0.0	3.84	41.49	1.57	0.17	2.67E-09
19.4	0.93	1.31	4.83	4.47	3.12	0.0	3.95	41.37	1.59	0.05	2.91E-09
19.41	0.87	1.22	4.99	4.68	3.09	0.0	4.27	41.11	1.65	0.0	3.62E-09
19.42	0.87	1.22	4.93	4.62	3.1	0.0	4.17	40.93	1.63	0.0	3.49E-09
19.43	0.82	1.16	4.87	4.57	3.09	0.0	4.08	40.15	1.61	0.0	3.65E-09
19.44	0.9	1.27	4.76	4.41	3.12	0.0	3.85	40.82	1.57	0.09	2.93E-09
19.45	0.87	1.24	4.66	4.31	3.12	0.0	3.69	40.2	1.54	0.03	2.85E-09
19.46	0.8	1.13	4.99	4.7	3.07	0.0	4.31	40.4	1.65	0.2	4.07E-09
19.47	0.74	1.02	5.21	4.95	3.04	0.0	4.73	40.24	1.72	0.54	5.30E-09
19.48	0.65	0.88	5.65	5.43	2.97	0.0	5.64	40.26	1.87	0.99	8.26E-09
19.49	0.64	0.85	6.07	5.88	2.94	0.0	6.56	41.3	2.0	1.04	1.07E-08
19.5	0.68	0.89	6.27	6.08	2.93	0.0	7.0	42.4	2.07	1.02	1.11E-08
19.51	0.7	0.93	6.05	5.84	2.95	0.0	6.49	42.16	2.0	0.96	9.40E-09
19.52	0.52	0.7	6.01	5.85	2.9	0.0	6.47	39.36	1.98	1.05	1.32E-08
19.53	0.61	0.8	6.55	6.4	2.89	0.0	7.72	42.14	2.16	0.99	1.47E-08
19.54	0.41	0.52	7.55	7.59	2.75	0.0	10.56	40.94	2.49	0.81	3.80E-08
19.55	0.4	0.5	8.08	8.19	2.72	0.0	12.19	41.83	2.67	0.75	4.91E-08
19.56	0.47	0.56	9.94	10.23	2.65	0.0	18.74	47.0	3.28	1.01	8.13E-08
19.57	0.48	0.57	11.18	11.62	2.59	39.53	23.96	49.54	0.0	0.0	1.17E-07
19.58	0.46	0.55	10.97	11.4	2.6	38.9	23.08	48.76	0.0	0.0	1.15E-07
19.59	0.44	0.53	9.71	9.98	2.65	0.0	17.89	45.97	3.2	0.65	8.12E-08
19.6	0.46	0.57	8.39	8.49	2.72	0.0	13.15	43.83	2.77	1.0	4.73E-08
19.61	0.52	0.66	6.99	6.92	2.83	0.0	8.94	41.79	2.31	0.33	2.25E-08
19.62	0.55	0.72	6.46	6.33	2.88	0.0	7.55	41.16	2.13	0.07	1.58E-08
19.63	0.8	1.06	6.27	6.03	2.96	0.0	6.99	44.5	2.07	0.21	8.74E-09
19.64	0.99	1.28	6.88	6.62	2.96	0.0	8.41	48.76	2.27	0.98	8.82E-09
19.65	1.0	1.27	7.59	7.37	2.92	0.0	10.34	50.96	2.5	0.8	1.19E-08
19.66	0.98	1.2	8.85	8.73	2.84	0.0	14.31	53.95	2.92	0.94	2.05E-08
19.67	0.82	0.98	10.09	10.16	2.75	0.0	18.99	54.4	3.33	0.89	4.04E-08
19.68	0.59	0.68	13.54	14.23	2.54	45.21	35.14	56.66	0.0	0.0	1.65E-07
19.69	0.52	0.58	15.51	16.7	2.45	46.19	40.26	57.89	0.0	0.0	3.10E-07
19.7	0.46	0.5	19.16	21.21	2.33	49.02	49.76	61.43	0.0	0.0	7.21E-07
19.71	0.45	0.49	20.9	23.36	2.29	50.72	54.29	63.57	0.0	0.0	9.65E-07
19.72	0.5	0.55	19.32	21.32	2.35	50.38	50.22	63.14	0.0	0.0	6.52E-07
19.73	0.56	0.63	16.08	17.32	2.45	47.84	41.8	59.96	0.0	0.0	3.15E-07
19.74	0.57	0.65	14.51	15.36	2.51	46.29	37.74	58.02	0.0	0.0	2.15E-07
19.75	0.65	0.76	11.92	12.32	2.62	0.0	27.3	55.11	0.0	0.0	9.64E-08

19.76	0.81	0.97	10.41	10.51	2.73	0.0	20.35	55.25	3.43	0.27	4.50E-08
19.77	1.07	1.3	9.38	9.26	2.84	0.0	16.16	56.97	3.09	0.24	2.14E-08
19.78	1.48	1.82	8.46	8.14	2.96	0.0	12.82	59.95	2.79	0.22	9.18E-09
19.79	1.71	2.14	7.93	7.52	3.02	0.0	11.11	60.95	2.62	0.4	5.86E-09
19.8	2.35	3.02	6.93	6.34	3.16	0.0	8.18	63.84	2.29	0.87	2.16E-09
19.81	2.73	3.55	6.56	5.91	3.23	0.0	7.22	65.53	2.16	0.97	1.38E-09
19.82	3.35	4.42	6.21	5.5	3.31	0.0	6.37	68.64	2.05	0.88	8.92E-10
19.83	3.27	4.35	6.02	5.32	3.31	0.0	5.97	67.22	1.99	0.63	8.70E-10
19.84	2.99	3.98	6.0	5.33	3.29	0.0	5.97	65.21	1.98	0.04	9.33E-10
19.85	2.86	3.73	6.62	5.95	3.24	0.0	7.36	67.03	2.19	0.75	1.30E-09
19.86	2.71	3.49	7.0	6.35	3.2	0.0	8.3	67.42	2.31	0.99	1.71E-09
19.87	2.19	2.75	7.72	7.21	3.09	0.0	10.4	65.37	2.55	0.97	3.50E-09
19.88	1.93	2.44	7.51	7.04	3.08	0.0	9.89	62.1	2.48	0.81	4.00E-09
19.89	1.93	2.49	6.87	6.34	3.12	0.0	8.14	60.07	2.27	0.2	2.94E-09
19.9	1.93	2.49	6.86	6.33	3.12	0.0	8.13	60.08	2.26	0.19	2.93E-09
19.91	1.93	2.49	6.86	6.33	3.12	0.0	8.13	60.1	2.26	0.19	2.93E-09
19.92	1.89	2.51	6.14	5.6	3.17	0.0	6.44	57.08	2.03	0.17	2.11E-09
19.93	1.86	2.46	6.15	5.62	3.16	0.0	6.48	56.82	2.03	0.17	2.20E-09
19.94	1.67	2.17	6.65	6.2	3.1	0.0	7.73	56.67	2.19	0.18	3.43E-09
19.95	1.61	2.08	6.7	6.27	3.08	0.0	7.87	56.18	2.21	0.18	3.77E-09
19.96	1.55	2.04	6.32	5.85	3.11	0.0	6.93	54.49	2.08	0.17	3.24E-09
19.97	1.41	1.85	6.39	5.99	3.08	0.0	7.19	53.1	2.11	0.99	3.99E-09
19.98	1.24	1.58	7.36	7.04	2.98	0.0	9.73	54.24	2.43	0.82	7.76E-09
19.99	1.22	1.51	8.17	7.9	2.93	0.0	12.12	56.34	2.7	0.02	1.12E-08
20.0	1.16	1.43	8.49	8.26	2.9	0.0	13.19	56.45	2.8	0.15	1.38E-08
20.01	1.09	1.34	8.86	8.69	2.87	0.0	14.48	56.6	2.93	0.65	1.72E-08
20.02	1.0	1.26	7.84	7.62	2.91	0.0	11.23	52.56	2.59	0.09	1.32E-08
20.03	0.88	1.15	6.5	6.24	2.97	0.0	7.63	47.08	2.15	1.0	8.64E-09
20.04	0.81	1.09	5.82	5.54	3.0	0.0	6.06	44.19	1.92	1.08	6.65E-09
20.05	0.87	1.19	5.56	5.25	3.04	0.0	5.49	44.22	1.83	1.11	5.15E-09
20.06	1.21	1.66	5.32	4.89	3.13	0.0	4.9	47.56	1.75	1.14	2.71E-09
20.07	1.29	1.79	5.18	4.73	3.16	0.0	4.61	48.01	1.71	1.12	2.22E-09
20.08	1.2	1.66	5.07	4.64	3.15	0.0	4.44	46.63	1.67	1.11	2.34E-09
20.09	1.22	1.72	4.87	4.43	3.18	0.0	4.07	46.17	1.61	1.15	1.98E-09
20.1	1.17	1.65	4.87	4.44	3.17	0.0	4.08	45.67	1.61	1.12	2.11E-09

Ulik_V2.1

Report riassuntivo indice potenziale liquefazione

18/10/2022
10:39:10

Committente	Dott. Geol. Maurizio Castellari
Località	Volania (FE)
Via	Strada Poderale Pallotta
Prova	CPTU1

Metodo utilizzato	Magnitudo di riferimento	Acc.Max/g	Prof. Preforo	Falda	IPL (Sonmez 2003)
Boulanger e Idriss 2014	6.9	0.157	0.08	1.0	4.769

Tabella 1 - Parametri inseriti e IPL verticale prova penetrometrica

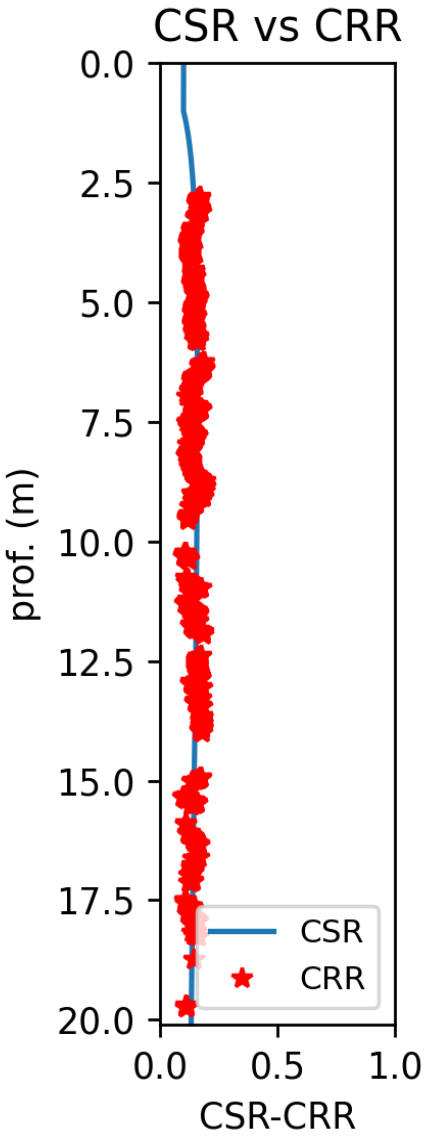

Grafico 1 - CSR vs CRR, i valori di CRR indicati con asterisco rosso che ricadono a sinistra della curva CRR indicano valori con FS <1 e quindi potenzialmente liquefacibili-

Ulik_V2.1

Report calcolo indice potenziale liquefazione

18/10/2022
10:38:55

Committente	Dott. Geol. Maurizio Castellari
Località	Volania (FE)
Via	Strada Poderale Pallotta
Prova	CPTU1

Metodo utilizzato	Magnitudo di riferimento	Acc.Max/g	Prof. Preforo	Falda	IPL (Sonmez 2003)
Boulanger e Idriss 2014	6.9	0.157	0.08	1.0	4.769

Profondità (m)	Q (r.p.c.)	FC	CSR	Ic	Fsl	Ipl
0.01	0.0	0.0	0.1	0.0	N.C.	0.0
0.02	0.0	0.0	0.1	0.0	N.C.	0.0
0.03	0.0	0.0	0.1	0.0	N.C.	0.0
0.04	0.0	0.0	0.1	0.0	N.C.	0.0
0.05	0.0	0.0	0.1	0.0	N.C.	0.0
0.06	0.0	0.0	0.1	0.0	N.C.	0.0
0.07	0.0	0.0	0.1	0.0	N.C.	0.0
0.08	29.678	16.957	0.1	1.924	N.C.	0.0
0.09	16.921	6.269	0.1	1.791	N.C.	0.0
0.1	18.953	5.767	0.1	1.785	N.C.	0.0
0.11	23.266	5.621	0.1	1.783	N.C.	0.0
0.12	25.597	6.438	0.1	1.793	N.C.	0.0
0.13	28.537	6.634	0.1	1.795	N.C.	0.0
0.14	29.965	1.328	0.1	1.729	N.C.	0.0
0.15	34.303	8.198	0.1	1.815	N.C.	0.0
0.16	35.091	8.254	0.1	1.816	N.C.	0.0
0.17	33.629	2.808	0.1	1.748	N.C.	0.0
0.18	34.869	4.107	0.1	1.764	N.C.	0.0
0.19	35.399	4.23	0.1	1.765	N.C.	0.0
0.2	37.181	4.648	0.1	1.771	N.C.	0.0
0.21	39.483	4.879	0.1	1.773	N.C.	0.0
0.22	42.335	5.167	0.1	1.777	N.C.	0.0
0.23	43.854	5.567	0.1	1.782	N.C.	0.0
0.24	46.592	5.844	0.1	1.786	N.C.	0.0
0.25	48.723	6.217	0.1	1.79	N.C.	0.0
0.26	50.035	6.58	0.1	1.795	N.C.	0.0
0.27	52.086	6.916	0.1	1.799	N.C.	0.0
0.28	51.767	2.449	0.1	1.743	N.C.	0.0
0.29	54.814	7.74	0.1	1.809	N.C.	0.0
0.3	55.432	7.926	0.1	1.812	N.C.	0.0
0.31	53.189	4.189	0.1	1.765	N.C.	0.0
0.32	53.337	-3.145	0.1	1.673	N.C.	0.0
0.33	84.885	-13.856	0.1	1.539	N.C.	0.0
0.34	113.905	-19.123	0.1	1.473	N.C.	0.0
0.35	107.504	-17.699	0.1	1.491	N.C.	0.0
0.36	0.0	0.0	0.1	0.0	N.C.	0.0
0.37	106.097	35.041	0.1	2.151	N.C.	0.0
0.38	106.602	35.644	0.1	2.158	N.C.	0.0
0.39	106.767	35.843	0.1	2.161	N.C.	0.0

0.4	107.004	36.133	0.1	2.164	N.C.	0.0
0.41	61.189	3.004	0.1	1.75	N.C.	0.0
0.42	55.85	0.157	0.1	1.714	N.C.	0.0
0.43	75.763	-12.109	0.1	1.561	N.C.	0.0
0.44	117.654	-18.276	0.1	1.484	N.C.	0.0
0.45	108.402	-15.801	0.1	1.515	N.C.	0.0
0.46	101.31	-14.411	0.1	1.532	N.C.	0.0
0.47	89.17	-12.235	0.1	1.56	N.C.	0.0
0.48	82.232	-10.797	0.1	1.578	N.C.	0.0
0.49	84.843	-10.836	0.1	1.577	N.C.	0.0
0.5	86.234	-10.882	0.1	1.576	N.C.	0.0
0.51	88.688	-10.895	0.1	1.576	N.C.	0.0
0.52	89.799	-10.843	0.1	1.577	N.C.	0.0
0.53	102.61	-12.001	0.1	1.562	N.C.	0.0
0.54	117.695	-13.162	0.1	1.548	N.C.	0.0
0.55	117.133	-12.795	0.1	1.553	N.C.	0.0
0.56	121.879	-12.833	0.1	1.552	N.C.	0.0
0.57	121.288	-12.562	0.1	1.555	N.C.	0.0
0.58	124.673	-12.622	0.1	1.555	N.C.	0.0
0.59	129.69	-13.021	0.1	1.55	N.C.	0.0
0.6	145.482	-14.498	0.1	1.531	N.C.	0.0
0.61	160.545	-15.962	0.1	1.513	N.C.	0.0
0.62	168.643	-16.605	0.1	1.505	N.C.	0.0
0.63	167.408	-16.246	0.1	1.509	N.C.	0.0
0.64	168.113	-15.996	0.1	1.513	N.C.	0.0
0.65	172.076	-16.137	0.1	1.511	N.C.	0.0
0.66	174.748	-16.244	0.1	1.509	N.C.	0.0
0.67	182.61	-16.725	0.1	1.503	N.C.	0.0
0.68	182.872	-16.493	0.1	1.506	N.C.	0.0
0.69	178.762	-15.725	0.1	1.516	N.C.	0.0
0.7	169.224	-14.674	0.1	1.529	N.C.	0.0
0.71	162.244	-14.025	0.1	1.537	N.C.	0.0
0.72	142.375	-12.216	0.1	1.56	N.C.	0.0
0.73	125.324	-10.519	0.1	1.581	N.C.	0.0
0.74	118.976	-9.913	0.1	1.589	N.C.	0.0
0.75	114.883	-9.323	0.1	1.596	N.C.	0.0
0.76	109.553	-8.161	0.1	1.61	N.C.	0.0
0.77	108.135	-7.813	0.1	1.615	N.C.	0.0
0.78	105.704	-6.851	0.1	1.627	N.C.	0.0
0.79	103.24	-5.996	0.1	1.638	N.C.	0.0
0.8	101.844	-5.42	0.1	1.645	N.C.	0.0
0.81	99.052	-4.153	0.1	1.661	N.C.	0.0
0.82	96.085	-2.855	0.1	1.677	N.C.	0.0
0.83	93.64	-1.867	0.1	1.689	N.C.	0.0
0.84	92.243	-1.285	0.1	1.696	N.C.	0.0
0.85	89.622	-0.173	0.1	1.71	N.C.	0.0
0.86	88.574	0.275	0.1	1.716	N.C.	0.0
0.87	86.481	1.606	0.1	1.733	N.C.	0.0
0.88	85.086	2.413	0.1	1.743	N.C.	0.0
0.89	84.388	2.833	0.1	1.748	N.C.	0.0
0.9	83.866	3.175	0.1	1.752	N.C.	0.0
0.91	83.179	3.849	0.1	1.761	N.C.	0.0
0.92	82.354	4.51	0.1	1.769	N.C.	0.0
0.93	81.9	4.923	0.1	1.774	N.C.	0.0

0.94	81.222	5.891	0.1	1.786	N.C.	0.0
0.95	80.989	6.081	0.1	1.789	N.C.	0.0
0.96	81.064	6.189	0.1	1.79	N.C.	0.0
0.97	81.157	6.314	0.099	1.791	N.C.	0.0
0.98	77.932	2.346	0.099	1.742	N.C.	0.0
0.99	78.804	1.467	0.099	1.731	N.C.	0.0
1.0	78.978	1.588	0.099	1.732	N.C.	0.0
1.01	79.327	1.126	0.1	1.727	N.C.	0.0
1.02	79.327	1.18	0.1	1.727	N.C.	0.0
1.03	78.804	1.287	0.101	1.729	N.C.	0.0
1.04	78.28	1.327	0.101	1.729	N.C.	0.0
1.05	77.932	1.534	0.102	1.732	N.C.	0.0
1.06	77.757	1.339	0.102	1.729	N.C.	0.0
1.07	78.106	0.711	0.103	1.721	N.C.	0.0
1.08	78.629	0.148	0.103	1.714	N.C.	0.0
1.09	78.803	0.055	0.104	1.713	N.C.	0.0
1.1	78.978	-0.036	0.104	1.712	N.C.	0.0
1.11	78.977	-0.047	0.105	1.712	N.C.	0.0
1.12	78.454	0.218	0.105	1.715	N.C.	0.0
1.13	77.059	1.183	0.106	1.727	N.C.	0.0
1.14	76.187	1.618	0.106	1.733	N.C.	0.0
1.15	74.269	2.801	0.107	1.748	N.C.	0.0
1.16	72.531	3.588	0.107	1.757	N.C.	0.0
1.17	71.017	4.543	0.107	1.769	N.C.	0.0
1.18	70.384	4.936	0.108	1.774	N.C.	0.0
1.19	69.423	6.039	0.108	1.788	N.C.	0.0
1.2	68.873	6.489	0.109	1.794	N.C.	0.0
1.21	68.526	7.19	0.109	1.802	N.C.	0.0
1.22	68.019	7.206	0.109	1.803	N.C.	0.0
1.23	67.87	7.229	0.11	1.803	N.C.	0.0
1.24	67.477	6.496	0.11	1.794	N.C.	0.0
1.25	67.635	5.63	0.111	1.783	N.C.	0.0
1.26	67.942	4.948	0.111	1.774	N.C.	0.0
1.27	68.229	4.577	0.111	1.77	N.C.	0.0
1.28	69.386	3.14	0.112	1.752	N.C.	0.0
1.29	69.908	2.753	0.112	1.747	N.C.	0.0
1.3	70.78	1.576	0.113	1.732	N.C.	0.0
1.31	71.303	1.267	0.113	1.728	N.C.	0.0
1.32	72.0	0.28	0.113	1.716	N.C.	0.0
1.33	72.0	0.034	0.114	1.713	N.C.	0.0
1.34	71.477	0.328	0.114	1.717	N.C.	0.0
1.35	70.954	0.757	0.114	1.722	N.C.	0.0
1.36	69.907	1.47	0.115	1.731	N.C.	0.0
1.37	68.861	2.311	0.115	1.741	N.C.	0.0
1.38	68.512	2.548	0.115	1.744	N.C.	0.0
1.39	68.338	2.925	0.116	1.749	N.C.	0.0
1.4	68.513	2.927	0.116	1.749	N.C.	0.0
1.41	67.994	3.554	0.117	1.757	N.C.	0.0
1.42	66.991	4.431	0.117	1.768	N.C.	0.0
1.43	65.783	5.78	0.117	1.785	N.C.	0.0
1.44	65.316	6.18	0.118	1.79	N.C.	0.0
1.45	65.143	6.424	0.118	1.793	N.C.	0.0
1.46	65.407	5.726	0.118	1.784	N.C.	0.0
1.47	65.929	5.268	0.119	1.778	N.C.	0.0

