

**Late Quaternary Paleoclimatology and Paleoceanography of the Amazon
Continental Margin, Brazil**

by

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Dissertation submitted in partial fulfillment of
the requirements for the degree of Doctor of Philosophy
in Earth and Ocean Sciences
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ABSTRACT

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Abstract

The tropics are a significant source of heat and moisture export, which drive global circulation patterns, thus it is vital to systematically understand the land, ocean and sedimentological interactions within the tropics. The Brazilian continental margin is an ideal region to characterize the tropics due to its unique local oceanography and proximity to the atmospheric engine that is the Amazon Basin. A combination of: 1) terrestrial organics and hydrology; 2) oceanographic temperature, isotopic composition, and salinity and 3) early diagenesis and geochemistry of sedimentary interstitial water and methane hydrate, provide a detailed understanding of the primary constituents that influence the South American tropics.

Sedimentological, organic and paleoceanographic reconstructions of the Amazon Basin, Brazilian Nordeste, and western equatorial Atlantic have been undertaken on two sediment cores located on the Brazilian continental slope representing 30 and 110 ka, respectively. High-resolution XRF analyses of Fe, Ti, K and Ca are used to define the sedimentological history of the Amazon Basin and northern Nordeste. Here I present elemental ratios of Ti/Ca and Fe/K, in addition to magnetic susceptibility, to determine variability in Amazon Basin and Nordeste hydrology. Bulk organic proxies $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ of sedimentary organic carbon are used to define the organic history of the Amazon Basin. Peaks in Ti/Ca and Fe/K ratios largely correlate in both the Amazon Basin and in the Nordeste Record. These excursions correlate with commonly modeled global slowdown of the Atlantic meridional overturning circulation (AMOC) during increased

northern hemisphere glaciation. Differences in the Fe/K and Ti/Ca records suggest periods of increased chemical weathering independent of precipitation driven sediment discharge in the Brazilian Nordeste. Bulk organic geochemistry indicates the vegetative history of the Amazon Basin has been relatively stable during the late Quaternary.

High-resolution stable oxygen isotopic analysis and Mg/Ca paleothermometry undertaken on the near-surface-dwelling planktic foraminiferal species *Globigerinoides ruber* provide a picture of paleoceanographic forcings in the western equatorial Atlantic. The Nordeste core exhibits a rapid warming of ~3.5°C between the last glacial maximum and the early Holocene. Furthermore, in almost all cases during the last glacial stage, there was a 0.5 to 2°C warming of the western equatorial Atlantic during the periods of high Ti/Ca ratios that correlate with slowdown of AMOC. Thus, as observed in some previous studies, the western equatorial Atlantic was warm and the adjacent southern tropical continent was wet coincident with increased glaciation in the high latitude northern hemisphere.

Interstitial pore waters were analyzed from the Amazon Fan and Brazilian continental slope to determine early diagenesis, methane hydrate potential and its geographic variability. Interstitial waters were measured for total Mg, Ca, SO₄²⁻, alkalinity, Cl, and δ¹⁸O, combined with seismic bottom simulating reflectors (BSRs) to investigate early diagenesis. Interpolated maps of sulfate reduction, sedimentation rate and maximum alkalinity were produced to examine geographic variability in early diagenesis and methane hydrates. Inorganic precipitation of calcium and magnesium,

likely via dolomite and siderite, correlates with a decrease in alkalinity through inorganic carbonate precipitation and methanogenesis, but alternatively increases through redox pathways, specifically sulfate reduction.

Through multiple lines of evidence it is likely that there is extensive methane hydrate occurrence on the Amazon continental shelf. A combination of: 1) A rapid linear decline in sulfate at an unusually shallow depth; 2) Uncommonly high sedimentation rates and terrestrial organic carbon input; 3) Significant variability in what should be conservative chloride concentrations; 4) Large variability in interstitial oxygen isotopes; 5) Widespread occurrence of BSRs provide substantial support for the presence of methane hydrates. Sulfate reduction rates are lowest along the main Amazon channel, with highest values distal of the main channel. Sedimentation rates are relatively low on the continental shelf and surrounding the main channel and highest toward the distal end of the main channel. Sulfate reduction rates provide key insights to the potential geographic variability of methanogenesis and methane hydrate formation. Given the tremendous influx of sediment from the Amazon River, this region is prone to massive sediment failures, subsequent release of methane hydrates, as well as significant potential for natural gas hydrates.

Dedication

This dissertation is dedicated to my parents, Gregory Alan Nace and Barbara Jane Nace for instilling in me a passion to explore my surroundings and appreciation of an infinitely complex world. This dissertation is also dedicated to Haley Davis, for her continuous and unwavering support.

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Introduction

The Amazon River is the world's largest by discharge, occupies the largest drainage basin on earth at 6 billion km², transects 6500 km of the South American continent from the Andean Mountains to the Brazilian coast, and annually transports ~0.8 Gt of suspended sediment to the western equatorial Atlantic (Sioli, 1984; Filizola and Guyot, 2004; Archer, 2005). The Amazon River is located in the Brazilian tropics, a region that drives large scale Walker and Hadley circulation and is a source of significant global heat export (Wells, 1997). The tropics drive this redistribution of solar radiation through large scale sensible (warm, tropical air masses) and latent heat export. In addition, the Amazon Basin is a vital engine to atmospheric circulation, where deep atmospheric convection supplies moisture to the middle and upper troposphere (Hastenrath, 1991). Variability in the tropical climate would thus propagate globally. The climate of the tropics is largely driven both by precessional and sub-orbital changes on millennial timescales. Precessional variability is driven by top of the atmosphere solar insolation, while high latitude northern hemisphere glaciation, and subsequent effects on ocean circulation, drive sub-orbital variability. Thus, it is essential to understand the mechanisms that drive tropical climate variability on millennial timescales.

The Brazilian continental margin is home to the only surface boundary current that crosses the equator, the North Brazil Current, and thus presents a key link in the interhemispheric connection of Atlantic meridional overturning circulation (AMOC). Despite robustness in global climate models as to the oceanic response to northern hemisphere cold periods such as Heinrich events, it is unclear as to the mechanisms that

drive this variability in AMOC. Why and by what mechanisms is there such a robust connection between AMOC and tropical Atlantic variability? AMOC forcing is commonly attributed to high latitude variability, despite the common understanding that the tropics drive much of oceanic and atmospheric circulation through differential solar radiation. Here I address concerns and potential for alternative mechanisms that drive a slowdown in AMOC and its implications for South American paleoclimatology.

The Amazon fan and Brazilian continental margin are ideal locations to study early diagenesis in marine sediments. A combination of rapid sedimentation rates, abundant terrigenous organic matter, and frequent sediment mass movement events present this region as both an interesting and pertinent site to study interstitial water chemistry and early diagenesis. In addition to understanding carbonate chemistry in pore fluids, remineralization of terrigenous organic matter gives clues to sulfate reduction and methanogenesis. This, combined with bottom simulating reflectors, provides insight to the geographic extent of methane hydrate formation as well as geographic variability of early diagenesis throughout the fan and continental margin.

If the Brazilian tropics largely act as the engine to drive global heat and precipitation reorganization, the Brazilian continental margin is the exhaust. The Amazon fan and continental margin act to record the bulk mean terrigenous sediment coming from the Amazon and Parnaiba basins, thus, one is able to characterize a large heterogeneous basin by using a single core. Currently, however, there is a lack of high-resolution records of paleohydrology and paleoceanography for the Amazon Basin and incomplete representations for the Brazilian Nordeste. To obtain a complete

understanding of the system as a whole, it is necessary to characterize three distinct, yet interconnected regions: 1) reconstruction of continental hydrology and organics presents a large picture understanding of advective precipitation and the moisture balance of tropical South America; 2) local oceanography provides an understanding of oceanographic forcing of local climatology as well as responses to global climatic events; 3) interstitial water chemistry on the Amazon fan and continental margin provides insight into diagenetic processes, fate of terrestrial organic matter, and potential for methane hydrate formation.

The objectives of this dissertation are: 1) to reconstruct the hydrology and sedimentology of the Amazon Basin and the Brazilian Nordeste during the late Quaternary; 2) to determine whether changes in hydrology in tropical South America were associated with changes in both local oceanography and global climate; 3) to reconstruct sea surface temperature and salinity of the western equatorial Atlantic in order to evaluate the role of past tropical Atlantic variability in climate forcing of tropical South America; 4) to determine the geographic variability of early diagenesis within the Brazilian continental slope and potential for methane hydrates.

In Chapter 1, I reconstruct Amazon Basin hydrology, organics, and local oceanography of the western equatorial Atlantic for the past 30 ka. High-resolution XRF analyses of Fe, K Ti, and Ca as well as $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ of sedimentary organic carbon are used to define the hydrologic history of the adjacent continent. In addition, high-resolution stable oxygen isotopic analysis and Mg/Ca paleothermometry was undertaken on foraminiferal species *Globierinoides ruber*. This provided a reconstruction of sea

surface temperature and sea surface salinity in the western tropical Atlantic, a region that forces climate of the Amazon Basin.

In Chapter 2, Paleoclimate/paleoceanographic reconstructions of the Brazilian Nordeste and western equatorial Atlantic are determined on a sediment core located on the Brazilian continental slope for the past 110 ka. High-resolution XRF analyses of Fe, Ti, K and Ca are used to define the paleohydrologic history of the northern Nordeste and the Parnaíba River drainage basin. In addition, high-resolution stable oxygen isotopic analysis and Mg/Ca paleothermometry undertaken on the near-surface-dwelling planktic foraminiferal species *Globigerinoides ruber* provide a picture of paleoceanographic forcings in the western equatorial Atlantic.

In Chapter 3, interstitial pore waters were analyzed from the Amazon Fan and Brazilian continental slope to determine early diagenesis, methane hydrate potential and its geographic variability. Interstitial waters were measured for total Mg, Ca, SO_4^{2-} , alkalinity, Cl, and $\delta^{18}\text{O}$, combined with seismic bottom simulating reflectors (BSRs) to investigate early diagenesis. Interpolated maps of sulfate reduction, sedimentation rate and maximum alkalinity were produced to examine geographic variability in early diagenesis and methane hydrates.

Together, these three chapters provide a complete representation of paleoclimatology of tropical South America, paleoceanography of the western equatorial Atlantic, and sedimentary diagenesis within the Amazon fan and continental margin. These records, combined with several other notable records from South America, provide an integral understanding of the roles tropical South America and the equatorial Atlantic

play globally.

1. Paleohydrology of the Amazon Basin and paleoceanography of the western tropical Atlantic

1.1 Introduction

There has been significant debate among paleoclimatologists as to the precipitation and vegetation record of the Amazon Basin. Haffer (1969) proposed an arid and savannah dominated Amazon Basin during the Pleistocene, coined as the refugia hypothesis. In addition, Van der Hammen and Hooghiemstra (2000) obtained a sediment record from the Sabana de Bogotá and found a decline in rainforest taxa during northern hemisphere cold events, suggesting arid conditions for the Amazon Basin. However, the Sabana de Bogotá is not located in the Amazon Basin and therefore large assumptions on rainforest taxa in the Amazon Basin are problematic. Conversely, the Ocean Drilling Project (ODP) Leg 155 cruise to the Amazon fan found insignificant changes in pollen composition (Haberle and Maslin, 1999) and organic biomarkers (Kastner and Goñi, 2003) throughout the last glacial maximum (LGM), suggesting no disruption of Amazon forestation, a conclusion also supported by Colinvaux et al. (2000). Bush et al. (2004) supported non-aridity during the LGM in the Amazon Basin based on a paleoecological study on Lago Consuelo in the Peruvian cloud forests of the Andean Mountains. Recent speleothem records (Nordeste, Wang et al., 2004; Southern Brazil, Cruz et al., 2005; Nordeste, Cruz et al., 2009) demonstrate increased precipitation during North Atlantic cold periods (Heinrich Events, Younger Dryas). Conversely, an eastern Amazon

speleothem record (Wang et al., 2007b; Nace et al., 2010) shows a significant decrease in precipitation throughout the glacial, compared to the interglacial.

It is well documented that North Atlantic millennial-scale climate events (Heinrich, Younger Dryas, Bolling-Allerød, etc.), influence South American climate (e.g. Arz et al., 1999; Baker et al., 2001a; Wang et al., 2004; Peterson et al., 2006; Jaeschke et al., 2007; Baker et al., 2009; Fritz et al., 2010). Much emphasis has been placed on the Atlantic Meridional Overturning Circulation (AMOC) as a possible trigger for this interhemispheric influence (Broecker et al., 1990). One postulated mechanism is that fresh water input into the North Atlantic from melting of continental ice brought about a slowdown of the AMOC, a reduction in the northward heat transport, decrease in the tropical North-South Atlantic temperature gradient, and a southward shift in the mean annual position of the Atlantic Intertropical Convergence Zone (ITCZ) (Crowley, 1992; Nobre and Shukla, 1996; Broecker et al., 1998; Johns et al., 1998; Stocker, 1998; Vellinga and Wood, 2002; Chiang et al., 2003). However, there has been recent debate as to unaddressed questions with regards to hosing experiments. In particular, there is disagreement about the structure or role of AMOC in effecting northern hemisphere cooling (Wunsch, 2010). High latitude northern hemisphere cold events typically result in drier conditions in northern South America (Cariaco Basin, Peterson et al., 2006), increased runoff in the Nordeste region of Brazil (Arz et al., 1998; Arz et al., 1999), wet conditions in the Andean Altiplano (Baker et al., 2001a; Baker et al., 2001b; Fritz et al., 2010) and increased precipitation inferred from speleothems in southern tropical Brazil (Wang et al., 2004; Wang et al. 2007a; Cruz et al., 2009; Wang et al. 2007b).

As noted above, there have been ample studies which attempt to characterize the Amazon Basin during the Late Quaternary, yet most are subject to biased records or incomplete data to fully illustrate the basin and its interactions with local oceanography. Many studies within the Amazon Basin are single point studies, measuring vegetation or precipitation in a geographically limited sense, without the ability to discern differences in northern vs. southern hemisphere, west vs. east, lowland vs. highland. Therefore, their studies are inherently biased and not ideal to make large scale conclusions about the Amazon Basin. Although there are certain disadvantages to characterizing a large heterogeneous region by analyzing a core offshore the Amazon River's mouth, this remains a better strategy than characterizing an entire basin by analyzing one local record. Currently, however, there are no long duration records from the Amazon fan that cover hydrology and oceanography. The presented record affords the opportunity to address large scale hydrological and oceanographic questions about the Amazon Basin and adjacent tropical Atlantic. Although this record is from a single core, the source of terrestrial sediment to this site is a conglomerate of sediment from across the entire Amazon Basin. This provides an opportunity to evaluate how the Amazon Basin as a whole responds to external forcings, both through local oceanography and global climatology. Here I present a 30 ka sediment core record of Amazon hydrology, surface ocean temperature and salinity, and bulk organic chemistry taken from the Amazon fan.

1.2 Study Area

The study area is located off the northeastern continental slope of Brazil (4°N) on the Amazon fan sedimentary complex, approximately 450 km from the mouth of the Amazon River (Figure 1). Seismic reflection profiling during the ODP Leg 155 cruise found that the Amazon fan is primarily composed of thick cannel levee sequences, deposited by turbidity currents (Flood et al., 1997). Sedimentation rates during the last glacial were orders of magnitude higher than modern average pelagic rates and were significantly reduced during warm interstadials such as the Holocene. Consequently, modern sediment on the upper Amazon fan and continental slope has high carbonate content (~40 wt.%, Flood et al., 1997), with relatively low sedimentation rates. During glacial conditions, sea level is up to 120 m below the current level, moving the Brazilian coast to the edge of the continental shelf and discharging Amazon River sediment directly to the continental slope and Amazon fan (Damuth and Kumar, 1975).

Modern discharge in the Amazon River varies by a factor of 2.5 annually, with a minimum in November and December and a maximum in May and June (Edmond et al., 1981). Sediment supplied to the Amazon fan is dominated by silt and clay during glaciation, with organic matter derived from both the lowland basin and upland Andes. During interglacial intervals, most of the suspended sediment from the Amazon plume is entrained by the northwestward flowing North Brazil Current (NBC) and deposited in the inner shelf (Kuehl et al., 1986). The maximum extent of the Amazon plume extends as much as 200 km offshore and 700 km along the continental shelf toward the northwest,

largely dictated by the NBC and local prevailing winds (Edmond et al., 1981). The low salinity Amazon plume is on average 5 m thick, with sufficiently transparent water for photosynthesis at approximately 20 to 40 km offshore (Demaster et al., 1986). At present, however, the Amazon plume's high-suspended sediment load and low salinity has little affect on surface waters directly above the continental slope and Amazon fan.

At 10°S the South Equatorial Current (SEC) bifurcates as it reaches the Brazilian continental slope into a southward flowing Brazil Current and a northward flowing NBC, which develops into a strong surface boundary current, up to 300 km wide (Schott et al. 1995; Stramma et al. 1995). The northwestward flowing NBC currently entrains the majority of sediment discharged from the Amazon River across the continental shelf, diverting the primary sediment source away from the Amazon fan. However, during glacial periods and sea level lowstands, the NBC is displaced eastward. Modern mean annual SST and SSS over the study site are 27.6°C and 34.5‰, respectively (Antonov et al. 2010; Locarnini et al. 2010).

The major circulation patterns responsible for precipitation in the Amazon are the ITCZ and the South American Summer Monsoon (SASM). The ITCZ results from the convergence of the northeasterly and southeasterly trade winds around the location of sea surface temperature maximum and surface pressure minimum (Xie and Carton, 2004). This convergence results in convection, a band of anomalous precipitation and subsequent latent heat release that fuels large-scale atmospheric circulation (Webster, 2004). The ITCZ's meridional location is dictated by seasonally varying solar insolation, oceanic heat transport, surface temperature and pressure. The ITCZ brings seasonal

rainfall to the eastern coast of South America, from approximately 10°N in August-September to the equator in March. The SASM is the primary mechanism that delivers precipitation into the interior of the South American continent and Amazon Basin. In the austral summer, when southern hemisphere insolation is at a maximum, a thermally induced low-pressure convective system develops over most of the Amazon Basin (Zhou and Lau, 1998). Moisture from the tropical Atlantic is advected westward by anomalously strengthened trade winds into the Amazon Basin and Andean foothills, then directed southeastward as part of the Andean Low-Level Jet. Simultaneously, the Andean Low-Level Jet converges with the subtropical high-pressure system and the subtropical Westerlies, developing the South Atlantic Convergence Zone (Zhou and Lau, 1998).

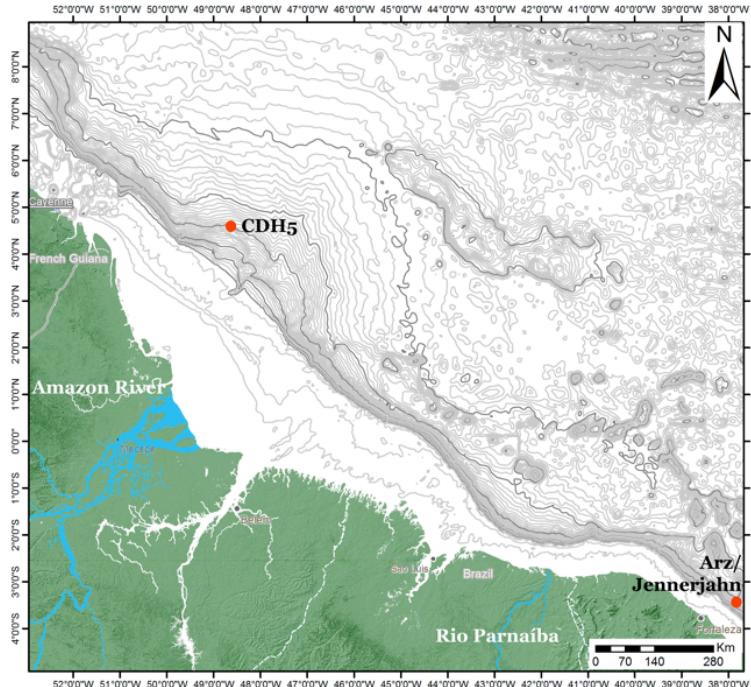


Figure 1: Bathymetric map containing core location of CDH5.

1.3 Materials and Methods

A piston core, CDH5 (32.2 m in length, 04° 27.72' N, 048° 36.94' W), was collected during a cruise on the R/V Knorr (KNR197-4) on the Brazilian continental slope at water depth 1708 m in February 2010. Core CDH5 was collected from a continuous, conformable sediment sequence supported by high-resolution 3.5 kHz seismic reflection survey (Figure 2). In addition, coupled box (46 cm total length) and gravity (3.1 m total length) cores were collected at the same site to ensure recovery of the uppermost sediment column. Cores were continuously logged shipboard with a Geotek logger for magnetic susceptibility (MS). Refrigerated cores were shipped to WHOI for storage and subsampling.

Mixed assemblage planktonic foraminifera were picked from the 250-350 μm size range for ^{14}C dating. Twenty-six radiocarbon dates were undertaken on foraminifera samples, with twenty-three of the samples having bulk sedimentary organic matter dates from the same intervals (Table 1). Samples were dated by AMS radiocarbon analysis at the National Ocean Sciences Accelerated Mass Spectrometer (NOSAMS) Facility, Woods Hole Oceanographic Institute. Raw radiocarbon ages were converted to calendar years using the ‘Fairbanks0107’ calibration curve (Fairbanks et al., 2005). Foraminifera ages were corrected for marine reservoir effect assuming a constant 400-year reservoir age (Bard, 1998). No reservoir age was needed for the organic matter dates as the terrestrial organic carbon is primarily derived from atmospheric carbon during the glacial (Eglinton et al., 1997).

All of the cores (CDH5, GGC4, BC3) were subsampled at 10 cm intervals for bulk analysis of total organic carbon and nitrogen, $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ of sedimentary organic matter. Samples were dried in an oven at 60°C and pulverized using a mortar and pestle. Stable carbon and nitrogen isotope analyses, as well as percent organic carbon and total nitrogen, were measured in the Duke University Environmental Stable Isotope Laboratory on a Carlo-Erba Elemental Analyzer and Thermo Finnigan Delta+XL, with a precision of $\pm 0.2\%$.

Sediment was sampled at 1cm intervals in the box core and at 20 cm intervals in the gravity core and piston core for foraminiferal analyses. Sediment samples were wet sieved and the planktonic foraminiferal species *Globigerinoides ruber* (white) was picked from the 250-350 μm size range for analysis of oxygen stable isotope and analysis of magnesium and calcium concentrations. Stable isotope measurements were made on a Finnigan Kiel-III automated carbonate preparation device directly coupled to a Finnigan Delta Plus ratio mass spectrometer in the department of Geoscience at the University of Massachusetts in Amherst. All values are reported with respect to the standard Vienna Pee-Dee Belemnite (VPDB). Picked planktonic foraminiferal samples were cleaned and prepared for Mg/Ca analyses using the established procedures in Barker et al. (2003) including a reductive step to remove oxide contamination. Mg and Ca concentrations were measured on a Spectraspan 7 direct current plasma (DCP) atomic emission spectrometer in the Duke University Division of Earth and Ocean Sciences. Analytical precision on internal standards is $\pm 1.7\%$. Whole sample replicates were conducted on every sample, with an average precision of 2.0% (standard deviation divided by mean).

Sea surface temperature (SST, °C) was calculated from Mg/Ca ratios using a relationship obtained by using Anand et al. 2003 core-top calibration in the tropical Atlantic ($Mg/Ca=0.38\exp(0.09*T)$). Despite a variety of Mg/Ca paleothermometry calibration studies, there remain limitations in the proxy. Assumptions must be made that core top calibration studies are valid for a specific study site, while noting variability in core top studies. It is commonly accepted that Mg/Ca is primarily influenced by temperature, but assumptions on geographic and temporal variability are inherent in any proxy. Recent studies have demonstrated the effect large changes in salinity have on foraminifera Mg/Ca composition (Nürnberg et al., 1996; Ferguson et al., 2008; Kisakurek et al., 2008). Nürnberg et al. (1996) showed that salinity changes of greater than 10 psu affect Mg/Ca signal in *Globigerinoides sacculifer* culturing studies, whereas minor changes in salinity (<3 psu) showed no change in foraminiferal Mg concentrations. Recent sediment foraminifera data from the Mediterranean Sea show that large increases in Mg/Ca values only occur when foraminifera are living in high salinity environments of >36.5 psu, with no evidence that Mg/Ca ratios are affected in salinities lower than 36.5 psu (Ferguson et al., 2008). Therefore, considering the modern annual mean salinity at the study site of 34.5‰, the salinity affect on Mg/Ca SST is likely to be minimal. The $\delta^{18}\text{O}_{\text{sw}}$ of the seawater was calculated using the original temperature and $\delta^{18}\text{O}$ relationship derived for *Orbulina universa*, by Bemis et al. (1998) of $T=14.9-4.8(\delta^{18}\text{O}_c - \delta^{18}\text{O}_{\text{sw}})$, which has been shown to be applicable to *G. ruber* (Thunell et al., 1999) where T is in °C and $\delta^{18}\text{O}_c$ is $\delta^{18}\text{O}$ of the *G. ruber* shell. The $\delta^{18}\text{O}_{\text{sw}}$ is reported in terms of Vienna standard mean

ocean water (VSMOW) by subtracting 0.27‰ from the calculated $\delta^{18}\text{O}_{\text{sw}}$ (Bemis et al., 1998).

Bulk sedimentary chemistry was analyzed on the whole gravity and piston core, using an ITRAX X-ray fluorescence spectrometer in the Coastal Systems lab at the Woods Hole Oceanographic Institute. Measurements were determined on split core sections at intervals of 2 mm. Ratios of Ti and Ca (counts per second) were used to determine terrigenous sediment contribution in core sites. The following elements were determined: Si, P, S, Cl, K, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, As, Se, Br, Rb, Sr, Zr, Ag, Cd, I, Cs, Ba, Ta, W, Re, Au, Hg, Tl, Pb, U. Despite the many advantages to XRF scanning, there remain several limitations. XRF does not measure absolute concentrations of elements, but rather relative amount, which are influenced by sediment matrix affects. Therefore, the elemental ratios are used to normalize for density changes down core. In addition, assumptions must be made on the primary element that is controlling variability in the XRF elemental ratio. An in depth understanding of a particular study site will support interpretations of elemental ratios and the controlling environmental influences on the system.

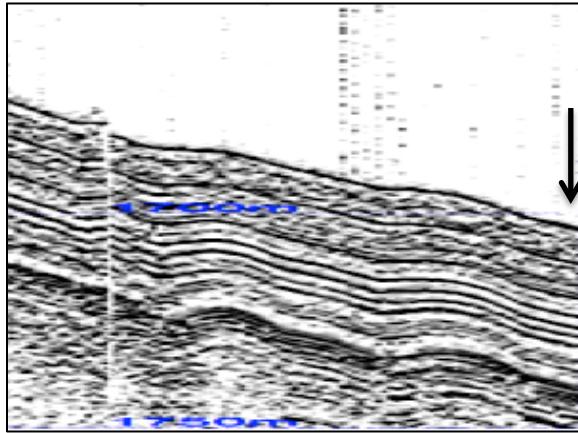


Figure 2: A 3.5 kHz seismic reflection profile of the CDH5 core site.

1.4 Results

1.4.1 Age Determination

The CDH5 piston core did not recover the upper ~1m of sediment, thus both the box and gravity core are used in our age-depth model. This model is based on 23 foraminifera ^{14}C AMS ages, in addition ^{14}C determination was made on 23 samples of bulk organic matter in the same intervals (Table 1 and Figure 2). The foraminiferal age-depth model is believed to be representative of depositional age, whereas the age-depth relationship given by analysis of organic carbon contains a nearly constant 1700-year “inherited” age offset. The XRF, foraminifera and MS records are plotted using the foraminifera age model, while the C/N and $\delta^{13}\text{C}$ organics are plotted on the ^{14}C organic age model. This provides an instantaneous “depositional” age for the foraminifera and detrital sediment, compared to the vegetative age for the organics. Average Holocene sedimentation rate within the CDH5 core is 10 cm/ka based on the foraminifera age model, while glacial sedimentation rate was approximately 200 cm/ka. The average age

offset between foraminifera and organic carbon ages is 1700 years and relatively constant throughout the core, with the largest offset of ~3700 years occurring at 10 ka and the smallest offset of 400 years occurring at ~29 ka. The depth of CDH5 was offset by 115 cm based upon magnetic susceptibility measurements on CDH5 and the gravity core GGC4. This offset compensates for the non-recovery of the upper 115 cm of sediment in the CDH5 core. Gravity core GGC4 and box core BC3 are used in the upper 115 cm to reconstruct the sediment column.

In CDH5, the interval from 670 to 1330 cm (17.3 to 19.9 ka) was altered due to a coring artifact. Heavily stained foraminifera with glacial assemblages were found along with pure white interglacial assemblages in this interval. Radiocarbon ages within this interval of mixed stained and white foraminifera are plotted in Figure 3 as green diamonds. To varying degrees, the samples are biased toward younger ages, supporting modern (interglacial) foraminifera contamination. The coring artifact appears to have smeared Holocene foraminifera down the core to produce this unnatural assemblage mixture. A radiocarbon age was determined on solely the stained foraminifera for the 1000 cm sample, which provided a date consistent with the slope of the rest of the record, again supporting contamination of modern, white foraminifera. The foraminifera age model does not take into account the contaminated ages represented as green triangles.