1.48	67.819	3.531	0.119	1.757	N.C.	0.0
1.49	68.861	3.04	0.119	1.751	N.C.	0.0
1.5	70.429	1.969	0.119	1.737	N.C.	0.0
1.51	71.301	1.545	0.12	1.732	N.C.	0.0
1.52	71.999	1.077	0.12	1.726	N.C.	0.0
1.53	73.568	-0.085	0.12	1.711	N.C.	0.0
1.54	75.311	-1.045	0.121	1.699	N.C.	0.0
1.55	76.706	-1.817	0.121	1.69	N.C.	0.0
1.56	79.67	-3.709	0.121	1.666	N.C.	0.0
1.57	83.158	-5.621	0.122	1.642	N.C.	0.0
1.58	85.252	-6.345	0.122	1.633	N.C.	0.0
1.59	89.62	-8.041	0.122	1.612	N.C.	0.0
1.6	92.233	-8.513	0.122	1.606	N.C.	0.0
1.61	99.722	-9.713	0.123	1.591	N.C.	0.0
1.62	103.185	-9.939	0.123	1.588	N.C.	0.0
1.63	102.818	-9.653	0.123	1.592	N.C.	0.0
1.64	101.552	-9.315	0.124	1.596	N.C.	0.0
1.65	97.958	-7.996	0.124	1.613	N.C.	0.0
1.66	96.587	-6.48	0.124	1.632	N.C.	0.0
1.67	96.06	-5.722	0.124	1.641	N.C.	0.0
1.68	95.363	-3.963	0.125	1.663	N.C.	0.0
1.69	95.188	-3.367	0.125	1.67	N.C.	0.0
1.7	94.665	-1.902	0.125	1.689	N.C.	0.0
1.71	94.316	-0.857	0.125	1.702	N.C.	0.0
1.72	94.316	-0.608	0.126	1.705	N.C.	0.0
1.73	94.665	-0.025	0.126	1.712	N.C.	0.0
1.74	95.013	0.364	0.126	1.717	N.C.	0.0
1.75	95.536	0.454	0.126	1.718	N.C.	0.0
1.76	95.885	0.358	0.127	1.717	N.C.	0.0
1.77	96.757	-0.195	0.127	1.71	N.C.	0.0
1.78	96.757	-0.189	0.127	1.71	N.C.	0.0
1.79	96.059	-0.021	0.127	1.712	N.C.	0.0
1.8	95.362	0.246	0.128	1.716	N.C.	0.0
1.81	93.617	0.927	0.128	1.724	N.C.	0.0
1.82	91.874	1.643	0.128	1.733	N.C.	0.0
1.83	90.13	2.521	0.128	1.744	N.C.	0.0
1.84	89.259	2.893	0.129	1.749	N.C.	0.0
1.85	87.699	3.765	0.129	1.76	N.C.	0.0
1.86	86.54	4.593	0.129	1.77	N.C.	0.0
1.87	86.212	4.729	0.129	1.772	N.C.	0.0
1.88	86.693	4.422	0.129	1.768	N.C.	0.0
1.89	87.367	4.144	0.13	1.764	N.C.	0.0
1.9	89.607	2.831	0.13	1.748	N.C.	0.0
1.91	91.001	2.232	0.13	1.74	N.C.	0.0
1.92	93.791	0.439	0.13	1.718	N.C.	0.0
1.93	96.058	-0.822	0.131	1.702	N.C.	0.0
1.94	97.801	-1.826	0.131	1.69	N.C.	0.0
1.95	97.801	-1.595	0.131	1.693	N.C.	0.0
1.96	97.801	-1.582	0.131	1.693	N.C.	0.0
1.97	100.414	-9.043	0.131	1.599	N.C.	0.0
1.98	100.846	-9.067	0.132	1.599	N.C.	0.0
1.99	99.384	-8.297	0.132	1.609	N.C.	0.0
2.0	99.119	-7.936	0.132	1.613	N.C.	0.0
2.01	99.467	-7.319	0.132	1.621	N.C.	0.0

2.02	100.251	-6.677	0.132	1.629	N.C.	0.0
2.03	101.288	-6.104	0.133	1.636	N.C.	0.0
2.04	102.683	-5.821	0.133	1.64	N.C.	0.0
2.05	103.206	-5.662	0.133	1.642	N.C.	0.0
2.06	105.298	-5.905	0.133	1.639	N.C.	0.0
2.07	106.519	-6.067	0.133	1.637	N.C.	0.0
2.08	109.146	-6.719	0.134	1.629	N.C.	0.0
2.09	111.237	-6.704	0.134	1.629	N.C.	0.0
2.1	112.811	-6.785	0.134	1.628	N.C.	0.0
2.11	113.514	-6.861	0.134	1.627	N.C.	0.0
2.12	115.137	-7.216	0.134	1.622	N.C.	0.0
2.13	117.396	-7.872	0.134	1.614	N.C.	0.0
2.14	118.741	-8.14	0.135	1.611	N.C.	0.0
2.15	122.194	-8.802	0.135	1.602	N.C.	0.0
2.16	123.37	-9.091	0.135	1.599	N.C.	0.0
2.17	123.638	-9.07	0.135	1.599	N.C.	0.0
2.18	123.566	-8.948	0.135	1.601	N.C.	0.0
2.19	122.226	-8.427	0.136	1.607	N.C.	0.0
2.2	121.103	-7.644	0.136	1.617	N.C.	0.0
2.21	120.74	-7.175	0.136	1.623	N.C.	0.0
2.22	120.501	-6.614	0.136	1.63	N.C.	0.0
2.23	120.658	-6.225	0.136	1.635	N.C.	0.0
2.24	120.138	-5.092	0.136	1.649	N.C.	0.0
2.25	119.621	-4.092	0.137	1.661	N.C.	0.0
2.26	119.105	-3.601	0.137	1.667	N.C.	0.0
2.27	119.272	-3.313	0.137	1.671	N.C.	0.0
2.28	119.946	-2.935	0.137	1.676	N.C.	0.0
2.29	120.62	-2.681	0.137	1.679	N.C.	0.0
2.3	121.122	-2.793	0.137	1.678	N.C.	0.0
2.31	122.299	-3.031	0.138	1.675	N.C.	0.0
2.32	124.486	-3.806	0.138	1.665	N.C.	0.0
2.33	125.656	-4.286	0.138	1.659	N.C.	0.0
2.34	127.831	-5.273	0.138	1.647	N.C.	0.0
2.35	128.731	-5.929	0.138	1.638	N.C.	0.0
2.36	130.571	-6.908	0.138	1.626	N.C.	0.0
2.37	131.289	-7.286	0.138	1.621	N.C.	0.0
2.38	133.292	-8.045	0.139	1.612	N.C.	0.0
2.39	133.43	-8.161	0.139	1.61	N.C.	0.0
2.4	132.824	-7.955	0.139	1.613	N.C.	0.0
2.41	131.231	-7.288	0.139	1.621	N.C.	0.0
2.42	129.31	-6.318	0.139	1.634	N.C.	0.0
2.43	128.311	-5.676	0.139	1.642	N.C.	0.0
2.44	126.825	-4.407	0.14	1.657	N.C.	0.0
2.45	125.507	-3.729	0.14	1.666	N.C.	0.0
2.46	125.011	-3.192	0.14	1.673	N.C.	0.0
2.47	124.844	-2.657	0.14	1.679	N.C.	0.0
2.48	125.003	-2.184	0.14	1.685	N.C.	0.0
2.49	124.674	-1.844	0.14	1.689	N.C.	0.0
2.5	124.183	-1.229	0.14	1.697	N.C.	0.0
2.51	123.897	-0.846	0.14	1.702	N.C.	0.0
2.52	121.763	0.377	0.141	1.717	1.533	0.0
2.53	120.617	0.958	0.141	1.724	1.504	0.0
2.54	118.876	1.861	0.141	1.736	1.463	0.0
2.55	117.56	2.368	0.141	1.742	1.432	0.0

2.56	115.097	3.307	0.141	1.754	1.381	0.0
2.57	114.235	3.935	0.141	1.762	1.362	0.0
2.58	111.623	4.368	0.141	1.767	1.313	0.0
2.59	109.934	5.031	0.142	1.775	1.282	0.0
2.6	108.787	6.169	0.142	1.79	1.262	0.0
2.61	107.107	6.979	0.142	1.8	1.234	0.0
2.62	106.694	7.397	0.142	1.805	1.226	0.0
2.63	106.334	7.687	0.142	1.809	1.219	0.0
2.64	105.901	7.036	0.142	1.8	1.211	0.0
2.65	105.909	6.413	0.142	1.793	1.21	0.0
2.66	107.735	4.699	0.142	1.771	1.236	0.0
2.67	112.296	2.054	0.143	1.738	1.311	0.0
2.68	115.499	-0.759	0.143	1.703	N.C.	0.0
2.69	117.627	-2.27	0.143	1.684	N.C.	0.0
2.7	120.237	-4.172	0.143	1.66	N.C.	0.0
2.71	120.404	-4.956	0.143	1.651	N.C.	0.0
2.72	119.758	-5.407	0.143	1.645	N.C.	0.0
2.73	117.98	-5.1	0.143	1.649	N.C.	0.0
2.74	115.397	-4.123	0.143	1.661	N.C.	0.0
2.75	113.953	-3.501	0.144	1.669	N.C.	0.0
2.76	110.575	-2.16	0.144	1.686	N.C.	0.0
2.77	108.95	-0.28	0.144	1.709	N.C.	0.0
2.78	107.337	0.492	0.144	1.719	1.214	0.0
2.79	105.076	2.315	0.144	1.741	1.179	0.0
2.8	104.442	3.326	0.144	1.754	1.169	0.0
2.81	102.9	4.601	0.144	1.77	1.147	0.0
2.82	102.381	5.11	0.144	1.776	1.139	0.0
2.83	101.329	5.685	0.144	1.784	1.124	0.0
2.84	100.589	6.447	0.145	1.793	1.113	0.0
2.85	100.233	6.557	0.145	1.794	1.108	0.0
2.86	100.456	6.201	0.145	1.79	1.109	0.0
2.87	100.079	6.098	0.145	1.789	1.104	0.0
2.88	99.991	5.236	0.145	1.778	1.101	0.0
2.89	100.151	4.141	0.145	1.764	1.102	0.0
2.9	99.668	3.576	0.145	1.757	1.095	0.0
2.91	99.042	3.398	0.145	1.755	1.087	0.0
2.92	98.418	2.695	0.145	1.746	1.078	0.0
2.93	99.752	1.38	0.146	1.73	1.093	0.0
2.94	101.571	0.699	0.146	1.721	1.115	0.0
2.95	101.437	0.741	0.146	1.722	1.112	0.0
2.96	101.304	0.783	0.146	1.722	1.109	0.0
2.97	108.638	-6.939	0.146	1.626	N.C.	0.0
2.98	109.784	-7.02	0.146	1.625	N.C.	0.0
2.99	109.448	-4.282	0.146	1.659	N.C.	0.0
3.0	108.676	-1.741	0.146	1.691	N.C.	0.0
3.01	107.905	-1.235	0.146	1.697	N.C.	0.0
3.02	107.454	-0.687	0.146	1.704	N.C.	0.0
3.03	106.055	0.816	0.147	1.723	1.165	0.0
3.04	104.344	2.193	0.147	1.74	1.141	0.0
3.05	104.035	3.526	0.147	1.757	1.135	0.0
3.06	103.605	4.075	0.147	1.763	1.129	0.0
3.07	103.792	4.079	0.147	1.763	1.13	0.0
3.08	104.911	3.54	0.147	1.757	1.144	0.0
3.09	106.199	2.55	0.147	1.744	1.161	0.0

3.1	106.541	2.057	0.147	1.738	1.165	0.0
3.11	106.882	1.333	0.147	1.729	1.169	0.0
3.12	106.118	0.156	0.147	1.714	1.157	0.0
3.13	105.671	-0.706	0.147	1.704	N.C.	0.0
3.14	104.282	-1.014	0.148	1.7	N.C.	0.0
3.15	102.11	-0.425	0.148	1.707	N.C.	0.0
3.16	100.076	0.86	0.148	1.723	1.074	0.0
3.17	99.003	1.204	0.148	1.728	1.061	0.001
3.18	97.618	1.463	0.148	1.731	1.044	0.001
3.19	96.866	1.755	0.148	1.734	1.035	0.001
3.2	96.116	1.818	0.148	1.735	1.026	0.001
3.21	96.312	1.842	0.148	1.736	1.027	0.001
3.22	96.507	1.725	0.148	1.734	1.028	0.001
3.23	96.702	1.591	0.148	1.732	1.03	0.001
3.24	97.523	0.918	0.148	1.724	1.038	0.001
3.25	98.498	0.21	0.148	1.715	1.048	0.001
3.26	98.847	-0.558	0.149	1.706	N.C.	0.0
3.27	98.882	-0.767	0.149	1.703	N.C.	0.0
3.28	98.762	-1.023	0.149	1.7	N.C.	0.0
3.29	106.67	-4.618	0.149	1.655	N.C.	0.0
3.3	95.727	-5.387	0.149	1.645	N.C.	0.0
3.31	96.236	-5.195	0.149	1.648	N.C.	0.0
3.32	95.492	-4.354	0.149	1.658	N.C.	0.0
3.33	94.907	-3.901	0.149	1.664	N.C.	0.0
3.34	94.167	-3.248	0.149	1.672	N.C.	0.0
3.35	94.052	-3.053	0.149	1.674	N.C.	0.0
3.36	93.938	-2.713	0.149	1.679	N.C.	0.0
3.37	93.668	-2.42	0.149	1.682	N.C.	0.0
3.38	93.4	-2.052	0.15	1.687	N.C.	0.0
3.39	92.202	-1.167	0.15	1.698	N.C.	0.0
3.4	91.179	-0.276	0.15	1.709	N.C.	0.0
3.41	89.351	1.178	0.15	1.727	0.942	0.005
3.42	88.463	1.971	0.15	1.737	0.933	0.006
3.43	86.917	3.891	0.15	1.761	0.919	0.007
3.44	86.215	4.392	0.15	1.767	0.912	0.007
3.45	85.439	5.052	0.15	1.776	0.904	0.008
3.46	84.605	6.17	0.15	1.79	0.897	0.009
3.47	84.015	6.852	0.15	1.798	0.891	0.009
3.48	83.824	7.419	0.15	1.805	0.889	0.009
3.49	83.957	8.337	0.15	1.817	0.89	0.009
3.5	84.493	9.043	0.15	1.826	0.893	0.009
3.51	85.067	10.008	0.15	1.838	0.898	0.008
3.52	87.148	11.489	0.151	1.856	0.915	0.007
3.53	88.074	12.139	0.151	1.864	0.922	0.006
3.54	88.084	12.634	0.151	1.87	0.922	0.006
3.55	88.121	12.967	0.151	1.875	0.922	0.006
3.56	87.276	12.761	0.151	1.872	0.914	0.007
3.57	86.856	12.646	0.151	1.871	0.909	0.007
3.58	85.535	12.098	0.151	1.864	0.897	0.008
3.59	84.791	11.808	0.151	1.86	0.891	0.009
3.6	83.223	10.978	0.151	1.85	0.877	0.01
3.61	81.934	9.979	0.151	1.837	0.866	0.011
3.62	80.595	9.316	0.151	1.829	0.855	0.012
3.63	79.686	8.863	0.151	1.823	0.848	0.012

3.64	79.0	8.484	0.151	1.819	0.842	0.013
3.65	78.205	7.741	0.151	1.809	0.835	0.013
3.66	77.671	7.319	0.151	1.804	0.831	0.014
3.67	76.723	6.534	0.152	1.794	0.824	0.014
3.68	76.44	6.303	0.152	1.791	0.821	0.015
3.69	76.38	5.883	0.152	1.786	0.82	0.015
3.7	76.142	5.591	0.152	1.782	0.818	0.015
3.71	75.996	5.46	0.152	1.781	0.816	0.015
3.72	75.68	5.259	0.152	1.778	0.814	0.015
3.73	75.271	5.641	0.152	1.783	0.81	0.015
3.74	74.963	6.305	0.152	1.791	0.808	0.016
3.75	74.883	6.678	0.152	1.796	0.807	0.016
3.76	74.848	7.833	0.152	1.81	0.806	0.016
3.77	75.278	8.498	0.152	1.819	0.808	0.016
3.78	76.725	9.803	0.152	1.835	0.818	0.015
3.79	76.96	10.196	0.152	1.84	0.819	0.015
3.8	78.67	11.2	0.152	1.852	0.832	0.014
3.81	79.962	11.826	0.152	1.86	0.841	0.013
3.82	80.714	12.072	0.152	1.863	0.846	0.012
3.83	81.464	12.374	0.153	1.867	0.851	0.012
3.84	81.204	12.368	0.153	1.867	0.849	0.012
3.85	81.857	13.096	0.153	1.876	0.853	0.012
3.86	82.467	13.518	0.153	1.881	0.858	0.011
3.87	83.704	14.287	0.153	1.891	0.867	0.011
3.88	83.835	14.483	0.153	1.894	0.868	0.011
3.89	83.921	14.425	0.153	1.893	0.868	0.011
3.9	82.182	13.303	0.153	1.879	0.854	0.012
3.91	79.562	11.473	0.153	1.856	0.833	0.013
3.92	78.07	10.405	0.153	1.843	0.822	0.014
3.93	77.161	8.441	0.153	1.818	0.815	0.015
3.94	77.033	6.163	0.153	1.79	0.813	0.015
3.95	76.971	6.202	0.153	1.79	0.812	0.015
3.96	76.91	6.24	0.153	1.791	0.812	0.015
3.97	76.853	-0.472	0.153	1.707	N.C.	0.0
3.98	77.063	0.464	0.153	1.718	0.812	0.015
3.99	76.975	1.028	0.153	1.725	0.811	0.015
4.0	76.737	1.714	0.153	1.734	0.809	0.015
4.01	76.649	2.955	0.154	1.749	0.808	0.015
4.02	76.719	3.749	0.154	1.759	0.808	0.015
4.03	76.834	4.54	0.154	1.769	0.808	0.015
4.04	76.811	4.927	0.154	1.774	0.808	0.015
4.05	77.003	5.39	0.154	1.78	0.809	0.015
4.06	76.981	5.557	0.154	1.782	0.808	0.015
4.07	77.234	5.652	0.154	1.783	0.809	0.015
4.08	77.637	5.404	0.154	1.78	0.812	0.015
4.09	77.811	5.308	0.154	1.779	0.813	0.015
4.1	78.625	4.772	0.154	1.772	0.818	0.014
4.11	79.794	4.139	0.154	1.764	0.826	0.014
4.12	80.913	3.114	0.154	1.751	0.834	0.013
4.13	81.701	2.46	0.154	1.743	0.84	0.013
4.14	83.218	1.386	0.154	1.73	0.851	0.012
4.15	83.71	0.886	0.154	1.724	0.855	0.012
4.16	84.493	0.378	0.154	1.717	0.86	0.011
4.17	84.838	0.195	0.154	1.715	0.863	0.011