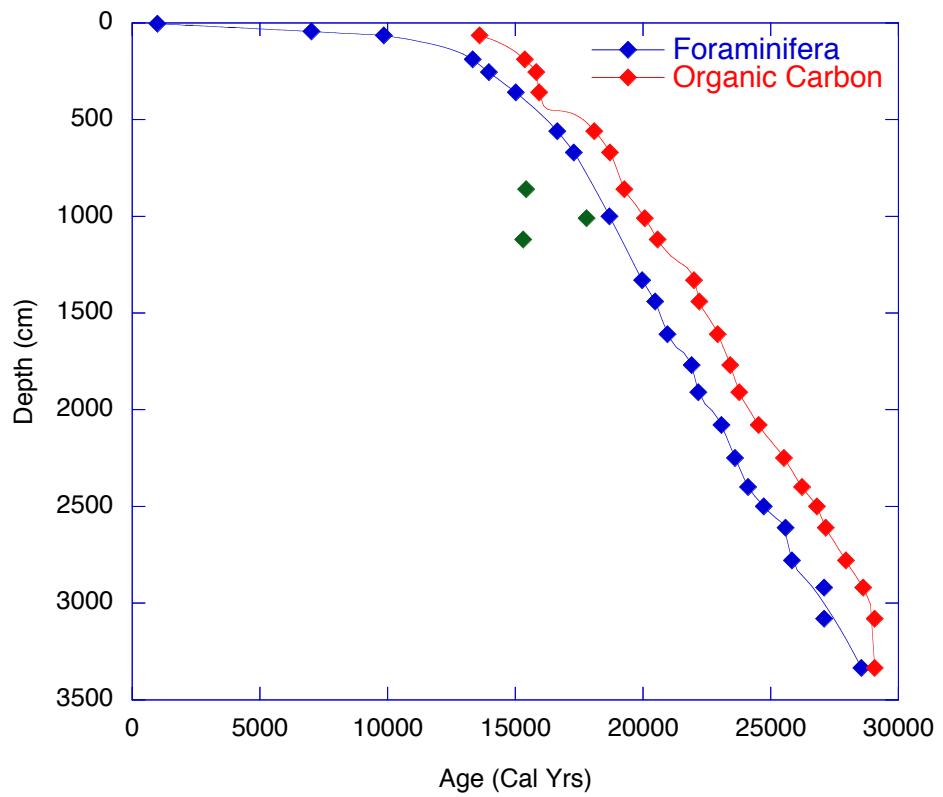


Figure 3: Age-depth model of combined cores CDH5/GGC4/BC3, foraminifera derived radiocarbon ages in blue, organic carbon ^{14}C ages in red, contaminated samples in green. Samples were taken in the same intervals where duplicate ages are reported.

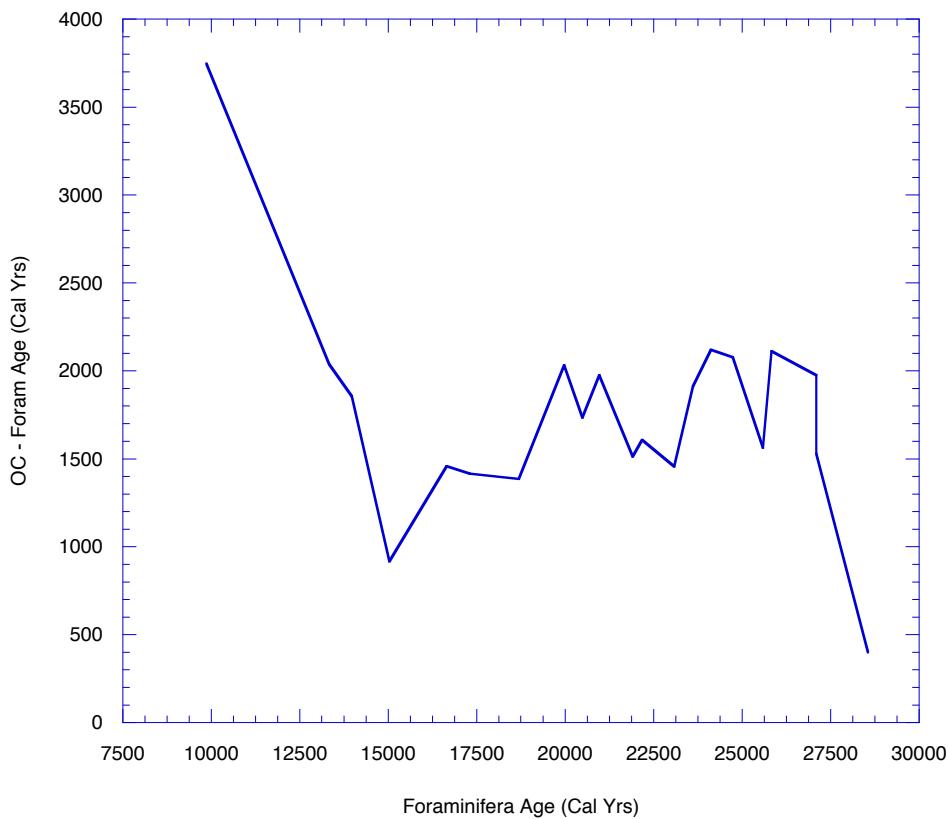


Figure 4: Difference between the organic carbon and foraminifera ages, plotted in terms of foraminifera ages.

1.4.2 XRF and Magnetic Susceptibility

The Ti/Ca ratio often prescribed as an indication of terrigenous versus pelagic derived sediment source. When referencing elemental analyses on the XRF, it is convention to use ratios to avoid dilution problems associated with using a single element. Titanium, which is little affected by diagenetic processes, is likely associated with clay minerals and is a reliable indicator of variable input of terrestrial detrital sediment (Jansen et al., 1992; Yarincik et al., 2000). An important exception is the

interval between 670 and 1330 cm (19.9 to 17.3 ka) where a coring artifact alters this ratio, as discussed above and has been taken out in Figure 4. Ti/Ca ratios are influenced by changes in the calcium carbonate content in the sediment, which can be altered by changes in productivity, dissolution or dilution. The presence of aragonitic pteropods throughout the core suggests that dissolution is not significant. In addition, Ruhlemann et al. (1996) found that paleoproductivity in the western equatorial Atlantic remained low and mostly invariant throughout the past 30 ka, suggesting productivity does not greatly alter Ca concentration at this site. Therefore, I interpret increases in Ti/Ca ratio to be mostly produced by increases in terrigenous sediment input combined with consequent dilution of biogenic carbonate. Thus, Ti/Ca is likely a proxy for riverine discharge and similarly average precipitation over the Amazon Basin. The presented Ti/Ca record is smoothed with a 5-point running average to decrease the large amount of high frequency variability. With the transition from glacial to interglacial conditions and sea level rise, Ti/Ca begins to decrease at ~13 ka, reaching its interglacial value at 11 ka, coincident with the end of the Younger Dryas (YD). The Ti/Ca record shows significant variability throughout the record, with large, high frequency oscillations. The northern hemisphere climate event Heinrich 2 is associated with an abrupt and large increase in Ti/Ca, while Heinrich 1 presents multiple oscillations in Ti/Ca. The Bolling-Allerød (BA), a northern hemisphere warm period appears as a large increase in Ti/Ca, while there is a small but discernable peak in Ti/Ca during the YD.

Mulitza et al. (2008) recently utilized the Fe/K ratio as a proxy for aridity in the Sahel of North Africa, with Fe/K ratios showing a close relationship to African

precipitation. Wetter conditions increase chemical weathering of sediments, which leads to increased concentrations of iron (e.g. less mobile rutile) compared to the more mobile potassium (Moreno et al., 2006). In their study, Mulitza et al. (2008) found rapid decreases in Fe/K, an indication of aridity, associated with Heinrich events. Here I utilize the Fe/K proxy presented by Mulitza et al. (2008) as a precipitation and degree of weathering indicator for the Amazon Basin. Although Fe is potentially altered by redox, the close correlation with Ti (a redox insensitive mineral) in this core supports the validity of the Fe signal. The presented Fe/K record is a 5-point moving average, as the original record contains many brief and rapid spikes in Fe/K, most likely associated with iron sulfide nodules. Since Fe and K are continentally derived elements, the proxy is largely insensitive to changes in sea level. During Heinrich 1 and 2 there are increases in Fe/K, much more broadly so in Heinrich 1, lasting approximately 3000 years. Unlike Ti/Ca, Fe/K does not show a spike during the B-A or the YD.

Magnetic susceptibility is a measure of the proportion of iron-bearing minerals in sediment that is magnetized under a magnetic field (e.g. Dearing, 1994). Thus, high magnetic susceptibility values in general indicate higher proportions of iron oxide minerals. Magnetic susceptibility decreases similar to Ti/Ca at 12 ka with the rise in sea level. During the glacial, the only major change is during the B-A, which is shown as a large peak in MS. The record is very constant throughout the rest of the record, including during Heinrich 1 and 2.

1.4.3 Foraminifera $\delta^{18}\text{O}$ and Mg/Ca derived paleothermometry

Oxygen isotopes and Mg/Ca temperature derived from planktonic foraminifera are presented along with deduced $\delta^{18}\text{O}$ of the upper seawater ($\delta^{18}\text{O}_{\text{sw}}$). The denoted $\delta^{18}\text{O}_{\text{sw}}$ contains both salinity changes due to sea level and local, potentially fresh water, riverine mixing. In the coring artifact interval only heavily stained foraminifera were picked, thus the $\delta^{18}\text{O}$ and Mg/Ca record is valid throughout this interval, supported by the age of heavily stained, glacial assemblage foraminifera from this section. As with all other proxies, temperature increases from glacial (~22-23°C) to interglacial (~25°C) conditions in both gradual and rapid transitions. Holocene temperatures range from ~24-26.5°C, and a peak of 26.5°C at 4 ka. Unlike the detrital proxies, temperature, $\delta^{18}\text{O}$ and $\delta^{18}\text{O}_{\text{sw}}$ do not record significant changes during the YD and B-A northern hemisphere climate events. Heinrich Events 1 and 2 (H1 & H2) are associated with rapid increases in temperature of 3.3 and 3.4°C, respectively; with H2 followed by a decrease in an equivalent amount of temperature and H1 followed by a smaller 1.2°C decrease in temperature. The coldest values recorded are associated with a cold trough immediately before H1, with temperatures of 21°C and marks end of glacial cooling and beginning of interglacial warming in this site. The $\delta^{18}\text{O}$ of carbonate reveals similar general trends as temperature, with a Holocene value of approximately -2.2‰ and a glacial value of approximately -0.25‰. Although H1 is exhibited as a decrease of ~1‰, H2 does not appear as a change in isotope value. Beginning at 1.3 ka, $\delta^{18}\text{O}$ values decrease from their Holocene average of -2.2‰ to -3.3‰ for the youngest sample measured. Salinity, measured as $\delta^{18}\text{O}_{\text{sw}}$, is generally very similar to the $\delta^{18}\text{O}$ of carbonate. There is little

variability of salinity in the glacial, where sea level changes do not greatly affect the salinity values. One significant change is a freshening (and possible Amazon fresh water influence) of the upper ocean water coeval with the cooling exhibited immediately before H1. In addition, $\delta^{18}\text{O}_{\text{sw}}$ in the late Holocene reveal rapid changes in salinity, suggesting freshening of the western equatorial Atlantic during the past 2.7 ka, possibly tied to increased fresh water input from the Amazon River.

1.4.4 Organic Matter

Bulk organic matter proxies $\delta^{13}\text{C}$ of organic matter ($\delta^{13}\text{C}_{\text{om}}$) and C/N molar ratio were employed to determine general, synoptic vegetative changes in the Amazon Basin. In this core, changes in $\delta^{13}\text{C}_{\text{om}}$ and C/N are believed to be changes in a two end member mixing of pelagic and detrital sediments and thus largely reflect sediment load. The $\delta^{13}\text{C}$ and C/N ratio are plotted using the organic carbon age model, to give the vegetative age of the organics as opposed to the depositional age. Both $\delta^{13}\text{C}_{\text{om}}$ and C/N show transitions to more marine sources starting at 15ka and reach their modern values by 12 ka, in line with sea level rise and a transition to a pelagic sediment source. Heinrich 1 is one of the largest peaks in both proxies, with the C/N ratio increasing by 2, and $\delta^{13}\text{C}_{\text{om}}$ decreasing by 2‰. The organic proxies do not significantly change during Heinrich 2, the B-A or YD, however there is an increase in C/N ratio before the onset of Heinrich 1.

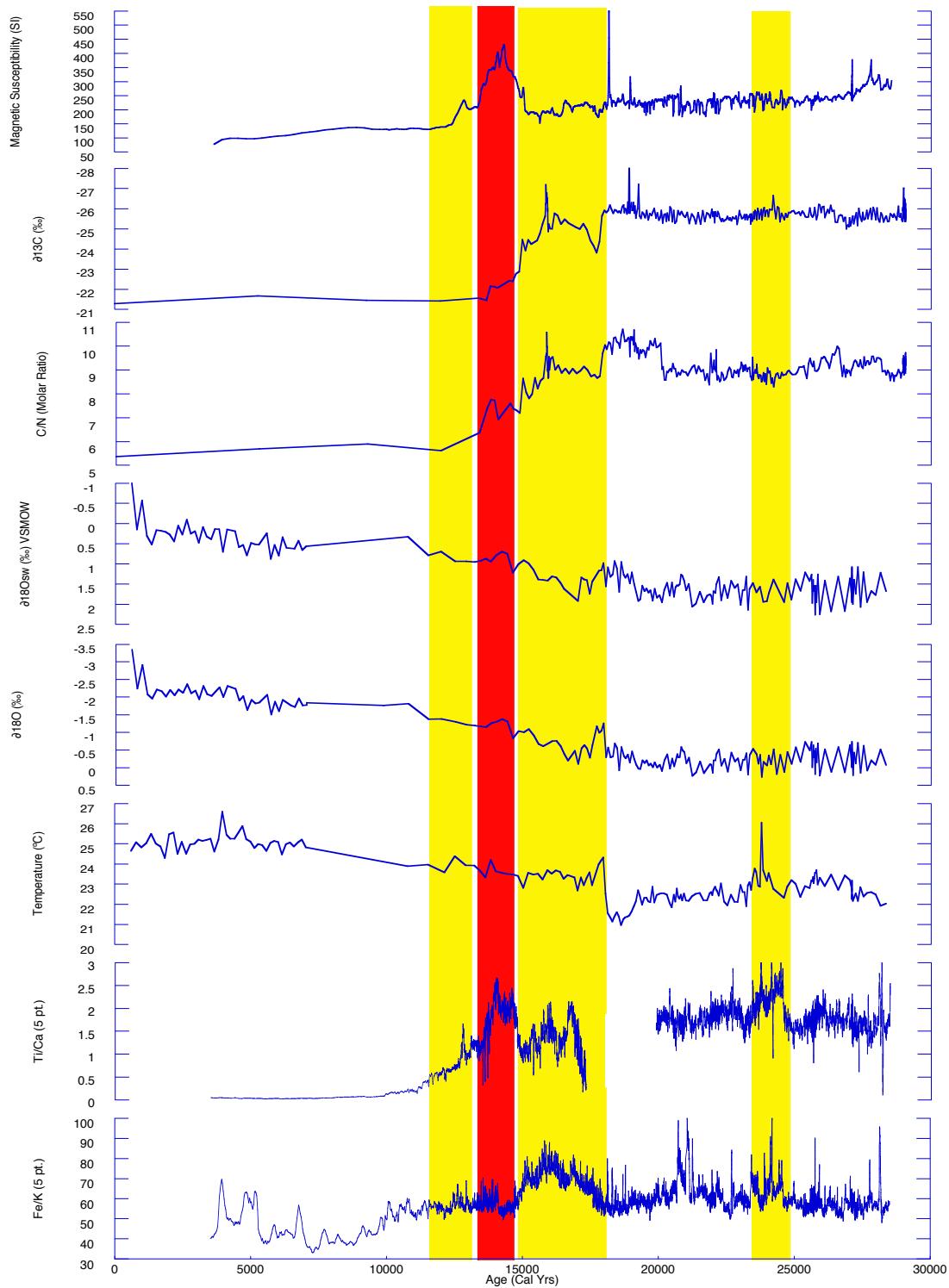


Figure 5: Measured proxies presented versus age in calendar years before present based on the foraminifera ^{14}C age model. The yellow highlights represent the YD, Heinrich 1 and Heinrich 2, from left to right. The red highlight represents the B-A. The interval between 19.9 and 17.3 ka is taken out of Ti/Ca due to a coring artifact.

1.5 Discussion

1.5.1 Continental Hydrology

The age model derived for CDH5 provides interesting insights into the transport history of terrestrial organic matter to the Amazon fan. The average age offset between foraminifera and organic carbon is 1,700 years, in line with previous research on the modern age of particulate organic matter (POM) from the Amazon River mouth (Druffel et al., 2005). At 45 cm, the difference in ages increases to 3,700 years, over twice the average, suggesting a longer residence time of organic matter in the Amazon Basin system. Alternatively, the increase in “residence time” of organic matter could be a result of grain size fractionation following a rise in sea level. A higher fraction of fine grain sediment would reach the Amazon fan during higher sea level, thus fractionating the ages associated with fine versus comparatively larger grain sizes. At the bottom of the core, foraminifera and organic carbon ages are 400 years apart, suggesting more rapid transport of terrestrial organic matter to the Amazon fan. Of note is that there is little variability of age offsets throughout the glacial, suggesting stability in organic matter residence times in the Amazon Basin. Throughout the late glacial, C/N and $\delta^{13}\text{C}$ do not change significantly, suggesting stable vegetation in the Amazon Basin. This does not refute the refugia hypothesis, as I am unable to discern the extent of vegetation and the presence or

absence of pockets of endemism, only that the summed vegetative structure of the Amazon Basin appears to have been constant throughout the study period. The only period with significant change in C/N and $\delta^{13}\text{C}$ is during Heinrich 1, where both records show a brief decrease, followed by a rapid increase. The relative contribution of terrestrial organic matter increases during this interval, supporting a humid environment. The most obvious structure in Figure 4 is the decrease of all proxy values following the Bølling-Allerød (B-A). This is due to sea level rise in response to glacier and ice sheet melting, which drives the Amazon River mouth from discharging directly onto the Amazon fan, to its current location where the NBC transports Amazon sediment northwestward on the continental shelf. Thus, the Amazon fan sedimentology transitions from primarily detrital to pelagic.

Northern hemisphere cold events, Heinrich 1 and 2 are characterized by an increase in Fe/K and Ti/Ca. Fe/K has been shown to indicate physical versus chemical weathering as well as overall aridity. Increases in Fe/K during Heinrich 1 and 2 suggest a more humid environment, associated with higher chemical weathering of sediment compared to physical weathering. For Heinrich 2, a peak in Ti/Ca suggests higher precipitation and riverine discharge during this period. During Heinrich 1, Ti/Ca exhibits two brief peaks. Atlantic ice rafted debris data record two separate peaks during Heinrich 1, a detrital carbonate peak (Heinrich 1b) at ~17 ka and a later peak (Heinrich 1a) exhibiting hematite coated grains at 15-16 ka (Bard et al., 2000; Peck et al., 2007). Therefore, it is interpreted that the first peak at 16.8 ka and the second peak at 15.9 ka are actually Heinrich events 1b and 1a, respectively. Both peaks for H1a and H1b in Ti/Ca

suggest increased precipitation, bounded by a decrease in Ti/Ca in between and following H1a. Fe/K is a proxy for weathering; thus the rapid transitions in Ti/Ca during Heinrich 1 may not have been long enough in duration to alter chemical weathering of Amazon Basin sediment, which appears as a broad peak in Fe/K throughout Heinrich 1. The YD shows up as a small increase in Ti/Ca suggesting a slightly wetter climate during this smaller northern hemisphere cold period, but Fe/K does not change significantly, suggesting no change in weathering within the Basin.

One of the most prominent increases in Ti/Ca and MS occurs during the B-A, a northern hemisphere rapid warming event, suggesting wet conditions in the Amazon Basin. SST, $\delta^{18}\text{O}$ and oceanic salinity during this period do not show any significant changes, denoting that this was a terrestrial or atmospheric, but not oceanographic phenomenon. The B-A corresponds to Melt Water Pulse 1a, the most rapid increase in sea level during the deglacial and hence the most rapid melting of glacial ice during the deglacial period, but estimates of meltwater volume are not large enough to be responsible for this increase (Blodgett et al., 1997). Speleothem precipitation records (Wang et al., 2004; Wang et al., 2007a), Ti/Ca records of northeastern Brazil (Arz et al., 1998) and Altiplano lake level reconstructions (Baker et al., 2001a; Baker et al., 2001b) show the B-A as an anomalously dry period in the southern hemisphere of South America. However, the Cariaco Basin record, which is antiphased with precipitation in the Amazon Basin during northern hemisphere cold events, shows a similar increased runoff during the B-A period (Peterson et al., 2000; Peterson et al., 2006). Although the majority of the Amazon Basin lies in the Southern

Hemisphere, a portion of the Amazon Basin drains the Northern Hemisphere and could be responsible for this increase in precipitation, although it is unlikely that it could influence discharge to that extent. Increased precipitation in the northern hemisphere tropics would decrease Fe/K, as shown in Figure 5, where the three tributaries draining the northern hemisphere (Rio Branco, Negro and Napo) combine for an averaged Fe/K ratio of 0.24, much lower relative to the average modern Fe/K ratio from the downstream Amazon River (0.56). This may at least partly explain the decrease in the Fe/K proxy during the B-A. Unlike Heinrich events, which appear as primarily an oceanographic forcing, the B-A appears to be an atmospheric phenomenon in the Amazon Basin. Jennerjahn et al. (2004) is the only record where B-A is observed as a wet period in the southern hemisphere of South America. The record comes from the Nordeste region of Brazil at 4°S and 800m water depth. Using Fe/Ca ratio based off an XRF scanner, they show a spike in the ratio during the B-A event. Surprisingly, they do not mention the increase during this period, but only address the bordering Heinrich 1 and YD events. Unfortunately, there is still a discrepancy as to the precipitation record presented here and the speleothem precipitation records, leaving uncertainty as to South American aridity during the B-A.

The Amazon fan record presents similarities to the NGRIP oxygen isotope record of temperature in the high northern latitudes (EPICA Community Members, 2006). The Fe/K and Ti/Ca ratio increases during both Heinrich events, implying that these northern hemisphere cold events were coincident with increased Amazon Basin precipitation. The B-A is present as a spike in Ti/Ca, but not in Fe/K. This may be due to bias of the Fe/K

ratio as a higher relative proportion of precipitation comes from low Fe/K tributaries draining the northern hemisphere of the Amazon Basin.

A South American speleothem from Botuverá Cave records millennial climate variability of the SASM during the glacial (Cruz et al., 2005; Wang et al., 2006; Wang et al., 2007a). Botuverá Cave generally agrees with the Fe/K record, with a wet Heinrich 1 and a dry B-A. However, Heinrich 2 is not clearly apparent in the Botuverá record and the YD is not an event in the Amazon record. Largely, this fits in line with cold northern hemisphere events equating to a wet Amazon Basin, and vice versa. In addition, a speleothem from the Nordeste region of Brazil implies wet periods correspond to northern hemisphere stadial events (Wang et al., 2004). An unpublished speleothem record from Paraiso cave in the eastern Amazon (Wang et al., 2007b) also indicates increased precipitation coincident with northern hemisphere cold stadial events. The speleothem records all suggest the Amazon Basin was dry during the B-A, contradictory to what the Ti/Ca record implies.

Figure 5 plots the Fe/K ratios of suspended sediment in the main tributaries of the Amazon River based on the ORE HYBAM dataset (<http://www.ore-hybam.org/>). High Fe/K ratios reflect the presence of highly chemically weathered soils, whereas lower ratios reflect the presence of illite rich potassium sediments, a product of physical weathering. With the exception of Rio Beni, high altitude Andean tributaries have lower Fe/K ratios indicative of high physical weathering of K rich clays and little chemical weathering. This is also applicable for tributaries draining the Brazilian shield regions of the Rio Branco and Rio Tapajos. On the other hand, high Fe/K ratios are

primarily found in the lowland regions of the Amazon Basin, where significant chemical weathering surpasses the degree physical weathering. The two tributaries with the highest Fe/K ratios are the Madiera and Purus, both draining significant lowland rainforests in the southern half of the Amazon Basin and combine for the two largest tributaries of the Amazon River. Changes in the Fe/K ratio at the coring site may be indicative of changes in relative contribution of different tributaries to the total Amazon suspended load. During Heinrich 1 and 2, increases in Fe/K could be due to increased relative precipitation and humidity, causing higher degree of chemical weathering within the Amazon Basin and increased runoff from the Madiera and Purus Rivers. Conversely, during the B-A, when Fe/K is low but Ti/Ca and MS are high, this may be an indication of a greater proportion of Amazon River suspended sediment derived from the northern hemisphere Brazilian shield, which has characteristically lower Fe/K tributaries. Rio Negro, Rio Branco and Rio Napo, the three main tributaries of the Amazon River that drain the northern hemisphere, have low Fe/K ratios and potentially impart a lower than normal Fe/K ratio exhibited during the B-A.

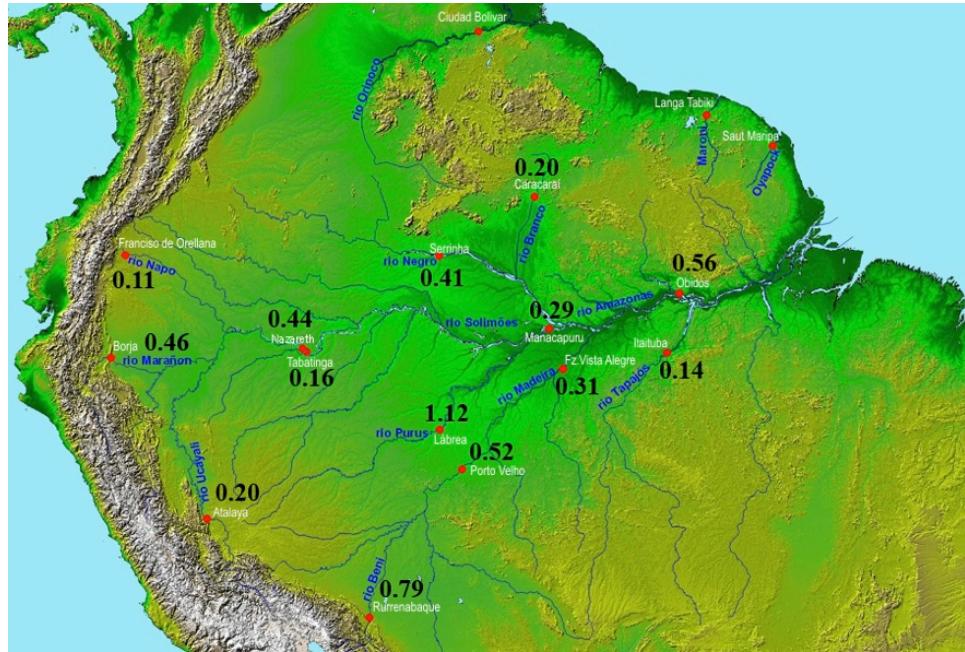


Figure 6: Fe/K ratios for monitoring stations throughout tributaries of the Amazon River. Data is compiled from ORE HYBAM (<http://www.ore-hybam.org/>). Fe and K are averaged for each river throughout the study period, which varies from 1995 to 2011 for each river.

1.5.2 Principal Component Analysis

Principal component analysis was carried out using the XRF elemental dataset (13 variables and 18,414 measurements) to describe trends in variance between the elements measured. This visual interpretation objectively plots patterns in variance as well as correlation and anticorrelation of elements. The first two eigenvectors account for 53.5% of the total variance; the low percentage is due to PCA analysis of several elements with no prominent sedimentological relevance in this system. The first eigenvector accounted for 36% of the variability and is mainly controlled by variation in the continental parameters on the positive end (Fe, Ti, K) and oceanographic elements (Ca, Sr) on the

negative end. The second eigenvector accounted for 17.5% and was controlled by variability mainly in the elements Mn, V, Zr and Fe/K ratio. The elements tend to group into detrital origin (terrestrial vs. marine) or are associated with redox processes. Of note is that Ti/Ca and Fe/Ca plot close to one another, verifying that the two ratios are indeed very similar and Fe is not greatly affected by redox in this core. In addition, Fe/K plots closer to correlating with eigenvector 2 and does not plot closely to Fe/Ca and Ti/Ca. Weathering of less (Fe) vs. more mobile (K) elements on the continental landscape drives the Fe/K ratio.

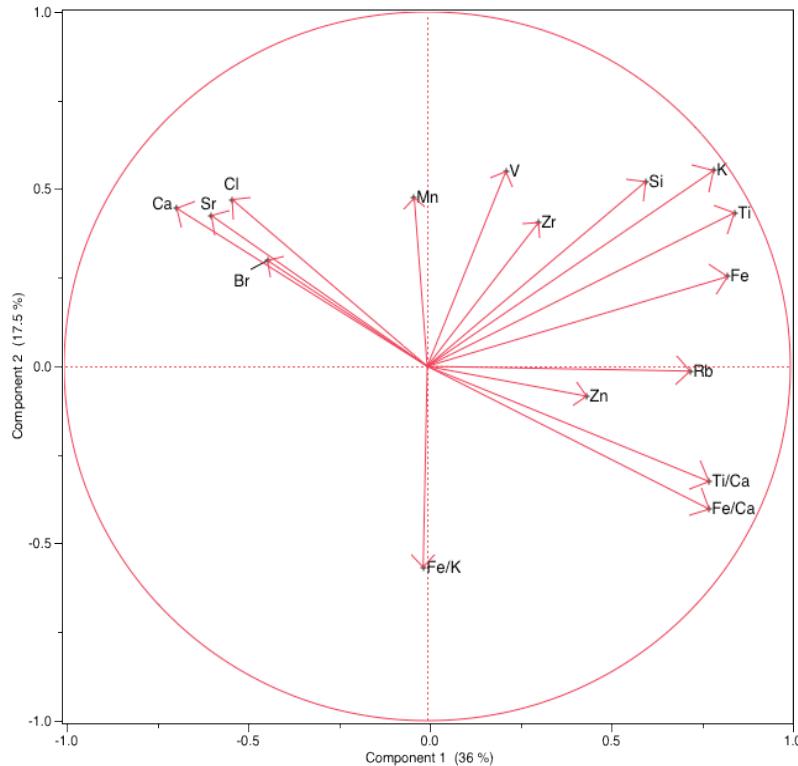


Figure 7: Principal component analysis on the X-ray fluorescence data from core CDH5. The arrows represent the variables used for the analysis, with the

variable labeled appropriately. Component 1 and 2 explain 36% and 17.5% of the variability, respectively.

1.5.3 Oceanographic Conditions

Both SST and $\delta^{18}\text{O}$ begin to rise at the onset of Heinrich 1, preceding the rapid increase in northern hemisphere atmospheric temperatures associated with the B-A and rapid sea level rise during Melt Water Pulse 1A (Figure 3). SST begins to rise in the Cariaco Basin (Lea et al., 2003) at approximately 15 ka, in line with NGRIP temperature records (EPICA Community Members, 2006) (Figure 5). This is 3 ka later than the initial warming in the presented record, with our record correlating more closely to the initial glacial to interglacial warming in the EPICA Dome C record (Jouzel et al., 2007). The glacial to interglacial transition of SSTs at the study site appear to more closely mimic atmospheric changes in the southern hemisphere recorded in Antarctic ice cores. Heinrich 2, on the other hand, is characterized by a short-lived, rapid increase in SST toward the end of the event. Since there is no large change in $\delta^{18}\text{O}$ or $\delta^{18}\text{O}_{\text{sw}}$, this appears to not be related to a fresh water plume affecting the surface oceanography. The western equatorial Atlantic during the B-A and YD does not exhibit significant changes in SST, $\delta^{18}\text{O}$ or $\delta^{18}\text{O}_{\text{sw}}$, which suggests these events were either primarily atmospheric events or too short lived to propagate to the tropical Atlantic. There are no large amplitude, high frequency changes in the local SST or salinity, suggesting no Amazon plume signal at this core site.

A record of Amazon paleohydrology was attempted based on the ODP Leg 155 cruise (Maslin et al., 2000; Maslin and Burns, 2000, Ettwein et al., 2005). They concluded that the LGM and YD were both arid periods in the Amazon Basin based on freshwater influence on the $\delta^{18}\text{O}$ of planktonic foraminifera in sediments from the Amazon fan region. Unfortunately, their conclusions were biased for several reasons. First, the core was located in a region that is not influenced by the Amazon plume (Paillet et al., 1999; Karr and Showers, 2002), which is brought northwest by the NBC on the continental shelf in modern conditions, and thus their core cannot measure modern runoff. In addition, $\delta^{18}\text{O}$ was presented without correcting for SST affects on the oxygen isotopes, or for salinity variation of the seawater both upstream and downstream of their core (Arz et al., 1999; Schmidt et al., 2004; Weldeab et al., 2006).

Sediment cores from the Cariaco Basin found a 3°C warming during the B-A and a 3-4°C cooling during the YD, with no significant change in SST during Heinrich 1 or 2 (Lea et al., 2003). This correlates with increased runoff/precipitation in the Cariaco Basin during the B-A, and decreased during the YD and H1. This links cold periods in the North Atlantic with dry conditions in the Cariaco Basin and a cold SST, the opposite of what is found in the Amazon Basin and western equatorial Atlantic. In addition, the Cariaco Basin exhibits large changes in SST during the YD and B-A, with little change during Heinrich events, the opposite as the presented record. This suggests the Cariaco Basin responds more to atmospheric cooling/warming in the North Atlantic and less so to oceanic forcing from the North Atlantic, for example a slowdown of AMOC.

Alternatively, SST in this study responds more to Heinrich events, correlated with

supposed slowdown of the AMOC, but does not correlate to changes in northern hemisphere climate associated with the YD or B-A.

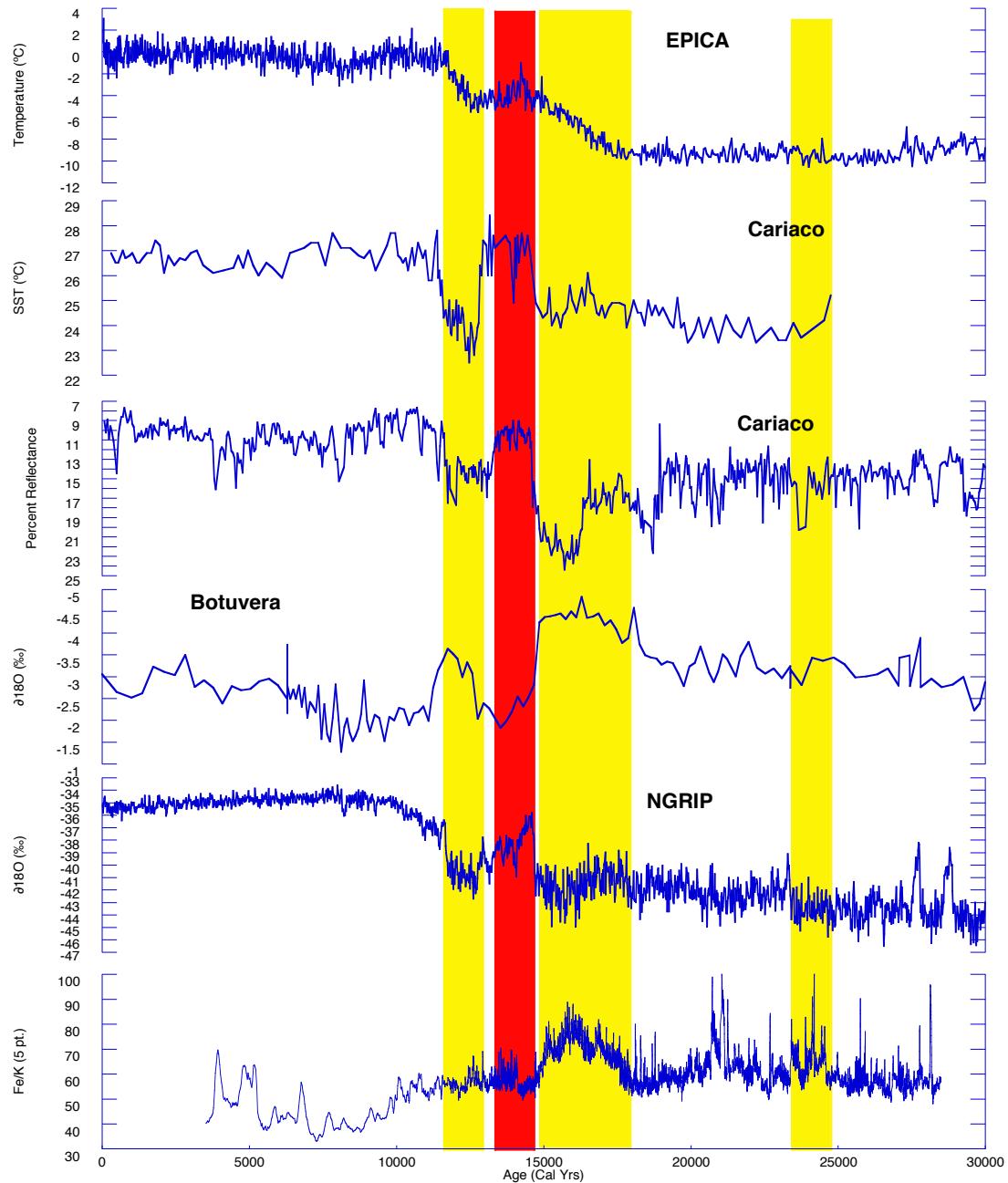


Figure 8: From top to bottom: EPICA Dome C record from Jouzel et al. (2007); Cariaco Basin SST record from Lea et al. (2003); Cariaco Basin percent reflectance, lower percent implies darker sediment, interpreted as wetter conditions

in the Cariaco Basin (Peterson et al., 2000); NGRIP ice core record (EPICA Community Members, 2006); Botuverá Cave, located in the exit region of the SASM in Brazil (Cruz et al., 2009).

1.6 Conclusion

Throughout the late glacial and Holocene period there is a clear linkage between organic, sedimentary and oceanographic variability in this study region. Organic proxies indicate little change in the vegetative fingerprint of the Amazon Basin throughout the record, accompanied by a relatively constant “residence time” of organic carbon in the Basin. SSTs exhibit a glacial to interglacial warming coeval with high latitude South Atlantic atmospheric temperatures, while also responding to northern hemisphere climatic phenomena. This demonstrates that the western equatorial Atlantic is driven both by northward heat movement, possibly from the NBC, as well as slowdown of the MOC and associated changes in ocean circulation. In addition, northern hemisphere cold events propagate southward, driving both atmospheric changes in increased precipitation in the Amazon Basin, as well as oceanographic forcing, exhibited as warming of the western tropical Atlantic. On the other hand, our record, contrary to all other published records, suggests that rapid warming of the northern hemisphere also drives increased precipitation in the Amazon Basin, despite no changes in the local oceanography.

2. Rapid millennial scale changes in the hydrology of the Brazilian Nordeste and oceanography of the western tropical Atlantic throughout the past 110,000 years

2.1 Introduction

It is useful to look at the tropics, a source of atmospheric and oceanic heat and significant moisture export, for potential mechanisms or translation of northern hemisphere millennial events to a global scale. North Atlantic ice (Dansgaard et al., 1993; Grootes et al., 1993) and sediment cores (Heinrich, 1988; Bond and Lotti, 1995) distinguish the late Quaternary as a period of rapid, large oceanic and atmospheric reorganizations known as Dansgaard-Oeschger events. Evidence of these events is present in South American lake (Baker et al., 2001a), speleothem (Wang et al., 2004) and marine sediment (Arz et al., 1999; Peterson et al., 2006; Jaeschke et al., 2007) records as well as in global climate patterns (Schulz et al., 1998; Wang et al., 2001; Altabet et al., 2002; Burns et al., 2003; Fleitmann et al., 2003; Gupta et al., 2003; Turney et al., 2004; Yuan et al., 2004; Sinha et al., 2005; Wang et al., 2005; Brown et al., 2007). Dansgaard-Oeschger millennial events are characterized by a gradual cooling, occasionally terminated by a cold Heinrich event and subsequent rapid warming (Dansgaard et al., 1993). These millennial stadial events have been documented as a cooling of the northern hemisphere tropical Atlantic and a warming of the southern hemisphere tropical Atlantic (Arz et al., 1998; Peterson et al., 2000; Weldeab et al., 2006), increased precipitation in records from tropical South America and the Altiplano (Baker et al., 2001a; Baker et al., 2001b; Wang et al., 2004; Cruz et al., 2005; Peterson et al., 2006;

Wang et al. 2007; Cruz et al., 2009), increased runoff in the Nordeste region of Brazil (Arz et al., 1998) and varied results from modeling simulations (Vellinga and Wood, 2002; Chiang et al., 2003; Broccoli et al., 2006; Liu et al., 2009).

Heinrich events are recorded in North Atlantic sediment cores as ice rafting debris episodes, implying rapid production, calving and melting of icebergs in the North Atlantic (Heinrich, 1988; Bond et al., 1993). Although the mechanisms that force North Atlantic climate are not completely understood, several studies postulate that a slowdown of the meridional overturning circulation leads to a reduction of tropical northward heat transport and a southward migration of the ITCZ (Crowley, 1992; Schiller et al., 1997; Vidal et al., 1997; Stocker, 1998; Vellinga and Wood, 2002; Claussen et al., 2003; McManus et al., 2004), with unaddressed questions as to the “binge purge” mechanism portrayed in hosing modeling experiments (Wunsch, 2010). Zhang et al. (2011) found that the North Brazil Current (NBC) shows statistically significant correlation with the Atlantic multidecadal oscillation (AMO) and Atlantic meridional overturning circulation (AMOC) variability. This, combined with the understanding that the tropics carry the burden of heat transport to the high latitudes (not vice versa), suggests possible North Atlantic millennial events as having NBC or tropical origins. It is thought that the mechanism for this interhemispheric connection lies in both an atmospheric and oceanic pathway, thus a combined continental/oceanic study provides an opportunity to better understand these pathways (Wang et al., 2007).

The Nordeste region of Brazil is ideally located to record variability in the mean position of the ITCZ and oceanic heat transport to the northern hemisphere via the NBC.

The Nordeste offers a chance to assess the impacts and potential forcing of global millennial events, often thought to originate in the North Atlantic sector. Until now, however, there have been no long duration records (back to Marine Isotope Stage 5) of precipitation and oceanographic forcing from the tropical Atlantic. Here I present a 110 ka sediment core record of hydrology, sea surface temperature (SST), and surface water salinity taken on the continental slope in the Nordeste region of Brazil. A clear relationship between increased terrestrial runoff and North Atlantic cold periods exists throughout the record, corresponding to increased SSTs in the western equatorial Atlantic (WEA).

2.2 Study Area

The core site is located on a small seamount on the Brazilian continental slope, 190 km from the modern coastline and 430 km north of the mouth of the Parnaíba River submarine fan (Figure 1). The continental shelf in this region is only 30 km wide with a steep continental slope (Arz et al. 1998). Modern terrigenous sediment reaching this site originates from the Nordeste region of Brazil, primarily from the 1400 km long Parnaíba River, with a 344,248 km² modern drainage basin (approximately 5% the size of the Amazon River drainage basin) (Marques et al. 2004). Average precipitation in this region is 1726 mm/yr, with an evapotranspiration rate averaging 1500 mm/yr (Marques et al. 2004). The average discharge rate of the Parnaíba River is 1272 m³ s⁻¹, with peak flows in February and March (coincident with the southern position of the ITCZ) and lowest flow in July and August (Marques et al. 2004). Sedimentary sequences in the

Parnaíba Basin range from early Devonian to Cretaceous (Bigarella et al. 1965); the sediment is deeply weathered and the surficial material is characterized by lateritic oxisols comprised of quartz, kaolinite, iron and aluminum oxides (Volkoff, 1983).

Surface ocean circulation in the study region is largely driven by the NBC, a result of the South Equatorial Current bifurcating at 10°S as it meets the South American continent, forming the southward flowing Brazil Current and the northward flowing NBC as it combines with the North Brazil Undercurrent (Schott et al. 1995; Stramma et al. 1995). The NBC transports warm, tropical surface water from the equatorial Atlantic to the northern hemisphere in a narrow, fast moving western boundary current (Jaeschke et al., 2007). The NBC transport is highly variable, with a maximum transport of approximately 36 Sv during the austral winter and a minimum of ~13 Sv during the austral fall and seasonal retroflection into the North Equatorial Countercurrent at 6-7°N from June to January (Johns et al. 1998). Seasonal variability in the NBC is correlated with migration of the ITCZ, and associated changes in wind stress curl. Mean annual SST and sea surface salinity (SSS) at the study site are 27.3°C and 36.1‰, respectively (Antonov et al. 2010; Locarnini et al. 2010).

The primary source of precipitation in the northern Nordeste originates from the ITCZ. The ITCZ results from the convergence of the northeasterly and southeasterly trade winds, concomitant with the zone of maximum SST, convection, and an anomalous band of precipitation (Xie and Carton, 2004). The meridional location of the ITCZ tracks maximum SSTs, which is dictated largely by seasonal changes in the boreal versus austral summer, with changes in the location of the Atlantic ITCZ being sensitive to

small changes in interhemispheric temperature gradients (Chiang et al., 2002). The majority of annual rainfall in the Nordeste occurs from March to April, when the ITCZ is close to its southernmost position (Ward and Folland, 1991). Meridional variability of the ITCZ is also associated with changes in the tropical Atlantic SST gradient, where cross-equatorial wind anomalies are directed from the cooler to the warmer hemisphere (Nobre and Shukla, 1996). Periods that are anomalously warm in the northern tropical Atlantic result in early withdrawal of the ITCZ northward and drought conditions in the Nordeste, with the opposite sign of anomalously warm conditions in the southern tropical Atlantic delaying the northward migration of the ITCZ and generating wetter conditions in the Nordeste.

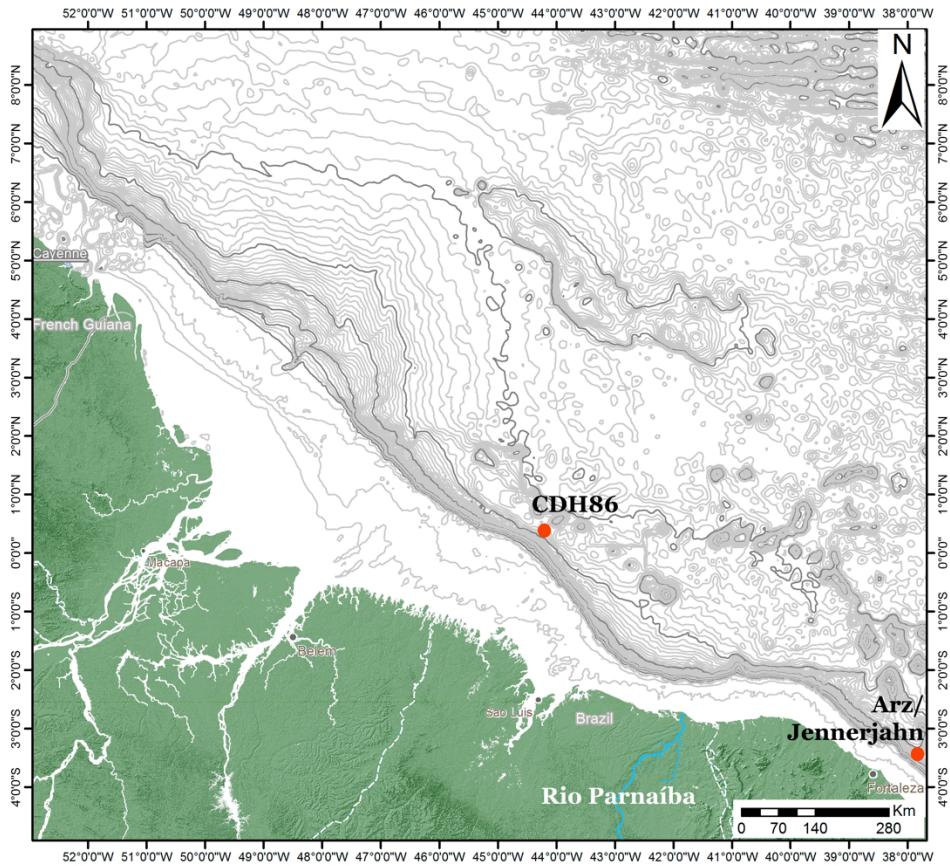


Figure 9: Regional bathymetric map containing location of core CDH86 off the northeastern coast of Brazil. The mouth of the Amazon River is located in the lower left hand corner, with the Amazon fan to the northeast of the River output. Black line represents stylized flow of the NBC.

2.3 Materials and Methods

Core CDH86 (30.5 m in length, 00° 20.002' N, 044° 12.544' W, 3107 m water depth) was retrieved during a cruise on the R/V Knorr (KNR197-4) on the Brazilian continental slope, south of the Amazon Fan sedimentary complex in February, 2010. Core CDH86 was collected from a continuous, conformable sediment sequence verified by high-resolution 3.5 kHz seismic reflection survey. In addition, box (45 cm in length)

and gravity (4.0 m in length) cores were collected at the same site to ensure recovery of the uppermost sediment column. Cores were continuously logged shipboard with a Geotek logger for magnetic susceptibility (MS). Cores were continuously refrigerated while shipped to Woods Hole Oceanographic Institute (WHOI) for storage and subsequent sampling and analysis.

Mixed assemblage planktonic foraminifera were sieved and picked from the 250-350 μm size range for ^{14}C dating. Eighteen radiocarbon dates were undertaken on foraminifera samples, with seven of the samples having bulk sedimentary organic matter dates from the same intervals. Samples were dated by AMS radiocarbon analysis at the National Ocean Sciences Accelerated Mass Spectrometer (NOSAMS) Facility, Woods Hole Oceanographic Institute. Radiocarbon ages were converted to calendar years using the ‘Fairbanks0107’ calibration curve (Fairbanks et al., 2005). Foraminiferal ages were corrected for marine reservoir effect assuming a constant 400-year reservoir age (Bard, 1998). No reservoir age was added to organic matter dates as the organic carbon is primarily derived from atmospheric carbon for terrestrial organic matter sources during the glacial (Eglinton et al., 1997).

Sediment was sampled at 1 cm intervals in the box core and at 10 cm intervals in the gravity and piston core for foraminiferal analyses. Sediment samples were wet sieved and the planktonic foraminiferal species *Globigerinoides ruber* (white) was picked from the 350-500 μm size range for analysis of stable isotopes of C and O and magnesium and calcium contents of the carbonate. Stable isotope measurements were made on a Finnigan Kiel-III automated carbonate preparation device coupled to a Finnigan Delta

Plus ratio mass spectrometer in the Department of Geoscience at the University of Massachusetts in Amherst. All values are reported with respect to the standard Vienna Pee-Dee Belemnite (VPDB), analytical precision is 1.9%. Picked *Globigerinoides ruber* samples were cleaned and prepared for Mg/Ca analyses using the established procedures in Barker et al., (2003) including a reductive step to remove oxide contamination. Mg and Ca concentrations were measured on a Spectraspan 7 direct current plasma atomic emission spectrometer in the Duke University Division of Earth and Ocean Sciences. Analytical precision on internal standards is 1.7%. Whole sample replicates were picked, cleaned and analyzed for every sample, with an average precision of 1.1% (standard deviation divided by mean), equivalent to a precision of 0.27°C. Sea surface temperature (SST) was calculated from Mg/Ca ratios using a relationship obtained by Anand et al. 2003 in core-top calibration in the tropical Atlantic ($Mg/Ca=0.38\exp(0.09*T)$), where T is in °C, Mg is in mmol and Ca in mol. Recent studies have demonstrated the effect large changes in salinity have on foraminifera Mg/Ca composition (Nürnberg et al., 1996; Ferguson et al., 2008; Kisakurek et al., 2008). Nürnberg et al. (1996) showed that salinity changes of greater than 10 psu affect Mg/Ca signal in *Globigerinoides sacculifer* culturing studies, whereas minor changes in salinity (<3 psu) showed no change in foraminiferal Mg concentrations. Recent sediment foraminifera data from the Mediterranean Sea show that large increases in Mg/Ca values only occur when foraminifera are living in high salinity environments of >36.5 psu, with no evidence that Mg/Ca ratios are affected in salinities lower than 36.5 psu (Ferguson et al., 2008). Therefore, given the modern annual mean salinity at the study site of 34.5‰, the salinity

affect on Mg/Ca SST is likely to be minimal. The $\delta^{18}\text{O}_{\text{sw}}$ of ancient seawater was calculated using the temperature and $\delta^{18}\text{O}$ relationship derived for *Orbulina universa* (Bemis et al., 1998) of $T=14.9-4.8(\delta^{18}\text{O}_{\text{c}} - \delta^{18}\text{O}_{\text{sw}})$, which has been shown to be applicable to *G. ruber* (Thunell et al., 1999) where T is in °C and $\delta^{18}\text{O}_{\text{c}}$ is $\delta^{18}\text{O}$ of the *G. ruber* shell. The $\delta^{18}\text{O}_{\text{sw}}$ is reported in terms of Vienna standard mean ocean water (VSMOW) by subtracting 0.27‰ from the calculated $\delta^{18}\text{O}_{\text{sw}}$ (Bemis et al., 1998). Despite the many advantages to using Mg/Ca for paleothermometry, there remain a few limitations. Calibration curves to relate Mg/Ca to paleotemperature vary both by species and size of foraminifera, with calibration studies limited in a geographic sense. Large assumptions must be made that a given Mg/Ca curve is valid both spatially and temporally and applicable to other study sites. However, Mg/Ca still remains an excellent proxy for paleothermometry, supported by numerous studies worldwide and is continually refined.

Sediment chemistry was analyzed on the gravity and piston cores, using an ITRAX X-ray fluorescence (XRF) spectrometer in the Coastal Systems lab at the Woods Hole Oceanographic Institution. Measurements were determined on split core sections at intervals of 2 mm. Ratios of Ti/Ca and Fe/K were used to determine relative terrigenous sediment contribution in core sites. The following elements were determined: Si, P, S, Cl, K, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, As, Se, Br, Rb, Sr, Zr, Ag, Cd, I, Cs, Ba, Ta, W, Re, Au, Hg, Tl, Pb, U. Elemental ratios are used to normalize for density changes down core and are unitless, as each element is measured in counts per second. XRF scanning provides rapid, very high-resolution elemental data on sediment

cores, however it is limited by several factors. Firstly, measurements are semi-quantitative, providing relative variability in elements but not absolute concentrations. In addition, matrix effects within sediments require elements to be presented as ratios. Assumptions must be made about ratios of two different elements; often that one is the primary or controlling constituent in the ratio's variability.

2.4 Results

2.4.1 Age Determination

Radiocarbon ages were determined on the upper 10 m of piston core CDH86, gravity core GGC81 and box core BC82. The age model is derived from a compilation of box, gravity and piston core, to ensure recovery of the sediment-water interface and an intact record of the upper sediment column. Age tie points between this core's stable oxygen isotope record and the stacked SPECMAP record were used to constrain the age model from 43 to 110 ka (Imbrie et al., 1984). The age model is based on a curve fitting interpolation for the entire record, using both ^{14}C dates from 0-43 ka and SPECMAP age tie points for the remainder of the record. Seven radiocarbon dates of both foraminifera and total organic carbon were measured from the same intervals. The organic carbon ages (uncorrected for marine reservoir age) are 2,000 to 6,000 years older than the reservoir corrected foraminifera ages from the same interval. Sedimentation rate changes from an average of 3 cm/ka during the Holocene to an average of 33 cm/ka during the glacial. Residence times of organic matter in the core are highly variable, ranging from 1800 to 6000 ka, with an average of 2900 ka.

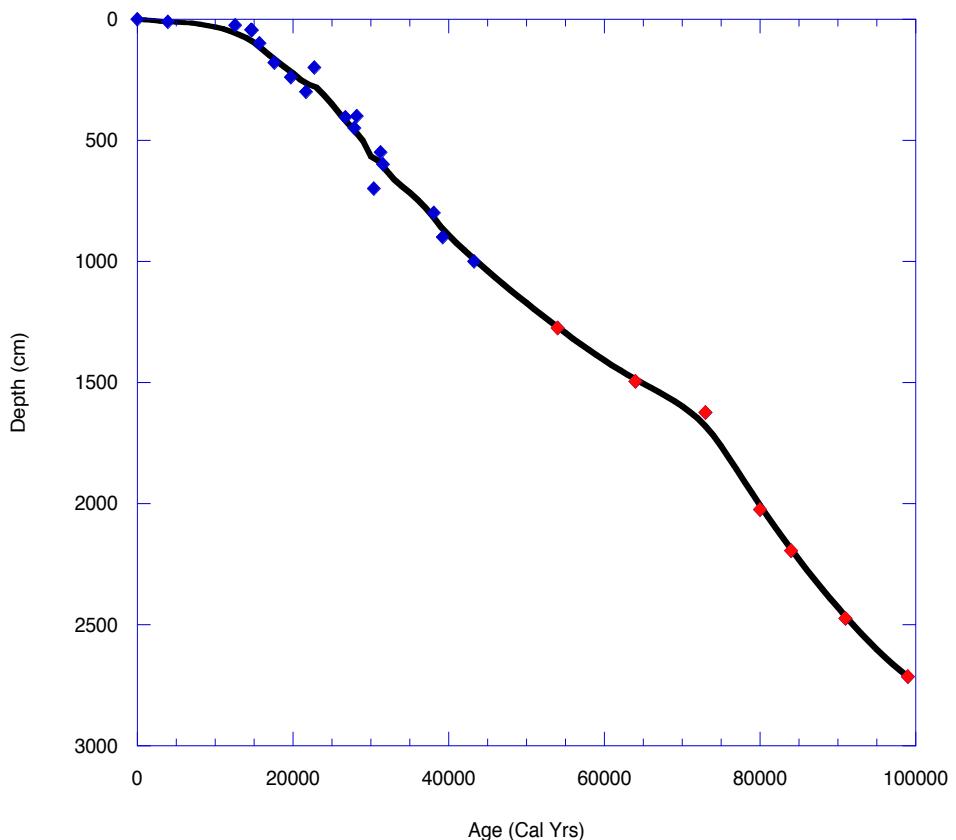


Figure 10: Age model of core CDH86, foraminifera derived radiocarbon ages converted to calendar age in red, SPECMAP age tie points are presented in blue.