4.18	84.78	0.145	0.154	1.714	0.862	0.011
4.19	85.845	-0.121	0.154	1.711	N.C.	0.0
4.2	87.051	-0.592	0.154	1.705	N.C.	0.0
4.21	88.111	-0.73	0.154	1.703	N.C.	0.0
4.22	88.737	-0.855	0.155	1.702	N.C.	0.0
4.23	89.297	-0.897	0.155	1.701	N.C.	0.0
4.24	89.918	-1.043	0.155	1.699	N.C.	0.0
4.25	91.107	-1.257	0.155	1.697	N.C.	0.0
4.26	91.725	-1.338	0.155	1.696	N.C.	0.0
4.27	92.483	-0.996	0.155	1.7	N.C.	0.0
4.28	93.098	-0.727	0.155	1.703	N.C.	0.0
4.29	93.429	-0.286	0.155	1.709	N.C.	0.0
4.3	93.088	-0.055	0.155	1.712	N.C.	0.0
4.31	92.994	0.644	0.155	1.721	0.928	0.006
4.32	92.901	1.044	0.155	1.726	0.926	0.006
4.33	92.808	1.322	0.155	1.729	0.925	0.006
4.34	92.295	2.147	0.155	1.739	0.92	0.006
4.35	91.923	2.582	0.155	1.745	0.916	0.007
4.36	90.577	3.64	0.155	1.758	0.904	0.008
4.37	89.105	5.055	0.155	1.776	0.89	0.009
4.38	88.994	5.786	0.155	1.785	0.889	0.009
4.39	88.283	7.148	0.155	1.802	0.883	0.009
4.4	89.234	8.834	0.155	1.823	0.89	0.009
4.41	90.493	10.128	0.155	1.839	0.901	0.008
4.42	91.749	11.004	0.155	1.85	0.912	0.007
4.43	93.13	12.356	0.155	1.867	0.924	0.006
4.44	94.232	13.064	0.155	1.876	0.934	0.005
4.45	95.627	13.927	0.155	1.887	0.947	0.004
4.46	95.284	13.683	0.155	1.884	0.943	0.004
4.47	94.578	13.215	0.156	1.878	0.936	0.005
4.48	92.957	12.036	0.156	1.863	0.92	0.006
4.49	91.78	11.196	0.156	1.852	0.909	0.007
4.5	91.406	10.833	0.156	1.848	0.906	0.007
4.51	91.063	10.685	0.156	1.846	0.902	0.008
4.52	91.264	10.945	0.156	1.849	0.904	0.007
4.53	91.216	11.06	0.156	1.851	0.903	0.008
4.54	91.339	11.389	0.156	1.855	0.903	0.007
4.55	91.083	11.529	0.156	1.857	0.901	0.008
4.56	90.906	11.545	0.156	1.857	0.899	0.008
4.57	89.502	10.918	0.156	1.849	0.886	0.009
4.58	88.906	9.947	0.156	1.837	0.881	0.009
4.59	88.427	9.376	0.156	1.83	0.877	0.01
4.6	87.711	8.045	0.156	1.813	0.87	0.01
4.61	88.014	7.093	0.156	1.801	0.872	0.01
4.62	88.576	6.009	0.156	1.788	0.877	0.009
4.63	89.404	5.365	0.156	1.78	0.883	0.009
4.64	89.778	5.083	0.156	1.776	0.886	0.009
4.65	91.192	4.155	0.156	1.764	0.898	0.008
4.66	92.855	2.698	0.156	1.746	0.913	0.007
4.67	93.07	2.141	0.156	1.739	0.914	0.007
4.68	94.613	1.45	0.156	1.731	0.929	0.005
4.69	95.203	1.193	0.156	1.727	0.934	0.005
4.7	95.385	1.216	0.156	1.728	0.935	0.005
4.71	94.89	1.798	0.156	1.735	0.93	0.005

4.72	94.802	2.159	0.156	1.739	0.929	0.005
4.73	94.849	2.669	0.156	1.746	0.929	0.005
4.74	95.167	3.104	0.156	1.751	0.932	0.005
4.75	95.217	3.395	0.156	1.755	0.932	0.005
4.76	95.267	3.577	0.157	1.757	0.932	0.005
4.77	95.072	4.223	0.157	1.765	0.93	0.005
4.78	95.143	4.464	0.157	1.768	0.93	0.005
4.79	95.46	5.144	0.157	1.777	0.933	0.005
4.8	96.044	5.51	0.157	1.781	0.938	0.005
4.81	96.224	5.507	0.157	1.781	0.94	0.005
4.82	97.343	5.133	0.157	1.777	0.95	0.004
4.83	98.239	4.428	0.157	1.768	0.959	0.003
4.84	99.048	3.983	0.157	1.762	0.967	0.003
4.85	100.936	3.186	0.157	1.752	0.987	0.002
4.86	102.464	1.929	0.157	1.737	1.004	0.001
4.87	103.3	1.34	0.157	1.729	1.013	0.001
4.88	104.529	0.813	0.157	1.723	1.027	0.001
4.89	104.703	0.687	0.157	1.721	1.029	0.001
4.9	104.217	1.112	0.157	1.726	1.022	0.001
4.91	103.601	1.479	0.157	1.731	1.015	0.001
4.92	103.118	1.601	0.157	1.733	1.009	0.001
4.93	102.767	1.859	0.157	1.736	1.004	0.001
4.94	102.679	1.888	0.157	1.736	1.003	0.001
4.95	102.591	1.916	0.157	1.736	1.002	0.001
4.96	100.011	-2.103	0.157	1.686	N.C.	0.0
4.97	100.319	-1.238	0.157	1.697	N.C.	0.0
4.98	100.626	-0.976	0.157	1.7	N.C.	0.0
4.99	101.063	-0.565	0.157	1.705	N.C.	0.0
5.0	100.717	0.184	0.157	1.715	0.979	0.002
5.01	99.979	0.888	0.157	1.724	0.971	0.003
5.02	99.504	1.22	0.157	1.728	0.966	0.003
5.03	98.247	2.149	0.157	1.739	0.953	0.004
5.04	97.64	2.903	0.157	1.749	0.946	0.004
5.05	96.907	3.543	0.157	1.757	0.939	0.005
5.06	95.096	4.781	0.157	1.772	0.921	0.006
5.07	93.941	5.536	0.157	1.782	0.91	0.007
5.08	93.551	7.615	0.157	1.808	0.906	0.007
5.09	93.584	8.937	0.157	1.824	0.906	0.007
5.1	93.953	9.421	0.157	1.83	0.909	0.007
5.11	94.231	9.889	0.157	1.836	0.911	0.007
5.12	94.933	10.189	0.157	1.84	0.918	0.006
5.13	94.147	9.597	0.157	1.832	0.91	0.007
5.14	93.801	9.263	0.158	1.828	0.907	0.007
5.15	93.033	8.388	0.158	1.817	0.899	0.007
5.16	92.863	8.201	0.158	1.815	0.897	0.008
5.17	92.412	8.068	0.158	1.813	0.893	0.008
5.18	92.133	8.175	0.158	1.815	0.89	0.008
5.19	91.773	8.373	0.158	1.817	0.887	0.008
5.2	91.968	9.186	0.158	1.827	0.889	0.008
5.21	91.971	9.981	0.158	1.837	0.888	0.008
5.22	91.971	10.01	0.158	1.838	0.888	0.008
5.23	93.75	11.66	0.158	1.858	0.904	0.007
5.24	95.87	12.877	0.158	1.873	0.923	0.006
5.25	97.12	13.513	0.158	1.881	0.935	0.005

5.26	97.919	14.18	0.158	1.89	0.942	0.004
5.27	99.45	14.783	0.158	1.897	0.958	0.003
5.28	99.711	14.802	0.158	1.898	0.96	0.003
5.29	99.171	14.209	0.158	1.89	0.954	0.003
5.3	97.406	12.801	0.158	1.873	0.936	0.005
5.31	96.788	12.068	0.158	1.863	0.93	0.005
5.32	94.216	9.939	0.158	1.837	0.906	0.007
5.33	93.83	8.639	0.158	1.82	0.902	0.007
5.34	93.51	8.114	0.158	1.814	0.899	0.007
5.35	93.167	6.771	0.158	1.797	0.895	0.008
5.36	93.397	6.273	0.158	1.791	0.897	0.008
5.37	93.75	5.153	0.158	1.777	0.9	0.007
5.38	93.681	5.18	0.158	1.777	0.899	0.007
5.39	92.617	4.806	0.158	1.773	0.889	0.008
5.4	92.547	4.834	0.158	1.773	0.889	0.008
5.41	92.226	4.884	0.158	1.774	0.886	0.008
5.42	92.053	5.013	0.158	1.775	0.884	0.008
5.43	91.41	6.03	0.158	1.788	0.878	0.009
5.44	91.599	6.895	0.158	1.799	0.879	0.009
5.45	91.593	7.354	0.158	1.804	0.879	0.009
5.46	92.248	8.333	0.158	1.817	0.885	0.008
5.47	92.826	8.842	0.158	1.823	0.889	0.008
5.48	94.181	9.729	0.158	1.834	0.901	0.007
5.49	95.102	10.264	0.158	1.841	0.909	0.007
5.5	96.129	10.81	0.158	1.848	0.919	0.006
5.51	97.578	11.437	0.158	1.855	0.933	0.005
5.52	98.538	11.883	0.158	1.861	0.942	0.004
5.53	98.846	11.789	0.158	1.86	0.945	0.004
5.54	98.581	11.499	0.158	1.856	0.942	0.004
5.55	97.997	11.05	0.158	1.851	0.936	0.005
5.56	96.117	9.556	0.158	1.832	0.917	0.006
5.57	96.113	9.584	0.158	1.832	0.917	0.006
5.58	95.511	7.416	0.158	1.805	0.911	0.006
5.59	95.977	6.351	0.158	1.792	0.915	0.006
5.6	96.245	6.152	0.158	1.789	0.918	0.006
5.61	95.886	6.555	0.158	1.794	0.914	0.006
5.62	95.669	6.895	0.158	1.799	0.912	0.006
5.63	95.79	7.83	0.158	1.81	0.913	0.006
5.64	96.602	8.981	0.158	1.825	0.92	0.006
5.65	97.1	9.545	0.158	1.832	0.925	0.005
5.66	98.234	10.587	0.158	1.845	0.936	0.005
5.67	98.916	11.262	0.158	1.853	0.942	0.004
5.68	100.087	12.432	0.158	1.868	0.954	0.003
5.69	101.239	13.191	0.159	1.877	0.966	0.003
5.7	103.067	14.802	0.159	1.898	0.985	0.002
5.71	105.382	16.511	0.159	1.919	1.012	0.001
5.72	105.633	17.036	0.159	1.925	1.014	0.001
5.73	105.191	16.843	0.159	1.923	1.009	0.001
5.74	103.676	15.864	0.159	1.911	0.991	0.002
5.75	101.839	14.089	0.159	1.889	0.971	0.002
5.76	100.317	12.939	0.159	1.874	0.954	0.003
5.77	98.312	10.796	0.159	1.847	0.934	0.005
5.78	97.395	9.572	0.159	1.832	0.925	0.005
5.79	97.524	6.385	0.159	1.792	0.926	0.005

5.8	103.042	2.372	0.159	1.742	0.983	0.002
5.81	106.27	0.584	0.159	1.72	1.02	0.001
5.82	112.343	-2.774	0.159	1.678	N.C.	0.0
5.83	117.401	-5.434	0.159	1.645	N.C.	0.0
5.84	121.77	-7.604	0.159	1.617	N.C.	0.0
5.85	123.615	-8.323	0.159	1.608	N.C.	0.0
5.86	125.897	-8.697	0.159	1.604	N.C.	0.0
5.87	127.137	-8.868	0.159	1.602	N.C.	0.0
5.88	128.316	-8.926	0.159	1.601	N.C.	0.0
5.89	127.668	-8.644	0.159	1.604	N.C.	0.0
5.9	125.806	-7.683	0.159	1.616	N.C.	0.0
5.91	126.704	-7.18	0.159	1.623	N.C.	0.0
5.92	127.634	-6.713	0.159	1.629	N.C.	0.0
5.93	127.654	-6.326	0.159	1.633	N.C.	0.0
5.94	127.565	-6.302	0.159	1.634	N.C.	0.0
5.95	127.475	-6.279	0.159	1.634	N.C.	0.0
5.96	130.342	-9.46	0.159	1.594	N.C.	0.0
5.97	128.917	-9.009	0.159	1.6	N.C.	0.0
5.98	126.1	-7.832	0.159	1.615	N.C.	0.0
5.99	126.112	-6.772	0.159	1.628	N.C.	0.0
6.0	126.136	-6.545	0.159	1.631	N.C.	0.0
6.01	125.152	-5.245	0.159	1.647	N.C.	0.0
6.02	124.354	-3.958	0.159	1.663	N.C.	0.0
6.03	123.439	-3.499	0.159	1.669	N.C.	0.0
6.04	122.881	-3.123	0.159	1.673	N.C.	0.0
6.05	122.678	-2.981	0.159	1.675	N.C.	0.0
6.06	122.003	-2.593	0.159	1.68	N.C.	0.0
6.07	122.275	-2.158	0.159	1.686	N.C.	0.0
6.08	122.428	-2.06	0.159	1.687	N.C.	0.0
6.09	121.873	-1.637	0.159	1.692	N.C.	0.0
6.1	121.79	-1.136	0.159	1.698	N.C.	0.0
6.11	121.236	-0.868	0.159	1.702	N.C.	0.0
6.12	120.918	-0.396	0.159	1.708	N.C.	0.0
6.13	120.719	-0.348	0.159	1.708	N.C.	0.0
6.14	120.755	-0.07	0.159	1.712	N.C.	0.0
6.15	120.791	-0.117	0.159	1.711	N.C.	0.0
6.16	121.885	-0.882	0.159	1.701	N.C.	0.0
6.17	122.508	-1.175	0.159	1.698	N.C.	0.0
6.18	124.069	-1.882	0.159	1.689	N.C.	0.0
6.19	124.807	-2.258	0.159	1.684	N.C.	0.0
6.2	124.84	-2.238	0.159	1.685	N.C.	0.0
6.21	124.289	-2.017	0.159	1.687	N.C.	0.0
6.22	122.216	-0.835	0.159	1.702	N.C.	0.0
6.23	119.929	0.393	0.159	1.717	1.211	0.0
6.24	118.558	1.12	0.159	1.727	1.186	0.0
6.25	115.9	2.541	0.159	1.744	1.143	0.0
6.26	114.774	3.236	0.159	1.753	1.125	0.0
6.27	112.78	4.592	0.159	1.77	1.096	0.0
6.28	112.106	5.068	0.159	1.776	1.086	0.0
6.29	110.664	5.919	0.159	1.786	1.066	0.0
6.3	110.048	7.172	0.159	1.802	1.057	0.0
6.31	109.717	8.668	0.159	1.821	1.053	0.001
6.32	110.417	9.719	0.159	1.834	1.062	0.0
6.33	112.515	11.836	0.159	1.86	1.091	0.0

6.34	114.74	14.164	0.159	1.89	1.123	0.0
6.35	115.781	15.61	0.159	1.908	1.139	0.0
6.36	117.343	18.568	0.159	1.945	1.163	0.0
6.37	118.17	20.32	0.159	1.967	1.177	0.0
6.38	118.493	23.758	0.159	2.009	1.182	0.0
6.39	118.349	25.381	0.159	2.03	1.179	0.0
6.4	117.056	27.974	0.159	2.062	1.158	0.0
6.41	115.763	29.823	0.159	2.085	1.137	0.0
6.42	114.651	30.103	0.159	2.089	1.12	0.0
6.43	114.174	29.861	0.159	2.086	1.112	0.0
6.44	113.532	27.873	0.159	2.061	1.103	0.0
6.45	112.72	24.968	0.159	2.025	1.091	0.0
6.46	111.728	23.247	0.159	2.003	1.077	0.0
6.47	109.201	20.322	0.159	1.967	1.043	0.001
6.48	107.691	19.552	0.159	1.957	1.024	0.001
6.49	106.301	19.653	0.159	1.958	1.007	0.001
6.5	103.807	19.217	0.159	1.953	0.978	0.002
6.51	102.035	19.096	0.159	1.951	0.959	0.003
6.52	99.418	19.44	0.159	1.955	0.932	0.005
6.53	96.275	19.411	0.159	1.955	0.902	0.007
6.54	94.637	19.312	0.159	1.954	0.887	0.008
6.55	93.495	20.283	0.159	1.966	0.877	0.008
6.56	93.919	22.538	0.159	1.994	0.88	0.008
6.57	94.297	24.397	0.159	2.017	0.883	0.008
6.58	94.341	28.865	0.159	2.073	0.883	0.008
6.59	94.117	31.504	0.159	2.106	0.881	0.008
6.6	93.124	38.158	0.159	2.189	0.873	0.009
6.61	92.458	41.716	0.159	2.234	0.867	0.009
6.62	91.114	47.497	0.159	2.306	0.855	0.01
6.63	91.029	50.204	0.159	2.34	0.855	0.01
6.64	92.083	49.613	0.159	2.333	0.863	0.009
6.65	95.263	45.053	0.159	2.276	0.891	0.007
6.66	98.738	36.568	0.159	2.17	0.923	0.005
6.67	99.391	32.501	0.159	2.119	0.929	0.005
6.68	99.456	32.466	0.159	2.118	0.93	0.005
6.69	98.228	32.983	0.159	2.125	0.918	0.005
6.7	97.085	33.626	0.159	2.133	0.907	0.006
6.71	94.937	34.941	0.159	2.149	0.887	0.008
6.72	93.92	35.65	0.159	2.158	0.878	0.008
6.73	92.821	35.915	0.159	2.161	0.868	0.009
6.74	92.722	32.57	0.159	2.12	0.867	0.009
6.75	92.35	29.927	0.159	2.087	0.864	0.009
6.76	91.698	26.039	0.159	2.038	0.858	0.009
6.77	89.481	23.043	0.159	2.001	0.84	0.011
6.78	89.732	23.136	0.159	2.002	0.842	0.01
6.79	89.949	23.198	0.159	2.002	0.844	0.01
6.8	89.205	22.903	0.159	1.999	0.838	0.011
6.81	87.14	21.687	0.159	1.984	0.822	0.012
6.82	84.302	20.341	0.159	1.967	0.801	0.013
6.83	83.694	20.189	0.159	1.965	0.796	0.013
6.84	82.633	20.204	0.159	1.965	0.789	0.014
6.85	83.444	21.54	0.159	1.982	0.794	0.014
6.86	86.304	26.255	0.159	2.041	0.815	0.012
6.87	87.512	29.873	0.159	2.086	0.824	0.012

6.88	88.051	30.81	0.159	2.098	0.828	0.011
6.89	89.087	31.183	0.159	2.102	0.836	0.011
6.9	90.453	31.068	0.159	2.101	0.847	0.01
6.91	90.943	29.389	0.159	2.08	0.85	0.01
6.92	90.896	28.561	0.159	2.07	0.85	0.01
6.93	91.47	26.299	0.159	2.041	0.854	0.01
6.94	91.468	26.327	0.159	2.042	0.854	0.01
6.95	91.467	26.355	0.159	2.042	0.854	0.01
6.96	69.676	4.114	0.159	1.764	0.706	0.019
6.97	79.069	-1.763	0.159	1.69	N.C.	0.0
6.98	86.669	-4.969	0.159	1.65	N.C.	0.0
6.99	89.685	-6.259	0.159	1.634	N.C.	0.0
7.0	93.317	-7.385	0.159	1.62	N.C.	0.0
7.01	94.802	-7.563	0.159	1.618	N.C.	0.0
7.02	95.014	-6.44	0.159	1.632	N.C.	0.0
7.03	94.606	-6.07	0.159	1.637	N.C.	0.0
7.04	94.98	-7.621	0.159	1.617	N.C.	0.0
7.05	94.612	-6.948	0.159	1.626	N.C.	0.0
7.06	93.5	-5.633	0.159	1.642	N.C.	0.0
7.07	92.532	-4.246	0.159	1.659	N.C.	0.0
7.08	89.644	-0.337	0.159	1.708	N.C.	0.0
7.09	85.933	3.784	0.159	1.76	0.81	0.012
7.1	84.029	5.961	0.159	1.787	0.796	0.013
7.11	86.101	10.486	0.159	1.844	0.811	0.012
7.12	90.342	13.047	0.159	1.876	0.844	0.01
7.13	100.921	19.89	0.159	1.961	0.939	0.004
7.14	104.346	23.578	0.159	2.007	0.975	0.002
7.15	106.783	30.574	0.159	2.095	1.002	0.001
7.16	105.485	36.775	0.159	2.172	0.987	0.002
7.17	104.717	39.777	0.159	2.21	0.978	0.002
7.18	104.57	43.488	0.159	2.256	0.977	0.002
7.19	106.66	42.588	0.159	2.245	1.0	0.001
7.2	111.065	37.118	0.159	2.176	1.055	0.0
7.21	112.716	34.173	0.159	2.14	1.078	0.0
7.22	114.484	29.791	0.159	2.085	1.103	0.0
7.23	114.424	28.011	0.159	2.063	1.102	0.0
7.24	113.004	25.954	0.159	2.037	1.081	0.0
7.25	112.131	25.67	0.159	2.033	1.069	0.0
7.26	110.357	25.813	0.159	2.035	1.045	0.001
7.27	108.767	26.617	0.159	2.045	1.025	0.001
7.28	107.942	26.623	0.159	2.045	1.015	0.001
7.29	105.392	25.724	0.159	2.034	0.985	0.002
7.3	102.64	24.175	0.159	2.015	0.954	0.003
7.31	101.059	23.496	0.159	2.006	0.938	0.004
7.32	98.167	22.401	0.159	1.993	0.91	0.006
7.33	97.144	22.772	0.159	1.997	0.9	0.006
7.34	97.16	23.546	0.159	2.007	0.9	0.006
7.35	97.082	25.391	0.159	2.03	0.899	0.006
7.36	96.623	26.361	0.159	2.042	0.895	0.007
7.37	94.944	28.305	0.159	2.066	0.88	0.008
7.38	94.086	29.506	0.159	2.081	0.872	0.008
7.39	93.111	33.154	0.159	2.127	0.864	0.009
7.4	91.66	36.711	0.159	2.171	0.852	0.009
7.41	89.331	38.674	0.159	2.196	0.833	0.011

7.42	88.795	39.797	0.159	2.21	0.829	0.011
7.43	88.209	41.62	0.159	2.233	0.824	0.011
7.44	88.233	41.237	0.159	2.228	0.824	0.011
7.45	88.561	39.786	0.159	2.21	0.827	0.011
7.46	89.489	34.067	0.159	2.138	0.834	0.01
7.47	89.365	29.61	0.159	2.083	0.833	0.01
7.48	84.131	18.571	0.159	1.945	0.794	0.013
7.49	77.14	13.136	0.159	1.877	0.747	0.016
7.5	72.781	4.864	0.159	1.773	0.72	0.017
7.51	77.559	1.166	0.159	1.727	0.75	0.016
7.52	78.39	0.434	0.159	1.718	0.755	0.015
7.53	79.0	0.025	0.159	1.713	0.759	0.015
7.54	79.057	0.525	0.159	1.719	0.759	0.015
7.55	79.555	1.1	0.159	1.726	0.762	0.015
7.56	79.943	1.334	0.159	1.729	0.765	0.015
7.57	80.221	3.152	0.159	1.752	0.767	0.015
7.58	80.62	3.883	0.159	1.761	0.769	0.014
7.59	81.095	5.242	0.159	1.778	0.772	0.014
7.6	81.402	6.014	0.159	1.788	0.774	0.014
7.61	83.007	7.444	0.159	1.806	0.785	0.013
7.62	85.265	8.55	0.159	1.819	0.801	0.012
7.63	86.232	9.049	0.159	1.826	0.808	0.012
7.64	88.474	9.838	0.159	1.835	0.825	0.011
7.65	90.4	10.431	0.159	1.843	0.84	0.01
7.66	91.53	10.827	0.159	1.848	0.849	0.009
7.67	93.672	11.646	0.159	1.858	0.866	0.008
7.68	95.31	12.387	0.159	1.867	0.88	0.007
7.69	95.76	12.596	0.159	1.87	0.884	0.007
7.7	97.297	13.291	0.159	1.879	0.898	0.006
7.71	97.58	13.561	0.159	1.882	0.901	0.006
7.72	97.889	14.121	0.159	1.889	0.903	0.006
7.73	98.312	14.689	0.159	1.896	0.907	0.006
7.74	100.632	16.931	0.159	1.924	0.93	0.004
7.75	103.494	20.179	0.159	1.965	0.959	0.003
7.76	104.782	22.236	0.159	1.99	0.973	0.002
7.77	105.83	26.085	0.159	2.039	0.985	0.002
7.78	105.872	29.96	0.159	2.087	0.985	0.002
7.79	104.87	33.964	0.159	2.137	0.974	0.002
7.8	104.211	35.833	0.159	2.16	0.966	0.002
7.81	102.342	39.044	0.159	2.201	0.947	0.003
7.82	101.522	40.476	0.159	2.218	0.938	0.004
7.83	100.288	42.117	0.159	2.239	0.926	0.005
7.84	99.873	42.854	0.159	2.248	0.921	0.005
7.85	99.56	42.832	0.159	2.248	0.918	0.005
7.86	99.459	42.471	0.159	2.243	0.917	0.005
7.87	99.27	40.639	0.159	2.22	0.915	0.005
7.88	98.087	39.264	0.159	2.203	0.904	0.006
7.89	97.142	39.083	0.159	2.201	0.895	0.006
7.9	95.158	39.235	0.159	2.203	0.877	0.007
7.91	92.499	40.095	0.159	2.214	0.855	0.009
7.92	89.721	42.581	0.159	2.245	0.833	0.01
7.93	88.459	44.581	0.159	2.27	0.823	0.011
7.94	88.447	44.608	0.159	2.27	0.823	0.011
7.95	88.435	44.635	0.159	2.27	0.822	0.011

7.96	75.804	63.712	0.159	2.509	0.736	0.016
7.97	75.2	69.002	0.159	2.575	0.733	0.016
7.98	73.629	79.321	0.159	2.704	N.L.	0.0
7.99	72.008	91.866	0.159	2.861	N.L.	0.0
8.0	70.155	107.094	0.159	3.051	N.L.	0.0
8.01	69.542	110.854	0.159	3.098	N.L.	0.0
8.02	69.143	114.049	0.159	3.138	N.L.	0.0
8.03	69.043	115.169	0.159	3.152	N.L.	0.0
8.04	68.562	117.605	0.159	3.183	N.L.	0.0
8.05	68.277	118.87	0.159	3.198	N.L.	0.0
8.06	68.491	115.374	0.159	3.155	N.L.	0.0
8.07	71.586	97.181	0.159	2.927	N.L.	0.0
8.08	74.217	86.198	0.159	2.79	N.L.	0.0
8.09	79.878	65.915	0.159	2.536	0.761	0.014
8.1	83.563	51.756	0.159	2.359	0.786	0.013
8.11	84.337	46.473	0.159	2.293	0.791	0.012
8.12	84.227	45.557	0.159	2.282	0.791	0.012
8.13	82.233	43.348	0.159	2.254	0.777	0.013
8.14	80.309	41.71	0.159	2.234	0.764	0.014
8.15	78.084	42.544	0.159	2.244	0.75	0.015
8.16	76.607	41.799	0.159	2.235	0.74	0.015
8.17	73.853	40.168	0.159	2.215	0.723	0.016
8.18	72.742	39.461	0.159	2.206	0.717	0.017
8.19	71.113	38.604	0.159	2.195	0.707	0.017
8.2	71.165	39.001	0.159	2.2	0.708	0.017
8.21	72.832	38.817	0.159	2.198	0.717	0.017
8.22	74.241	38.185	0.159	2.19	0.726	0.016
8.23	77.385	35.26	0.159	2.153	0.745	0.015
8.24	81.794	34.676	0.159	2.146	0.773	0.013
8.25	84.849	36.973	0.159	2.175	0.794	0.012
8.26	87.422	39.18	0.159	2.202	0.813	0.011
8.27	88.302	39.938	0.159	2.212	0.819	0.011
8.28	88.842	40.17	0.159	2.215	0.823	0.01
8.29	88.948	39.757	0.159	2.209	0.824	0.01
8.3	88.206	35.948	0.159	2.162	0.818	0.011
8.31	83.708	27.921	0.159	2.062	0.786	0.013
8.32	82.715	25.629	0.159	2.033	0.779	0.013
8.33	81.051	20.973	0.159	1.975	0.768	0.014
8.34	81.31	17.982	0.159	1.937	0.77	0.013
8.35	83.941	17.867	0.159	1.936	0.788	0.012
8.36	88.102	17.198	0.159	1.927	0.818	0.011
8.37	88.32	15.415	0.159	1.905	0.819	0.011
8.38	88.074	14.674	0.159	1.896	0.817	0.011
8.39	84.984	12.783	0.159	1.872	0.795	0.012
8.4	83.867	12.156	0.159	1.864	0.787	0.012
8.41	86.053	12.52	0.159	1.869	0.802	0.011
8.42	87.068	12.505	0.159	1.869	0.81	0.011
8.43	86.687	11.456	0.159	1.856	0.807	0.011
8.44	87.858	11.073	0.159	1.851	0.815	0.011
8.45	88.252	10.812	0.159	1.848	0.818	0.01
8.46	89.439	10.51	0.159	1.844	0.827	0.01
8.47	91.401	10.658	0.159	1.846	0.843	0.009
8.48	92.436	10.829	0.159	1.848	0.851	0.009
8.49	93.512	10.808	0.159	1.848	0.86	0.008

8.5	93.081	9.943	0.159	1.837	0.856	0.008
8.51	92.337	9.176	0.158	1.827	0.85	0.009
8.52	91.979	7.864	0.158	1.811	0.847	0.009
8.53	92.686	7.686	0.158	1.809	0.853	0.008
8.54	94.025	7.205	0.158	1.803	0.864	0.008
8.55	94.247	6.83	0.158	1.798	0.866	0.008
8.56	95.607	6.884	0.158	1.799	0.878	0.007
8.57	97.286	7.64	0.158	1.808	0.892	0.006
8.58	98.306	8.197	0.158	1.815	0.902	0.006
8.59	100.584	9.188	0.158	1.827	0.923	0.004
8.6	102.82	9.861	0.158	1.836	0.946	0.003
8.61	104.236	10.249	0.158	1.841	0.961	0.002
8.62	105.481	10.636	0.158	1.845	0.974	0.002
8.63	108.251	11.387	0.158	1.855	1.006	0.001
8.64	109.528	11.684	0.158	1.859	1.022	0.001
8.65	111.56	11.976	0.158	1.862	1.048	0.0
8.66	112.251	12.112	0.158	1.864	1.057	0.0
8.67	114.07	12.406	0.158	1.868	1.082	0.0
8.68	115.053	12.632	0.158	1.87	1.096	0.0
8.69	115.775	12.397	0.158	1.867	1.106	0.0
8.7	115.24	11.969	0.158	1.862	1.099	0.0
8.71	115.823	12.308	0.158	1.866	1.107	0.0
8.72	118.637	13.902	0.158	1.886	1.151	0.0
8.73	121.349	15.935	0.158	1.912	1.197	0.0
8.74	124.043	17.83	0.158	1.935	1.246	0.0
8.75	124.602	18.538	0.158	1.944	1.257	0.0
8.76	125.131	19.083	0.158	1.951	1.268	0.0
8.77	125.18	18.985	0.158	1.95	1.269	0.0
8.78	124.659	18.31	0.158	1.941	1.258	0.0
8.79	124.034	17.793	0.158	1.935	1.246	0.0
8.8	123.324	16.857	0.158	1.923	1.232	0.0
8.81	121.755	15.533	0.158	1.907	1.203	0.0
8.82	121.242	15.124	0.158	1.902	1.194	0.0
8.83	121.297	15.232	0.158	1.903	1.195	0.0
8.84	121.676	15.558	0.158	1.907	1.202	0.0
8.85	121.446	16.099	0.158	1.914	1.198	0.0
8.86	120.842	16.486	0.158	1.919	1.187	0.0
8.87	119.367	16.536	0.158	1.919	1.162	0.0
8.88	118.809	16.672	0.158	1.921	1.153	0.0
8.89	118.97	17.524	0.158	1.932	1.155	0.0
8.9	118.842	17.919	0.158	1.936	1.153	0.0
8.91	119.918	19.549	0.158	1.957	1.171	0.0
8.92	120.204	20.335	0.158	1.967	1.176	0.0
8.93	120.203	20.354	0.158	1.967	1.176	0.0
8.94	120.203	20.374	0.158	1.967	1.176	0.0
8.95	110.944	30.658	0.158	2.096	1.039	0.001
8.96	108.499	39.056	0.158	2.201	1.008	0.001
8.97	106.226	44.239	0.158	2.265	0.982	0.002
8.98	98.548	58.687	0.158	2.446	0.903	0.005
8.99	94.303	66.797	0.158	2.547	0.865	0.007
9.0	87.659	80.939	0.158	2.724	N.L.	0.0
9.01	86.594	83.983	0.158	2.762	N.L.	0.0
9.02	86.943	84.853	0.158	2.773	N.L.	0.0
9.03	96.962	68.532	0.158	2.569	0.888	0.006

9.04	103.67	58.248	0.158	2.441	0.953	0.003
9.05	116.74	39.498	0.158	2.206	1.119	0.0
9.06	119.863	32.984	0.158	2.125	1.169	0.0
9.07	119.536	25.828	0.158	2.035	1.164	0.0
9.08	115.893	22.228	0.158	1.99	1.106	0.0
9.09	111.558	19.979	0.158	1.962	1.046	0.0
9.1	109.812	19.382	0.158	1.955	1.024	0.001
9.11	104.375	17.598	0.158	1.932	0.961	0.002
9.12	100.202	16.523	0.158	1.919	0.918	0.004
9.13	98.591	16.235	0.158	1.915	0.903	0.005
9.14	97.656	16.563	0.158	1.92	0.894	0.006
9.15	98.798	17.41	0.158	1.93	0.905	0.005
9.16	101.675	19.581	0.158	1.957	0.933	0.004
9.17	102.371	20.549	0.158	1.969	0.94	0.003
9.18	105.009	23.816	0.158	2.01	0.967	0.002
9.19	105.559	26.76	0.158	2.047	0.974	0.002
9.2	105.899	28.648	0.158	2.071	0.977	0.002
9.21	104.732	32.367	0.158	2.117	0.964	0.002
9.22	103.05	39.108	0.158	2.201	0.947	0.003
9.23	101.296	42.944	0.158	2.249	0.929	0.004
9.24	96.942	51.003	0.158	2.35	0.888	0.006
9.25	90.83	62.83	0.158	2.498	0.837	0.009
9.26	87.616	69.465	0.158	2.581	0.812	0.01
9.27	81.871	82.531	0.158	2.744	N.L.	0.0
9.28	79.93	88.123	0.158	2.814	N.L.	0.0
9.29	76.295	99.251	0.158	2.953	N.L.	0.0
9.3	74.76	104.703	0.158	3.021	N.L.	0.0
9.31	72.641	114.239	0.158	3.14	N.L.	0.0
9.32	71.895	117.265	0.158	3.178	N.L.	0.0
9.33	70.82	121.639	0.158	3.233	N.L.	0.0
9.34	69.577	128.533	0.158	3.319	N.L.	0.0
9.35	69.026	131.22	0.157	3.353	N.L.	0.0
9.36	67.97	135.684	0.157	3.409	N.L.	0.0
9.37	67.321	136.382	0.157	3.417	N.L.	0.0
9.38	67.568	132.432	0.157	3.368	N.L.	0.0
9.39	69.617	114.306	0.157	3.141	N.L.	0.0
9.4	76.572	81.14	0.157	2.727	N.L.	0.0
9.41	81.342	65.763	0.157	2.535	0.768	0.012
9.42	87.825	43.596	0.157	2.257	0.813	0.01
9.43	88.696	37.556	0.157	2.182	0.82	0.01
9.44	83.482	28.835	0.157	2.073	0.783	0.011
9.45	82.397	28.191	0.157	2.065	0.775	0.012
9.46	77.88	26.48	0.157	2.044	0.746	0.013
9.47	76.645	26.627	0.157	2.045	0.739	0.014
9.48	77.732	29.696	0.157	2.084	0.745	0.013
9.49	79.031	34.044	0.157	2.138	0.753	0.013
9.5	79.18	36.291	0.157	2.166	0.754	0.013
9.51	79.072	42.43	0.157	2.243	0.754	0.013
9.52	78.333	50.97	0.157	2.35	0.749	0.013
9.53	77.589	56.04	0.157	2.413	0.744	0.013
9.54	76.133	66.106	0.157	2.539	0.735	0.014
9.55	74.277	77.608	0.157	2.683	N.L.	0.0
9.56	73.365	83.495	0.157	2.756	N.L.	0.0
9.57	71.891	95.161	0.157	2.902	N.L.	0.0

9.58	70.915	102.003	0.157	2.988	N.L.	0.0
9.59	69.602	111.085	0.157	3.101	N.L.	0.0
9.6	68.994	114.113	0.157	3.139	N.L.	0.0
9.61	68.11	118.259	0.157	3.191	N.L.	0.0
9.62	67.07	125.847	0.157	3.286	N.L.	0.0
9.63	66.394	131.631	0.157	3.358	N.L.	0.0
9.64	65.718	136.77	0.157	3.422	N.L.	0.0
9.65	65.478	137.709	0.157	3.434	N.L.	0.0
9.66	64.997	140.33	0.157	3.467	N.L.	0.0
9.67	64.814	139.462	0.157	3.456	N.L.	0.0
9.68	64.663	139.129	0.157	3.452	N.L.	0.0
9.69	64.439	137.041	0.157	3.426	N.L.	0.0
9.7	64.593	129.0	0.157	3.325	N.L.	0.0
9.71	64.728	124.021	0.157	3.263	N.L.	0.0
9.72	64.892	115.506	0.157	3.156	N.L.	0.0
9.73	65.076	110.316	0.157	3.091	N.L.	0.0
9.74	64.809	103.815	0.157	3.01	N.L.	0.0
9.75	64.577	101.976	0.157	2.987	N.L.	0.0
9.76	64.412	103.042	0.157	3.001	N.L.	0.0
9.77	64.412	101.508	0.157	2.981	N.L.	0.0
9.78	63.806	95.587	0.157	2.907	N.L.	0.0
9.79	63.252	93.931	0.157	2.887	N.L.	0.0
9.8	63.094	91.017	0.157	2.85	N.L.	0.0
9.81	63.255	90.214	0.157	2.84	N.L.	0.0
9.82	62.925	86.978	0.157	2.8	N.L.	0.0
9.83	62.824	85.899	0.157	2.786	N.L.	0.0
9.84	63.012	91.469	0.157	2.856	N.L.	0.0
9.85	63.107	95.42	0.157	2.905	N.L.	0.0
9.86	63.508	98.975	0.157	2.95	N.L.	0.0
9.87	63.527	96.399	0.157	2.917	N.L.	0.0
9.88	63.705	93.8	0.157	2.885	N.L.	0.0
9.89	64.206	88.882	0.157	2.824	N.L.	0.0
9.9	64.563	87.474	0.157	2.806	N.L.	0.0
9.91	64.897	88.011	0.157	2.813	N.L.	0.0
9.92	64.979	88.729	0.157	2.822	N.L.	0.0
9.93	64.977	88.767	0.157	2.822	N.L.	0.0
9.94	64.974	88.805	0.157	2.823	N.L.	0.0
9.95	64.859	115.1	0.157	3.151	N.L.	0.0
9.96	64.87	120.196	0.157	3.215	N.L.	0.0
9.97	64.816	119.445	0.157	3.206	N.L.	0.0
9.98	64.795	117.109	0.157	3.176	N.L.	0.0
9.99	65.055	113.222	0.157	3.128	N.L.	0.0
10.0	64.963	111.887	0.157	3.111	N.L.	0.0
10.01	64.938	113.85	0.157	3.136	N.L.	0.0
10.02	65.006	111.44	0.157	3.106	N.L.	0.0
10.03	64.721	109.342	0.157	3.079	N.L.	0.0
10.04	64.343	107.306	0.157	3.054	N.L.	0.0
10.05	64.086	109.08	0.157	3.076	N.L.	0.0
10.06	63.933	111.234	0.157	3.103	N.L.	0.0
10.07	63.898	110.885	0.157	3.099	N.L.	0.0
10.08	63.372	103.32	0.157	3.004	N.L.	0.0
10.09	63.215	101.389	0.157	2.98	N.L.	0.0
10.1	63.048	100.959	0.157	2.974	N.L.	0.0
10.11	62.947	99.815	0.157	2.96	N.L.	0.0