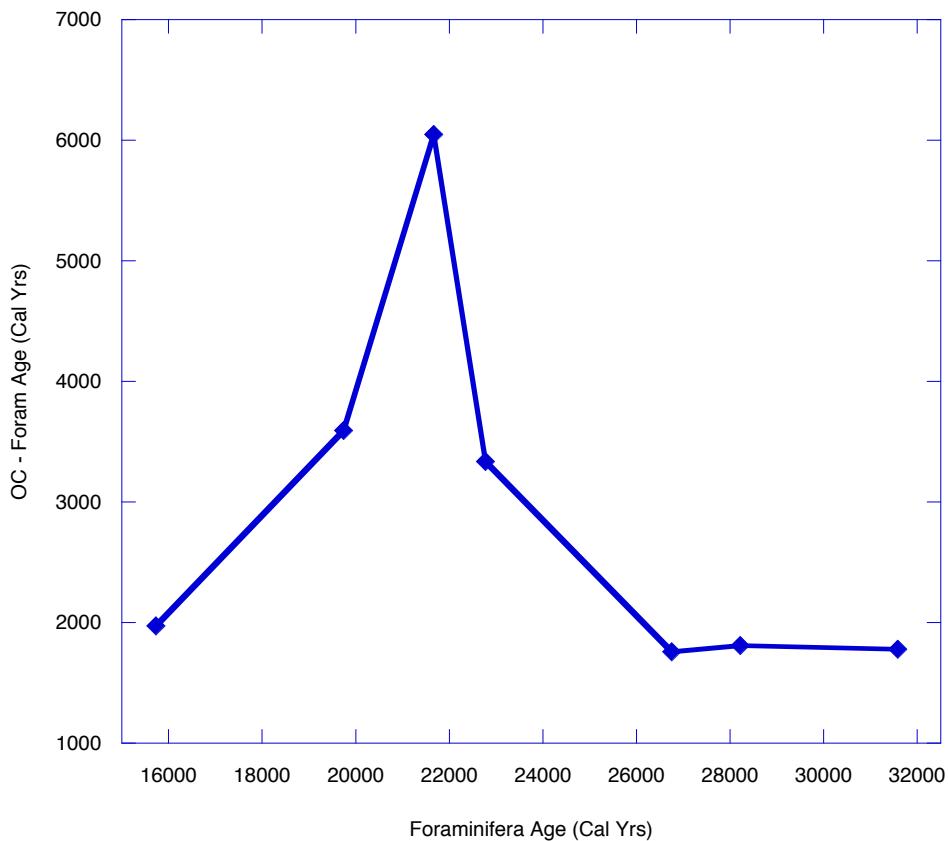


Figure 11: Difference between the organic carbon and foraminifera ages, plotted in terms of foraminifera ages.

2.4.2 XRF and Magnetic Susceptibility

In this study, Ti/Ca and Fe/K ratios are used as a measure of terrestrial sediment discharge from the Parnaíba River and degree of weathering, respectively. Presenting the elemental analyses as ratios avoids dilution issues associated with using a single element. Titanium is derived from terrestrial sources, most often associated with titanium oxides such as rutile or ilmenite. Interpretation of Ti/Ca ratios as changes in terrigenous sediment input and thus variability in precipitation is partly hinged upon calcium

concentrations being reasonably constant throughout the record. Calcium in this setting is derived from biogenic sources, as CaCO_3 tests. Primarily three factors could affect the Ca concentration: production, dissolution and/or dilution by other minerals. Several factors suggest that neither production nor dissolution appear to be affecting sediments in this core. First, Ruhleman et al. (1996) found that paleoproductivity in the western equatorial Atlantic, proximal to the Nordeste, remained low and constant throughout the time period represented by our record, suggesting relatively constant biogenic carbonate production. In addition, scanning electron microscope images of foraminiferal tests indicate that diagenetic carbonate overgrowth is not significant throughout the core. Finally, the presence of aragonitic pteropods throughout the core suggests there is little to no dissolution of calcium carbonate. Taken together, these factors suggest that changes in Ca concentration are due to dilution of biogenic CaCO_3 with terrestrial detrital sediment. Thus, I conclude that Ti/Ca in this core is an indicator of relative terrigenous sediment input, and dilution of the CaCO_3 fraction. Considering the northwest flowing NBC at this study site, it appears to receive the bulk of its terrestrial sediment from the Parnaíba River, which drains the northern half of the Brazilian Nordeste. An increase in precipitation in the Nordeste would likely increase physical weathering, riverine suspended load, discharge at the mouth of the Parnaíba River, the amount of suspended sediment in the plume reaching the study site, and the amount of Ti in the sediments deposited at the study site. Thus, I interpret increases in precipitation as the underlying mechanism for the observed Ti/Ca peaks. The Ti/Ca ratio throughout the record exhibits a baseline low level, interrupted by twelve peaks that range from ~1000 to 5000 years

duration (30 cm to 1 m thick) (Figure 3a). These events appear throughout the majority of the record, ending at ~11 ka, associated with the end of the YD and transition to a modern Holocene climate. The period from 105 to 80 ka is characterized by higher frequency, but lower amplitude, peaks that are superimposed upon a more variable baseline. In addition, there are many relatively minor peaks interlaid between the twelve major highlighted peaks.

In a recent study, Mulitza et al. (2008) used the ratio of Fe to K as a measure of aridity in North Africa's Sahel, with Fe/K ratios in aeolian dust from the Sahel showing a close relationship to African precipitation (Stuut et al., 2005). Wetter conditions increase chemical weathering of sediments, which leads to higher concentrations of iron (found in heavy, less mobile minerals) compared to more mobile potassium (Moreno et al., 2006). Mulitza et al. (2008) found rapid decreases in Fe/K during Heinrich events for the past 57 ka, indicating decreased riverine discharge and largely drier conditions in the Sahel. Implementing the Fe/K proxy derived from Mulitza et al. (2008), I present an additional record of precipitation. Although Fe is potentially affected by redox, the close correlation between Ti, a redox insensitive mineral, and Fe in this core supports the validity of the Fe signal. Almost every Ti/Ca peak corresponds to a peak in Fe/K (Figure 3b); the duration of the peaks are similar but the magnitude varies between the two proxies. Fe/K exhibits greater variability throughout the record compared to Ti/Ca, with peaks evident in Fe/K at 88 and 55 ka that are absent in the Ti/Ca record. Furthermore, increases corresponding to Heinrich 1 and the YD appear as the largest, rapid changes in Fe/K, despite being relatively small in the Ti/Ca record.

Magnetic susceptibility (MS) is a measure of the fraction of iron bearing minerals, primarily magnetite, in sediment. Thus, high MS values indicate increased relative proportion of magnetite grains transported to the study site. Magnetite has ~1000 times higher MS than goethite and hematite (Maher and Thompson, 1995), thus speciation of iron oxide greatly impacts the potential magnetic susceptibility of sediment. The degree to which magnetite is oxidized to goethite and/or hematite is dictated by environmental factors such as particle size, water content and temperature (He and Traina, 2007). The MS record is fundamentally different from the Ti/Ca record in this study. In nearly all cases, high Ti/Ca values correspond to low MS values, suggesting inherently different sources or speciation of titanium and iron minerals. MS, like Ti/Ca, decreases with the onset of the Holocene and transition to a pelagic setting. The rest of the record is highly variable, with structure on the 1-2 ka and longer timescales (Figure 3f).

2.4.3 Foraminifera $\delta^{18}\text{O}$ and Mg/Ca derived paleothermometry

Combined, Mg/Ca derived SST (Figure 3c); carbonate $\delta^{18}\text{O}$ (Figure 3d) and $\delta^{18}\text{O}$ of seawater ($\delta^{18}\text{O}_{\text{sw}}$) (figure 3e) give a generalized indication of how oceanographic parameters change in relation to hydrographic parameters. The highest recorded temperature of ~27°C occurs during the interglacial stages MIS 5a (85-75 ka) and MIS1 (4.2 ka to present), while lowest temperature of 22-23°C appears during the last glacial maximum (~20 ka) and MIS5b (85 ka). Although MIS5 is on the whole an interglacial period, with warmer (5a, 5c, 5e) and colder (5b, 5d) intervals, this record exhibits a glacial to interglacial increase in temperature from MIS5b to MIS5a, similar to a full

glacial to interglacial transition (MIS2 to MIS1). SSTs begin to rise from a glacial value of 23.1°C at 8.2 ka to a modern value of 27.1°C at 4.2 ka. From 31 to 10 ka, several abrupt, high amplitude (3 to 4.5°C) peaks occur at 4-5 ka intervals. Peaks in temperature generally correspond to peaks in Ti/Ca (Figure 3). Trends in $\delta^{18}\text{O}$ shows similar to those in SST, although glacial to interglacial enrichment begins much earlier at 19 ka (-0.5‰) and continues until it reaches its modern value of -1.7‰ at 4.6 ka. High amplitude peaks are also present in the $\delta^{18}\text{O}$ and $\delta^{18}\text{O}_{\text{sw}}$ records during the 31 to 10 ka interval. Both $\delta^{18}\text{O}$ and $\delta^{18}\text{O}_{\text{sw}}$ follow the general trends of the stacked SPECMAP record, with an absence of glacial to interglacial transition in the $\delta^{18}\text{O}_{\text{sw}}$ record. Highlighted peaks in Ti/Ca generally correspond to depleted values of $\delta^{18}\text{O}$, with no clear pattern in $\delta^{18}\text{O}_{\text{sw}}$ during the same intervals.

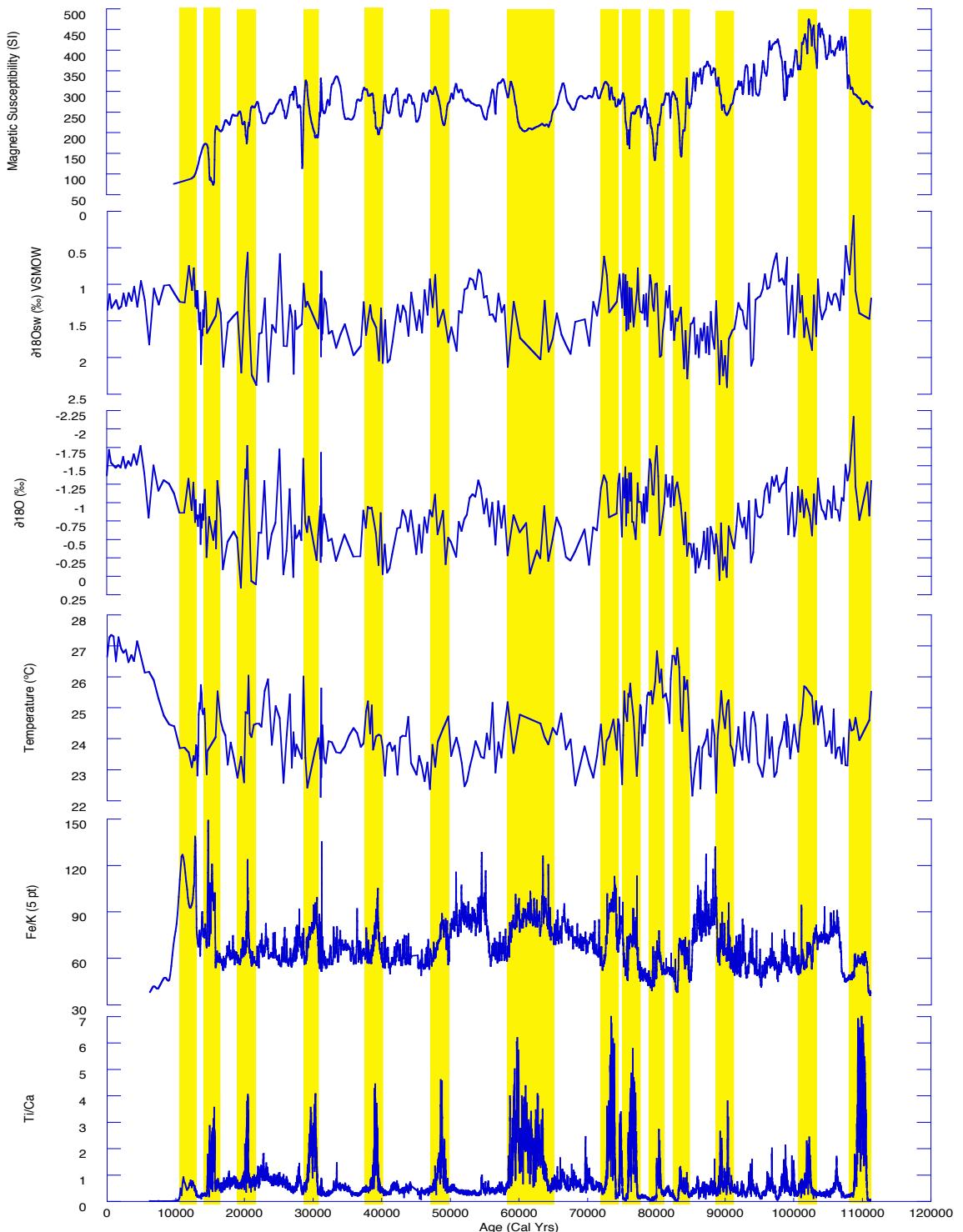


Figure 12: Measured Proxies presented versus age in calendar years before present based on the foraminifera ^{14}C age model. Ti/Ca ratio (3a) and Fe/K ratio

(3b) are derived from XRF Scanning at 2mm resolution. Paleothermometry (3c) from Mg/Ca ratios, shell $\delta^{18}\text{O}$ values (3d) and $\delta^{18}\text{O}$ of seawater (3e) were all derived from foraminifera *G. ruber*. Magnetic susceptibility (3f) was measured shipboard using a Geotek Logger. The yellow bars indicate peaks in Ti/Ca, many of which are associated with cold, stadial events recorded in NGRIP and Heinrich events recorded in the North Atlantic (Hemming, 2004; EPICA Community Members, 2006).

2.5 Discussion

2.5.1 Continental Hydrology

The offset between organic carbon and foraminifera ages gives insight into the relative “residence time” of organic matter in the Parnaíba Basin. The difference in age is a measure of the elapsed time from when organic matter deceases to when it is transported and deposited to the coring site. The large offset of ages would suggest terrestrial organic matter sources. The average residence time of organic matter in the Parnaíba basin is 2900 years, approximately 1200 years older than average age of organic matter discharged from the Amazon River (Druffel et al., 2005). The higher age offset could be attributed to less vertical relief from the headwaters to the mouth of the Parnaíba River compared to the Amazon River. Alternatively, the relative size and sediment discharge differences in the two rivers leads to less sedimentary erosion in the Parnaíba basin, and thus longer time to rework decaying organic matter.

Here, I interpret peaks in Ti/Ca to be attributable to increased terrigenous runoff in the northern Nordeste region of Brazil, a response of increased discharge from the Parnaíba River and higher continental precipitation. The study site is supplied with terrigenous sediment largely from the Parnaíba basin, which receives its precipitation

primarily from the ITCZ, thus the presented Ti/Ca peaks potentially represent localized rainfall along the Brazilian Nordeste coast and is situated to track the mean position of the ITCZ. Variability in the mean position of the ITCZ is largely driven by the pattern in tropical Atlantic SST, winds and surface pressure (Nobre and Shukla, 1996; Chang et al., 1997). The SST pattern in the tropical Atlantic produces a gradient in the SSTs from 5°N to 25°N and from the equator to 25°S. This gradient produces cross-equatorial wind anomalies from the cooler hemisphere to the warmer hemisphere, driving migration in the ITCZ meridional location to the warmer hemisphere (Chiang et al., 2002). Thus, it is presumed that the Ti/Ca peaks act as a localized proxy for a cooler northern tropical Atlantic, warmer southern tropical Atlantic and a southward displacement of the ITCZ. The record presented here is the first to definitively correlate local hydrology of the Nordeste with oceanography of the western equatorial Atlantic and its response to external forcings. Arz et al. (1998) conducted Ti/Ca analysis on an 85 ka core collected at 4°S on the Brazilian continental slope. That core exhibited similar peaks in Ti/Ca associated with northern hemisphere stadial events that are recorded in the Nordeste core, lining up with well-known Heinrich events. In the presented record, however, Heinrich 2 does not correlate with a Ti/Ca peak. This discrepancy may be the result of age model differences during Heinrich 2; otherwise the two studies convincingly concur. The Arz et al. (1998) record does not, however, extend into MIS5 and provide insight into Nordeste hydrology during the last interglacial period.

Timing of changes in Fe/K ratio shows a strong resemblance to the Ti/Ca record, with peaks in Fe/K associated with stadial events in NGRIP (Figure 5). There is

significant variability in the Fe/K record during periods when Ti/Ca is stable and at a baseline, pointing to the fundamental difference between the two proxies. The Ti/Ca proxy is likely a reflection of the amount of sedimentary discharge from the mouth of the Parnaíba River relative to the amount of pelagic sedimentation at the core site. In contrast, the Fe/K proxy has been shown to follow the degree of precipitation-propelled chemical weathering, a related but different variable. Whereas K is found mainly in very mobile minerals such as illite, Fe is primarily found in less mobile iron oxides. Thus, the degree of chemical weathering is linked to the Fe/K ratio, with higher ratios implying more chemical weathering and resulting in increased concentrations of Fe in comparison to the more mobile potassium. There are three peaks in Fe/K (at 88 ka, 55 ka and 12.7 ka) that are either not evident in, or significantly smaller in, the Ti/Ca record. These three features point to three periods of increased chemical weathering with no obvious increase in sedimentary discharge from the Parnaíba River. The three peaks also correlate with global climate transitions. The transition from the cooler MIS5b to warmer MIS5a occurred roughly at 88 ka, the transition from the cooler MIS4 to the warmer MIS3 occurred roughly at 55 ka and the transition from the cooler MIS2 to MIS1 occurred roughly at 12.7 ka. The events at 88 and 12.7 ka correlate also to the onset of rapid warming in western equatorial Atlantic SSTs presented here (Figure 3c). Although degree of chemical weathering is influenced partly by available moisture, energy (temperature) in a system also positively correlates with weathering processes. The temperature changes associated with these peaks may have increased the rate of chemical weathering, suggesting higher temperatures in the Parnaíba Basin as a whole, without

necessarily increasing the sediment mobilization and transport to the coast that would result in an increased Ti/Ca ratio.

Disparities in chemical speciation of Ti versus Fe, found in the Brazilian Nordeste, explain the observed anticorrelation between Ti/Ca and magnetic susceptibility in our record. In a study of Brazilian Nordeste sedimentology, Volkoff (1983), found soils in the Parnaíba Basin to be primarily lateritic oxisols, in which magnetite has been oxidized to goethite and hematite and is largely associated with the clay fraction.

Titanium in lateritic soils is often found in heavy mineral oxides, most commonly rutile (Weaver, 1976). Therefore, the peaks in Ti/Ca observed in CDH86 are likely associated with increased entrainment of heavy titanium oxides during wet periods. MS is low during these periods because of the low MS iron oxide speciation of goethite and hematite.

2.5.2 Principal Component Analysis

Principal component analysis (PCA) was carried out using the XRF elemental dataset (13 variables and 15,379 measurements) to describe the major trends in variance between the elements measured. Each component describes the highest variance possible in the elemental dataset, while uncorrelated with other components. PCA was conducted on both the peaks ($\text{Ti/Ca} > 1.5$) and troughs ($\text{Ti/Ca} < 1.5$) to provide insight into sedimentological changes associated with increased runoff periods. First, I will focus on the PCA for the troughs. The first two components (eigenvectors) account for 50.4% of

the total variability (Figure 4a). The low percentage of variability that the first two components account for results from a large (13 variable) data set, where some elements do not have significant sedimentological relevance in this system. The first component accounts for 28.1% of the variability and is mainly controlled by Fe and Zr (terrestrial) on the positive end and Ca and Sr (marine) on the negative end. Largely, the first component describes variability of terrigenous sediment versus pelagic sediment. The second component accounts for 22.3% of the variability and is controlled by a suite of elements, notably K, Si, Br. Of note is the lack of grouping in terrigenous minerals (Fe, Ti, K), suggesting fractionation of terrigenous sediment by physical or chemical processes. The PCA for the peaks in CDH86 provide a very different interpretation (Figure 4b) with the first and second components characterizing 38% and 19.5% of the variability, respectively. Largely, the elements for components 1 and 2 are reversed for the peaks versus troughs PCA, suggesting a primarily terrestrial driven system for the peaks and a marine driven system for the troughs. A distinct difference is the grouping of Ti, K, Rb, Si, Fe, Zn and V in the peaks PCA, while they are largely spread out in the troughs PCA. This would suggest that you have very little fractionating process of terrestrial material during Ti/Ca peaks and significant fractionation of terrigenous material during troughs in Ti/Ca. During the troughs, the more mobile K responds very differently in this system compared to the less mobile Fe, suggesting mobility of terrigenous sediment plays a key role in the sedimentology of this site during drier conditions.

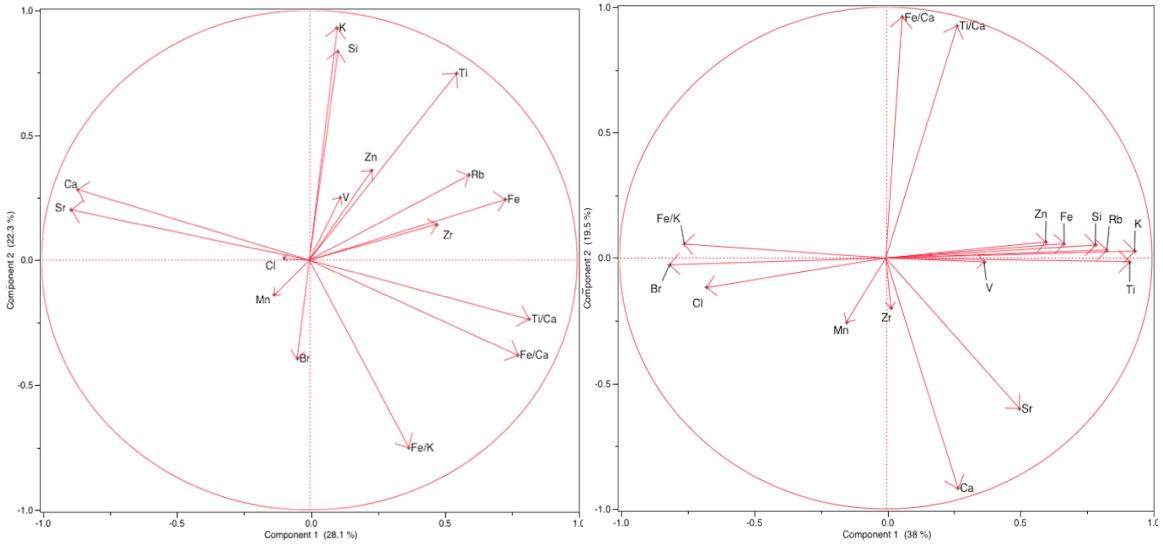


Figure 13: Left Panel (a): Principal component analysis on the X-ray fluorescence data from core CDH86 for Ti/Ca values below 1.5 or troughs in the record. Right Panel (b): Principal component analysis on the X-ray fluorescence data from core CDH86 for the Ti/Ca values above 1.5 or the peaks in the record. The arrows represent the variables used for the analysis, with the variable labeled appropriately.

2.5.3 Oceanographic Conditions

The Mg/Ca derived temperature record exhibits both local and global oceanographic forcing throughout the past 110 ka. Temperatures begin to rise from glacial to modern values at 8.2 ka and only reached modern SSTs at 4.2 ka, much later than northern hemisphere warming indicated by Greenland ice sheets (Dansgaard et al., 1993; Grootes et al., 1993), which exhibit the largest deglacial warming at the onset of the Bolling-Allerød at ~14.7 ka (Figure 3). In their study site at 4°S, several hundred kilometers south of this study site, Weldeab et al. (2006) found the largest glacial to interglacial transition at the onset of Heinrich 1. The initial warming during Heinrich 1 in

the Weldeab record was followed by a steady increase to modern temperatures at 10 ka, almost two thousand years before the warming that is recorded in our record. In our core, the interval from 31 to 10 ka is characterized by rapid oscillations in temperature and $\delta^{18}\text{O}$, from near glacial to near interglacial values, possibly caused by variability in the location and magnitude the Parnaíba River plume. Such variability could sufficiently warm and freshen the surface waters at the study site. The occurrence of these plume oscillations during the height of the last glacial suggest sea level is a factor in this signal. The coastline during the last glacial maximum hugged the continental slope adjacent to the study site, increasing the potential for the Parnaíba River plume to influence surface ocean water salinity and temperature. There are no other foraminifera records in the western tropical Atlantic that exhibit similar oscillations, perhaps because they do not record a continental plume signal.

The paleoceanographic history of the western equatorial Atlantic provides information on the variability of the NBC, as it passes through the study site. The temperature record largely exhibits peaks in temperature during periods of high Ti/Ca and Fe/K and increased precipitation in the Nordeste. This suggests a warming of the western equatorial Atlantic during wet events in the Nordeste, perhaps caused by an increase in magnitude of the NBC or a southern shift in the maximum SST location during the Austral summer, coincident with a southward shift in the mean position of the ITCZ. The Ti/Ca peaks do not correspond to a consistent change in salinity of the western equatorial Atlantic, suggesting no plume induced freshening during the Ti/Ca peaks. Several studies attempted to determine changes in SST in the WEA during Heinrich events.

Weldeab et al. (2006) measured Mg/Ca from foraminifera for the past 21 ka and found warm temperatures correspond to Heinrich events, while Jaeschke et al. (2007) measured alkenone-derived SSTs in the same cores and found Heinrich events associated with cold surface temperatures in the WEA. However, Jaeschke et al. (2007) utilized a foraminifera ^{14}C age model, while using the alkenone unsaturated index as a temperature proxy, despite data that suggests alkenone temperature signals in regions of strong surface currents may be significantly influenced by advection (Conte et al. 2006). Therefore, the alkanes are likely to be a different age than the foraminifera in the same sample. Jaeschke et al. (2007) addresses the discrepancy between Mg/Ca derived SST from Weldeab et al. (2006) and the alkenone SST for Heinrich 1 as postdepositional resuspension and transport of the alkenones, but does not address the potential for the same discrepancy for the entirety of their core.

2.5.4 Global Record Associations

In the past decade, speleothem derived precipitation records have significantly increased our understanding of South American climatology throughout the late Quaternary. Perhaps the most influential record of South American Summer Monsoon (SASM) precipitation is from Botuverá Cave, near the exit region of the SASM in Brazil (Cruz et al., 2009). Both precessional insolation forcing in the southern hemisphere and northern hemisphere millennial cold (i.e. Heinrich) events influence variation in the $\delta^{18}\text{O}$ (precipitation) record from Botuverá Cave. For the most part, Ti/Ca peaks in the presented record coincide with increased precipitation as recorded in Botuverá, although

for several Ti/Ca peaks there is no clear event in the Botuverá record (Figure 5). Botuverá precipitation is driven by the SASM, while the Nordeste largely receives precipitation from the ITCZ, a related but fundamentally different climatic system. The only speleothem record from northeast Brazil that encompasses the past 110 ka is from Wang et al. (2004), where they measured speleothem and travertine growths as periods of increased precipitation, which correlates well with Ti/Ca peaks in the presented record. This corroborates Ti/Ca as a proxy for precipitation amount in the Nordeste, although there are several periods of high Ti/Ca that do not correspond to wet periods in Wang et al. (2004), suggesting Ti/Ca is a more sensitive indicator of precipitation or the presence of a precipitation threshold for speleothem or travertine growth in northeastern Brazil (Figure 5).

The NGRIP oxygen isotope record has the highest correlation to the Ti/Ca record presented here (Figure 5, EPICA Community Members, 2006). Peaks in Ti/Ca uniformly correspond to low/cold $\delta^{18}\text{O}$ values in NGRIP, a measure for high latitude northern hemisphere temperature. Heinrich events 1 through 6, with the exception of 2, all correspond to peaks in Ti/Ca and increased precipitation in the Nordeste. The impressive correlation between temperature in Greenland and precipitation in the Nordeste implores their climatic connection. Several modeling experiments (Schiller et al. 1997; Chiang et al., 2003; Zhang and Delworth, 2005; Broccoli et al., 2006) address oceanic and atmospheric responses during NGRIP stadials and Heinrich events. These “hosing models” produce increased northern hemisphere land and sea ice, colder northern hemisphere temperatures and decreased strength of the AMOC. This, in turn, leads to a

temperature dipole with a cooling (warming) in the northern (southern) tropical Atlantic, and a southward shift of the ITCZ and associated rain belts, although it is not clear what is a cause and what is an effect with regards to the slowdown of AMOC and the inter-hemispheric temperature asymmetry. Despite uncertainty in the mechanisms that drive the decrease in AMOC, a robust feature is a southward shift in the ITCZ and increased (decreased) precipitation in southern (northern) tropical South America. A fundamental question is why, and by what mechanisms is there such a robust linkage between the AMOC and the tropical Atlantic?