10.12	62.971	100.224	0.157	2.965	N.L.	0.0
10.13	62.993	100.646	0.157	2.971	N.L.	0.0
10.14	62.977	102.238	0.157	2.99	N.L.	0.0
10.15	62.922	103.304	0.157	3.004	N.L.	0.0
10.16	62.868	102.719	0.157	2.996	N.L.	0.0
10.17	62.794	101.902	0.157	2.986	N.L.	0.0
10.18	62.57	99.141	0.157	2.952	N.L.	0.0
10.19	62.728	99.802	0.157	2.96	N.L.	0.0
10.2	62.66	96.09	0.157	2.914	N.L.	0.0
10.21	64.224	77.634	0.157	2.683	N.L.	0.0
10.22	66.078	61.376	0.157	2.48	0.678	0.016
10.23	68.357	38.95	0.157	2.199	0.691	0.015
10.24	69.046	31.511	0.157	2.106	0.694	0.015
10.25	66.425	22.272	0.157	1.991	0.68	0.016
10.26	63.16	18.379	0.156	1.942	0.663	0.016
10.27	62.306	17.449	0.156	1.931	0.659	0.017
10.28	60.881	16.253	0.156	1.916	0.651	0.017
10.29	60.065	15.563	0.156	1.907	0.647	0.017
10.3	61.071	15.738	0.156	1.909	0.652	0.017
10.31	58.64	14.272	0.156	1.891	0.64	0.017
10.32	64.004	16.291	0.156	1.916	0.668	0.016
10.33	67.596	18.107	0.156	1.939	0.687	0.015
10.34	77.312	26.187	0.156	2.04	0.743	0.012
10.35	80.408	32.051	0.156	2.113	0.762	0.011
10.36	81.989	43.798	0.156	2.26	0.772	0.011
10.37	80.78	50.736	0.156	2.347	0.765	0.011
10.38	77.512	65.233	0.156	2.528	0.744	0.012
10.39	75.582	71.838	0.156	2.61	N.L.	0.0
10.4	71.95	87.983	0.156	2.812	N.L.	0.0
10.41	69.755	101.818	0.156	2.985	N.L.	0.0
10.42	68.893	107.046	0.156	3.051	N.L.	0.0
10.43	68.069	114.18	0.156	3.14	N.L.	0.0
10.44	67.801	118.525	0.156	3.194	N.L.	0.0
10.45	67.483	122.159	0.156	3.239	N.L.	0.0
10.46	66.399	133.938	0.156	3.387	N.L.	0.0
10.47	65.879	140.091	0.156	3.464	N.L.	0.0
10.48	64.733	148.124	0.156	3.564	N.L.	0.0
10.49	64.689	145.791	0.156	3.535	N.L.	0.0
10.5	64.733	143.67	0.156	3.508	N.L.	0.0
10.51	64.974	137.106	0.156	3.426	N.L.	0.0
10.52	65.177	133.429	0.156	3.38	N.L.	0.0
10.53	65.993	122.538	0.156	3.244	N.L.	0.0
10.54	66.508	116.465	0.156	3.168	N.L.	0.0
10.55	68.413	100.132	0.156	2.964	N.L.	0.0
10.56	69.615	91.407	0.156	2.855	N.L.	0.0
10.57	70.751	82.738	0.156	2.747	N.L.	0.0
10.58	70.458	80.932	0.156	2.724	N.L.	0.0
10.59	70.042	82.051	0.156	2.738	N.L.	0.0
10.6	68.41	81.903	0.156	2.736	N.L.	0.0
10.61	66.946	84.961	0.156	2.775	N.L.	0.0
10.62	66.62	90.285	0.156	2.841	N.L.	0.0
10.63	66.107	104.997	0.156	3.025	N.L.	0.0
10.64	65.912	111.548	0.156	3.107	N.L.	0.0
10.65	65.808	118.713	0.156	3.196	N.L.	0.0

10.66	65.781	118.648	0.156	3.196	N.L.	0.0
10.67	66.0	116.26	0.156	3.166	N.L.	0.0
10.68	66.359	112.433	0.156	3.118	N.L.	0.0
10.69	66.508	111.092	0.156	3.101	N.L.	0.0
10.7	66.412	111.674	0.156	3.108	N.L.	0.0
10.71	66.276	111.553	0.156	3.107	N.L.	0.0
10.72	65.485	108.936	0.156	3.074	N.L.	0.0
10.73	65.203	105.019	0.156	3.025	N.L.	0.0
10.74	66.177	90.858	0.156	2.848	N.L.	0.0
10.75	69.8	62.348	0.156	2.492	0.7	0.014
10.76	71.969	47.657	0.156	2.308	0.712	0.013
10.77	75.216	34.555	0.156	2.144	0.731	0.012
10.78	77.225	31.947	0.156	2.112	0.743	0.012
10.79	78.485	36.125	0.156	2.164	0.751	0.011
10.8	77.649	45.108	0.156	2.276	0.745	0.012
10.81	75.957	50.306	0.156	2.341	0.735	0.012
10.82	75.738	56.148	0.156	2.414	0.734	0.012
10.83	74.267	64.073	0.156	2.513	0.725	0.013
10.84	74.123	62.974	0.156	2.5	0.724	0.013
10.85	78.202	54.861	0.156	2.398	0.749	0.011
10.86	80.403	48.515	0.156	2.319	0.763	0.011
10.87	84.922	37.619	0.156	2.183	0.793	0.009
10.88	87.599	34.839	0.156	2.148	0.812	0.009
10.89	92.948	33.727	0.155	2.134	0.853	0.007
10.9	96.276	37.77	0.155	2.185	0.881	0.005
10.91	95.824	38.617	0.155	2.195	0.877	0.006
10.92	95.814	38.637	0.155	2.195	0.877	0.006
10.93	95.805	38.657	0.155	2.196	0.877	0.006
10.94	105.021	20.666	0.155	1.971	0.966	0.002
10.95	110.089	21.985	0.155	1.987	1.024	0.001
10.96	117.618	28.953	0.155	2.074	1.128	0.0
10.97	117.882	33.308	0.155	2.129	1.132	0.0
10.98	113.326	43.713	0.155	2.259	1.066	0.0
10.99	104.944	55.917	0.155	2.411	0.965	0.002
11.0	96.44	67.27	0.155	2.553	0.883	0.005
11.01	93.267	71.015	0.155	2.6	N.L.	0.0
11.02	89.163	73.625	0.155	2.633	N.L.	0.0
11.03	88.74	72.647	0.155	2.621	N.L.	0.0
11.04	88.194	68.543	0.155	2.569	0.817	0.008
11.05	88.086	65.35	0.155	2.529	0.816	0.008
11.06	88.089	66.705	0.155	2.546	0.816	0.008
11.07	84.089	73.716	0.155	2.634	N.L.	0.0
11.08	81.449	76.335	0.155	2.667	N.L.	0.0
11.09	75.828	78.28	0.155	2.691	N.L.	0.0
11.1	73.712	80.61	0.155	2.72	N.L.	0.0
11.11	70.822	90.301	0.155	2.841	N.L.	0.0
11.12	69.681	97.365	0.155	2.93	N.L.	0.0
11.13	67.584	114.473	0.155	3.143	N.L.	0.0
11.14	65.702	131.689	0.155	3.359	N.L.	0.0
11.15	65.263	135.76	0.155	3.41	N.L.	0.0
11.16	65.153	136.158	0.155	3.414	N.L.	0.0
11.17	65.103	134.975	0.155	3.4	N.L.	0.0
11.18	65.435	128.846	0.155	3.323	N.L.	0.0
11.19	68.009	107.233	0.155	3.053	N.L.	0.0

11.2	73.999	78.685	0.155	2.696	N.L.	0.0
11.21	78.53	64.79	0.155	2.522	0.752	0.011
11.22	86.192	40.051	0.155	2.213	0.803	0.009
11.23	85.482	30.519	0.155	2.094	0.798	0.009
11.24	77.351	19.238	0.155	1.953	0.745	0.011
11.25	74.471	16.86	0.155	1.923	0.728	0.012
11.26	70.77	14.028	0.155	1.888	0.707	0.013
11.27	69.695	13.085	0.155	1.876	0.701	0.013
11.28	66.341	11.008	0.155	1.85	0.683	0.014
11.29	70.31	11.484	0.155	1.856	0.704	0.013
11.3	71.737	11.466	0.155	1.856	0.712	0.013
11.31	72.311	10.608	0.155	1.845	0.716	0.012
11.32	75.509	10.912	0.155	1.849	0.734	0.012
11.33	77.079	11.129	0.155	1.852	0.744	0.011
11.34	80.138	11.821	0.155	1.86	0.763	0.01
11.35	82.914	12.797	0.155	1.872	0.781	0.009
11.36	90.767	15.412	0.155	1.905	0.837	0.007
11.37	93.156	16.283	0.155	1.916	0.856	0.006
11.38	94.568	16.802	0.155	1.923	0.868	0.006
11.39	95.523	17.116	0.155	1.926	0.876	0.005
11.4	96.886	17.674	0.154	1.933	0.888	0.005
11.41	100.696	19.208	0.154	1.953	0.923	0.003
11.42	101.825	19.818	0.154	1.96	0.934	0.003
11.43	104.116	21.472	0.154	1.981	0.958	0.002
11.44	107.416	24.059	0.154	2.013	0.994	0.001
11.45	108.354	25.239	0.154	2.028	1.005	0.001
11.46	109.714	27.666	0.154	2.058	1.021	0.001
11.47	110.184	28.971	0.154	2.075	1.027	0.001
11.48	110.638	32.756	0.154	2.122	1.033	0.0
11.49	110.509	33.452	0.154	2.131	1.031	0.0
11.5	110.248	34.033	0.154	2.138	1.028	0.001
11.51	109.898	35.171	0.154	2.152	1.024	0.001
11.52	109.593	35.498	0.154	2.156	1.02	0.001
11.53	108.876	35.876	0.154	2.161	1.011	0.001
11.54	108.445	36.064	0.154	2.163	1.006	0.001
11.55	107.476	36.844	0.154	2.173	0.995	0.001
11.56	106.97	37.683	0.154	2.184	0.989	0.001
11.57	105.49	40.111	0.154	2.214	0.973	0.001
11.58	103.042	43.022	0.154	2.25	0.947	0.002
11.59	101.572	44.664	0.154	2.271	0.933	0.003
11.6	99.651	48.344	0.154	2.317	0.914	0.004
11.61	99.803	49.017	0.154	2.325	0.916	0.004
11.62	101.017	47.163	0.154	2.302	0.927	0.003
11.63	104.385	39.977	0.154	2.212	0.961	0.002
11.64	107.843	33.643	0.154	2.133	1.0	0.001
11.65	109.259	31.559	0.154	2.107	1.016	0.001
11.66	111.67	27.383	0.154	2.055	1.046	0.0
11.67	110.763	24.548	0.154	2.019	1.035	0.0
11.68	108.961	21.01	0.154	1.975	1.013	0.001
11.69	107.598	19.33	0.154	1.954	0.997	0.001
11.7	103.518	15.739	0.154	1.909	0.953	0.002
11.71	101.623	14.335	0.154	1.892	0.934	0.003
11.72	96.205	11.213	0.154	1.853	0.884	0.005
11.73	93.362	8.865	0.154	1.823	0.86	0.006

11.74	92.827	8.216	0.154	1.815	0.856	0.006
11.75	93.174	7.873	0.154	1.811	0.859	0.006
11.76	94.103	8.214	0.154	1.815	0.866	0.006
11.77	97.247	9.357	0.154	1.829	0.893	0.004
11.78	99.535	9.955	0.154	1.837	0.914	0.004
11.79	99.536	9.971	0.154	1.837	0.914	0.004
11.8	97.937	8.407	0.154	1.818	0.9	0.004
11.81	100.218	8.388	0.154	1.817	0.921	0.003
11.82	101.812	8.589	0.154	1.82	0.936	0.003
11.83	104.498	9.488	0.153	1.831	0.964	0.002
11.84	113.279	11.827	0.153	1.86	1.069	0.0
11.85	115.407	12.398	0.153	1.867	1.099	0.0
11.86	117.186	12.822	0.153	1.873	1.125	0.0
11.87	120.935	13.698	0.153	1.884	1.185	0.0
11.88	124.689	14.744	0.153	1.897	1.254	0.0
11.89	126.027	15.06	0.153	1.901	1.28	0.0
11.9	127.564	15.292	0.153	1.904	1.312	0.0
11.91	129.622	15.977	0.153	1.912	1.358	0.0
11.92	129.627	15.992	0.153	1.912	1.358	0.0
11.93	129.631	16.007	0.153	1.913	1.358	0.0
11.94	121.554	13.129	0.153	1.877	1.196	0.0
11.95	123.726	13.877	0.153	1.886	1.236	0.0
11.96	124.195	14.127	0.153	1.889	1.245	0.0
11.97	127.743	15.861	0.153	1.911	1.316	0.0
11.98	129.902	16.907	0.153	1.924	1.364	0.0
11.99	131.904	17.954	0.153	1.937	1.412	0.0
12.0	134.312	18.615	0.153	1.945	1.475	0.0
12.01	134.87	18.61	0.153	1.945	1.49	0.0
12.02	135.169	18.356	0.153	1.942	1.499	0.0
12.03	134.559	17.212	0.153	1.928	1.482	0.0
12.04	134.187	16.789	0.153	1.922	1.472	0.0
12.05	134.36	16.425	0.153	1.918	1.477	0.0
12.06	135.395	16.584	0.153	1.92	1.505	0.0
12.07	136.096	16.665	0.153	1.921	1.525	0.0
12.08	136.139	16.263	0.153	1.916	1.527	0.0
12.09	136.531	16.21	0.153	1.915	1.538	0.0
12.1	136.298	15.794	0.153	1.91	1.531	0.0
12.11	135.842	15.536	0.153	1.907	1.518	0.0
12.12	135.576	15.402	0.153	1.905	1.511	0.0
12.13	135.111	14.962	0.153	1.9	1.498	0.0
12.14	134.682	14.751	0.153	1.897	1.486	0.0
12.15	134.615	14.622	0.153	1.895	1.484	0.0
12.16	134.959	14.741	0.153	1.897	1.494	0.0
12.17	136.115	15.419	0.153	1.905	1.527	0.0
12.18	136.797	16.06	0.153	1.913	1.547	0.0
12.19	137.169	16.389	0.153	1.917	1.558	0.0
12.2	137.37	16.8	0.153	1.922	1.564	0.0
12.21	137.066	16.979	0.153	1.925	1.555	0.0
12.22	138.73	18.246	0.153	1.941	1.607	0.0
12.23	138.432	18.483	0.153	1.944	1.597	0.0
12.24	139.587	19.716	0.152	1.959	1.635	0.0
12.25	139.052	20.216	0.152	1.965	1.617	0.0
12.26	138.585	20.506	0.152	1.969	1.602	0.0
12.27	138.591	21.504	0.152	1.981	1.603	0.0

12.28	136.899	21.549	0.152	1.982	1.55	0.0
12.29	136.477	21.797	0.152	1.985	1.538	0.0
12.3	135.329	22.443	0.152	1.993	1.505	0.0
12.31	134.865	22.997	0.152	2.0	1.492	0.0
12.32	133.394	24.792	0.152	2.022	1.453	0.0
12.33	130.708	26.983	0.152	2.05	1.386	0.0
12.34	130.7	26.999	0.152	2.05	1.386	0.0
12.35	127.291	27.552	0.152	2.057	1.309	0.0
12.36	123.073	27.45	0.152	2.056	1.226	0.0
12.37	121.989	27.985	0.152	2.062	1.207	0.0
12.38	117.894	28.148	0.152	2.064	1.139	0.0
12.39	115.284	28.849	0.152	2.073	1.101	0.0
12.4	114.551	29.131	0.152	2.077	1.09	0.0
12.41	112.967	29.684	0.152	2.084	1.069	0.0
12.42	111.358	30.226	0.152	2.09	1.048	0.0
12.43	111.088	31.34	0.152	2.104	1.044	0.0
12.44	110.648	31.752	0.152	2.109	1.039	0.0
12.45	110.204	32.593	0.152	2.12	1.033	0.0
12.46	109.855	32.807	0.152	2.123	1.029	0.0
12.47	109.459	33.647	0.152	2.133	1.024	0.0
12.48	109.802	34.514	0.152	2.144	1.029	0.0
12.49	110.233	36.046	0.152	2.163	1.034	0.0
12.5	110.285	36.674	0.152	2.171	1.035	0.0
12.51	110.551	37.891	0.152	2.186	1.038	0.0
12.52	110.697	38.565	0.152	2.195	1.04	0.0
12.53	110.497	39.082	0.152	2.201	1.038	0.0
12.54	110.613	39.281	0.152	2.204	1.039	0.0
12.55	110.572	39.101	0.152	2.201	1.039	0.0
12.56	110.579	38.839	0.152	2.198	1.039	0.0
12.57	110.442	38.381	0.152	2.192	1.037	0.0
12.58	110.439	38.262	0.152	2.191	1.037	0.0
12.59	110.433	37.28	0.152	2.178	1.037	0.0
12.6	110.505	36.315	0.152	2.166	1.038	0.0
12.61	110.464	35.776	0.152	2.16	1.038	0.0
12.62	110.604	34.725	0.152	2.147	1.04	0.0
12.63	110.571	34.359	0.152	2.142	1.039	0.0
12.64	110.762	34.013	0.152	2.138	1.042	0.0
12.65	110.914	33.747	0.151	2.134	1.044	0.0
12.66	111.045	32.701	0.151	2.121	1.045	0.0
12.67	111.028	32.087	0.151	2.114	1.045	0.0
12.68	111.251	30.939	0.151	2.099	1.048	0.0
12.69	111.533	30.283	0.151	2.091	1.052	0.0
12.7	111.658	29.963	0.151	2.087	1.054	0.0
12.71	111.88	29.386	0.151	2.08	1.056	0.0
12.72	111.925	29.19	0.151	2.077	1.057	0.0
12.73	112.273	28.741	0.151	2.072	1.062	0.0
12.74	112.82	28.539	0.151	2.069	1.069	0.0
12.75	113.164	28.665	0.151	2.071	1.074	0.0
12.76	113.706	29.112	0.151	2.076	1.081	0.0
12.77	113.98	29.27	0.151	2.078	1.085	0.0
12.78	113.821	29.249	0.151	2.078	1.083	0.0
12.79	114.03	29.189	0.151	2.077	1.086	0.0
12.8	114.49	29.245	0.151	2.078	1.092	0.0
12.81	115.278	28.657	0.151	2.071	1.104	0.0

12.82	115.569	28.346	0.151	2.067	1.108	0.0
12.83	116.291	27.234	0.151	2.053	1.119	0.0
12.84	116.781	26.392	0.151	2.042	1.126	0.0
12.85	116.697	24.503	0.151	2.019	1.125	0.0
12.86	116.733	23.226	0.151	2.003	1.125	0.0
12.87	115.486	20.636	0.151	1.97	1.107	0.0
12.88	114.344	18.877	0.151	1.948	1.091	0.0
12.89	112.432	17.411	0.151	1.93	1.065	0.0
12.9	106.585	14.192	0.151	1.89	0.994	0.001
12.91	106.595	14.207	0.151	1.89	0.994	0.001
12.92	106.605	14.221	0.151	1.89	0.995	0.001
12.93	91.436	5.172	0.151	1.777	0.853	0.005
12.94	92.045	4.595	0.151	1.77	0.858	0.005
12.95	93.149	5.761	0.151	1.785	0.867	0.005
12.96	93.758	5.986	0.151	1.787	0.872	0.005
12.97	94.779	6.266	0.151	1.791	0.881	0.004
12.98	97.015	7.506	0.151	1.806	0.9	0.004
12.99	98.309	8.367	0.151	1.817	0.912	0.003
13.0	101.224	9.899	0.151	1.836	0.939	0.002
13.01	104.136	10.933	0.151	1.849	0.969	0.001
13.02	108.307	12.777	0.151	1.872	1.015	0.001
13.03	112.447	14.208	0.151	1.89	1.067	0.0
13.04	119.064	16.861	0.15	1.923	1.163	0.0
13.05	120.964	17.889	0.15	1.936	1.195	0.0
13.06	125.351	20.199	0.15	1.965	1.276	0.0
13.07	129.556	23.701	0.15	2.009	1.365	0.0
13.08	131.324	24.755	0.15	2.022	1.407	0.0
13.09	131.787	26.148	0.15	2.039	1.418	0.0
13.1	132.801	27.495	0.15	2.056	1.444	0.0
13.11	133.127	28.098	0.15	2.064	1.452	0.0
13.12	133.082	29.068	0.15	2.076	1.451	0.0
13.13	132.83	29.696	0.15	2.084	1.445	0.0
13.14	132.263	31.135	0.15	2.102	1.431	0.0
13.15	131.257	32.417	0.15	2.118	1.406	0.0
13.16	130.781	33.09	0.15	2.126	1.394	0.0
13.17	129.948	34.406	0.15	2.143	1.375	0.0
13.18	129.32	34.781	0.15	2.147	1.361	0.0
13.19	128.493	35.533	0.15	2.157	1.342	0.0
13.2	127.936	35.656	0.15	2.158	1.33	0.0
13.21	126.971	35.445	0.15	2.156	1.31	0.0
13.22	126.425	35.111	0.15	2.151	1.299	0.0
13.23	125.472	33.938	0.15	2.137	1.279	0.0
13.24	124.587	31.801	0.15	2.11	1.262	0.0
13.25	124.276	30.907	0.15	2.099	1.256	0.0
13.26	122.858	28.095	0.15	2.064	1.23	0.0
13.27	121.985	26.929	0.15	2.049	1.215	0.0
13.28	119.162	24.594	0.15	2.02	1.167	0.0
13.29	116.011	22.498	0.15	1.994	1.119	0.0
13.3	114.21	21.609	0.15	1.983	1.093	0.0
13.31	109.607	19.992	0.15	1.962	1.033	0.0
13.32	107.144	19.06	0.15	1.951	1.004	0.001
13.33	106.379	18.911	0.15	1.949	0.996	0.001
13.34	106.22	19.06	0.15	1.951	0.994	0.001
13.35	105.891	18.974	0.15	1.95	0.991	0.001

13.36	107.474	19.885	0.15	1.961	1.008	0.001
13.37	108.697	20.634	0.15	1.97	1.023	0.0
13.38	111.302	22.06	0.15	1.988	1.055	0.0
13.39	112.589	22.9	0.15	1.999	1.072	0.0
13.4	114.237	23.992	0.15	2.012	1.094	0.0
13.41	115.337	24.429	0.15	2.018	1.11	0.0
13.42	117.217	25.778	0.15	2.035	1.138	0.0
13.43	118.068	26.414	0.149	2.043	1.151	0.0
13.44	120.026	28.15	0.149	2.064	1.183	0.0
13.45	121.482	29.287	0.149	2.079	1.207	0.0
13.46	121.859	29.856	0.149	2.086	1.214	0.0
13.47	122.521	30.864	0.149	2.098	1.226	0.0
13.48	122.593	31.78	0.149	2.11	1.227	0.0
13.49	122.746	32.136	0.149	2.114	1.23	0.0
13.5	122.515	32.236	0.149	2.115	1.226	0.0
13.51	122.322	32.276	0.149	2.116	1.223	0.0
13.52	122.18	32.462	0.149	2.118	1.22	0.0
13.53	122.231	32.735	0.149	2.122	1.221	0.0
13.54	122.443	32.967	0.149	2.125	1.225	0.0
13.55	122.507	33.058	0.149	2.126	1.227	0.0
13.56	122.528	33.003	0.149	2.125	1.227	0.0
13.57	122.596	33.2	0.149	2.127	1.228	0.0
13.58	122.468	33.203	0.149	2.128	1.226	0.0
13.59	122.219	33.293	0.149	2.129	1.222	0.0
13.6	122.111	33.525	0.149	2.132	1.22	0.0
13.61	121.891	33.752	0.149	2.134	1.216	0.0
13.62	121.223	33.523	0.149	2.132	1.205	0.0
13.63	121.055	33.486	0.149	2.131	1.202	0.0
13.64	120.88	33.974	0.149	2.137	1.199	0.0
13.65	120.79	34.233	0.149	2.14	1.198	0.0
13.66	120.457	34.573	0.149	2.145	1.192	0.0
13.67	120.009	34.68	0.149	2.146	1.185	0.0
13.68	120.002	34.929	0.149	2.149	1.185	0.0
13.69	119.761	35.27	0.149	2.153	1.181	0.0
13.7	119.713	35.246	0.149	2.153	1.18	0.0
13.71	119.614	35.163	0.149	2.152	1.178	0.0
13.72	119.625	34.859	0.149	2.148	1.179	0.0
13.73	119.747	34.68	0.149	2.146	1.181	0.0
13.74	119.708	34.441	0.149	2.143	1.18	0.0
13.75	119.85	34.399	0.149	2.142	1.183	0.0
13.76	120.03	33.959	0.149	2.137	1.186	0.0
13.77	119.972	33.818	0.149	2.135	1.185	0.0
13.78	120.03	33.17	0.149	2.127	1.186	0.0
13.79	120.018	32.879	0.149	2.123	1.186	0.0
13.8	120.07	32.36	0.149	2.117	1.187	0.0
13.81	119.838	31.878	0.148	2.111	1.183	0.0
13.82	119.829	31.8	0.148	2.11	1.183	0.0
13.83	119.838	31.832	0.148	2.11	1.183	0.0
13.84	119.949	31.77	0.148	2.11	1.185	0.0
13.85	120.328	31.211	0.148	2.103	1.192	0.0
13.86	120.183	30.751	0.148	2.097	1.189	0.0
13.87	120.313	30.886	0.148	2.099	1.192	0.0
13.88	120.329	31.374	0.148	2.105	1.192	0.0
13.89	120.521	31.478	0.148	2.106	1.195	0.0

13.9	120.512	31.494	0.148	2.106	1.195	0.0
13.91	120.502	31.509	0.148	2.106	1.195	0.0
13.92	116.446	25.161	0.148	2.027	1.131	0.0
13.93	116.887	25.023	0.148	2.025	1.138	0.0
13.94	117.781	25.344	0.148	2.029	1.152	0.0
13.95	118.208	25.627	0.148	2.033	1.158	0.0
13.96	119.196	26.474	0.148	2.043	1.174	0.0
13.97	119.714	26.838	0.148	2.048	1.183	0.0
13.98	120.531	27.279	0.148	2.053	1.197	0.0
13.99	120.834	27.3	0.148	2.054	1.202	0.0
14.0	121.493	27.221	0.148	2.053	1.213	0.0
14.01	122.372	27.225	0.148	2.053	1.229	0.0
14.02	122.712	27.203	0.148	2.053	1.235	0.0
14.03	123.878	27.825	0.148	2.06	1.257	0.0
14.04	124.806	28.37	0.148	2.067	1.275	0.0
14.05	124.981	28.445	0.148	2.068	1.278	0.0
14.06	125.384	28.766	0.148	2.072	1.286	0.0
14.07	125.812	28.882	0.148	2.074	1.295	0.0
14.08	125.81	28.826	0.148	2.073	1.295	0.0
14.09	126.206	28.919	0.148	2.074	1.303	0.0
14.1	126.282	28.922	0.148	2.074	1.305	0.0
14.11	126.322	28.597	0.148	2.07	1.306	0.0
14.12	126.353	28.275	0.148	2.066	1.307	0.0
14.13	126.258	28.226	0.148	2.065	1.305	0.0
14.14	126.314	28.434	0.148	2.068	1.306	0.0
14.15	127.447	29.507	0.148	2.081	1.33	0.0
14.16	127.633	29.835	0.148	2.085	1.334	0.0
14.17	127.591	29.904	0.148	2.086	1.333	0.0
14.18	127.519	29.63	0.147	2.083	1.332	0.0
14.19	127.471	29.3	0.147	2.079	1.331	0.0
14.2	127.553	29.076	0.147	2.076	1.333	0.0
14.21	127.61	28.988	0.147	2.075	1.334	0.0
14.22	127.652	29.272	0.147	2.078	1.335	0.0
14.23	127.742	29.362	0.147	2.08	1.337	0.0
14.24	128.012	29.516	0.147	2.081	1.343	0.0
14.25	128.054	29.57	0.147	2.082	1.344	0.0
14.26	128.428	30.711	0.147	2.096	1.352	0.0
14.27	128.625	30.478	0.147	2.093	1.357	0.0
14.28	129.027	30.088	0.147	2.089	1.366	0.0
14.29	128.986	29.134	0.147	2.077	1.365	0.0
14.3	129.07	28.767	0.147	2.072	1.367	0.0
14.31	129.238	28.544	0.147	2.069	1.371	0.0
14.32	129.415	28.694	0.147	2.071	1.375	0.0
14.33	129.596	28.849	0.147	2.073	1.379	0.0
14.34	129.761	28.919	0.147	2.074	1.383	0.0
14.35	129.906	28.974	0.147	2.075	1.387	0.0
14.36	130.196	28.763	0.147	2.072	1.394	0.0
14.37	130.322	28.51	0.147	2.069	1.397	0.0
14.38	130.67	27.995	0.147	2.062	1.405	0.0
14.39	130.664	27.802	0.147	2.06	1.405	0.0
14.4	130.693	27.637	0.147	2.058	1.406	0.0
14.41	130.6	27.525	0.147	2.057	1.404	0.0
14.42	130.59	27.47	0.147	2.056	1.404	0.0
14.43	130.706	27.706	0.147	2.059	1.406	0.0

14.44	130.962	27.833	0.147	2.06	1.413	0.0
14.45	131.49	27.944	0.147	2.062	1.426	0.0
14.46	131.637	27.927	0.147	2.062	1.429	0.0
14.47	131.87	27.696	0.147	2.059	1.435	0.0
14.48	131.907	27.742	0.147	2.059	1.436	0.0
14.49	131.931	27.916	0.147	2.061	1.437	0.0
14.5	131.903	28.267	0.147	2.066	1.436	0.0
14.51	131.996	28.569	0.147	2.07	1.439	0.0
14.52	132.201	28.813	0.147	2.073	1.444	0.0
14.53	132.35	28.724	0.147	2.072	1.448	0.0
14.54	132.384	28.624	0.147	2.07	1.449	0.0
14.55	132.57	28.208	0.146	2.065	1.454	0.0
14.56	132.88	27.958	0.146	2.062	1.462	0.0
14.57	133.595	26.914	0.146	2.049	1.481	0.0
14.58	133.897	26.306	0.146	2.041	1.489	0.0
14.59	134.137	25.281	0.146	2.029	1.496	0.0
14.6	134.049	23.888	0.146	2.011	1.493	0.0
14.61	134.006	23.223	0.146	2.003	1.492	0.0
14.62	133.291	21.812	0.146	1.985	1.474	0.0
14.63	133.346	21.411	0.146	1.98	1.475	0.0
14.64	133.015	20.77	0.146	1.972	1.467	0.0
14.65	132.743	20.461	0.146	1.968	1.46	0.0
14.66	132.687	20.491	0.146	1.969	1.458	0.0
14.67	132.883	20.877	0.146	1.973	1.464	0.0
14.68	133.746	21.751	0.146	1.984	1.486	0.0
14.69	134.364	22.419	0.146	1.993	1.503	0.0
14.7	135.495	24.248	0.146	2.016	1.535	0.0
14.71	135.965	25.125	0.146	2.027	1.548	0.0
14.72	136.46	26.621	0.146	2.045	1.563	0.0
14.73	136.446	27.202	0.146	2.053	1.563	0.0
14.74	136.396	28.686	0.146	2.071	1.561	0.0
14.75	136.416	29.457	0.146	2.081	1.562	0.0
14.76	136.173	31.033	0.146	2.1	1.555	0.0
14.77	135.878	31.487	0.146	2.106	1.547	0.0
14.78	135.385	32.227	0.146	2.115	1.533	0.0
14.79	135.174	32.425	0.146	2.118	1.527	0.0
14.8	134.85	32.34	0.146	2.117	1.518	0.0
14.81	134.392	31.867	0.146	2.111	1.505	0.0
14.82	134.211	31.821	0.146	2.11	1.501	0.0
14.83	133.841	31.266	0.146	2.103	1.491	0.0
14.84	133.573	30.979	0.146	2.1	1.484	0.0
14.85	132.899	30.286	0.146	2.091	1.466	0.0
14.86	132.016	30.322	0.146	2.092	1.444	0.0
14.87	131.686	30.646	0.146	2.096	1.436	0.0
14.88	131.064	31.5	0.146	2.106	1.421	0.0
14.89	130.575	31.889	0.146	2.111	1.409	0.0
14.9	130.565	31.903	0.146	2.111	1.409	0.0
14.91	130.554	31.917	0.146	2.111	1.409	0.0
14.92	119.036	31.393	0.145	2.105	1.183	0.0
14.93	118.708	32.588	0.145	2.12	1.177	0.0
14.94	117.798	35.202	0.145	2.153	1.163	0.0
14.95	117.0	36.282	0.145	2.166	1.151	0.0
14.96	114.965	39.595	0.145	2.207	1.121	0.0
14.97	113.062	41.827	0.145	2.235	1.095	0.0

14.98	108.89	47.327	0.145	2.304	1.042	0.0
14.99	101.756	56.994	0.145	2.425	0.964	0.001
15.0	98.863	61.715	0.145	2.484	0.936	0.002
15.01	91.773	73.422	0.145	2.63	N.L.	0.0
15.02	89.052	79.058	0.145	2.701	N.L.	0.0
15.03	82.904	92.436	0.145	2.868	N.L.	0.0
15.04	80.769	98.224	0.145	2.94	N.L.	0.0
15.05	77.093	108.838	0.145	3.073	N.L.	0.0
15.06	74.843	117.171	0.145	3.177	N.L.	0.0
15.07	73.909	120.764	0.145	3.222	N.L.	0.0
15.08	72.439	126.63	0.145	3.295	N.L.	0.0
15.09	71.928	129.374	0.145	3.33	N.L.	0.0
15.1	70.185	139.45	0.145	3.456	N.L.	0.0
15.11	69.349	144.637	0.145	3.52	N.L.	0.0
15.12	68.335	150.828	0.145	3.598	N.L.	0.0
15.13	68.177	150.941	0.145	3.599	N.L.	0.0
15.14	69.483	138.715	0.145	3.446	N.L.	0.0
15.15	70.235	130.789	0.145	3.347	N.L.	0.0
15.16	70.685	126.446	0.145	3.293	N.L.	0.0
15.17	70.07	125.448	0.145	3.281	N.L.	0.0
15.18	68.7	129.917	0.145	3.336	N.L.	0.0
15.19	67.902	132.375	0.145	3.367	N.L.	0.0
15.2	66.175	140.468	0.145	3.468	N.L.	0.0
15.21	65.82	143.024	0.145	3.5	N.L.	0.0
15.22	65.844	138.522	0.145	3.444	N.L.	0.0
15.23	65.678	135.471	0.145	3.406	N.L.	0.0
15.24	65.387	130.116	0.145	3.339	N.L.	0.0
15.25	65.55	123.134	0.145	3.252	N.L.	0.0
15.26	66.433	111.835	0.145	3.11	N.L.	0.0
15.27	66.374	110.66	0.145	3.096	N.L.	0.0
15.28	67.818	98.425	0.145	2.943	N.L.	0.0
15.29	71.172	79.796	0.145	2.71	N.L.	0.0
15.3	78.52	43.516	0.145	2.256	0.784	0.005
15.31	79.189	30.084	0.145	2.089	0.788	0.005
15.32	64.234	12.352	0.145	1.867	0.702	0.007
15.33	57.784	7.623	0.145	1.808	0.669	0.008
15.34	60.525	6.679	0.145	1.796	0.683	0.007
15.35	65.667	8.294	0.144	1.816	0.71	0.007
15.36	68.253	9.215	0.144	1.828	0.724	0.006
15.37	75.364	11.268	0.144	1.853	0.765	0.005
15.38	79.071	12.641	0.144	1.871	0.788	0.005
15.39	92.518	17.274	0.144	1.928	0.885	0.003
15.4	100.56	20.968	0.144	1.975	0.956	0.001
15.41	103.061	22.698	0.144	1.996	0.981	0.001
15.42	105.798	24.515	0.144	2.019	1.01	0.0
15.43	107.885	26.55	0.144	2.044	1.034	0.0
15.44	110.464	30.66	0.144	2.096	1.066	0.0
15.45	111.69	34.715	0.144	2.146	1.081	0.0
15.46	111.269	36.798	0.144	2.172	1.076	0.0
15.47	109.132	41.377	0.144	2.23	1.05	0.0
15.48	107.392	44.447	0.144	2.268	1.029	0.0
15.49	102.383	52.628	0.144	2.37	0.975	0.001
15.5	99.666	57.866	0.144	2.436	0.948	0.001
15.51	92.945	69.466	0.144	2.581	0.889	0.002

15.52	89.681	76.322	0.144	2.667	N.L.	0.0
15.53	83.294	90.463	0.144	2.843	N.L.	0.0
15.54	80.837	97.505	0.144	2.931	N.L.	0.0
15.55	76.679	110.647	0.144	3.096	N.L.	0.0
15.56	73.683	123.232	0.144	3.253	N.L.	0.0
15.57	72.52	128.426	0.144	3.318	N.L.	0.0
15.58	71.026	135.76	0.144	3.41	N.L.	0.0
15.59	70.67	137.344	0.144	3.429	N.L.	0.0
15.6	68.912	148.045	0.144	3.563	N.L.	0.0
15.61	68.245	153.087	0.144	3.626	N.L.	0.0
15.62	67.233	159.411	0.144	3.705	N.L.	0.0
15.63	66.798	162.063	0.144	3.738	N.L.	0.0
15.64	66.854	158.0	0.144	3.687	N.L.	0.0
15.65	66.947	152.998	0.144	3.625	N.L.	0.0
15.66	66.498	154.408	0.144	3.643	N.L.	0.0
15.67	66.268	152.099	0.144	3.614	N.L.	0.0
15.68	66.161	149.922	0.144	3.587	N.L.	0.0
15.69	65.696	148.895	0.144	3.574	N.L.	0.0
15.7	65.189	151.025	0.144	3.6	N.L.	0.0
15.71	64.645	151.279	0.144	3.603	N.L.	0.0
15.72	64.474	150.161	0.144	3.59	N.L.	0.0
15.73	64.373	145.282	0.144	3.529	N.L.	0.0
15.74	64.26	142.319	0.144	3.491	N.L.	0.0
15.75	64.026	135.766	0.144	3.41	N.L.	0.0
15.76	63.825	135.98	0.143	3.412	N.L.	0.0
15.77	63.702	137.807	0.143	3.435	N.L.	0.0
15.78	63.71	138.3	0.143	3.441	N.L.	0.0
15.79	63.831	134.449	0.143	3.393	N.L.	0.0
15.8	63.86	133.148	0.143	3.377	N.L.	0.0
15.81	64.056	128.767	0.143	3.322	N.L.	0.0
15.82	64.154	126.058	0.143	3.288	N.L.	0.0
15.83	64.777	117.289	0.143	3.179	N.L.	0.0
15.84	65.644	102.64	0.143	2.996	N.L.	0.0
15.85	66.766	95.557	0.143	2.907	N.L.	0.0
15.86	69.398	80.525	0.143	2.719	N.L.	0.0
15.87	70.909	74.03	0.143	2.638	N.L.	0.0
15.88	73.878	60.15	0.143	2.464	0.761	0.005
15.89	74.832	53.508	0.143	2.381	0.767	0.005
15.9	74.83	53.528	0.143	2.382	0.767	0.005
15.91	74.827	53.547	0.143	2.382	0.767	0.005
15.92	69.694	93.854	0.143	2.886	N.L.	0.0
15.93	68.5	111.667	0.143	3.108	N.L.	0.0
15.94	67.92	122.297	0.143	3.241	N.L.	0.0
15.95	66.748	140.815	0.143	3.473	N.L.	0.0
15.96	66.412	143.751	0.143	3.509	N.L.	0.0
15.97	66.521	142.54	0.143	3.494	N.L.	0.0
15.98	68.347	126.209	0.143	3.29	N.L.	0.0
15.99	69.584	117.267	0.143	3.178	N.L.	0.0
16.0	73.104	98.468	0.143	2.943	N.L.	0.0
16.01	74.667	91.652	0.143	2.858	N.L.	0.0
16.02	75.097	87.187	0.143	2.802	N.L.	0.0
16.03	73.71	90.643	0.143	2.846	N.L.	0.0
16.04	72.477	95.569	0.143	2.907	N.L.	0.0
16.05	72.383	93.113	0.143	2.876	N.L.	0.0

16.06	74.813	81.257	0.143	2.728	N.L.	0.0
16.07	83.028	55.518	0.143	2.406	0.821	0.004
16.08	89.788	33.469	0.143	2.131	0.87	0.003
16.09	87.552	26.805	0.143	2.048	0.853	0.003
16.1	84.821	24.763	0.143	2.022	0.833	0.003
16.11	86.97	27.511	0.143	2.056	0.849	0.003
16.12	87.79	31.715	0.143	2.109	0.855	0.003
16.13	88.798	32.998	0.143	2.125	0.863	0.003
16.14	94.537	33.347	0.143	2.129	0.909	0.002
16.15	96.979	31.998	0.143	2.112	0.93	0.001
16.16	100.309	29.034	0.142	2.075	0.961	0.001
16.17	102.6	28.65	0.142	2.071	0.984	0.001
16.18	104.275	24.961	0.142	2.025	1.002	0.0
16.19	104.454	23.198	0.142	2.002	1.004	0.0
16.2	102.471	19.955	0.142	1.962	0.983	0.001
16.21	102.565	19.612	0.142	1.958	0.984	0.001
16.22	102.433	18.954	0.142	1.949	0.983	0.001
16.23	106.102	19.745	0.142	1.959	1.022	0.0
16.24	104.922	18.753	0.142	1.947	1.009	0.0
16.25	108.663	18.865	0.142	1.948	1.052	0.0
16.26	108.704	18.214	0.142	1.94	1.053	0.0
16.27	106.08	16.272	0.142	1.916	1.023	0.0
16.28	107.057	16.018	0.142	1.913	1.034	0.0
16.29	108.41	16.269	0.142	1.916	1.05	0.0
16.3	112.651	17.197	0.142	1.927	1.104	0.0
16.31	113.969	17.639	0.142	1.933	1.122	0.0
16.32	116.892	18.794	0.142	1.947	1.165	0.0
16.33	116.834	18.888	0.142	1.949	1.164	0.0
16.34	116.753	19.082	0.142	1.951	1.163	0.0
16.35	121.99	21.051	0.142	1.976	1.249	0.0
16.36	123.764	21.984	0.142	1.987	1.282	0.0
16.37	125.552	22.84	0.142	1.998	1.317	0.0
16.38	127.069	23.548	0.142	2.007	1.349	0.0
16.39	129.596	24.403	0.142	2.018	1.405	0.0
16.4	130.423	24.993	0.142	2.025	1.425	0.0
16.41	132.256	26.22	0.142	2.04	1.47	0.0
16.42	132.884	26.874	0.142	2.048	1.486	0.0
16.43	134.596	28.374	0.142	2.067	1.532	0.0
16.44	135.796	28.933	0.142	2.074	1.567	0.0
16.45	136.349	29.799	0.142	2.085	1.583	0.0
16.46	136.581	30.15	0.142	2.089	1.59	0.0
16.47	137.279	31.046	0.142	2.101	1.611	0.0
16.48	137.406	31.334	0.142	2.104	1.615	0.0
16.49	137.368	31.82	0.142	2.11	1.614	0.0
16.5	137.412	32.221	0.142	2.115	1.616	0.0
16.51	137.142	33.24	0.141	2.128	1.608	0.0
16.52	136.045	34.379	0.141	2.142	1.575	0.0
16.53	135.283	35.549	0.141	2.157	1.553	0.0
16.54	132.908	37.942	0.141	2.187	1.489	0.0
16.55	131.468	39.293	0.141	2.204	1.452	0.0
16.56	127.612	42.406	0.141	2.243	1.363	0.0
16.57	123.82	45.244	0.141	2.278	1.286	0.0
16.58	121.119	46.842	0.141	2.298	1.237	0.0
16.59	116.29	51.807	0.141	2.36	1.159	0.0