A recent study by Zhang et al. (2011) found a correlation between NBC variability and Labrador Sea thickness, a presumed surrogate for AMOC magnitude. This correlation implies that modeling experiments, which demonstrate a slowdown of AMOC, could, in fact, be induced from a slowdown of NBC transport of warm and saline waters to the North Atlantic. In addition, several recent hosing modeling experiments (Chang et al., 2006; Wen et al., 2009; Wen et al., 2011) show that when the AMOC is weakened below a threshold (~ 8 Sv) the NBC reverses direction and transports warm northern tropical water to the south equatorial Atlantic. An unaddressed question is whether a weakening of the AMOC leads to a reversal of the NBC, or does the reversal of the NBC cause a weakening of the AMOC. This is a fundamental question of whether AMOC is driven by the “pull” of sinking dense waters in the high latitude North Atlantic, or by the “push” of tropical warm waters North by fast flowing boundary currents. If, in fact, the NBC reverses directions during weakening of the AMOC, a commonly modeled phenomenon during Heinrich events, it is entirely possible that the NBC transports the

Amazon plume southeast along the Brazilian continental shelf, instead of northwest. This possibility provides very interesting implications for the interpretation of terrigenous sediment at this study site. It is possible that the large peaks in Ti/Ca during Heinrich events are, in fact, an Amazon River signal, that is present when the plume has been redirected south by a reversal in the NBC. There are many questions left unaddressed with regards to the cause versus effect of AMOC variability, NBC response or forcing of the AMOC, and the possible implications of a southward flowing NBC for Amazon River sediment transport.

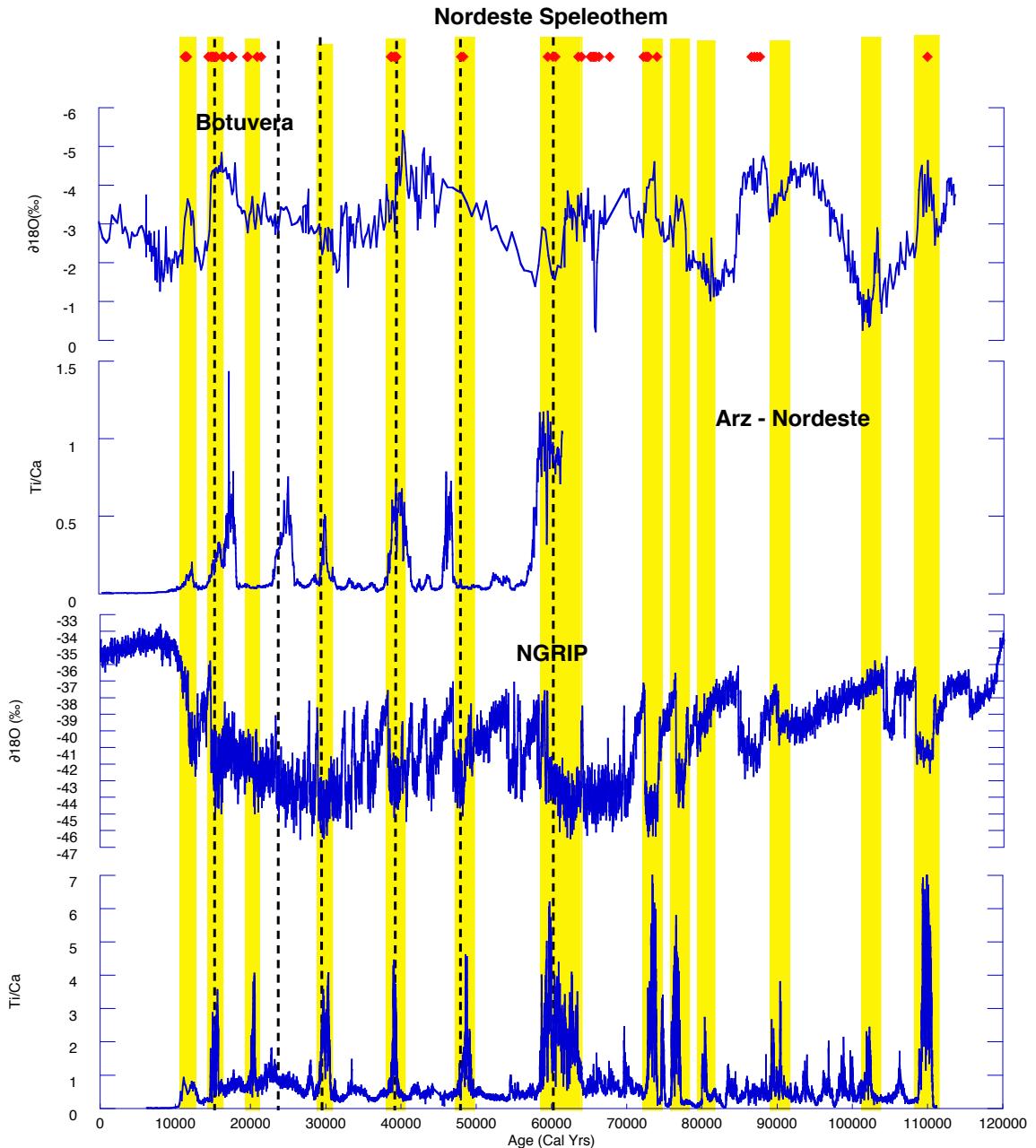


Figure 14: From top to bottom: Speleothem and travertine deposits in northeastern Brazilian Nordeste, wet periods are marked by growth of deposits and are precisely dated using the U/Th method (Wang et al., 2004); Botuverá Cave, located in the exit region of the SASM in Brazil (Cruz et al., 2009); NGRIP oxygen isotopes (EPICA Community Members, 2006); Ti/Ca ratio from this study, presented as reference. Highlighted yellow areas correspond to peaks in Ti/Ca; dotted vertical lines correspond to Heinrich Events 1-6 (Hemming, 2004).

2.6 Conclusions

A high resolution record of hydrology and oceanography for the past 110,000 years in the Brazilian Nordeste provides an opportunity to understand climate variability both on a local (tropic) and global scale. Continental hydrology (Ti/Ca and Fe/K) and oceanographic SST exhibit peaks of relative wetness and warming of the tropical western Atlantic during northern hemisphere millennial cold events, some of which correspond to well known Heinrich events and to a southward migration of the ITCZ. These events uniformly correspond to troughs in MS, an indication that detrital titanium and magnetic iron are dissociated, most likely because Ti is found in oxide form, and Fe is found in goethite and hematite. Oceanographic SST and salinity show high variability during the late glacial, with short-lived highs during this period reaching near modern values, an indication that the Parnaíba plume was likely influencing surface ocean conditions. This study verifies linkages between high latitude North Atlantic and tropical South American climate, despite an unclear understanding of the mechanisms that either propagate climatological forcings from the polar regions to the tropics or vice versa and the implications this has for sediment transport along the Brazilian coast.

3. Geographic Variability of Interstitial Water Diagenesis in the Amazon Fan and Brazilian Continental Slope

3.1 Introduction

Early diagenesis of marine sediment is a well-studied field in sedimentary geochemistry, but high-resolution spatial variability of diagenetic processes has rarely been reported (Liu et al., 2004; Rey et al., 2005). Sedimentary diagenesis is influenced by a variety of factors including, but not limited to, quantity and quality of organic matter, sedimentation rate, inorganic mineral precipitation, and sediment mass movement. High sedimentation rates and organic matter content present continental margins as ideal settings to study interstitial fluids and early diagenesis. Knowledge of the spatial variability of early diagenesis can provide insight into these controls. In addition, early diagenesis impacts the hydrocarbon potential of organic rich sediments and can influence sediment physical properties. Under some conditions, microbial activity in organic rich sediment produces methane that can potentially form methane hydrates.

Burns (1998) investigated carbon isotopes in pore waters from the ODP Leg 155 cruise and found very low values (-50‰) at the base of the sulfate reduction zone, significantly lower than the on average -20‰ $\delta^{13}\text{C}$ values observed where sulfate reduction takes place via oxidation of organic matter (Whiticar et al., 1986; Kvenvolden, 1995). Burns (1998) found that 50 to 85% of the sulfate reduction was coupled with biogenic methane oxidation, driving down the observed $\delta^{13}\text{C}$ values. They attribute this coupling to both a large decrease in sedimentation rates as sea level rose during the early

Holocene as well as the highly refractory terrestrial organic carbon derived from the Amazon Basin.

Here I present an analysis of the geographic distribution of early diagenesis and potential for methane hydrate formation on the Amazon continental margin (Cox et al., 2000). The Amazon slope is characterized by high sedimentation rates, high abundance of terrestrial organic carbon, and frequent sediment failures that have been shown to correspond with fluctuations in sea level (Maslin et al., 1998). The instability of the Amazon slope implies the potential for future releases of large quantities of methane as seawater temperature rises in the continental slope (Cox et al., 2000). I investigate the geographic variability in early diagenesis, carbonate and dolomite formation, as well as redox processes within the Amazon continental slope.

3.2 Study Area

The Amazon Fan is located off the northeastern continental slope of Brazil, extending 700 km from the upper continental slope and encompassing an area of approximately 160,000 km² (Damuth et al. 1988). In response to sea level changes, high volumes of terrigenous sediment are intermittently delivered to the fan by the Amazon River at rates up to 2,500 times average pelagic sedimentation rates (Flood et al., 1995). During interglacial periods sedimentation rate averages approximately 0.1 mm/yr and can be up to 50 mm/yr during peak glacial periods (Mikkelsen et al. 1997; Cobbold et al. 2004). The Amazon River, the world's largest river by discharge, transports 20% of the global river water discharge (Callede et al., 2004) and an estimated 10% of the river

suspended sediment load to the oceans (Filizola and Guyot, 2004). At Obidos, Filizola and Guyot (2004) estimated an annual suspended sediment discharge of 0.8 Gt, with 97% coming from Andean tributaries.

As stated above, the evolution of the Amazon Fan is greatly dependent on local sea level. During periods of global glaciation, the Amazon River crossed the continental shelf and delivered its sediment directly to the Amazon fan and onto the continental slope (Damuth and Kumar, 1975). However, during sea level high stands such as the Holocene, the Amazon River meets the equatorial Atlantic in the upper continental shelf, intersecting the North Brazil Current, which transports the majority of the Amazon plume to the northwest along the shelf (Damuth et al., 1988). Subsequently, low sea level (glacial) sedimentation rates are on average 200 cm/ka and up to 5000 cm/ka on the Amazon fan, whereas modern sea level sedimentation rates on the fan are 10 cm/ka (Mikkelsen et al., 1997).

The Amazon Fan, a turbiditic sedimentary complex, reaches a maximum thickness of >10 km, dating back to the upper Miocene and coincident with the uplift of the Andean Mountains (Silva et al. 1999). Hiscott et al. (1997) found unusually high sedimentation rates during phases of active growth in the Amazon channel, suggesting likely yearly turbidity currents in the Amazon Fan during the Pleistocene. Maslin et al. (1998) posited that the Amazon Fan is primarily made up of huge mass transport deposits containing up to 50,000 Gt of sediment. These catastrophic failures of the continental slope are believed to correspond with periods of sea level lowstands (Maslin et al., 1998).

Maslin et al. (2004) calculated that 70% by volume of the continental slope failures that they studied correlated with periods of low and rising sea level.

3.3 Methods

The KNR197-4 sites (CDH5, 22, 43, 51, 53 and 72; Figure 1) were distributed around the northern and southern flank of the Amazon Fan extending from the upper continental slope to the middle Amazon Fan complex. Sites CDH22, 43 and 53 align parallel to the continental margin on the upper slope (640 m, 1014 m and 1027 m, respectively). Sites CDH5, 51 and 72 align parallel to the continental margin at mid to lower slope depths of 1708 m, 2079 m and 3375 m, respectively. The cores collected are on average 30 m in length, taken from rare continuous, conformable sediment sequences as identified by high-resolution 3.5 kHz seismic reflection surveys of all sites. On Leg 155 of the Ocean Drilling Project (ODP) 17 sites were cored using the Advanced Piston Corer on the lower Amazon Fan between 5°N to 7°N and 46°W to 49°W in water depths from 2700 m to 4100 m. Analysis was performed on 5 to 15 cm long whole round sections taken from the bottom of the first 1.5 m section. Subsequent sampling was performed every third section.

On board the R/V Knorr during the KNR197-4 cruise, the piston cores were taken in liners, which were cut in 1.5 m sections and 10 cm long subsamples were taken from the end of each 1.5 m section. Therefore, the sampling resolution is 1.5 m for most intervals. Interstitial waters were collected from the samples using a hydraulic squeezer similar to the ODP methods. The pore waters were passed through a 0.45 µm Whatman

filter and stored under refrigeration until analysis. Calcium and magnesium concentrations were determined on a Perkin Elmer 5000 atomic absorption spectrophotometer on diluted pore water samples. Sulfate was measured on a Dionex DX-500 Ion Chromatograph. Chloride concentrations were determined by Mohr titration with silver nitrate using an indicator of potassium chromate/potassium dichromate. Alkalinity and pH were measured by titrations using 0.02 N HCl and a YSI pH100 meter. All procedures were taken from Gieskes et al. (1991). Oxygen isotope ratios of pore water were measured at the Duke Environmental Stable Isotope Lab on a Finnigan MAT mass spectrometer. Analytical precision was $\pm 0.3\%$ for $\delta^{18}\text{O}$ in pore waters.

Pore waters were also analyzed from ODP Leg 155. Interstitial water analyses were conducted on 5 to 15 cm long samples of core sections. Samples were collected similar to the KNR197-4 cruise (in between sections) at an averaged resolution of approximately 15 m. Interstitial water samples were collected using a hydraulic pump and a steel squeezer. Alkalinity, pH and chloride were measured using the same technique as in KNR197-4. Dissolved calcium, magnesium and sulfate concentrations were measured by ion chromatography on a DionexDX-100. Analytical techniques are described in Gieskes et al. (1991) and International Association of Physical Sciences Organization (IAPSO) standard seawater was used for calibration on both the KNR197-4 and ODP Leg 155 samples.

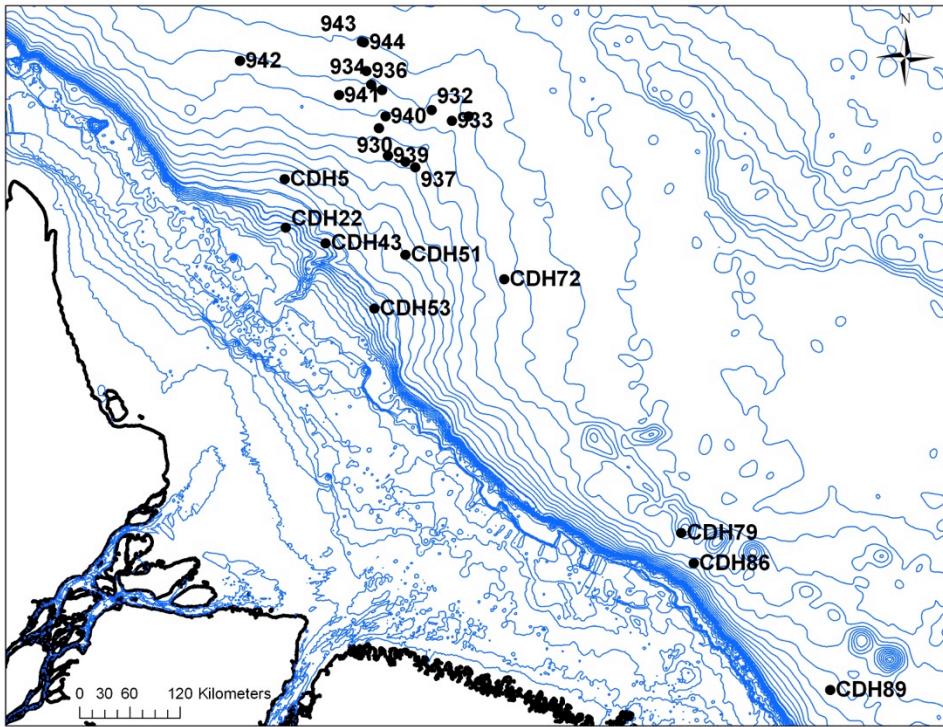


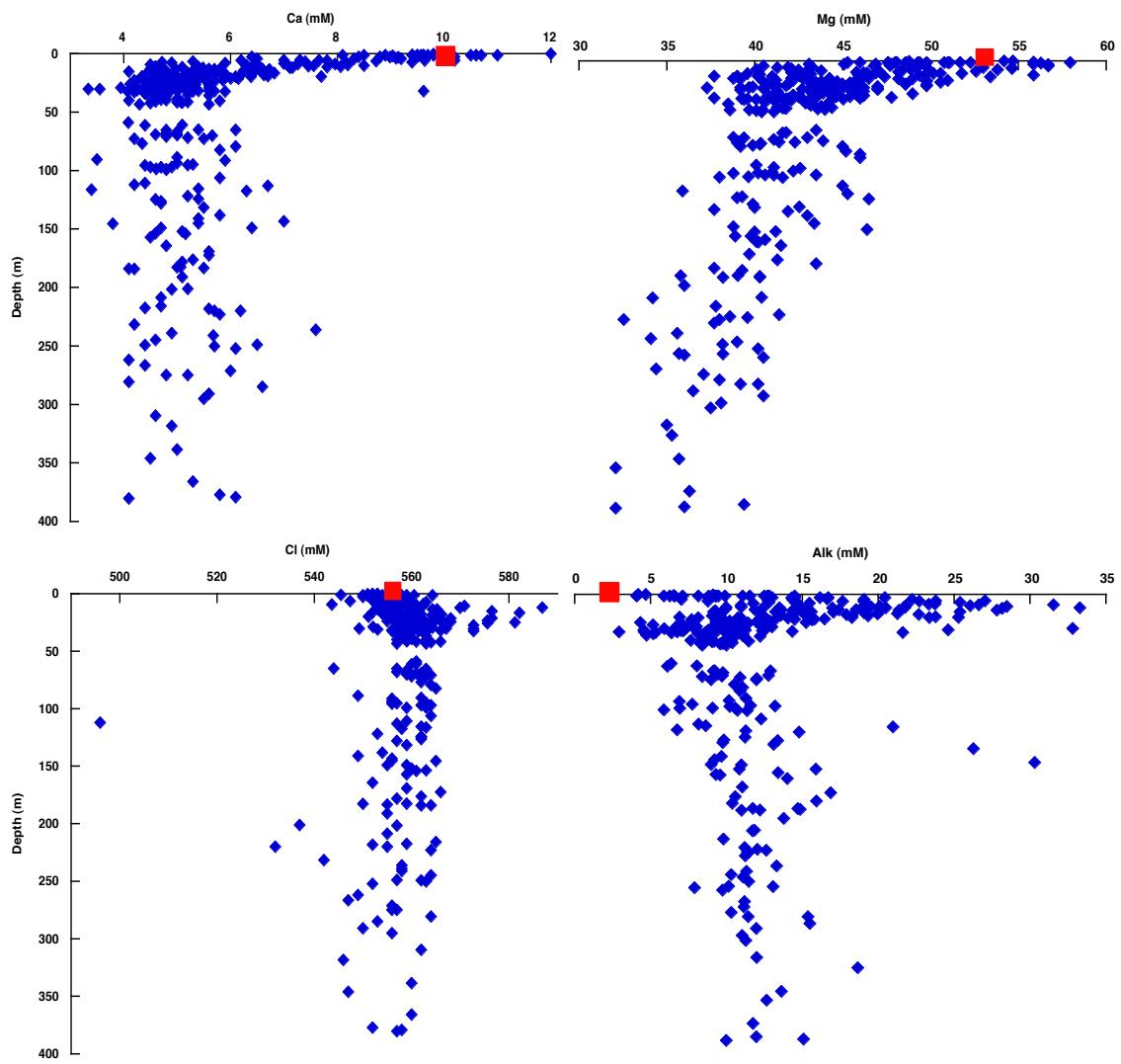
Figure 15: Bathymetric map illustrating core locations and names. CDH refers to cores taken on the KNR197-4 cruise, and cores 930-946 are from ODP Leg 155.

3.4 Results

3.4.1 Chemical Profiles

Interstitial water samples from the KNR197-4 and ODP Leg 155 cruises were combined to illustrate general changes in pore water chemistry within the Amazon Fan and Brazilian continental slope (Figure 2). Chemical profiles are presented for each individual constituent (e.g. Ca or Mg overall) versus depth. Calcium concentrations decrease rapidly from the seawater value of 10.4 mM to ~4 mM at 30 m and remain approximately constant at deeper depths. Magnesium concentrations likewise decrease rapidly from the seawater value of 53.3 mM to ~41 mM at 40 m and then tend to

decrease slowly with depth. Alkalinity values increase rapidly from a seawater value of 2.3 mM to maximum values ranging from 10 to 33 mM occurring at a depth of about 10 m. Alkalinity values then decrease rapidly below ~10 m to minimum values of about ~12 mM at 50 m depth. Alkalinity tends to rise slowly at greater depths. Sulfate concentrations decrease rapidly from seawater values of 28.1 mM to near zero at an average depth of 13 m and a range of 4 to 29 m. Chloride values increase in the upper 30 m from bottom water values of 546 mM to nearly 590 mM and then decrease to values averaging 560 mM. From 50 to 400 m below surface, chloride values show significant scatter with one measurement as low as 490 mM. $\delta^{18}\text{O}$ values in pore fluids show a great deal of scatter but tend to increase downcore, ranging from -0.4‰ to 0.8‰ in the six cores. Oxygen isotopes are presented from 0 to 100 mbsf (as opposed to 400 m because limited values are available from the ODP Leg 155 cores.



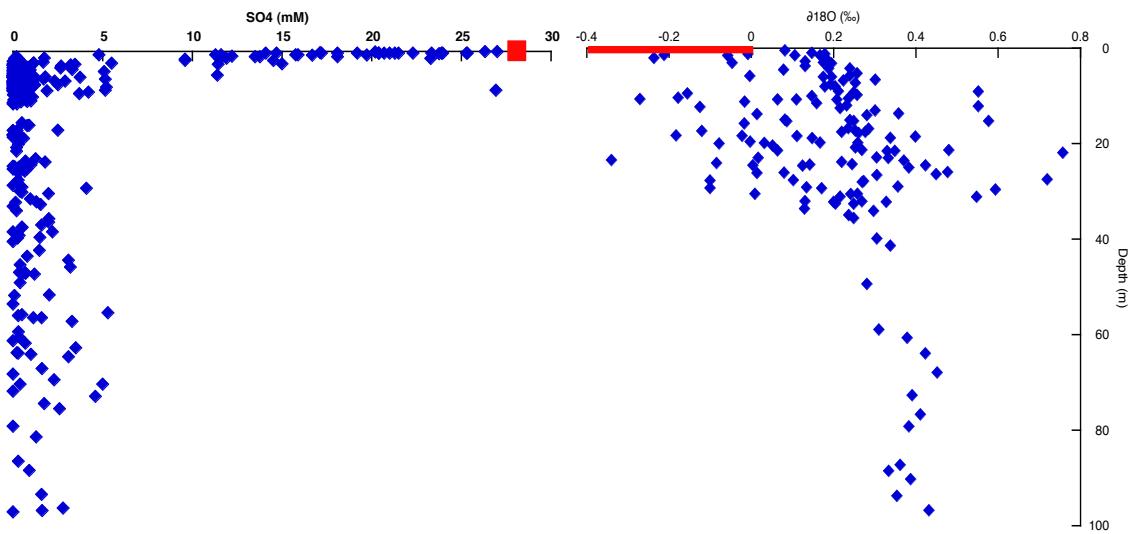


Figure 16: Pore fluid Ion concentrations of interstitial waters throughout the Amazon Fan (combination of 23 ODP Leg 155 and KNR197-4 cores). Red squares indicate modern ocean concentrations based on the IAPSO standard seawater. Red rectangle indicates $\delta^{18}\text{O}$ values measured during the KNR197-4 cruise on bottom waters from the Amazon Fan region.

3.4.2 Spatial Analysis

Here I present interpolated maps of pore water gradients, an approach that to our knowledge has not previously been done. In order to investigate geographic variability in sulfate reduction, an interpolated map was made of sulfate concentration-depth gradient (mM/m) (Figure 3). Sulfate gradients vary from 0.6 mM/m to 6.8 mM/m, with an average gradient of 2.2 mM/m. Lower sulfate gradients occur proximal to the continental shelf, and appear to follow the trend of the main submarine channel. Surrounding the main channel, sulfate gradients are higher, with a maximum rate of 6.8 mM/m distal of the main channel termination. An interpolated map of sedimentation rates was also compiled for all core sites based on radiocarbon ages for all CDH cores and

biostratigraphy for ODP cores. Sedimentation rates are lowest over the upper Amazon Fan and distal portions of the main channel, with the highest sedimentation rates toward the end of the main channel. Maximum alkalinity varies from 10 to 33 mM, with an average of 19 mM. Alkalinity shows a clear trend of higher maximum values along the main channel, with values as high as 33 mM. The main channel is flanked on either side by low alkalinity maxima (12-15 mM), with the lowest alkalinity maximum (10 mM) just beyond the termination of the main channel, creating a horseshoe structure surrounding the main channel.

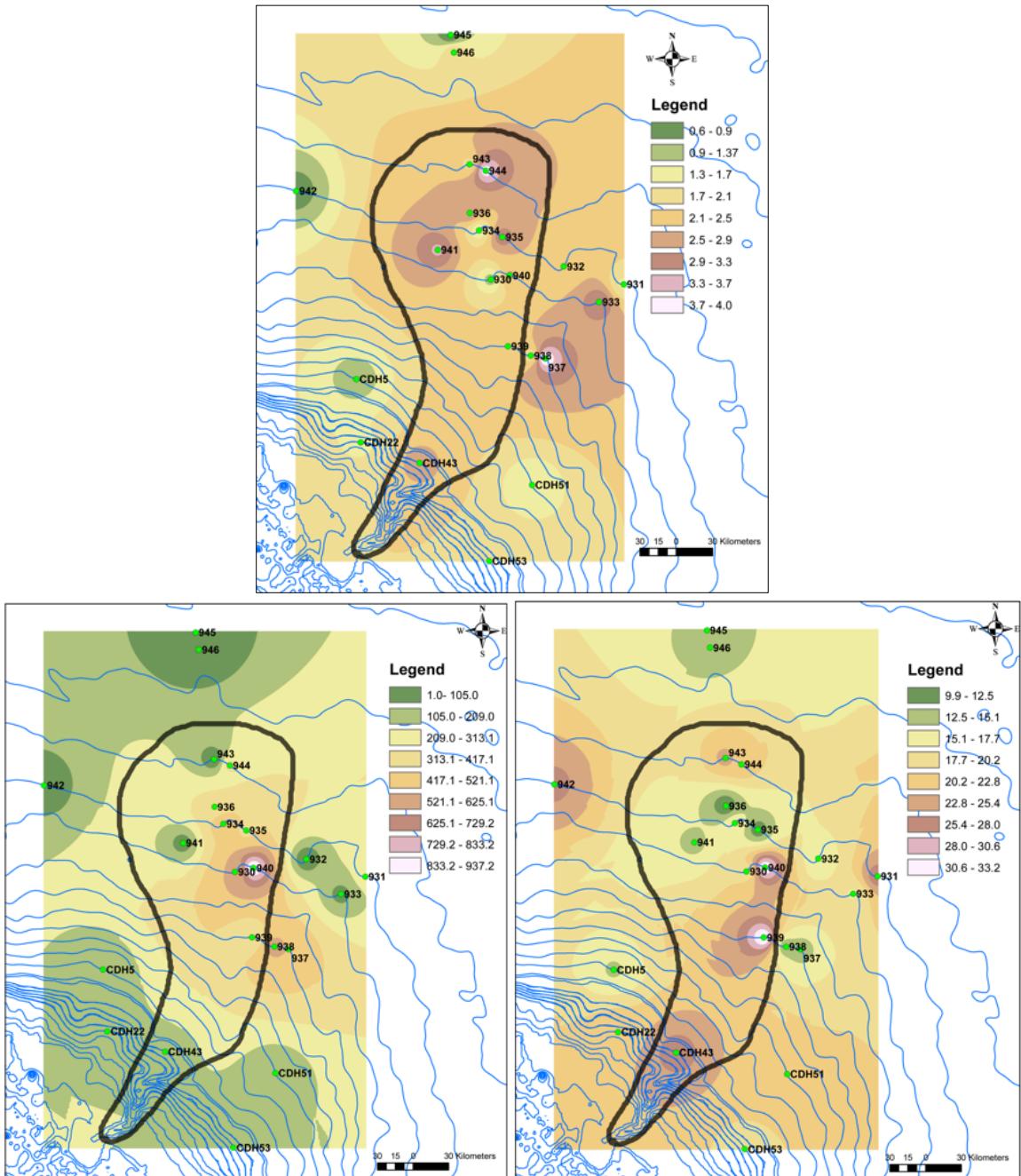


Figure 17: First Panel: Interpolated map of sulfate gradient, in mM/m. Second Panel: Interpolated map of sedimentation rates in cm/ka. Third Panel: Interpolated map of maximum alkalinity in mM. Black line denotes approximate form of the Amazon submarine channel.