16.6	112.98	54.749	0.141	2.397	1.112	0.0
16.61	106.042	62.327	0.141	2.492	1.027	0.0
16.62	102.555	66.867	0.141	2.548	0.989	0.0
16.63	94.2	78.162	0.141	2.69	N.L.	0.0
16.64	90.719	84.435	0.141	2.768	N.L.	0.0
16.65	85.59	94.378	0.141	2.892	N.L.	0.0
16.66	82.099	102.715	0.141	2.996	N.L.	0.0
16.67	80.683	106.042	0.141	3.038	N.L.	0.0
16.68	78.091	113.968	0.141	3.137	N.L.	0.0
16.69	77.037	117.656	0.141	3.183	N.L.	0.0
16.7	74.501	127.108	0.141	3.301	N.L.	0.0
16.71	74.583	127.266	0.141	3.303	N.L.	0.0
16.72	80.08	109.101	0.141	3.076	N.L.	0.0
16.73	84.311	97.412	0.141	2.93	N.L.	0.0
16.74	95.036	74.671	0.141	2.646	N.L.	0.0
16.75	99.413	65.098	0.141	2.526	0.96	0.001
16.76	104.046	53.286	0.141	2.379	1.006	0.0
16.77	103.937	50.116	0.141	2.339	1.005	0.0
16.78	102.88	46.176	0.141	2.29	0.994	0.0
16.79	100.534	43.687	0.141	2.259	0.971	0.001
16.8	100.17	43.063	0.141	2.251	0.967	0.001
16.81	100.128	40.467	0.141	2.218	0.967	0.001
16.82	100.324	39.92	0.141	2.211	0.969	0.001
16.83	100.845	39.028	0.141	2.2	0.974	0.001
16.84	100.993	38.856	0.141	2.198	0.976	0.0
16.85	101.0	37.824	0.141	2.185	0.976	0.0
16.86	101.223	37.257	0.141	2.178	0.979	0.0
16.87	101.717	37.692	0.141	2.184	0.984	0.0
16.88	103.23	38.911	0.141	2.199	0.999	0.0
16.89	103.436	38.959	0.141	2.199	1.002	0.0
16.9	103.429	38.973	0.14	2.2	1.002	0.0
16.91	103.422	38.988	0.14	2.2	1.002	0.0
16.92	100.066	44.527	0.14	2.269	0.968	0.001
16.93	98.852	46.727	0.14	2.297	0.956	0.001
16.94	96.48	52.381	0.14	2.367	0.935	0.001
16.95	94.973	55.943	0.14	2.412	0.922	0.001
16.96	91.449	63.071	0.14	2.501	0.893	0.002
16.97	88.616	70.777	0.14	2.597	0.871	0.002
16.98	86.846	74.859	0.14	2.648	N.L.	0.0
16.99	83.494	84.719	0.14	2.771	N.L.	0.0
17.0	81.235	90.936	0.14	2.849	N.L.	0.0
17.01	77.262	105.787	0.14	3.035	N.L.	0.0
17.02	73.637	121.962	0.14	3.237	N.L.	0.0
17.03	72.19	128.857	0.14	3.323	N.L.	0.0
17.04	71.31	134.238	0.14	3.39	N.L.	0.0
17.05	74.061	121.956	0.14	3.237	N.L.	0.0
17.06	84.396	91.849	0.14	2.861	N.L.	0.0
17.07	91.577	76.812	0.14	2.673	N.L.	0.0
17.08	102.584	57.82	0.14	2.435	0.995	0.0
17.09	103.674	53.321	0.14	2.379	1.006	0.0
17.1	100.248	52.643	0.14	2.371	0.972	0.0
17.11	96.586	55.446	0.14	2.406	0.938	0.001
17.12	88.358	67.94	0.14	2.562	0.87	0.002
17.13	84.587	75.927	0.14	2.662	N.L.	0.0

17.14	79.404	89.482	0.14	2.831	N.L.	0.0
17.15	77.864	94.176	0.14	2.89	N.L.	0.0
17.16	76.157	99.747	0.14	2.959	N.L.	0.0
17.17	75.281	102.646	0.14	2.996	N.L.	0.0
17.18	74.72	105.325	0.14	3.029	N.L.	0.0
17.19	73.668	114.016	0.14	3.138	N.L.	0.0
17.2	73.379	115.954	0.14	3.162	N.L.	0.0
17.21	72.829	116.731	0.14	3.172	N.L.	0.0
17.22	72.391	119.083	0.14	3.201	N.L.	0.0
17.23	70.998	125.506	0.14	3.281	N.L.	0.0
17.24	69.589	134.579	0.14	3.395	N.L.	0.0
17.25	69.057	138.387	0.14	3.442	N.L.	0.0
17.26	69.643	133.451	0.14	3.381	N.L.	0.0
17.27	70.423	128.286	0.14	3.316	N.L.	0.0
17.28	71.741	118.227	0.14	3.19	N.L.	0.0
17.29	71.522	116.104	0.14	3.164	N.L.	0.0
17.3	70.97	116.913	0.14	3.174	N.L.	0.0
17.31	69.421	123.848	0.139	3.261	N.L.	0.0
17.32	68.644	127.546	0.139	3.307	N.L.	0.0
17.33	67.393	130.279	0.139	3.341	N.L.	0.0
17.34	66.529	139.58	0.139	3.457	N.L.	0.0
17.35	66.02	148.177	0.139	3.565	N.L.	0.0
17.36	65.703	152.249	0.139	3.616	N.L.	0.0
17.37	65.155	156.065	0.139	3.663	N.L.	0.0
17.38	65.077	155.38	0.139	3.655	N.L.	0.0
17.39	65.218	149.114	0.139	3.576	N.L.	0.0
17.4	65.214	146.494	0.139	3.544	N.L.	0.0
17.41	64.86	147.35	0.139	3.554	N.L.	0.0
17.42	64.575	150.753	0.139	3.597	N.L.	0.0
17.43	64.552	145.655	0.139	3.533	N.L.	0.0
17.44	64.61	142.285	0.139	3.491	N.L.	0.0
17.45	64.832	138.601	0.139	3.445	N.L.	0.0
17.46	66.457	116.806	0.139	3.173	N.L.	0.0
17.47	67.955	102.246	0.139	2.991	N.L.	0.0
17.48	71.315	68.944	0.139	2.574	0.762	0.003
17.49	73.372	56.874	0.139	2.423	0.774	0.003
17.5	74.471	42.578	0.139	2.245	0.781	0.003
17.51	73.624	39.504	0.139	2.206	0.776	0.003
17.52	74.342	43.667	0.139	2.258	0.78	0.003
17.53	75.402	53.894	0.139	2.386	0.787	0.003
17.54	74.925	57.925	0.139	2.437	0.784	0.003
17.55	74.373	65.838	0.139	2.535	0.781	0.003
17.56	73.97	69.597	0.139	2.582	0.778	0.003
17.57	73.54	80.379	0.139	2.717	N.L.	0.0
17.58	76.923	78.103	0.139	2.689	N.L.	0.0
17.59	79.719	72.717	0.139	2.621	N.L.	0.0
17.6	86.697	60.833	0.139	2.473	0.863	0.002
17.61	90.686	54.969	0.139	2.4	0.894	0.001
17.62	97.791	43.976	0.139	2.262	0.954	0.001
17.63	98.629	39.673	0.139	2.208	0.962	0.0
17.64	100.07	34.706	0.139	2.146	0.976	0.0
17.65	100.85	33.257	0.139	2.128	0.984	0.0
17.66	101.089	30.494	0.139	2.094	0.987	0.0
17.67	101.072	29.023	0.139	2.075	0.986	0.0

17.68	98.436	24.923	0.139	2.024	0.961	0.0
17.69	97.577	23.549	0.139	2.007	0.953	0.001
17.7	96.732	21.533	0.138	1.982	0.946	0.001
17.71	95.728	20.206	0.138	1.965	0.937	0.001
17.72	91.849	17.745	0.138	1.934	0.904	0.001
17.73	91.227	17.004	0.138	1.925	0.899	0.001
17.74	88.938	15.391	0.138	1.905	0.882	0.001
17.75	84.718	13.177	0.138	1.877	0.851	0.002
17.76	83.364	12.269	0.138	1.866	0.841	0.002
17.77	85.131	11.958	0.138	1.862	0.854	0.002
17.78	86.943	11.908	0.138	1.861	0.867	0.001
17.79	90.249	12.539	0.138	1.869	0.893	0.001
17.8	92.309	12.779	0.138	1.872	0.909	0.001
17.81	94.04	13.169	0.138	1.877	0.924	0.001
17.82	98.293	14.155	0.138	1.889	0.962	0.0
17.83	99.468	14.432	0.138	1.893	0.973	0.0
17.84	100.111	14.196	0.138	1.89	0.979	0.0
17.85	101.195	14.412	0.138	1.893	0.99	0.0
17.86	102.654	14.649	0.138	1.896	1.005	0.0
17.87	107.331	15.721	0.138	1.909	1.057	0.0
17.88	108.574	16.084	0.138	1.914	1.072	0.0
17.89	111.258	17.102	0.138	1.926	1.106	0.0
17.9	111.265	17.114	0.138	1.926	1.106	0.0
17.91	111.272	17.126	0.138	1.927	1.106	0.0
17.92	114.22	18.572	0.138	1.945	1.147	0.0
17.93	115.414	19.388	0.138	1.955	1.164	0.0
17.94	117.835	21.035	0.138	1.975	1.201	0.0
17.95	119.046	22.125	0.138	1.989	1.221	0.0
17.96	122.67	24.224	0.138	2.015	1.285	0.0
17.97	124.036	25.346	0.138	2.029	1.311	0.0
17.98	126.851	27.777	0.138	2.06	1.368	0.0
17.99	127.741	28.694	0.138	2.071	1.387	0.0
18.0	130.212	30.539	0.138	2.094	1.444	0.0
18.01	130.576	31.173	0.138	2.102	1.453	0.0
18.02	131.776	32.079	0.138	2.113	1.483	0.0
18.03	132.746	32.816	0.138	2.123	1.508	0.0
18.04	133.122	33.099	0.138	2.126	1.518	0.0
18.05	132.862	33.135	0.137	2.127	1.511	0.0
18.06	132.484	33.152	0.137	2.127	1.502	0.0
18.07	131.814	33.611	0.137	2.133	1.485	0.0
18.08	131.326	33.704	0.137	2.134	1.473	0.0
18.09	129.929	34.386	0.137	2.142	1.439	0.0
18.1	127.902	36.727	0.137	2.172	1.393	0.0
18.11	126.485	38.262	0.137	2.191	1.362	0.0
18.12	121.144	43.809	0.137	2.26	1.26	0.0
18.13	118.404	47.45	0.137	2.306	1.213	0.0
18.14	111.637	54.845	0.137	2.398	1.115	0.0
18.15	108.18	59.28	0.137	2.453	1.071	0.0
18.16	101.367	67.599	0.137	2.557	0.996	0.0
18.17	98.923	71.565	0.137	2.607	N.L.	0.0
18.18	94.629	78.694	0.137	2.696	N.L.	0.0
18.19	93.243	81.627	0.137	2.733	N.L.	0.0
18.2	92.023	84.677	0.137	2.771	N.L.	0.0
18.21	93.018	83.62	0.137	2.758	N.L.	0.0

18.22	94.017	82.704	0.137	2.746	N.L.	0.0
18.23	100.636	75.03	0.137	2.65	N.L.	0.0
18.24	106.271	67.97	0.137	2.562	1.05	0.0
18.25	115.854	55.493	0.137	2.406	1.175	0.0
18.26	119.674	50.222	0.137	2.34	1.236	0.0
18.27	126.581	40.516	0.137	2.219	1.367	0.0
18.28	126.485	36.707	0.137	2.171	1.365	0.0
18.29	125.017	32.165	0.137	2.115	1.335	0.0
18.3	124.492	30.818	0.137	2.098	1.325	0.0
18.31	121.784	28.322	0.137	2.067	1.274	0.0
18.32	120.408	28.427	0.137	2.068	1.25	0.0
18.33	120.675	28.923	0.137	2.074	1.254	0.0
18.34	120.91	29.121	0.137	2.077	1.259	0.0
18.35	122.032	30.11	0.137	2.089	1.279	0.0
18.36	123.153	30.999	0.137	2.1	1.3	0.0
18.37	124.048	31.978	0.137	2.112	1.317	0.0
18.38	124.736	33.349	0.137	2.129	1.331	0.0
18.39	124.717	33.903	0.137	2.136	1.331	0.0
18.4	124.191	34.622	0.137	2.145	1.32	0.0
18.41	123.585	34.882	0.137	2.149	1.309	0.0
18.42	122.726	35.896	0.137	2.161	1.293	0.0
18.43	122.441	37.346	0.136	2.179	1.288	0.0
18.44	121.822	41.978	0.136	2.237	1.277	0.0
18.45	120.185	46.208	0.136	2.29	1.248	0.0
18.46	119.485	47.289	0.136	2.304	1.236	0.0
18.47	119.173	48.45	0.136	2.318	1.231	0.0
18.48	119.916	47.666	0.136	2.308	1.244	0.0
18.49	122.635	44.116	0.136	2.264	1.292	0.0
18.5	124.026	41.967	0.136	2.237	1.319	0.0
18.51	125.528	38.437	0.136	2.193	1.349	0.0
18.52	126.901	36.097	0.136	2.164	1.378	0.0
18.53	127.058	35.16	0.136	2.152	1.381	0.0
18.54	126.761	33.446	0.136	2.131	1.375	0.0
18.55	126.809	32.715	0.136	2.121	1.376	0.0
18.56	126.451	31.173	0.136	2.102	1.369	0.0
18.57	126.212	30.603	0.136	2.095	1.364	0.0
18.58	125.802	29.701	0.136	2.084	1.356	0.0
18.59	125.356	29.02	0.136	2.075	1.347	0.0
18.6	125.041	28.466	0.136	2.068	1.34	0.0
18.61	124.87	28.291	0.136	2.066	1.337	0.0
18.62	125.011	28.086	0.136	2.064	1.34	0.0
18.63	125.402	28.06	0.136	2.063	1.348	0.0
18.64	126.538	28.054	0.136	2.063	1.372	0.0
18.65	127.463	28.219	0.136	2.065	1.392	0.0
18.66	129.237	29.011	0.136	2.075	1.432	0.0
18.67	129.75	29.418	0.136	2.08	1.444	0.0
18.68	130.868	30.838	0.136	2.098	1.471	0.0
18.69	131.174	31.984	0.136	2.112	1.479	0.0
18.7	129.976	34.933	0.136	2.149	1.45	0.0
18.71	128.742	37.215	0.136	2.178	1.422	0.0
18.72	123.34	43.988	0.136	2.262	1.309	0.0
18.73	118.711	49.056	0.136	2.326	1.228	0.0
18.74	106.892	62.3	0.136	2.491	1.064	0.0
18.75	99.254	71.544	0.136	2.607	N.L.	0.0

18.76	96.067	76.395	0.136	2.667	N.L.	0.0
18.77	91.248	84.286	0.136	2.766	N.L.	0.0
18.78	90.139	86.662	0.136	2.796	N.L.	0.0
18.79	88.829	89.103	0.136	2.826	N.L.	0.0
18.8	88.251	89.838	0.136	2.835	N.L.	0.0
18.81	87.925	90.279	0.136	2.841	N.L.	0.0
18.82	87.559	90.443	0.135	2.843	N.L.	0.0
18.83	86.539	91.35	0.135	2.854	N.L.	0.0
18.84	86.377	91.732	0.135	2.859	N.L.	0.0
18.85	85.935	92.091	0.135	2.864	N.L.	0.0
18.86	83.961	93.516	0.135	2.881	N.L.	0.0
18.87	82.162	95.357	0.135	2.904	N.L.	0.0
18.88	78.392	103.823	0.135	3.01	N.L.	0.0
18.89	76.429	109.199	0.135	3.077	N.L.	0.0
18.9	76.425	109.218	0.135	3.078	N.L.	0.0
18.91	76.42	109.237	0.135	3.078	N.L.	0.0
18.92	76.509	105.264	0.135	3.028	N.L.	0.0
18.93	76.775	101.561	0.135	2.982	N.L.	0.0
18.94	75.475	103.419	0.135	3.005	N.L.	0.0
18.95	73.262	109.54	0.135	3.082	N.L.	0.0
18.96	72.094	112.139	0.135	3.114	N.L.	0.0
18.97	70.256	119.527	0.135	3.207	N.L.	0.0
18.98	68.912	127.165	0.135	3.302	N.L.	0.0
18.99	67.566	134.361	0.135	3.392	N.L.	0.0
19.0	66.832	141.227	0.135	3.478	N.L.	0.0
19.01	66.396	145.802	0.135	3.535	N.L.	0.0
19.02	65.916	150.748	0.135	3.597	N.L.	0.0
19.03	65.552	152.684	0.135	3.621	N.L.	0.0
19.04	65.8	145.361	0.135	3.53	N.L.	0.0
19.05	66.478	136.012	0.135	3.413	N.L.	0.0
19.06	67.556	125.276	0.135	3.278	N.L.	0.0
19.07	68.753	114.948	0.135	3.149	N.L.	0.0
19.08	69.334	109.55	0.135	3.082	N.L.	0.0
19.09	69.309	108.59	0.135	3.07	N.L.	0.0
19.1	68.957	109.412	0.135	3.08	N.L.	0.0
19.11	68.022	115.751	0.135	3.159	N.L.	0.0
19.12	67.184	121.195	0.135	3.227	N.L.	0.0
19.13	66.542	127.871	0.135	3.311	N.L.	0.0
19.14	66.158	134.018	0.135	3.388	N.L.	0.0
19.15	65.939	137.036	0.135	3.425	N.L.	0.0
19.16	65.398	144.188	0.135	3.515	N.L.	0.0
19.17	64.979	151.271	0.135	3.603	N.L.	0.0
19.18	64.706	155.352	0.135	3.654	N.L.	0.0
19.19	64.733	154.324	0.135	3.642	N.L.	0.0
19.2	64.846	151.011	0.135	3.6	N.L.	0.0
19.21	65.155	145.308	0.135	3.529	N.L.	0.0
19.22	65.361	141.607	0.135	3.483	N.L.	0.0
19.23	65.666	137.922	0.135	3.437	N.L.	0.0
19.24	65.767	135.962	0.134	3.412	N.L.	0.0
19.25	65.859	131.148	0.134	3.352	N.L.	0.0
19.26	65.648	131.76	0.134	3.359	N.L.	0.0
19.27	65.148	132.982	0.134	3.375	N.L.	0.0
19.28	65.123	130.614	0.134	3.345	N.L.	0.0
19.29	64.961	127.315	0.134	3.304	N.L.	0.0

19.3	64.739	123.133	0.134	3.252	N.L.	0.0
19.31	64.884	119.452	0.134	3.206	N.L.	0.0
19.32	65.672	109.399	0.134	3.08	N.L.	0.0
19.33	66.425	102.705	0.134	2.996	N.L.	0.0
19.34	67.15	98.129	0.134	2.939	N.L.	0.0
19.35	67.099	99.64	0.134	2.958	N.L.	0.0
19.36	66.736	103.504	0.134	3.006	N.L.	0.0
19.37	65.791	117.186	0.134	3.177	N.L.	0.0
19.38	64.795	130.681	0.134	3.346	N.L.	0.0
19.39	64.897	129.887	0.134	3.336	N.L.	0.0
19.4	64.93	128.995	0.134	3.325	N.L.	0.0
19.41	65.063	126.212	0.134	3.29	N.L.	0.0
19.42	64.998	126.749	0.134	3.297	N.L.	0.0
19.43	64.892	126.45	0.134	3.293	N.L.	0.0
19.44	64.836	129.054	0.134	3.326	N.L.	0.0
19.45	64.672	129.916	0.134	3.336	N.L.	0.0
19.46	64.972	125.368	0.134	3.28	N.L.	0.0
19.47	65.137	121.835	0.134	3.235	N.L.	0.0
19.48	65.502	115.76	0.134	3.159	N.L.	0.0
19.49	65.98	111.661	0.134	3.108	N.L.	0.0
19.5	66.295	110.747	0.134	3.097	N.L.	0.0
19.51	66.066	112.807	0.134	3.123	N.L.	0.0
19.52	65.728	109.282	0.134	3.079	N.L.	0.0
19.53	66.458	107.198	0.134	3.052	N.L.	0.0
19.54	67.171	94.577	0.134	2.895	N.L.	0.0
19.55	67.702	90.81	0.134	2.848	N.L.	0.0
19.56	69.866	83.763	0.134	2.76	N.L.	0.0
19.57	71.392	78.809	0.134	2.698	N.L.	0.0
19.58	71.176	78.736	0.134	2.697	N.L.	0.0
19.59	69.866	82.703	0.134	2.746	N.L.	0.0
19.6	68.548	89.629	0.134	2.833	N.L.	0.0
19.61	67.016	99.625	0.134	2.958	N.L.	0.0
19.62	66.496	104.589	0.134	3.02	N.L.	0.0
19.63	66.603	112.202	0.134	3.115	N.L.	0.0
19.64	67.368	112.306	0.134	3.116	N.L.	0.0
19.65	68.217	108.208	0.134	3.065	N.L.	0.0
19.66	69.658	101.049	0.133	2.976	N.L.	0.0
19.67	71.04	92.237	0.133	2.865	N.L.	0.0
19.68	74.523	73.975	0.133	2.637	N.L.	0.0
19.69	76.614	65.968	0.133	2.537	0.819	0.0
19.7	79.909	55.47	0.133	2.406	0.84	0.0
19.71	81.986	51.359	0.133	2.354	0.855	0.0
19.72	81.063	55.721	0.133	2.409	0.848	0.0
19.73	77.823	64.53	0.133	2.519	0.827	0.0
19.74	76.199	69.142	0.133	2.577	0.817	0.0
19.75	73.358	79.067	0.133	2.701	N.L.	0.0
19.76	72.03	88.454	0.133	2.818	N.L.	0.0
19.77	71.222	97.525	0.133	2.932	N.L.	0.0
19.78	70.509	107.858	0.133	3.061	N.L.	0.0
19.79	69.978	113.559	0.133	3.132	N.L.	0.0
19.8	68.8	125.987	0.133	3.287	N.L.	0.0
19.81	68.43	131.698	0.133	3.359	N.L.	0.0
19.82	68.058	138.978	0.133	3.45	N.L.	0.0
19.83	67.705	140.202	0.133	3.465	N.L.	0.0

19.84	67.512	139.248	0.133	3.453	N.L.	0.0
19.85	68.226	134.461	0.133	3.393	N.L.	0.0
19.86	68.674	130.845	0.133	3.348	N.L.	0.0
19.87	69.495	121.704	0.133	3.234	N.L.	0.0
19.88	69.197	119.733	0.133	3.209	N.L.	0.0
19.89	68.351	123.785	0.133	3.26	N.L.	0.0
19.9	68.349	123.809	0.133	3.26	N.L.	0.0
19.91	68.347	123.833	0.133	3.26	N.L.	0.0
19.92	67.847	125.44	0.133	3.281	N.L.	0.0
19.93	67.806	125.264	0.133	3.278	N.L.	0.0
19.94	68.309	120.389	0.133	3.217	N.L.	0.0
19.95	68.337	119.421	0.133	3.205	N.L.	0.0
19.96	67.818	121.1	0.133	3.226	N.L.	0.0
19.97	67.77	119.375	0.133	3.205	N.L.	0.0
19.98	68.814	110.924	0.133	3.099	N.L.	0.0
19.99	69.776	106.161	0.133	3.04	N.L.	0.0
20.0	70.097	103.613	0.133	3.008	N.L.	0.0
20.01	70.475	100.833	0.133	2.973	N.L.	0.0
20.02	69.116	104.438	0.133	3.018	N.L.	0.0
20.03	67.357	110.479	0.133	3.093	N.L.	0.0
20.04	66.459	114.557	0.133	3.144	N.L.	0.0
20.05	66.207	118.062	0.133	3.188	N.L.	0.0
20.06	66.139	126.186	0.133	3.29	N.L.	0.0
20.07	65.98	129.223	0.133	3.328	N.L.	0.0
20.08	65.782	129.005	0.132	3.325	N.L.	0.0
20.09	65.53	131.648	0.132	3.358	N.L.	0.0
20.1	65.497	131.07	0.132	3.351	N.L.	0.0

Allegato 3

Report prova HVSR

COMUNE DI COMACCHIO

REGIONE EMILIA-ROMAGNA

CITTÀ METROPOLITANA DI FERRARA

Determinazione della categoria di suolo di fondazione eseguita sulla base della velocità equivalente di propagazione delle onde di taglio S (Vs,eq) dei terreni presso strada Poderale Palotta - Volania.

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Dott. Geol. Stefano Maggi

Data indagine 10/10/2022

Commessa 22.541

SOMMARIO……

2 IDENTIFICAZIONE DEL DOCUMENTO

- Il presente documento viene identificato con il numero 22.541 rev. n° 0;
- Le indagini e il lavoro svolto sono stati coordinati dal Dott. Geol. Stefano Maggi;
- Il presente documento è stato redatto dal Dott. Geol. Stefano Maggi in data 11/09/2022;
- Il documento si compone di n° 9 fogli

3 PREMESSE

Presso l'area di strada Poderale Palotta, comune di Comacchio (FE), in data 10/10/2022 è stata effettuata un'indagine geofisica mediante misura a stazione singola con tecnica *HVSR (Horizontal to Vertical Spectral Ratio)* al fine di ottenere la classificazione del tipo di suolo presente nel sito, sulla base della velocità media equivalente di propagazione delle onde di taglio S (Vs,eq), in ottemperanza a quanto riportato nel decreto del Ministero delle Infrastrutture, 17 gennaio 2018.
La presente indagine geofisica è consistita in:

- N. 1 misura a stazione singola con tecnica HVSR (HVSR)

La misura a stazione singola è stata eseguita con tromografo digitale modello Tromino® Engy in corrispondenza di n. 1 prova penetrometrica statica elettrica con piezocono (CPTU- max profondità 20 m) eseguita dagli stessi scriventi.
Il software utilizzato per l'elaborazione dei dati è "GRILLA"© Release 2010 ver. 6.0 beta (All rights reserved).

4 DESCRIZIONE DELLE INDAGINI

4.1 Misura a stazione singola H/V: procedura e strumentazione utilizzata

Il metodo *HVSR* (*Horizontal to Vertical Spectral Ratio*) proposto da Nogoshi e Igarashi (1970) e successivamente modificato da Nakamura (1989), si basa sull'analisi del rapporto spettrale tra le componenti orizzontale (H) e verticale (V) del rumore sismico registrato in un sito. Il rumore sismico è presente ovunque ed è generato sia da fenomeni atmosferici (onde oceaniche, vento) che dall'attività antropica. Il rumore sismico è indicato spesso come microtremore poiché è caratterizzato da oscillazioni molto deboli (dell'ordine dei μm/s). I microtremori sono in parte costituiti da onde di volume, P o S, ma soprattutto da onde superficiali, la cui velocità è comunque prossima a quella delle onde S (Mulargia et al., 2007). La tecnica di misura del rumore sismico richiede tempi di registrazione pari a 14-30 minuti e necessita di sensori tridirezionali da sismologia con messa in bolla, digitalizzatore 24 bit con elevata dinamica, elevato guadagno ed elevata frequenza di campionamento nativo, con minimizzazione del rumore elettro/meccanico.

L'acquisizione è stata eseguita utilizzando un tromografo digitale, "TROMINO ENGY" (*Micromed S.p.A.*) dotato di 3 canali velocimetrici (N-S, E-W, Up-Down) ad alto guadagno per l'acquisizione del microtremore sismico ambientale (fino a ~1.5 mm/s); il sistema opera nell'intervallo di frequenze 0.1–1024 Hz. L'elaborazione dei dati di rumore sismico acquisiti è avvenuta mediante software *Grilla*.

5 TECNICA HVSR

Strumento: TROMINO MODELLO ENGY

Data registrazione: 10/10/2022

Nomi canali: NORTH SOUTH; EAST WEST ; UP DOWN

Dato GPS non disponibile

Durata registrazione: 0h20'00".

Freq. campionamento: 512Hz

Lunghezza finestre: 20 s

Tipo di lisciamento: Triangular window

Lisciamento: 10%

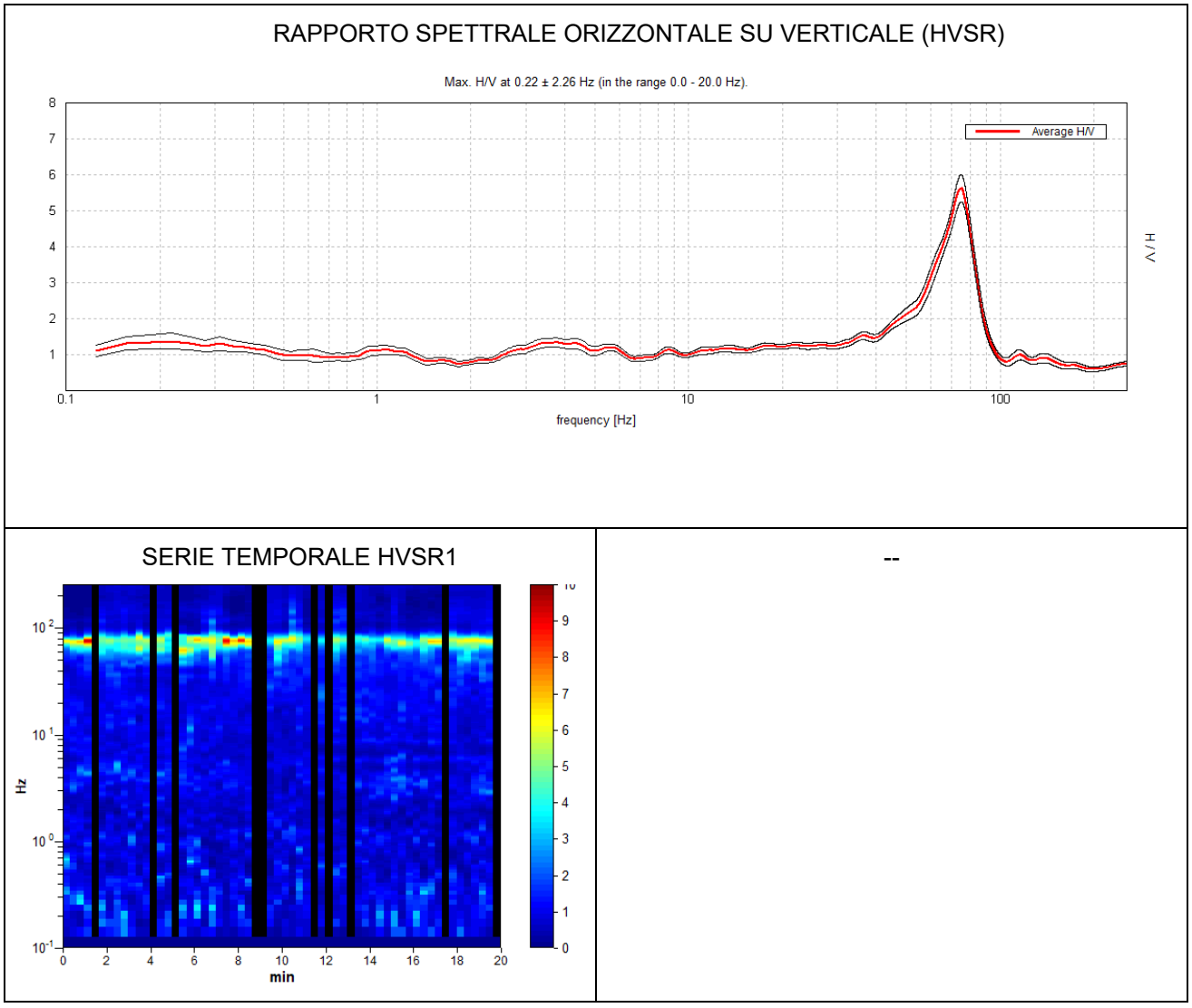

Figura 1 - Curva H/V (HVSR) registrata nel sito in esame e serie temporale considerata nell'analisi.

SPETTRI DELLE SINGOLE COMPONENTI HVSR1

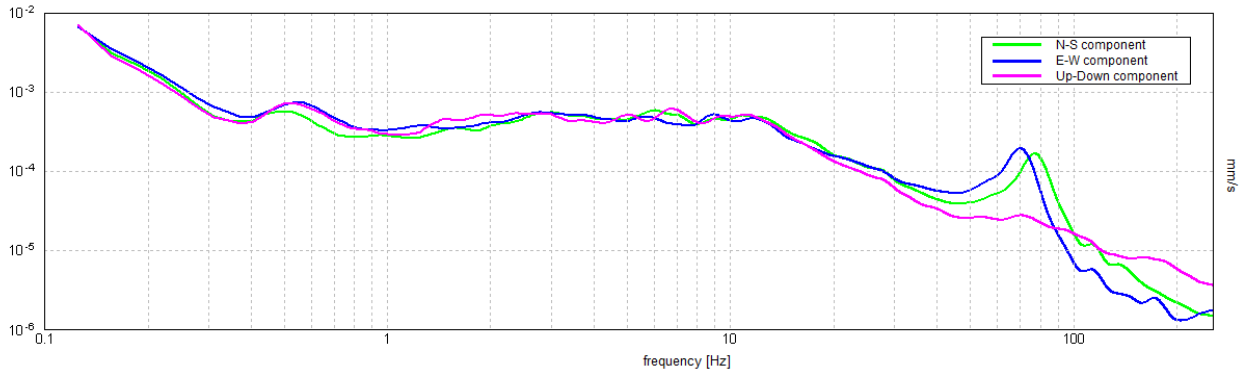

Figura 2 - Spettri delle 3 componenti del moto in velocità registrate nel sito

H/V SPERIMENTALE vs. H/V SINTETICO

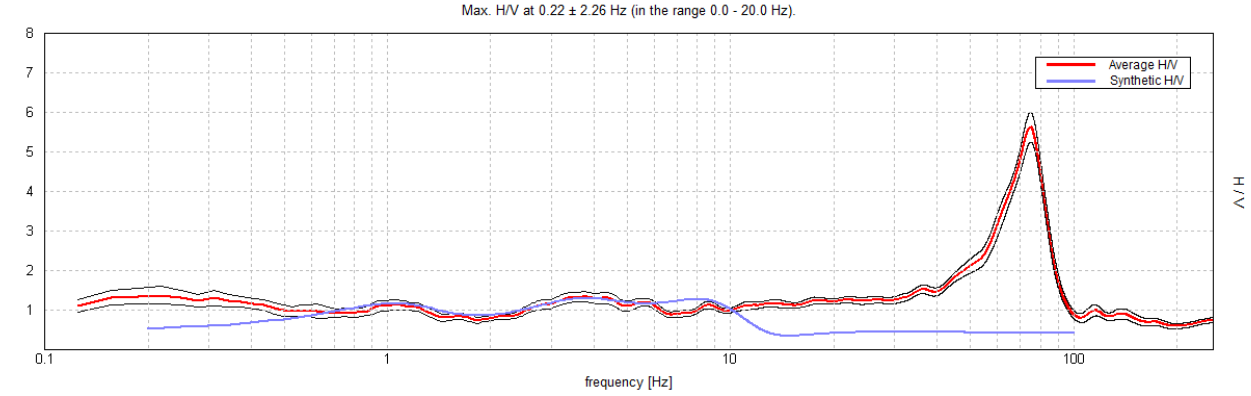

Figura 3 - Confronto tra curva HVSR1 sperimentale registrata nel sito e curva teorica (blu) relativa al modello di sottosuolo proposto per il sito.

6 MODELLO DI SOTTOSUOLO PROPOSTO PER IL SITO

Sulla base dei risultati ottenuti e dell'interpretazione dei dati acquisiti il modello di sottosuolo proposto per il sito in studio, in termini di profilo verticale di Vs, è il seguente:

Profondità base strato (m)	Spessore (m)	Vs (m/s)
2.70	2.70	90
11.00	8.30	160
21.00	10.00	210
31.00	10.00	230
51.00	20.00	220
inf.	inf.	300

Tabella 1 – Modello di sottosuolo proposto per il sito

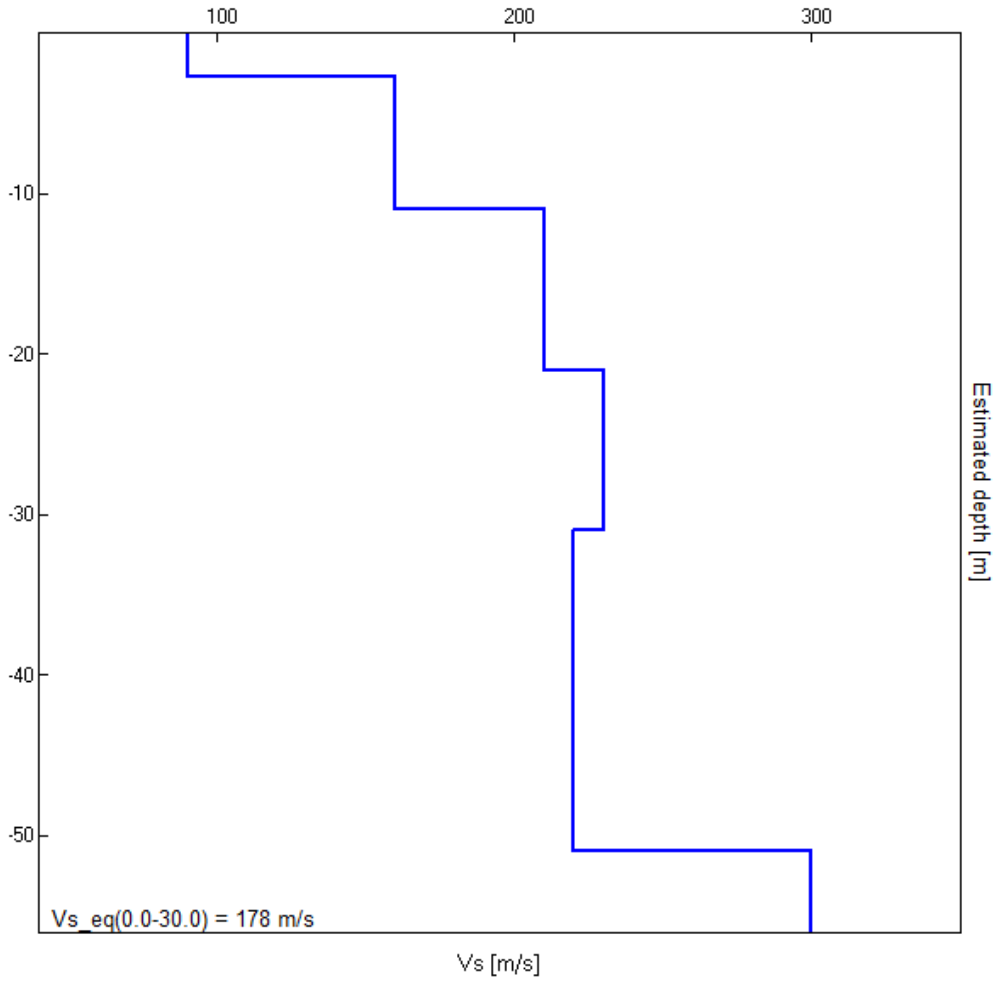

Figura 4 - Modello di velocità delle onde di taglio S

7 CONCLUSIONI

Vs,eq=Vs30 [m/s] da quota piano campagna su cui è stata eseguita l'indagine geofisica……178

La curva HVSR, registrata in sito e analizzata nel *range* compreso 0.1 – 20 Hz, è caratterizzata da deboli o nulle irregolarità, indicative della presenza nel sottosuolo di deboli amplificazioni del moto del suolo per risonanza stratigrafica da basso a bassissimo contrasto d'impedenza.

La normativa applicata nel presente lavoro è il DM 17 gennaio 2018.

San Lazzaro di Savena, 11/10/2022