3.5 Discussion

3.5.1 Chemical Profiles

Diagenetic removal of calcium and magnesium in the upper 30 m of interstitial waters on the Brazilian continental margin suggests inorganic carbonate precipitation. Burns (1997) determined that CaCO_3 within the Leg 155 cores ranged from 2-3 wt.%, while a dearth of foraminifera in the cores suggests a large portion of calcium to be abiogenic in nature. Burns (1997) found calcium-bearing siderite in the Leg 155 cores, which may contribute minor amounts to the calcium reduction exhibited in interstitial waters but does not explain the large decrease in Mg concentrations. Although dolomite was not visually observed in the ODP cores (Burns, 1997) I believe that dolomite formation is the primary cause of the decrease in Mg with depth. Calculating the diffusive flux of magnesium into the sediment column and considering uptake of Mg is primarily by dolomitization, dolomite would account for 0.08 wt.% within the sediment core. Below ~1 wt.% dolomite would largely be undetectable. Alkalinity concentrations in pore waters are greatly affected by carbonate precipitation and alkalinity peaks approximately at the depth where sulfate goes to zero. In the upper ~10 m, alkalinity increases due to bicarbonate formation during sulfate reduction and negatively correlates with magnesium and calcium. Siderite and Vivianite were found throughout the Leg 155 cores in varying amounts, mostly found as nodules and could possibly be detrital in nature or contribute to the decrease in alkalinity. Below 10 m, alkalinity, magnesium and calcium positively correlate and decrease, suggesting significant removal of calcium and magnesium through dolomitization.

Chemical solutes through the sediment column are controlled by several competing reactions. The traditional form of sulfate reduction is: $\text{SO}_4^{2-} + 2\text{CH}_2\text{O} = 2\text{HCO}_3^- + \text{H}_2\text{S}$, producing bicarbonate, while H_2S quickly goes to FeS_2 . Alternatively, sulfate reduction can combine with dolomitization in the following reaction: $\text{Ca}^{2+} + \text{Mg}^{2+} + 2\text{SO}_4^{2-} + 4\text{CH}_2\text{O} = \text{CaMg}(\text{CO}_3)_2 + \text{H}_2\text{CO}_3 + 2\text{H}_2\text{S}$, where Ca and Mg are taken up in 1:1 stoichiometry to form dolomite. Additional reactions to form dolomite are $\text{Ca}^{2+} + \text{Mg}^{2+} + 4\text{CH}_2\text{O} = \text{CaMg}(\text{CO}_3)_2 + 2\text{H}_2\text{CO}_3$ and $\text{Mg}^{2+} + \text{CaCO}_3 + 2\text{HCO}_3^- = \text{CaMg}(\text{CO}_3)_2 + \text{H}_2\text{CO}_3$, where the stoichiometry dictates $\Delta\text{Ca/Mg}$ is 1 and 0, respectively. In this study, approximately 6 mM of Ca is removed along with 12 mM of Mg, implying a removal stoichiometry of $\Delta\text{Ca/Mg}=0.5$. Thus a mixture of the three reactions above is likely taking place to create the $\Delta\text{Ca/Mg}$ ratio of 0.5. In the upper 30m there is rapid homogeneous precipitation of dolomite by the reaction $\text{Ca} + \text{Mg} + \text{HCO}_3^- = \text{CaMg}(\text{CO}_3)_2$, producing the observed decrease in both Ca and Mg. However, below ~50 m there is heterogeneous precipitation of dolomite by the reaction $\text{Mg} + \text{CaCO}_3 + \text{HCO}_3^- = \text{CaMg}(\text{CO}_3)_2$ producing the observed decrease in Mg coincident with steady Ca concentrations.

Direct measurement in sediments of methane hydrates is difficult because hydrates dissociate at surface temperature and pressure (Borowski et al., 1999), thus indirect methods of assessing methane hydrate presence are typical for marine sites. Organic matter is microbially remineralized using a suite of oxidants, the last two being sulfate and methane (Froelich et al., 1979). Significant methane tends to accumulate in pore fluids below the zone of sulfate reduction, possibly due to the uptake of both sulfate

and methane by anaerobic methane oxidation (Borowski et al., 1999). Some indicators of the existence and magnitude of methane hydrates in the sediment column include pore water chloride concentrations and stable oxygen isotopes, as discussed below.

Bottom simulating reflectors (BSRs) are another indication of the presence of methane hydrates (Shipley et al., 1979). Seismic reflection surveys are used to identify BSRs, which appear as strong reflections (100-800 m) in the sediment stratigraphy, commonly cross cutting stratigraphic layers (Shipley et al., 1979; Dillon and Paull, 1983). BSRs identify the base of the hydrate stability zone. More specifically, the BSR is identified as the seismic velocity contrast from methane hydrates to the presence of methane gas bubbles, a result of methane decomposition due to pressures and temperatures beyond methane hydrate stability (Miller et al., 1991; Singh et al., 1993; Holbrook et al., 1996). The geothermal gradient (30-40°C/km on average in the Amazon Fan) largely dictates the depth of the base of a methane hydrate field, where the temperature and pressure is such that hydrates are stable (Burns, 1997). As pressure increases with depth, the maximum temperature at which methane hydrates can exist also increases, however this is countered by increasing temperatures dictated by the geothermal gradient. At a given depth the temperature becomes high enough where there is no longer stabilization of gas hydrates.

High sedimentation rates and organic carbon input in the Amazon Fan provide an ideal environment for methane hydrate formation (Martens and Klump, 1984; Gornitz and Fung, 1994). The abundance of organic matter delivered to the fan, combined with rapid sedimentation rates, leads to an excess of degradable organic matter, thus microbial

communities must transition through sulfate reduction and lastly to methanogenesis. Borowski et al. (1996; 1999) found a strong correlation between gas hydrate occurrence and a shallow sulfate-methane interface (SMI). The linear, rapid depletion of sulfate suggests that abundant methane production is taking place below the SMI. In regions of high methane production, Borowski et al. (1996; 1999) found that an upward flux of methane intensifies the consumption of sulfate by means of anaerobic methane oxidation, where methane and sulfate are jointly used and the sulfate reduction zone is pushed upward. Burns, (1998) utilized $\delta^{13}\text{C}$ of pore waters to calculate that approximately 50% of sulfate reduction takes place by methane oxidation.

Another indication of methane hydrate presence is the large scatter in chloride concentrations in pore waters (Hesse and Harrison, 1981; Kastner et al., 1995; Paull et al., 1996). Under most conditions chloride concentrations in pore waters are largely conservative in seawater except during periods such as the LGM where abundant fresh water is locked up on continents, increasing the Cl concentration in seawater and thus pore waters. However, during hydrate formation the uptake of water excludes Cl and increases its concentration in the remaining pore water. During core retrieval, the melting of hydrates can subsequently add freshwater to the local pore water, resulting in a lower than usual Cl concentration. Thus, increases or decreases in Cl are indicative of hydrate formation. There are multiple significant decreases in chloride throughout the samples, the lowest being 490 mM, supporting the presence of methane hydrates. There is an increase in chloride from 10-30 m (sulfate decreases to 0 mM around 10 m),

suggesting a drawdown of chloride free waters by deeper forming methane hydrates, enriching chloride concentrations in the overlying sediment column.

Oxygen isotopes are also indicators of methane hydrates within sediments. As methane hydrate forms it preferentially encapsulates ^{18}O , at a $\delta^{18}\text{O}$ of $\sim 2.5\text{\textperthousand}$ (Hesse and Harrison, 1981). The remaining isotopically light pore fluid eventually migrates upward with diffusion. When sediment-containing hydrates are brought to surface temperature and pressure, the hydrate melts along with the isotopically heavy water. Thus, enriched or depleted $\delta^{18}\text{O}$ values in pore waters are an indication of methane hydrate presence.

Oxygen $\delta^{18}\text{O}$ values show a trend toward increasing values with depth, suggesting enhanced methane hydrate formation. The large variation in $\delta^{18}\text{O}$ values is likely due to a combination of enrichment of $\delta^{18}\text{O}$ during the LGM, hydrate formation causing a depletion of $\delta^{18}\text{O}$, or hydrate dissolution increasing $\delta^{18}\text{O}$.

3.5.2 Spatial Analysis

There is significant spatial complexity of sedimentation rate, organic carbon accumulation, and sulfate gradients in the Amazon Fan. As stated earlier, the gradient of sulfate removal is believed to be a useful indicator of methane formation. Previously, variability in sulfate gradients has been attributed to changes in sediment deposition rate, with only a moderate correlation between primary productivity and sulfate gradients (Canfield, 1991). Consistent with typical underwater channels, there are high sedimentation rates terminal of the main channel. The majority of sediment traveling through the channel is deposited at the termination of the channel, leading to high sulfate

gradients at sites 934 and 944. Generally, the geographic distribution of sedimentation rates is not well correlated with sulfate gradients, despite previous literature suggesting a strong relationship between the two processes. It appears that in the Amazon Fan, sedimentation rate does not directly dictate sulfate gradients. A possible explanation is that higher sedimentation rates (unlike pelagic settings) do not guarantee higher organic content. Increased sedimentation rate may dilute the bioavailable organic matter, thus decreasing sulfate reduction and methanogenesis.

Interpretations of alkalinity maxima are slightly more complicated to decipher since alkalinity is typically increased by reduction reactions (such as sulfate reduction), while it is decreased by biogenic or inorganic precipitation of carbonates. There is a set of competing reactions taking place to both increase and decrease alkalinity. Generally, locations of low sulfate gradients correspond to areas of high maximum alkalinity. Alkalinity maximum represents the total usable bicarbonate for carbonate formation or methanogenesis. As noted in Flood et al. (1995), carbonate weight percent was small in most of their cores, ranging from 2-3%. Therefore, this leaves a substantial amount of bicarbonate for potential consumption during methanogenesis.

3.6 Conclusions

Inorganic precipitation of calcium and magnesium, likely via dolomite and siderite, leads to decreased concentrations within the upper sediment column. In correlation, alkalinity is diminished via inorganic carbonate precipitation and

methanogenesis, but alternatively increased through redox pathways and specifically sulfate reduction. Through multiple lines of evidence it is likely that there is extensive methane hydrate occurrence on the Amazon continental shelf. A combination of: 1) A rapid linear decline in sulfate at an unusually shallow depth; 2) The uncommonly high sedimentation rates and organic carbon input; 3) The significant decreases in chloride concentrations; 4) The variable oxygen isotopes provide substantial support for the presence of methane hydrates. Sulfate reduction rates are lowest along the main Amazon channel, with highest values beyond the main channel and further offshore.

Alternatively, sedimentation rates do not correlate with sulfate gradients, with low values on the proximal Amazon Fan and distal of the main channel and highest sedimentation rates toward the lower end of the main channel. Given the tremendous influx of sediment load from the Amazon River, this region is prone to massive sediment failures, subsequent release of methane hydrates, as well as significant potential for hydrocarbon storage. With predicted increases in global ocean temperatures throughout the coming centuries, methane hydrate destabilization becomes a significant factor.

Conclusions

The driving questions behind this dissertation have been: What are the processes, both internal and external, that drive the organics, hydrology, oceanography and sedimentology in tropical South America and the adjacent continental margin? How do external oceanographic and atmospheric forcing affect the Brazilian tropics and western equatorial Atlantic? What are the mechanisms and responses of local oceanography, Amazon hydrology and organics, and early diagenesis of marine sediments to one another? An umbrella understanding of these factors provides, in part, a system wide understanding of the Brazilian tropics, western equatorial Atlantic and the Brazilian continental margin.

Chapters 1 and 2 focus on the sedimentary, hydrologic, and organic history of the Amazon Basin and Brazilian Nordeste. In addition, paleoceanography of the western equatorial Atlantic is reconstructed through sea surface temperature, oxygen isotopes and surface salinity. There is a clear linkage between the organic, sedimentary and oceanographic variability in this study region throughout the late Quaternary. Global atmospheric and oceanographic phenomena are evident in the presented records, verifying linkages between the tropics and high latitudes. In addition, there appears to be a strong correlation between western tropical Atlantic conditions and variability within AMOC. Peaks in relative precipitation in the Amazon Basin and Brazilian Nordeste commonly coincide with warming events in the western equatorial Atlantic and northern hemisphere stadial events. The Nordeste core provides what appears to be a plume signal, as evident by large amplitude, high frequency variability in the surface ocean

temperature and salinity off the Brazilian coast. This study verifies linkages between high latitude North Atlantic and tropical South American climate, despite an unclear understanding of the mechanisms that either propagate climatological forcings from the polar regions to the tropics or vice versa.

Chapter 3 examines early diagenesis and methane hydrate occurrence on the Brazilian continental margin. The Amazon fan and Brazilian continental margin are sites of unusually high sedimentation rate, combined with significant terrestrial organic matter input and high sediment failure rates; a combination that makes this an ideal region to study early diagenesis, organic matter remineralization and methane hydrates. Inorganic precipitation of dolomite and siderite are evident through interstitial Ca and Mg depletion within the sediment column. In addition, a rapid, linear decline in sulfate at shallow depths, combined with highly variable oxygen isotopes and chloride concentrations, and widespread occurrence of BSRs indicates significant methane hydrate presence within the Amazon fan and Brazilian continental margin. Sulfate reduction rates remain low along the main Amazon channel, with highest values distal of the main channel. Sedimentation rates do not correlate with sulfate gradients, with low values on the proximal Amazon Fan and distal of the main channel and highest sedimentation rates toward the lower end of the main channel. Diagenesis on the Brazilian continental slope remains vital to our understanding of a region prone to significant sediment failures, easily destabilized methane hydrates, as well as a region of significant hydrocarbon potential.

Appendix A

Table 1: Foraminifera and organic carbon calendar and radiocarbon ages for core CDH5.

Foraminifera 14C				Organic Carbon 14C			
Core	Depth (cm)	Calendar Age (BP)	Std. Dev.	Core	Depth (cm)	Calendar Age (BP)	Std. Dev.
BC3	5	987	41	GGC4	65	13607	83
BC3	45	7025	27	CDH5	190	15372	124
GGC4	65	9859	27	GGC4	255	15830	124
CDH5	190	13334	67	CDH5	360	15946	128
GGC4	255	13973	126	CDH5	560	18106	199
CDH5	360	15029	138	CDH5	670	18718	93
CDH5	560	16648	196	CDH5	860	19278	99
CDH5	670	17302	230	CDH5	1010	20079	123
CDH5	1000	18693	98	CDH5	1120	20571	116
CDH5	1330	19973	103	CDH5	1330	22005	139
CDH5	1440	20484	166	CDH5	1440	22218	129
CDH5	1610	20963	148	CDH5	1610	22938	208
CDH5	1770	21905	120	CDH5	1770	23418	141
CDH5	1910	22172	106	CDH5	1910	23779	144
CDH5	2080	23080	149	CDH5	2080	24536	194
CDH5	2250	23612	100	CDH5	2250	25524	181
CDH5	2400	24115	107	CDH5	2400	26234	156
CDH5	2500	24734	119	CDH5	2500	26812	190
CDH5	2610	25589	115	CDH5	2610	27153	197
CDH5	2780	25835	133	CDH5	2780	27947	180
CDH5	2920	27094	171	CDH5	2920	28622	196
CDH5	3080	27094	169	CDH5	3080	29069	218
CDH5	3335	28557	177	CDH5	3335	28957	228

Table 2: Foraminifera G. ruber $\delta^{18}\text{O}$, Mg/Ca paleothermometry and $\delta^{18}\text{O}$ of seawater from core CDH5.

Foraminifera G. ruber		Foraminifera G. ruber Mg/Ca		Foraminifera G. ruber	
Depth (cm)	$\delta^{18}\text{O}_{\text{C}} (\text{\textperthousand})$	Depth (cm)	Temperature (°C)	Depth (cm)	$\delta^{18}\text{O}_{\text{sw}} (\text{\textperthousand})$
3.0	-3.34	3.0	26.70	3.0	-0.61
4.0	-2.24	4.0	27.18	4.0	0.59
5.0	-2.91	5.0	26.89	5.0	-0.14
6.0	-2.07	6.0	27.12	6.0	0.74
7.0	-1.96	7.0	27.65	7.0	0.97
8.0	-2.21	8.0	27.10	8.0	0.60
9.0	-2.17	9.0	26.93	9.0	0.61
10.0	-2.02	10.0	26.30	10.0	0.63
11.0	-2.20	11.0	27.62	11.0	0.72
12.0	-2.05	12.0	27.72	12.0	0.89
13.0	-2.21	13.0	26.51	13.0	0.48
14.0	-2.12	14.0	27.20	14.0	0.71
15.0	-2.36	15.0	26.53	15.0	0.33
16.0	-2.11	16.0	27.05	16.0	0.69
17.0	-2.18	17.0	27.08	17.0	0.63
18.0	-1.94	18.0	27.33	18.0	0.92
19.0	-2.32	19.0	27.25	19.0	0.53
20.0	-2.09	20.0	27.30	20.0	0.77
21.0	-2.03	21.0	27.38	21.0	0.84
22.0	-2.15	22.0	26.64	22.0	0.57
23.0	-2.27	23.0	27.34	23.0	0.59
24.0	-2.00	24.0	28.91	24.0	1.18
25.0	-2.32	25.0	27.59	25.0	0.60
27.0	-2.23	26.0	27.38	27.0	0.64
28.0	-1.90	27.0	27.37	28.0	1.04
29.0	-2.03	28.0	27.72	29.0	0.99

30.0	-1.63	29.0	28.09	30.0	1.23
31.0	-1.91	30.0	27.35	31.0	0.92
32.0	-1.82	31.0	27.22	32.0	0.94
33.0	-1.84	32.0	26.85	33.0	0.97
35.0	-2.06	33.0	27.07	35.0	0.66
36.0	-1.50	34.0	27.02	36.0	1.32
37.0	-1.87	35.0	26.69	37.0	0.97
38.0	-1.60	36.0	27.14	38.0	1.24
39.0	-1.92	37.0	27.24	39.0	0.76
41.0	-1.76	38.0	27.19	40.0	1.04
42.0	-1.72	39.0	26.48	42.0	1.06
43.0	-1.96	40.0	27.07	43.0	0.87
44.0	-1.76	41.0	27.16	44.0	1.10
45.0	-1.77	42.0	26.93	45.0	0.99
45.0	-1.83	43.0	27.18	85.0	0.74
65.0	-1.77	44.0	27.33	105.0	1.19
85.0	-1.81	45.0	26.89	120.0	1.09
105.0	-1.37	85.0	25.83	140.0	1.36
120.0	-1.38	105.0	25.91	160.0	1.35
140.0	-1.30	125.0	25.49	180.0	1.36
160.0	-1.21	140.0	26.39	200.0	1.32
180.0	-1.19	160.0	25.87	220.0	1.26
200.0	-1.17	180.0	25.86	240.0	1.36
220.0	-1.15	200.0	25.56	260.0	1.19
240.0	-1.26	220.0	25.19	280.0	1.09
260.0	-1.30	240.0	26.18	300.0	1.15
280.0	-1.38	260.0	25.54	320.0	1.61
300.0	-1.31	280.0	25.47	340.0	1.40
320.0	-0.84	300.0	25.39	360.0	1.29
340.0	-1.03	320.0	25.37	380.0	1.38
360.0	-1.01	340.0	25.28	400.0	1.54
380.0	-1.09	360.0	24.61	420.0	1.78
400.0	-0.91	380.0	25.46	440.0	1.78
420.0	-0.68	400.0	25.37	460.0	1.82
440.0	-0.61	420.0	25.41	480.0	1.70
460.0	-0.68	440.0	25.08	500.0	1.73
480.0	-0.75	460.0	25.60	520.0	1.87
500.0	-0.76	480.0	25.41	540.0	2.01
520.0	-0.61	500.0	25.59	620.0	2.15
540.0	-0.39	520.0	25.51	640.0	1.87
560.0	-0.20	540.0	25.12	660.0	1.69
600.0	-0.48	580.0	25.34	680.0	1.87
620.0	-0.11	620.0	25.20	700.0	2.20
640.0	-0.55	640.0	24.46	720.0	1.69
660.0	-0.64	660.0	25.20	780.0	1.58
680.0	-0.54	680.0	24.76	800.0	1.57
700.0	-0.28	700.0	25.17	820.0	1.40
720.0	-0.64	720.0	25.49	840.0	1.93
760.0	-1.17	740.0	24.76	860.0	1.43
780.0	-0.99	780.0	25.93	880.0	1.66
800.0	-1.04	800.0	26.15	900.0	1.58
820.0	-1.25	820.0	26.32	920.0	1.27
840.0	-0.30	840.0	24.29	940.0	1.46
860.0	-0.57	860.0	23.20	960.0	2.03
880.0	-0.29	880.0	22.95	980.0	1.28
900.0	-0.32	900.0	22.72	1000.0	1.60
920.0	-0.69	920.0	23.00	1020.0	1.68
940.0	-0.55	940.0	23.24	1040.0	1.59
960.0	0.07	960.0	23.01	1060.0	1.82
980.0	-0.58	980.0	22.53	1080.0	1.56
1000.0	-0.33	1000.0	22.87	1100.0	1.84
1020.0	-0.26	1020.0	22.95	1120.0	2.05
1040.0	-0.37	1040.0	23.01	1140.0	2.29
1060.0	-0.15	1060.0	23.07	1160.0	2.24
1080.0	-0.46	1080.0	23.29	1180.0	1.89
1100.0	-0.24	1100.0	23.58	1200.0	2.04
1120.0	-0.08	1120.0	23.86	1220.0	1.97
1140.0	0.03	1140.0	24.48	1240.0	2.07
1160.0	0.04	1160.0	24.16	1260.0	2.01
1180.0	-0.20	1180.0	23.67	1280.0	2.29

1200.0	-0.14	1200.0	24.05	1300.0	1.97
1220.0	-0.21	1220.0	24.06	1320.0	2.20
1240.0	-0.07	1240.0	23.86	1340.0	2.14
1260.0	-0.11	1260.0	23.81	1360.0	2.32
1280.0	-0.01	1280.0	24.67	1380.0	2.02
1300.0	-0.15	1300.0	23.80	1400.0	1.83
1320.0	-0.01	1320.0	24.21	1420.0	2.14
1340.0	-0.08	1340.0	24.28	1440.0	1.81
1360.0	0.09	1360.0	24.31	1460.0	2.18
1380.0	-0.21	1380.0	24.30	1480.0	1.94
1400.0	-0.38	1400.0	24.23	1500.0	1.91
1420.0	0.02	1420.0	23.77	1520.0	1.90
1440.0	-0.25	1440.0	23.52	1540.0	1.86
1460.0	-0.03	1460.0	24.22	1560.0	1.64
1480.0	-0.20	1480.0	23.84	1580.0	1.66
1500.0	-0.38	1500.0	24.58	1600.0	1.79
1520.0	-0.29	1520.0	24.13	1620.0	2.01
1540.0	-0.30	1540.0	24.00	1640.0	1.86
1560.0	-0.58	1560.0	24.23	1660.0	2.42
1580.0	-0.49	1580.0	23.90	1680.0	2.36
1600.0	-0.44	1600.0	24.29	1700.0	2.06
1620.0	-0.13	1620.0	23.90	1720.0	2.31
1640.0	-0.29	1640.0	23.88	1740.0	2.15
1660.0	0.23	1660.0	24.14	1760.0	2.13
1680.0	0.13	1680.0	24.28	1780.0	2.17
1700.0	-0.17	1700.0	24.32	1800.0	2.35
1720.0	0.16	1720.0	23.93	1820.0	2.05
1740.0	0.00	1740.0	23.90	1860.0	2.10
1760.0	-0.10	1760.0	24.30	1880.0	1.88
1780.0	-0.08	1780.0	24.38	1920.0	1.69
1800.0	0.15	1800.0	24.20	1940.0	2.29
1820.0	-0.21	1820.0	24.47	1960.0	1.88
1860.0	-0.21	1840.0	24.63	1980.0	2.20
1880.0	-0.39	1860.0	24.67	2000.0	1.79
1920.0	-0.51	1880.0	24.51	2020.0	1.95
1940.0	-0.06	1900.0	24.43	2040.0	1.87
1960.0	-0.25	1920.0	24.17	2060.0	2.40
1980.0	0.11	1940.0	24.86	2080.0	2.02
2000.0	-0.42	1960.0	23.84	2100.0	2.01
2020.0	-0.18	1980.0	23.64	2120.0	1.67
2040.0	-0.26	2000.0	24.23	2140.0	2.52
2060.0	0.08	2020.0	23.83	2160.0	2.01
2080.0	-0.22	2040.0	23.82	2200.0	1.87
2100.0	-0.23	2060.0	24.78	2240.0	2.10
2120.0	-0.41	2080.0	24.37	2280.0	1.95
2140.0	0.20	2100.0	24.37	2320.0	2.34
2160.0	-0.35	2120.0	23.57	2360.0	2.31
2200.0	-0.54	2140.0	24.74	2380.0	2.12
2240.0	-0.38	2160.0	24.93	2420.0	1.76
2260.0	-0.11	2180.0	24.50	2480.0	2.31
2280.0	-0.36	2200.0	25.14	2500.0	1.86
2300.0	0.27	2220.0	25.69	2520.0	2.28
2320.0	-0.16	2240.0	25.50	2540.0	1.77
2360.0	-0.06	2260.0	24.74	2560.0	2.03
2380.0	-0.34	2280.0	24.67	2580.0	1.59
2400.0	-0.10	2300.0	28.28	2600.0	1.80
2420.0	-0.52	2320.0	25.62	2620.0	1.66
2440.0	0.18	2360.0	25.00	2640.0	2.36
2460.0	-0.37	2380.0	25.44	2660.0	1.79
2480.0	0.13	2420.0	24.57	2680.0	2.06
2500.0	-0.45	2480.0	24.05	2700.0	1.93
2520.0	-0.11	2500.0	24.67	2720.0	2.66
2540.0	-0.58	2520.0	25.05	2740.0	1.93
2560.0	-0.16	2540.0	24.85	2760.0	2.35
2580.0	-0.72	2560.0	24.11	2780.0	1.64
2600.0	-0.49	2580.0	24.72	2800.0	2.64
2620.0	-0.73	2600.0	24.60	2820.0	1.79
2640.0	-0.01	2620.0	25.04	2840.0	2.57
2660.0	-0.63	2640.0	24.98	2860.0	1.69
2680.0	-0.29	2660.0	25.22	2880.0	2.57

2700.0	-0.48	2680.0	24.88	2900.0	1.75
2720.0	0.19	2700.0	25.14	2920.0	2.25
2740.0	-0.54	2720.0	25.46	2940.0	1.87
2760.0	-0.15	2740.0	25.47	2960.0	2.32
2780.0	-0.69	2760.0	25.61	2980.0	1.47
2800.0	0.23	2780.0	24.80	3000.0	2.34
2820.0	-0.52	2800.0	25.19	3020.0	1.44
2840.0	0.12	2820.0	24.72	3040.0	2.19
2860.0	-0.58	2840.0	25.36	3060.0	1.66
2880.0	0.13	2860.0	24.50	3080.0	2.11
2900.0	-0.64	2880.0	25.31	3100.0	1.76
2920.0	-0.02	2900.0	25.07	3120.0	2.35
2940.0	-0.38	2920.0	24.52	3140.0	1.75
2960.0	-0.06	2940.0	24.43	3160.0	2.11
2980.0	-0.69	2960.0	25.03	3180.0	1.44
3000.0	-0.03	2980.0	23.98	3200.0	2.45
3020.0	-0.73	3000.0	24.96	3220.0	1.57
3040.0	-0.01	3020.0	24.05	3240.0	2.31
3060.0	-0.54	3040.0	24.20	3260.0	2.04
3080.0	-0.06	3060.0	24.16	3280.0	2.14
3100.0	-0.45	3080.0	24.00	3300.0	1.57
3120.0	0.21	3100.0	24.22	3320.0	2.03
3140.0	-0.42	3120.0	23.88		
3160.0	-0.12	3140.0	24.05		
3180.0	-0.70	3160.0	24.30		
3200.0	0.14	3180.0	23.87		
3220.0	-0.62	3200.0	24.65		
3240.0	0.08	3220.0	24.13		
3260.0	-0.20	3240.0	24.33		
3280.0	-0.08	3260.0	24.37		
3300.0	-0.51	3280.0	24.25		
3320.0	-0.08	3300.0	23.61		
		3320.0	23.73		

Table 3: C/N molar ratio and $\delta^{13}\text{C}$ of organic carbon in core CDH5.

Depth (cm)	C/N	$\delta^{13}\text{C}$ (‰)	Depth (cm)	C/N	$\delta^{13}\text{C}$ (‰)	Depth (cm)	C/N	$\delta^{13}\text{C}$ (‰)	Depth (cm)	C/N	$\delta^{13}\text{C}$ (‰)
20.0	5.36	-21.27	845.0	9.92	-26.01	1675.0	8.99	-25.70	2505.0	8.90	-25.56
30.0	5.69	-21.67	855.0	9.47	-27.21	1685.0	9.21	-25.46	2515.0	8.70	-25.56
40.0	5.90	-21.45	865.0	9.84	-25.66	1695.0	9.06	-25.71	2525.0	9.02	-25.00
50.0	5.62	-21.41	875.0	9.71	-25.52	1705.0	8.93	-25.68	2535.0	8.88	-25.15
60.0	6.37	-21.55	885.0	9.84	-25.82	1715.0	9.07	-25.45	2545.0	8.96	-25.18
70.0	7.40	-21.44	895.0	9.79	-25.73	1725.0	9.05	-25.61	2555.0	8.97	-25.10
80.0	7.76	-22.15	905.0	9.53	-25.55	1735.0	9.11	-25.58	2565.0	8.91	-25.55
90.0	7.72	-22.13	915.0	9.93	-25.91	1745.0	8.72	-25.72	2575.0	8.77	-25.15
100.0	6.93	-22.06	925.0	9.85	-25.44	1755.0	8.72	-25.25	2585.0	8.98	-25.31
115.0	7.59	-22.42	935.0	10.22	-25.76	1765.0	8.56	-25.73	2595.0	9.09	-25.53
125.0	7.37	-22.39	945.0	10.05	-25.66	1775.0	9.52	-25.39	2605.0	9.18	-25.65
135.0	7.30	-22.77	955.0	10.03	-25.85	1785.0	8.60	-25.52	2615.0	9.33	-25.25
145.0	7.19	-22.88	965.0	10.31	-26.01	1795.0	8.89	-25.83	2625.0	9.40	-25.60
155.0	8.64	-24.46	975.0	9.94	-25.54	1805.0	8.88	-25.50	2635.0	9.33	-25.80
165.0	8.06	-23.92	985.0	9.98	-25.79	1815.0	9.01	-25.91	2645.0	9.18	-25.16
175.0	7.81	-24.45	995.0	10.03	-25.43	1825.0	8.86	-25.83	2655.0	9.15	-26.01
185.0	7.99	-24.24	1005.0	10.12	-25.57	1835.0	9.23	-25.44	2665.0	9.42	-25.62
195.0	8.67	-24.34	1015.0	9.03	-25.92	1845.0	8.89	-25.79	2675.0	9.13	-25.37
205.0	8.22	-24.42	1025.0	9.13	-25.29	1855.0	8.73	-26.01	2685.0	9.07	-25.82
215.0	8.54	-24.76	1035.0	8.59	-25.69	1865.0	8.64	-25.85	2695.0	9.54	-25.45
225.0	8.66	-25.25	1045.0	8.57	-25.73	1875.0	8.80	-25.49	2705.0	9.19	-25.53
235.0	9.56	-25.64	1055.0	8.93	-25.38	1895.0	8.76	-25.82	2715.0	9.38	-25.92
245.0	9.69	-26.21	1065.0	8.89	-25.78	1905.0	8.50	-25.96	2725.0	9.38	-25.50
255.0	9.66	-26.28	1075.0	8.99	-25.42	1915.0	8.57	-25.44	2735.0	9.23	-25.79
265.0	10.57	-27.19	1085.0	9.05	-26.09	1925.0	8.89	-25.89	2745.0	9.31	-26.00
275.0	9.96	-26.49	1095.0	8.93	-25.99	1935.0	8.52	-26.06	2755.0	9.57	-25.47
285.0	9.97	-26.29	1105.0	9.26	-25.35	1945.0	8.83	-25.62	2765.0	9.57	-26.07
295.0	9.00	-26.78	1115.0	9.06	-25.91	1955.0	8.40	-25.87	2775.0	9.35	-25.88

305.0	8.93	-26.36	1125.0	9.05	-25.28	1965.0	9.08	-25.94	2785.0	9.34	-25.45
315.0	9.36	-26.53	1135.0	8.71	-25.39	1975.0	8.88	-25.61	2795.0	9.50	-26.03
325.0	8.66	-25.87	1145.0	8.90	-25.89	1985.0	8.95	-25.96	2805.0	9.51	-25.51
335.0	9.27	-26.01	1155.0	8.79	-25.69	1995.0	8.44	-25.95	2815.0	9.49	-25.34
345.0	8.69	-25.24	1165.0	8.99	-25.85	2005.0	8.66	-25.95	2825.0	9.42	-25.80
355.0	9.55	-24.87	1175.0	8.91	-25.67	2015.0	8.29	-26.65	2835.0	8.92	-25.68
365.0	9.00	-25.24	1185.0	8.91	-25.57	2025.0	8.68	-25.89	2845.0	8.95	-25.34
375.0	9.47	-25.01	1195.0	8.77	-25.82	2035.0	8.82	-25.50	2855.0	8.97	-25.51
385.0	9.54	-25.00	1205.0	8.93	-25.27	2045.0	8.87	-26.09	2865.0	8.79	-25.64
395.0	9.01	-25.76	1215.0	9.11	-25.74	2055.0	8.66	-26.02	2875.0	8.97	-25.36
405.0	9.20	-25.67	1225.0	9.20	-25.58	2065.0	8.66	-25.35	2885.0	8.87	-25.38
415.0	8.88	-25.24	1235.0	8.85	-25.26	2075.0	8.89	-25.76	2895.0	8.56	-25.74
425.0	9.06	-25.47	1245.0	9.15	-25.81	2085.0	8.77	-25.64	2905.0	8.86	-25.68
435.0	8.84	-25.29	1255.0	8.93	-25.24	2095.0	8.81	-25.45	2915.0	8.78	-25.57
445.0	9.05	-25.18	1265.0	9.00	-25.89	2105.0	8.81	-25.76	2925.0	8.53	-25.73
455.0	8.86	-25.08	1275.0	8.56	-25.36	2115.0	8.94	-25.57	2935.0	8.76	-25.65
465.0	8.97	-24.99	1285.0	8.84	-25.80	2125.0	8.97	-25.82	2945.0	8.74	-25.56
475.0	9.15	-25.26	1295.0	8.38	-25.72	2135.0	8.89	-25.81	2955.0	8.79	-25.44
485.0	8.99	-24.96	1305.0	9.69	-25.55	2145.0	8.81	-25.88	2965.0	8.90	-25.78
495.0	8.73	-24.42	1315.0	8.90	-25.98	2155.0	8.80	-25.90	2975.0	9.02	-26.12
505.0	8.80	-24.15	1325.0	9.12	-25.62	2165.0	8.82	-25.74	2985.0	8.91	-25.61
515.0	8.66	-23.81	1335.0	9.40	-25.83	2175.0	8.92	-25.78	2995.0	8.86	-25.58
525.0	8.75	-24.38	1345.0	9.04	-25.59	2185.0	9.11	-25.83	3005.0	8.67	-25.76
535.0	9.69	-25.63	1355.0	9.11	-25.31	2195.0	9.12	-25.68	3015.0	8.86	-25.45
545.0	10.04	-25.91	1365.0	8.95	-25.85	2205.0	9.12	-25.88	3025.0	8.91	-25.37
555.0	9.87	-25.81	1375.0	9.84	-25.76	2215.0	9.17	-25.80	3035.0	9.16	-25.88
565.0	10.17	-25.92	1385.0	8.92	-25.66	2225.0	8.83	-25.60	3045.0	9.02	-25.66
575.0	10.10	-26.17	1395.0	8.59	-25.65	2235.0	8.65	-25.57	3055.0	9.12	-25.37
585.0	9.66	-25.97	1405.0	8.75	-25.61	2245.0	9.25	-25.59	3065.0	8.93	-25.84
595.0	10.33	-25.77	1415.0	8.75	-25.85	2255.0	9.49	-26.03	3075.0	9.04	-25.97
605.0	10.36	-25.95	1435.0	8.57	-25.73	2265.0	9.27	-25.70	3085.0	9.18	-25.61
615.0	10.18	-25.92	1445.0	8.51	-25.58	2275.0	9.14	-25.58	3095.0	9.23	-26.25
625.0	10.13	-25.82	1455.0	8.57	-25.50	2285.0	9.36	-25.69	3105.0	9.20	-25.89
635.0	9.92	-25.87	1465.0	8.90	-25.38	2295.0	8.96	-26.06	3115.0	9.39	-25.37
645.0	10.43	-25.79	1475.0	8.79	-25.51	2305.0	8.94	-25.46	3125.0	9.24	-25.82
655.0	10.70	-26.08	1485.0	8.57	-25.37	2315.0	8.99	-25.70	3135.0	9.55	-25.91
665.0	10.40	-26.18	1495.0	8.64	-25.44	2325.0	9.06	-26.22	3145.0	9.24	-25.55
675.0	10.19	-25.81	1505.0	8.71	-25.47	2335.0	9.24	-26.19	3155.0	9.30	-25.47
685.0	10.24	-26.00	1515.0	8.94	-25.61	2345.0	9.50	-25.82	3165.0	9.46	-25.96
695.0	10.21	-25.94	1525.0	9.10	-25.44	2355.0	9.48	-26.08	3175.0	9.72	-25.57
705.0	10.29	-25.73	1535.0	9.00	-25.55	2365.0	9.56	-26.11	3185.0	9.65	-25.71
715.0	10.35	-26.33	1545.0	8.71	-25.40	2375.0	9.51	-25.56	3195.0	8.87	-25.71
725.0	10.31	-25.80	1555.0	8.67	-25.58	2385.0	9.39	-25.74	3205.0	8.91	-25.84
735.0	9.56	-28.27	1565.0	8.97	-25.52	2395.0	9.28	-25.96	3215.0	9.19	-26.01
745.0	10.39	-25.77	1575.0	8.90	-25.50	2405.0	9.07	-25.78	3225.0	9.53	-26.43
755.0	10.37	-26.11	1585.0	8.87	-25.65	2415.0	9.35	-26.16	3235.0	8.96	-25.81
765.0	10.26	-26.30	1595.0	9.01	-25.22	2425.0	9.67	-25.86	3245.0	9.41	-26.10
775.0	10.37	-25.91	1605.0	8.73	-25.52	2435.0	9.63	-25.91	3255.0	9.33	-26.51
785.0	10.06	-25.92	1615.0	9.00	-25.90	2445.0	9.75	-25.34	3265.0	9.20	-25.61
795.0	10.67	-26.31	1625.0	9.08	-25.72	2455.0	9.99	-25.32	3275.0	8.80	-25.55
805.0	9.79	-25.78	1635.0	9.32	-25.66	2465.0	9.88	-25.65	3285.0	9.13	-25.70
815.0	10.13	-26.13	1645.0	9.20	-25.50	2475.0	9.33	-25.70	3295.0	9.42	-27.01
825.0	9.94	-25.53	1655.0	8.93	-25.56	2485.0	8.74	-25.65	3305.0	9.60	-27.01
835.0	9.72	-25.76	1665.0	9.18	-25.57	2495.0	9.18	-25.37	3315.0	9.12	-25.63
									3325.0	9.47	-26.04
									3335.0	9.25	-25.90

Table 4: Magnetic susceptibility in core CDH5.

Depth (cm)	MS (SI)										
22.0	77.00	563.0	220.69	1121.0	211.20	1727.0	183.49	2319.0	216.44	2885.0	252.48
24.0	94.00	565.0	221.74	1123.0	211.82	1729.0	192.01	2321.0	225.19	2887.0	254.01
26.0	98.00	567.0	219.42	1125.0	213.07	1731.0	175.60	2323.0	229.02	2889.0	258.24
28.0	98.00	569.0	218.75	1127.0	214.72	1735.0	197.85	2325.0	226.76	2891.0	261.87
30.0	97.00	571.0	216.07	1129.0	214.22	1737.0	214.42	2327.0	217.74	2893.0	263.77

32.0	97.00	573.0	213.87	1131.0	214.43	1739.0	214.85	2329.0	199.97	2895.0	261.31
34.0	100.00	575.0	209.42	1133.0	213.49	1741.0	223.04	2331.0	219.75	2897.0	259.27
36.0	103.00	577.0	211.18	1135.0	214.58	1743.0	229.78	2333.0	225.96	2899.0	259.99
38.0	106.00	579.0	211.57	1137.0	214.76	1745.0	233.34	2335.0	229.11	2901.0	258.72
40.0	108.00	581.0	202.79	1139.0	217.21	1747.0	234.52	2337.0	232.97	2903.0	259.38
42.0	112.00	589.0	191.51	1141.0	219.81	1749.0	232.54	2339.0	238.34	2905.0	254.36
44.0	117.00	591.0	199.47	1143.0	224.31	1751.0	229.45	2341.0	245.36	2907.0	252.59
46.0	121.00	593.0	205.42	1145.0	226.28	1753.0	232.65	2343.0	245.99	2909.0	251.90
48.0	124.00	595.0	208.13	1147.0	227.63	1755.0	236.35	2345.0	251.28	2911.0	247.02
50.0	128.00	597.0	210.12	1149.0	230.05	1757.0	236.61	2347.0	254.10	2913.0	247.92
52.0	131.00	599.0	210.84	1151.0	229.37	1759.0	235.73	2349.0	254.63	2915.0	248.56
54.0	134.00	601.0	210.59	1153.0	231.15	1761.0	233.48	2351.0	252.33	2917.0	246.93
56.0	136.00	603.0	210.95	1155.0	232.57	1763.0	232.41	2353.0	251.19	2919.0	248.75
58.0	137.00	605.0	213.72	1157.0	230.02	1765.0	232.57	2355.0	247.33	2921.0	252.71
60.0	135.00	607.0	213.12	1159.0	227.34	1767.0	232.96	2357.0	243.68	2923.0	253.32
62.0	131.00	609.0	213.71	1161.0	224.42	1769.0	233.38	2359.0	239.77	2925.0	254.06
64.0	130.00	611.0	212.15	1163.0	218.12	1771.0	235.77	2361.0	237.40	2927.0	255.42
66.0	130.00	613.0	212.74	1165.0	218.30	1773.0	237.84	2363.0	231.41	2929.0	258.09
68.0	131.00	615.0	213.69	1167.0	217.43	1775.0	235.98	2365.0	222.70	2931.0	259.97
70.0	129.00	617.0	213.94	1169.0	218.01	1777.0	224.77	2367.0	222.21	2933.0	265.05
72.0	130.00	619.0	212.97	1171.0	218.95	1779.0	223.88	2369.0	234.90	2935.0	265.17
74.0	131.00	621.0	214.46	1173.0	220.86	1781.0	221.50	2371.0	234.56	2937.0	266.22
76.0	132.00	623.0	214.29	1175.0	222.71	1783.0	226.08	2373.0	235.71	2939.0	269.71
78.0	131.00	625.0	215.55	1177.0	223.03	1785.0	231.58	2375.0	236.34	2941.0	269.15
80.0	131.00	629.0	214.55	1179.0	222.47	1787.0	234.02	2377.0	235.88	2947.0	232.72
82.0	130.00	631.0	215.34	1181.0	211.23	1789.0	230.32	2379.0	237.35	2949.0	246.37
84.0	131.00	633.0	213.91	1183.0	215.39	1791.0	224.96	2381.0	232.01	2951.0	250.20
86.0	132.00	635.0	214.52	1185.0	210.02	1793.0	207.54	2383.0	233.39	2953.0	245.81
88.0	134.00	637.0	216.30	1187.0	209.69	1795.0	213.96	2385.0	237.30	2955.0	243.16
90.0	134.00	639.0	216.03	1189.0	213.73	1797.0	212.77	2387.0	247.27	2959.0	234.54
92.0	133.00	641.0	216.47	1191.0	218.47	1799.0	215.92	2389.0	250.54	2961.0	240.49
94.0	133.00	643.0	218.38	1193.0	221.57	1801.0	218.13	2391.0	262.82	2963.0	243.73
96.0	133.00	645.0	218.76	1195.0	221.12	1803.0	222.70	2393.0	258.15	2965.0	242.86
98.0	132.00	647.0	217.23	1197.0	220.82	1805.0	230.24	2395.0	260.88	2967.0	243.16
100.0	131.00	649.0	215.21	1199.0	217.84	1807.0	237.69	2397.0	255.53	2969.0	243.63
102.0	131.00	651.0	214.17	1201.0	207.45	1809.0	238.58	2399.0	250.93	2971.0	244.13
104.0	130.00	653.0	214.06	1203.0	193.72	1811.0	237.63	2401.0	239.68	2973.0	249.56
106.0	130.00	655.0	213.34	1205.0	190.79	1813.0	236.66	2403.0	231.03	2975.0	248.15
108.0	131.00	657.0	215.84	1207.0	214.85	1815.0	233.57	2405.0	228.13	2977.0	247.60
110.0	133.00	659.0	218.17	1209.0	221.84	1817.0	229.27	2407.0	222.51	2979.0	249.14
112.0	134.00	661.0	218.74	1211.0	225.96	1819.0	232.69	2409.0	218.71	2981.0	247.97
114.0	136.00	663.0	219.30	1213.0	227.37	1821.0	228.30	2411.0	208.65	2983.0	249.44
116.0	137.00	665.0	224.35	1215.0	222.46	1823.0	209.68	2427.0	206.48	2985.0	248.48
118.0	137.00	667.0	222.61	1217.0	207.87	1825.0	234.57	2429.0	220.52	2987.0	249.72
120.0	138.00	669.0	223.18	1219.0	180.71	1827.0	249.16	2431.0	224.77	2989.0	255.60
122.0	138.00	671.0	223.46	1221.0	204.43	1829.0	258.53	2433.0	229.40	2991.0	257.85
124.0	138.00	673.0	225.70	1223.0	218.65	1831.0	258.83	2435.0	233.86	2993.0	258.73
126.0	139.00	675.0	224.29	1225.0	220.14	1833.0	253.01	2437.0	235.35	2995.0	255.54
128.0	141.00	677.0	224.83	1227.0	222.62	1835.0	243.95	2439.0	234.03	2997.0	255.84
130.0	144.00	679.0	224.74	1229.0	222.90	1837.0	237.70	2441.0	232.24	2999.0	255.32
132.0	146.00	681.0	223.97	1231.0	215.42	1839.0	227.39	2443.0	230.91	3001.0	257.47
134.0	146.00	683.0	223.95	1233.0	204.86	1843.0	230.40	2445.0	223.77	3003.0	261.24
135.0	147.13	685.0	221.94	1235.0	192.67	1845.0	251.25	2447.0	221.19	3005.0	268.58
137.0	152.81	687.0	220.78	1237.0	217.06	1847.0	256.59	2449.0	218.37	3007.0	274.13
139.0	162.73	689.0	219.25	1239.0	220.66	1849.0	253.07	2451.0	220.57	3009.0	269.05
141.0	172.91	691.0	219.31	1241.0	224.40	1851.0	252.10	2453.0	224.81	3011.0	264.17
143.0	181.33	693.0	217.38	1243.0	225.37	1853.0	250.49	2455.0	226.14	3013.0	264.36
145.0	188.06	695.0	215.80	1245.0	223.41	1855.0	247.28	2457.0	225.50	3015.0	269.01
147.0	196.35	697.0	215.74	1247.0	225.45	1857.0	233.85	2459.0	229.36	3017.0	268.92
149.0	205.08	699.0	214.80	1249.0	227.30	1859.0	203.93	2461.0	241.13	3019.0	268.67
151.0	214.17	701.0	214.98	1251.0	227.78	1865.0	188.31	2463.0	253.57	3021.0	268.75
153.0	221.14	703.0	213.34	1253.0	223.42	1867.0	214.65	2465.0	265.16	3023.0	270.47
155.0	229.84	705.0	210.83	1255.0	215.39	1869.0	222.60	2467.0	268.99	3025.0	268.32
157.0	233.27	707.0	208.39	1257.0	205.40	1871.0	227.20	2469.0	261.06	3027.0	267.84
159.0	227.36	709.0	208.85	1259.0	188.20	1873.0	226.11	2471.0	241.22	3029.0	266.88
161.0	214.53	711.0	208.57	1261.0	185.84	1875.0	218.71	2473.0	199.37	3031.0	267.57
163.0	207.69	713.0	209.95	1263.0	214.52	1877.0	220.28	2475.0	205.77	3033.0	265.04
165.0	204.36	715.0	210.59	1265.0	222.98	1879.0	219.61	2477.0	221.08	3035.0	263.77
167.0	201.96	717.0	211.64	1267.0	224.38	1881.0	219.74	2479.0	233.93	3037.0	266.75
169.0	200.74	719.0	210.55	1269.0	223.46	1883.0	214.60	2481.0	237.22	3039.0	268.00

171.0	202.13	721.0	209.64	1271.0	222.82	1885.0	187.66	2483.0	237.05	3041.0	272.11
173.0	202.22	723.0	210.52	1273.0	223.42	1887.0	189.63	2485.0	232.57	3043.0	275.47
175.0	204.78	725.0	211.83	1275.0	216.53	1889.0	208.22	2487.0	220.74	3045.0	277.60
177.0	204.90	727.0	210.36	1277.0	228.95	1891.0	218.58	2489.0	217.35	3047.0	276.45
179.0	206.18	729.0	210.66	1279.0	230.65	1893.0	222.63	2491.0	207.87	3049.0	279.25
181.0	208.98	731.0	208.62	1281.0	233.33	1895.0	220.52	2493.0	214.41	3051.0	278.76
183.0	208.92	733.0	204.92	1283.0	230.69	1897.0	220.96	2495.0	216.27	3053.0	280.78
185.0	210.55	735.0	193.89	1285.0	232.84	1899.0	236.46	2497.0	218.09	3055.0	286.18
187.0	208.52	743.0	202.28	1287.0	229.72	1901.0	237.82	2499.0	225.37	3057.0	288.86
189.0	207.54	745.0	211.67	1289.0	223.68	1903.0	238.21	2501.0	235.09	3059.0	287.31
191.0	208.54	747.0	212.27	1291.0	206.26	1905.0	231.47	2503.0	234.33	3061.0	286.72
193.0	211.14	749.0	204.33	1293.0	200.45	1907.0	224.34	2505.0	223.55	3063.0	284.07
195.0	218.93	751.0	195.23	1295.0	210.37	1909.0	226.78	2507.0	242.97	3065.0	283.43
197.0	223.68	753.0	187.29	1297.0	214.72	1911.0	229.34	2509.0	237.08	3067.0	283.99
199.0	232.81	755.0	186.00	1299.0	223.21	1913.0	229.60	2511.0	243.14	3069.0	288.40
201.0	244.11	757.0	184.74	1301.0	225.41	1915.0	228.26	2513.0	241.67	3071.0	290.61
203.0	256.77	759.0	184.35	1303.0	231.25	1917.0	217.52	2515.0	239.02	3073.0	291.46
205.0	269.82	761.0	184.35	1305.0	233.24	1919.0	185.10	2517.0	239.90	3075.0	290.32
207.0	275.75	763.0	181.38	1307.0	234.47	1933.0	204.34	2519.0	240.03	3077.0	291.31
209.0	281.56	765.0	180.66	1309.0	236.84	1935.0	225.15	2521.0	243.02	3079.0	295.85
211.0	286.83	767.0	180.13	1311.0	236.87	1937.0	231.68	2523.0	243.23	3081.0	299.64
213.0	290.26	769.0	177.18	1313.0	236.53	1939.0	236.17	2525.0	239.02	3083.0	301.36
215.0	292.18	771.0	175.57	1315.0	236.21	1941.0	233.21	2527.0	238.02	3085.0	303.50
217.0	289.32	773.0	173.82	1317.0	236.20	1943.0	231.55	2529.0	234.38	3087.0	314.36
219.0	287.43	775.0	173.35	1319.0	232.46	1945.0	229.66	2531.0	231.85	3089.0	319.58
221.0	289.14	777.0	172.68	1321.0	227.87	1947.0	231.00	2533.0	231.84	3091.0	318.75
223.0	292.31	779.0	175.31	1323.0	231.07	1949.0	232.16	2535.0	226.70	3093.0	325.04
225.0	299.90	781.0	179.66	1325.0	230.36	1951.0	234.72	2537.0	208.92	3095.0	339.12
227.0	310.39	783.0	185.50	1327.0	231.69	1953.0	235.96	2539.0	218.91	3097.0	354.00
229.0	321.62	785.0	191.52	1329.0	233.73	1955.0	240.48	2541.0	225.24	3099.0	376.64
231.0	331.08	787.0	195.36	1331.0	233.86	1957.0	240.04	2543.0	226.98	3105.0	232.72
233.0	336.28	789.0	198.09	1333.0	235.87	1959.0	240.86	2545.0	232.32	3107.0	246.37
235.0	341.33	791.0	199.28	1335.0	232.49	1961.0	241.36	2547.0	230.36	3109.0	250.20
237.0	341.57	793.0	200.09	1337.0	237.00	1963.0	244.15	2549.0	230.53	3111.0	245.81
239.0	341.30	795.0	198.77	1339.0	235.57	1965.0	244.42	2551.0	228.69	3113.0	243.16
241.0	340.56	797.0	196.95	1341.0	236.18	1967.0	246.70	2553.0	228.28	3117.0	234.54
243.0	341.00	799.0	194.70	1343.0	234.64	1969.0	246.41	2555.0	225.51	3119.0	240.49
245.0	344.94	801.0	191.11	1345.0	233.32	1971.0	244.49	2557.0	214.32	3121.0	243.73
247.0	346.16	803.0	192.35	1347.0	231.27	1973.0	243.87	2559.0	222.24	3123.0	242.86
249.0	350.14	805.0	192.77	1349.0	233.47	1975.0	239.18	2561.0	219.92	3125.0	243.16
251.0	348.42	807.0	193.23	1351.0	235.84	1977.0	244.52	2563.0	222.59	3127.0	243.63
253.0	344.66	809.0	190.93	1353.0	233.91	1979.0	244.71	2565.0	225.52	3129.0	244.13
255.0	343.74	811.0	191.17	1355.0	235.80	1981.0	245.99	2567.0	228.14	3131.0	249.56
257.0	349.85	813.0	194.25	1357.0	236.41	1983.0	245.80	2569.0	226.87	3133.0	248.15
259.0	361.81	815.0	198.63	1359.0	233.32	1985.0	245.43	2571.0	225.21	3135.0	247.60
261.0	373.23	817.0	201.97	1361.0	231.26	1987.0	244.33	2573.0	225.93	3137.0	249.14
263.0	388.62	819.0	202.56	1363.0	233.52	1989.0	245.39	2575.0	228.83	3139.0	247.97
265.0	393.81	821.0	206.40	1365.0	236.51	1991.0	243.80	2577.0	233.97	3141.0	249.44
267.0	403.96	823.0	211.53	1367.0	235.21	1993.0	240.98	2579.0	233.91	3143.0	248.48
269.0	397.15	825.0	215.40	1369.0	230.77	1995.0	240.40	2581.0	241.17	3145.0	249.72
271.0	378.78	827.0	218.68	1371.0	216.77	1997.0	233.48	2583.0	242.25	3147.0	255.60
273.0	351.11	829.0	220.93	1377.0	208.96	1999.0	218.91	2585.0	245.61	3149.0	257.85
275.0	362.69	831.0	223.00	1379.0	234.41	2003.0	201.76	2587.0	247.59	3151.0	258.73
277.0	373.58	833.0	224.29	1381.0	243.98	2005.0	221.37	2589.0	248.43	3153.0	255.54
279.0	383.74	835.0	225.75	1383.0	243.84	2007.0	234.18	2591.0	246.38	3155.0	255.84
281.0	393.38	837.0	225.04	1385.0	243.63	2009.0	234.93	2593.0	240.39	3157.0	255.32
283.0	410.36	839.0	224.57	1387.0	234.28	2011.0	237.93	2595.0	235.04	3159.0	257.47
285.0	417.15	841.0	222.06	1389.0	231.07	2013.0	234.97	2597.0	231.83	3161.0	261.24
287.0	419.96	843.0	215.40	1391.0	226.63	2015.0	222.65	2599.0	234.98	3163.0	268.58
289.0	430.01	845.0	210.35	1399.0	213.53	2017.0	237.48	2601.0	236.30	3165.0	274.13
291.0	428.22	847.0	209.09	1401.0	232.31	2019.0	239.92	2603.0	237.27	3167.0	269.05
293.0	407.28	849.0	209.09	1403.0	242.78	2021.0	241.85	2605.0	234.67	3169.0	264.17
295.0	385.48	851.0	201.74	1405.0	246.40	2023.0	243.91	2607.0	232.80	3171.0	264.36
297.0	369.40	853.0	210.44	1407.0	249.54	2025.0	247.67	2609.0	232.04	3173.0	269.01
299.0	361.08	855.0	212.31	1409.0	246.10	2027.0	247.33	2611.0	231.72	3175.0	268.92
301.0	352.95	857.0	214.68	1411.0	247.49	2029.0	249.56	2613.0	229.62	3177.0	268.67
303.0	349.27	859.0	217.00	1413.0	244.57	2031.0	247.10	2615.0	225.17	3179.0	268.75
305.0	345.59	861.0	225.63	1415.0	234.75	2033.0	242.69	2617.0	222.13	3181.0	270.47
307.0	342.81	863.0	249.92	1417.0	247.84	2035.0	240.06	2619.0	220.61	3183.0	268.32
309.0	340.15	865.0	301.40	1419.0	247.96	2037.0	236.95	2621.0	213.60	3185.0	267.84

311.0	338.06	867.0	367.03	1421.0	248.27	2039.0	235.40	2623.0	209.09	3187.0	266.88
313.0	338.34	869.0	454.53	1423.0	251.05	2041.0	235.15	2625.0	199.07	3189.0	267.57
315.0	337.28	871.0	557.30	1425.0	248.10	2043.0	233.41	2637.0	211.10	3191.0	265.04
317.0	336.80	873.0	546.15	1427.0	244.72	2045.0	227.83	2639.0	224.89	3193.0	263.77
319.0	334.58	875.0	414.93	1429.0	244.83	2047.0	249.56	2641.0	227.07	3195.0	266.75
321.0	326.59	877.0	312.34	1431.0	244.26	2049.0	262.67	2643.0	231.32	3197.0	268.00
323.0	320.82	879.0	262.27	1433.0	241.20	2051.0	261.24	2645.0	232.09	3199.0	272.11
325.0	317.61	881.0	242.33	1435.0	243.99	2053.0	223.71	2647.0	233.39	3201.0	275.47
327.0	316.43	883.0	242.41	1437.0	244.33	2065.0	207.99	2649.0	232.28	3203.0	277.60
329.0	316.63	885.0	252.45	1439.0	244.49	2067.0	213.71	2651.0	229.02	3205.0	276.45
331.0	310.53	887.0	250.28	1441.0	247.06	2069.0	219.66	2653.0	227.66	3207.0	279.25
333.0	307.48	889.0	243.34	1443.0	246.87	2071.0	223.69	2655.0	224.34	3209.0	278.76
335.0	302.93	891.0	236.44	1445.0	249.01	2073.0	230.79	2657.0	228.04	3211.0	280.78
337.0	294.00	893.0	224.00	1447.0	247.68	2075.0	228.24	2659.0	229.67	3213.0	286.18
339.0	284.73	895.0	215.41	1449.0	251.56	2077.0	228.59	2661.0	224.93	3215.0	288.86
341.0	277.23	899.0	211.25	1451.0	239.13	2079.0	225.15	2663.0	223.65	3217.0	287.31
343.0	274.33	901.0	232.42	1453.0	229.82	2081.0	229.31	2665.0	221.99	3219.0	286.72
345.0	265.65	903.0	231.74	1455.0	178.31	2083.0	231.41	2667.0	215.87	3221.0	284.07
347.0	253.08	905.0	228.13	1465.0	193.68	2085.0	230.16	2669.0	223.65	3223.0	283.43
349.0	245.84	907.0	226.63	1467.0	237.19	2087.0	231.70	2671.0	230.34	3225.0	283.99
351.0	242.32	909.0	227.23	1469.0	248.71	2089.0	232.65	2673.0	232.35	3227.0	288.40
353.0	242.76	911.0	228.77	1471.0	249.95	2091.0	238.48	2675.0	233.54	3229.0	290.61
355.0	246.42	913.0	229.31	1473.0	245.47	2093.0	237.67	2677.0	232.71	3231.0	291.46
357.0	263.88	915.0	230.56	1475.0	241.94	2095.0	240.82	2679.0	235.24	3233.0	290.32
359.0	278.85	917.0	228.05	1477.0	238.84	2097.0	245.27	2681.0	231.26	3235.0	291.31
361.0	278.05	919.0	225.02	1479.0	239.96	2099.0	242.09	2683.0	228.16	3237.0	295.85
363.0	253.22	921.0	225.30	1481.0	243.17	2101.0	240.59	2685.0	221.30	3239.0	299.64
365.0	218.66	923.0	225.60	1483.0	244.35	2103.0	238.03	2687.0	225.84	3241.0	301.36
367.0	199.61	925.0	225.72	1485.0	246.20	2105.0	234.47	2689.0	231.07	3243.0	303.50
369.0	194.66	927.0	223.55	1487.0	245.68	2107.0	227.59	2691.0	228.08	3245.0	314.36
371.0	193.06	929.0	218.69	1489.0	241.61	2109.0	230.46	2693.0	230.88	3247.0	319.58
373.0	193.00	931.0	213.35	1491.0	241.67	2111.0	226.68	2695.0	232.23	3249.0	318.75
375.0	191.71	933.0	212.86	1493.0	243.98	2113.0	228.61	2697.0	233.84	3251.0	325.04
377.0	188.66	935.0	212.89	1495.0	244.92	2115.0	223.51	2699.0	234.34	3253.0	339.12
379.0	185.86	937.0	216.68	1497.0	246.44	2117.0	229.87	2701.0	232.95	3255.0	354.00
381.0	182.96	939.0	219.74	1499.0	245.47	2119.0	226.86	2703.0	232.10	3257.0	376.64
383.0	184.09	941.0	224.44	1501.0	244.72	2121.0	229.98	2705.0	232.59	3259.0	340.12
385.0	186.80	943.0	226.51	1503.0	245.98	2123.0	223.29	2707.0	238.25	3261.0	305.28
387.0	188.77	945.0	228.64	1505.0	245.68	2125.0	227.09	2709.0	237.14	3263.0	311.14
389.0	190.71	947.0	228.29	1507.0	245.84	2127.0	224.15	2711.0	238.90	3265.0	304.20
391.0	190.62	949.0	232.09	1509.0	249.79	2129.0	223.62	2713.0	242.27	3267.0	297.90
393.0	191.33	951.0	237.18	1511.0	250.92	2131.0	223.70	2715.0	245.48	3269.0	291.04
395.0	191.51	953.0	239.79	1513.0	251.49	2133.0	224.95	2717.0	247.54	3271.0	289.58
397.0	191.15	955.0	239.89	1515.0	254.48	2135.0	228.15	2719.0	248.68	3273.0	290.87
399.0	190.56	957.0	237.12	1517.0	255.43	2137.0	228.59	2721.0	242.17	3275.0	295.52
401.0	191.89	959.0	233.04	1519.0	253.59	2139.0	229.85	2723.0	238.97	3277.0	298.65
403.0	190.45	961.0	230.10	1521.0	252.61	2141.0	227.63	2725.0	235.16	3279.0	300.36
405.0	188.46	963.0	227.08	1523.0	249.92	2143.0	229.66	2727.0	231.50	3281.0	300.22
407.0	184.32	965.0	227.97	1525.0	245.65	2145.0	229.70	2729.0	232.46	3283.0	305.62
409.0	188.11	967.0	227.77	1527.0	237.42	2147.0	233.92	2731.0	231.54	3285.0	306.52
411.0	187.52	969.0	228.44	1533.0	180.58	2149.0	234.15	2733.0	234.79	3287.0	312.93
413.0	187.33	971.0	228.73	1535.0	194.91	2151.0	231.14	2735.0	234.67	3289.0	324.84
415.0	187.53	973.0	229.41	1537.0	182.42	2153.0	219.31	2737.0	235.38	3291.0	321.88
417.0	184.51	975.0	228.04	1553.0	196.99	2159.0	205.93	2739.0	237.96	3293.0	310.87
419.0	181.33	977.0	229.38	1555.0	222.63	2161.0	231.85	2741.0	242.42	3295.0	294.10
421.0	178.36	979.0	230.10	1557.0	242.99	2163.0	244.45	2743.0	243.42	3297.0	269.77
423.0	177.45	981.0	230.81	1559.0	271.72	2165.0	251.13	2745.0	240.99	3299.0	274.91
425.0	176.04	983.0	233.64	1561.0	283.96	2167.0	253.55	2747.0	243.44	3301.0	272.40
427.0	169.39	985.0	235.26	1563.0	269.15	2169.0	255.54	2749.0	241.31	3303.0	270.86
429.0	152.25	987.0	235.92	1565.0	222.73	2171.0	254.38	2751.0	246.66	3307.0	279.25
431.0	168.85	989.0	237.77	1567.0	216.15	2173.0	255.37	2753.0	249.34	3309.0	288.06
433.0	178.78	991.0	240.77	1569.0	210.38	2175.0	257.05	2755.0	246.97	3311.0	288.41
435.0	184.87	993.0	247.27	1571.0	212.50	2177.0	255.52	2757.0	245.44	3313.0	282.62
437.0	188.58	995.0	251.27	1573.0	212.40	2179.0	256.16	2759.0	239.46	3315.0	282.96
439.0	192.77	997.0	253.90	1575.0	215.64	2181.0	255.69	2761.0	238.11	3317.0	291.08
441.0	194.48	999.0	252.12	1577.0	214.93	2183.0	255.52	2763.0	236.10	3319.0	307.77
443.0	194.59	1001.0	245.75	1579.0	205.90	2185.0	253.09	2765.0	238.12	3321.0	307.82
445.0	193.62	1003.0	236.48	1581.0	175.43	2187.0	253.53	2767.0	240.41	3323.0	296.80
447.0	192.63	1005.0	231.55	1583.0	194.07	2189.0	253.79	2769.0	242.25	3325.0	282.14
449.0	190.60	1007.0	226.10	1585.0	186.69	2191.0	253.59	2771.0	245.66	3327.0	279.47

451.0	189.28	1009.0	225.56	1591.0	192.11	2193.0	252.79	2773.0	244.87	3329.0	273.51
453.0	188.68	1011.0	224.16	1593.0	198.51	2195.0	254.38	2775.0	245.01	3331.0	275.92
455.0	188.87	1013.0	221.83	1595.0	203.57	2197.0	255.31	2777.0	246.60	3333.0	286.03
457.0	191.93	1015.0	221.34	1597.0	209.79	2199.0	246.74	2779.0	245.23	3335.0	303.00
459.0	193.84	1017.0	221.13	1599.0	211.53	2201.0	212.74	2781.0	249.36	3337.0	312.53
461.0	194.32	1019.0	220.51	1601.0	212.44	2205.0	215.20	2783.0	252.20	3339.0	313.73
463.0	193.55	1021.0	219.01	1603.0	213.02	2207.0	232.81	2785.0	261.20	3341.0	307.05
465.0	193.50	1023.0	216.26	1605.0	210.07	2209.0	244.22	2787.0	258.42	3343.0	302.39
467.0	191.89	1025.0	218.80	1607.0	205.52	2211.0	248.86	2789.0	248.03	3345.0	307.72
469.0	189.75	1027.0	218.85	1609.0	206.01	2213.0	245.29	2791.0	240.56	3347.0	312.01
471.0	188.02	1029.0	219.31	1611.0	196.57	2215.0	237.55	2793.0	244.65	3349.0	316.03
473.0	187.75	1031.0	220.69	1613.0	200.66	2217.0	219.49	2795.0	238.20	3351.0	315.41
475.0	188.90	1033.0	221.20	1615.0	204.20	2219.0	191.79	2797.0	231.32	3353.0	305.83
477.0	191.48	1035.0	223.50	1617.0	207.91	2231.0	211.20	2799.0	232.11	3355.0	304.30
479.0	197.35	1037.0	224.51	1619.0	207.62	2233.0	231.39	2801.0	228.55	3357.0	320.67
481.0	201.48	1039.0	226.82	1621.0	212.45	2235.0	238.45	2803.0	232.80	3359.0	352.59
483.0	205.38	1041.0	228.32	1623.0	214.88	2237.0	237.58	2805.0	239.86	3361.0	389.18
485.0	201.12	1043.0	225.88	1625.0	218.56	2239.0	240.93	2807.0	239.39	3363.0	422.25
487.0	193.60	1045.0	225.45	1627.0	219.28	2241.0	244.92	2809.0	235.34	3365.0	445.68
489.0	187.98	1047.0	224.47	1629.0	224.08	2243.0	249.94	2811.0	234.83	3367.0	441.35
491.0	186.09	1049.0	225.96	1631.0	225.98	2245.0	255.71	2813.0	232.50	3369.0	437.84
493.0	180.97	1051.0	230.11	1633.0	228.51	2247.0	261.42	2815.0	237.07	3371.0	449.30
495.0	183.55	1053.0	230.19	1635.0	226.00	2249.0	263.08	2817.0	237.57	3373.0	436.34
497.0	181.75	1055.0	230.50	1637.0	226.64	2251.0	259.12	2819.0	238.29	3375.0	392.83
499.0	181.58	1057.0	203.93	1639.0	223.75	2253.0	257.33	2821.0	242.52	3377.0	338.52
501.0	180.51	1059.0	205.38	1641.0	215.00	2255.0	254.15	2823.0	246.87	3379.0	294.76
503.0	181.09	1061.0	223.14	1643.0	219.54	2257.0	253.70	2825.0	247.12	3381.0	270.74
505.0	184.61	1063.0	236.05	1645.0	221.15	2259.0	253.21	2827.0	245.87	3383.0	260.14
507.0	183.67	1065.0	259.22	1647.0	215.65	2261.0	253.11	2829.0	242.91	3385.0	253.99
509.0	181.83	1067.0	297.11	1649.0	215.15	2263.0	253.75	2831.0	237.09	3387.0	247.10
511.0	179.62	1069.0	316.20	1651.0	208.68	2265.0	253.83	2833.0	235.74	3389.0	230.90
513.0	177.33	1071.0	292.88	1653.0	187.34	2267.0	256.38	2835.0	233.86	3391.0	177.38
515.0	177.03	1073.0	269.07	1669.0	198.59	2269.0	259.51	2837.0	233.74	3393.0	185.19
517.0	176.70	1075.0	244.78	1671.0	223.27	2271.0	260.27	2839.0	235.00	3395.0	204.85
519.0	177.37	1077.0	232.98	1673.0	231.95	2273.0	259.80	2841.0	234.22	3397.0	201.49
521.0	178.19	1079.0	226.01	1675.0	230.98	2275.0	253.96	2843.0	228.42		
523.0	179.57	1081.0	220.55	1677.0	227.35	2277.0	250.90	2845.0	239.74		
525.0	179.71	1083.0	222.26	1679.0	218.71	2279.0	244.89	2847.0	244.27		
527.0	180.76	1085.0	222.82	1681.0	199.10	2281.0	240.63	2849.0	244.83		
529.0	183.82	1087.0	222.74	1685.0	190.46	2283.0	238.61	2851.0	247.48		
531.0	185.73	1089.0	220.24	1687.0	217.37	2285.0	237.01	2853.0	234.00		
533.0	191.98	1091.0	220.26	1689.0	231.62	2287.0	234.70	2855.0	244.95		
535.0	198.18	1093.0	217.92	1691.0	236.17	2289.0	237.82	2857.0	243.59		
537.0	207.80	1095.0	217.27	1693.0	232.62	2291.0	235.84	2859.0	247.91		
539.0	215.20	1097.0	220.19	1695.0	229.76	2293.0	236.78	2861.0	252.42		
541.0	220.62	1099.0	223.36	1697.0	215.40	2295.0	239.77	2863.0	251.14		
543.0	222.48	1101.0	226.98	1699.0	188.17	2297.0	240.90	2865.0	244.49		
545.0	225.40	1103.0	231.89	1701.0	183.33	2299.0	245.34	2867.0	246.83		
547.0	230.46	1105.0	236.26	1703.0	211.77	2301.0	249.50	2869.0	240.03		
549.0	232.65	1107.0	241.03	1705.0	222.40	2303.0	251.68	2871.0	241.45		
551.0	231.64	1109.0	241.35	1707.0	225.58	2305.0	254.46	2873.0	237.49		
553.0	229.29	1111.0	234.01	1709.0	225.53	2307.0	249.41	2875.0	237.54		
555.0	224.55	1113.0	228.36	1711.0	223.62	2309.0	242.06	2877.0	238.89		
557.0	223.07	1115.0	223.33	1713.0	216.75	2311.0	231.62	2879.0	245.10		
559.0	222.41	1117.0	218.86	1715.0	212.22	2313.0	219.43	2881.0	248.99		
561.0	221.84	1119.0	209.67	1717.0	190.07	2317.0	197.06	2883.0	252.06		

Table 5: XRF Ti/Ca and Fe/K ratios for core CDH5.

Depth (cm)	Ti/Ca	Fe/K												
21.2	0.04	40.51	537.8	1.63	79.37	1299.8	1.57	59.75	2120.0	1.61	59.17	2732.0	1.64	59.44
21.4	0.05	41.25	538.0	1.23	76.32	1300.0	1.60	59.70	2120.2	1.55	59.72	2732.1	1.84	60.25
21.6	0.05	40.77	538.2	1.22	75.33	1300.2	1.47	60.78	2120.4	1.37	58.84	2732.2	1.51	60.02
21.8	0.04	41.22	538.4	1.37	75.04	1300.4	1.40	60.48	2120.6	1.62	58.25	2732.3	1.63	59.49
22.0	0.04	42.43	538.6	1.67	72.13	1300.6	1.27	60.26	2120.8	1.44	58.12	2732.4	1.73	59.05
22.2	0.04	42.71	538.8	1.33	66.52	1300.8	0.93	61.27	2121.0	1.71	58.98	2732.5	1.84	58.79
22.4	0.04	43.33	539.0	1.21	71.21	1301.0	1.10	60.40	2121.2	1.76	57.77	2732.6	1.93	57.76
22.6	0.04	44.29	539.2	1.33	71.54	1301.2	1.02	61.72	2121.4	1.85	58.24	2732.7	2.00	57.47

22.8	0.05	46.50	539.4	0.82	71.39	1301.4	0.50	63.01	2121.6	1.87	58.47	2732.8	1.82	57.71
23.0	0.05	53.48	539.6	1.48	70.83	1301.6	0.85	64.74	2121.8	1.76	58.64	2732.9	1.88	57.11
23.2	0.05	60.45	539.8	1.49	72.22	1301.8	1.30	64.24	2122.0	1.72	58.98	2733.0	1.93	56.72
23.4	0.05	64.60	540.0	1.50	67.17	1302.0	1.30	64.68	2122.2	2.00	59.24	2733.1	1.56	57.24
23.6	0.06	68.10	540.2	1.53	67.26	1302.2	1.69	63.17	2122.4	1.78	60.11	2733.2	1.88	57.65
23.8	0.04	69.69	540.4	1.36	67.40	1302.4	1.43	62.91	2122.6	2.20	59.77	2733.3	1.92	57.34
24.0	0.04	67.90	540.6	1.38	67.06	1302.6	1.58	61.59	2122.8	1.67	60.16	2733.4	1.56	58.15
24.2	0.05	63.75	540.8	1.53	65.45	1302.8	1.59	61.29	2123.0	1.70	59.65	2733.5	1.75	58.06
24.4	0.05	59.86	541.0	1.64	68.83	1303.0	1.62	60.80	2123.2	1.80	60.56	2733.6	1.80	58.02
24.6	0.04	56.66	541.2	1.59	68.67	1303.2	1.57	60.71	2123.4	1.73	59.81	2733.7	1.66	58.27
24.8	0.03	54.68	541.4	0.79	69.85	1303.4	2.05	59.68	2123.6	1.47	59.88	2733.8	2.07	59.34
25.0	0.04	50.74	541.6	1.57	73.32	1303.6	1.50	59.64	2123.8	1.54	60.34	2733.9	1.87	58.58
25.2	0.05	49.85	541.8	1.36	74.59	1303.8	2.00	59.80	2124.0	1.56	60.61	2734.0	1.87	58.85
25.4	0.04	50.40	542.0	1.12	71.48	1304.0	1.71	59.50	2124.2	1.46	61.26	2734.1	1.81	58.49
25.6	0.05	49.29	542.2	0.16	71.39	1304.2	1.58	59.51	2124.4	1.66	61.40	2734.2	1.47	58.15
25.8	0.04	49.98	542.4	0.99	69.98	1304.4	1.83	59.64	2124.6	1.58	62.14	2734.3	2.04	57.31
26.0	0.03	50.17	542.6	1.12	66.15	1304.6	1.56	58.89	2124.8	1.40	62.26	2734.4	1.83	58.07
26.2	0.03	48.95	542.8	1.24	65.30	1304.8	1.88	57.87	2125.0	1.52	62.33	2734.5	1.62	57.78
26.4	0.04	48.62	543.0	1.32	65.39	1305.0	1.85	57.63	2125.2	1.57	60.98	2734.6	1.72	57.81
26.6	0.04	48.12	543.2	1.23	65.33	1305.2	1.97	57.05	2125.4	1.61	60.81	2734.7	1.79	57.70
26.8	0.05	46.68	543.4	1.09	65.94	1305.4	2.21	56.55	2125.6	1.72	59.83	2734.8	1.80	57.73
27.0	0.06	47.20	543.6	1.38	67.25	1305.6	1.78	57.92	2125.8	1.67	59.17	2734.9	1.75	56.36
27.2	0.05	48.52	543.8	1.48	69.63	1305.8	1.94	58.97	2126.0	1.50	58.91	2735.0	1.81	56.79
27.4	0.05	47.48	544.0	1.44	70.37	1306.0	1.97	60.34	2126.2	1.93	59.61	2735.1	1.84	57.23
27.6	0.03	48.41	544.2	1.59	71.36	1306.2	1.84	60.80	2126.4	1.61	59.30	2735.2	1.25	57.00
27.8	0.03	47.59	544.4	1.54	71.71	1306.4	1.91	60.69	2126.6	1.58	61.81	2735.3	2.05	57.34
28.0	0.04	48.59	544.6	1.71	72.72	1306.6	1.76	59.51	2126.8	1.78	61.40	2735.4	1.92	58.48
28.2	0.03	47.27	544.8	1.55	72.17	1306.8	1.93	59.24	2127.0	1.92	60.69	2735.5	1.96	58.43
28.4	0.03	48.09	545.0	1.44	72.71	1307.0	1.84	59.29	2127.2	2.00	59.72	2735.6	2.04	57.96
28.6	0.03	50.88	545.2	1.61	71.85	1307.2	1.61	59.32	2127.4	1.88	60.06	2735.7	1.70	57.94
28.8	0.04	53.04	545.4	1.33	72.23	1307.4	1.37	59.44	2127.6	1.82	58.03	2735.8	1.89	57.65
29.0	0.03	54.40	545.6	1.49	69.99	1307.6	1.74	58.79	2127.8	1.66	58.43	2735.9	1.80	58.10
29.2	0.03	56.30	545.8	1.11	68.39	1307.8	1.55	57.90	2128.0	1.96	58.85	2736.0	1.79	59.25
29.4	0.05	61.22	546.0	1.28	66.35	1308.0	1.89	56.85	2128.2	1.90	60.27	2736.1	1.63	59.78
29.6	0.04	63.14	546.2	1.39	66.48	1308.2	1.65	56.21	2128.4	2.04	59.58	2736.2	2.00	61.25
29.8	0.05	63.06	546.4	1.31	65.38	1308.4	1.98	56.55	2128.6	1.86	59.14	2736.3	1.85	61.41
30.0	0.04	63.49	546.6	1.31	65.98	1308.6	1.88	57.91	2128.8	1.69	58.90	2736.4	1.60	59.85
30.2	0.02	62.66	546.8	1.45	65.72	1308.8	1.78	57.92	2129.0	1.81	58.00	2736.5	1.86	58.75
30.4	0.05	60.40	547.0	1.48	66.96	1309.0	1.74	58.50	2129.2	1.73	56.13	2736.6	2.15	58.83
30.6	0.04	57.93	547.2	1.37	67.29	1309.2	1.36	59.41	2129.4	1.73	55.62	2736.7	1.91	58.19
30.8	0.04	60.42	547.4	1.37	67.41	1309.4	1.64	60.54	2129.6	1.96	55.31	2736.8	2.14	57.48
31.0	0.03	58.01	547.6	1.36	66.42	1309.6	2.14	61.46	2129.8	1.21	55.64	2736.9	1.90	56.51
31.2	0.03	58.40	547.8	1.33	66.21	1309.8	2.03	62.50	2130.0	1.48	56.06	2737.0	1.99	55.13
31.4	0.03	56.30	548.0	1.38	65.32	1310.0	1.98	62.10	2130.2	1.85	55.85	2737.1	1.98	54.91
31.6	0.03	54.74	548.2	1.38	64.46	1310.2	1.80	61.70	2130.4	1.81	55.98	2737.2	2.04	54.83
31.8	0.03	57.11	548.4	1.43	66.36	1310.4	1.87	60.28	2130.6	1.87	56.42	2737.3	2.01	54.64
32.0	0.03	63.32	548.6	1.24	65.99	1310.6	2.00	60.32	2130.8	2.08	55.55	2737.4	1.91	55.71
32.2	0.04	63.76	548.8	1.24	65.95	1310.8	2.10	60.15	2131.0	2.01	55.83	2737.5	1.99	56.84
32.4	0.03	62.92	549.0	1.21	66.07	1311.0	2.20	60.95	2131.2	1.82	56.39	2737.6	1.88	56.47
32.6	0.03	61.65	549.2	1.38	67.02	1311.2	1.74	61.85	2131.4	2.08	56.24	2737.7	2.06	55.30
32.8	0.04	54.54	549.4	1.36	64.36	1311.4	1.58	62.07	2131.6	1.67	57.27	2737.8	2.11	55.53
33.0	0.03	45.02	549.6	1.26	68.09	1311.6	1.43	60.70	2131.8	1.70	57.50	2737.9	2.24	55.67
33.2	0.04	42.84	549.8	1.42	70.50	1311.8	1.50	60.69	2132.0	2.10	57.49	2738.0	2.14	55.49
33.4	0.03	41.73	550.0	1.43	72.04	1312.0	1.87	60.31	2132.2	2.03	58.14	2738.1	2.10	54.94
33.6	0.03	41.12	550.2	1.72	71.08	1312.2	1.79	60.34	2132.4	1.89	59.06	2738.2	1.83	55.40
33.8	0.03	39.19	550.4	1.46	71.17	1312.4	1.70	61.37	2132.6	1.86	58.11	2738.3	1.95	55.54
34.0	0.03	40.21	550.6	1.32	68.20	1312.6	1.79	61.65	2132.8	2.08	58.35	2738.4	1.85	55.08
34.2	0.02	38.43	550.8	1.49	66.37	1312.8	1.60	61.82	2133.0	1.50	58.63	2738.5	1.85	55.44
34.4	0.03	37.70	551.0	1.37	64.06	1313.0	1.67	60.85	2133.2	2.10	58.34	2738.6	2.08	56.09
34.6	0.03	38.45	551.2	1.56	64.92	1313.2	1.63	60.26	2133.4	2.14	57.48	2738.7	2.07	55.77
34.8	0.02	39.14	551.4	1.54	65.75	1313.4	1.59	58.76	2133.6	1.51	57.19	2738.8	2.02	55.98
35.0	0.03	37.71	551.6	1.49	66.15	1313.6	1.35	58.97	2133.8	2.05	56.99	2738.9	1.81	57.09
35.2	0.03	37.46	551.8	1.37	66.49	1313.8	1.62	59.24	2134.0	1.82	56.94	2739.0	1.60	56.68
35.4	0.02	38.77	552.0	1.39	68.62	1314.0	1.52	60.82	2134.2	1.80	56.74	2739.1	1.78	57.18
35.6	0.03	38.26	552.2	1.41	68.49	1314.2	1.86	60.69	2134.4	1.83	57.29	2739.2	1.58	57.97
35.8	0.03	38.98	552.4	1.12	67.81	1314.4	1.82	61.12	2134.6	1.75	57.69	2739.3	1.56	57.65
36.0	0.03	39.94	552.6	1.58	68.55	1314.6	1.55	61.46	2134.8	2.08	57.90	2739.4	1.62	57.38
36.2	0.02	42.02	552.8	1.38	68.42	1314.8	1.62	61.61	2135.0	1.73	57.63	2739.5	1.55	58.39
36.4	0.03	42.81	553.0	1.47	67.28	1315.0	1.38	61.42	2135.2	1.77	57.82	2739.6	1.74	57.68
36.6	0.03	44.78	553.2	1.39	66.31	1315.2	1.23	60.93	2135.4	2.02	57.09	2739.7	1.65	56.97
36.8	0.04	46.23	553.4	1.50	69.19	1315.4	2.05	60.97	2135.6	2.04	57.76	2739.8	1.52	57.57
37.0	0.03	47.03	553.6	1.35	68.76	1315.6	1.64	60.32	2135.8	1.93	56.99	2739.9	1.87	56.62
37.2	0.03	46.46	553.8	1.58	68.18	1315.8	1.64	60.47	2136.0	1.87	56.98	2740.0	1.68	56.

39.0	0.03	41.76	555.6	1.57	72.82	1317.6	1.76	65.31	2137.8	1.62	60.71	2740.9	1.81	60.12
39.2	0.02	42.23	555.8	1.63	71.91	1317.8	1.57	65.79	2138.0	1.83	59.95	2741.0	1.84	57.76
39.4	0.02	42.05	556.0	1.07	69.58	1318.0	1.83	67.87	2138.2	1.72	59.97	2741.1	1.86	57.13
39.6	0.03	42.27	556.2	1.52	68.56	1318.2	1.83	67.71	2138.4	1.68	58.79	2741.2	1.93	56.97
39.8	0.03	43.82	556.4	1.68	68.65	1318.4	2.04	67.31	2138.6	1.80	58.39	2741.3	1.75	56.50
40.0	0.04	44.57	556.6	1.90	65.85	1318.6	1.90	64.05	2138.8	1.78	57.67	2741.4	1.86	56.42
40.2	0.03	44.59	556.8	1.65	70.61	1318.8	2.03	63.24	2139.0	1.52	57.90	2741.5	2.03	57.07
40.4	0.02	43.92	557.0	1.96	72.42	1319.0	1.97	60.00	2139.2	1.70	57.72	2741.6	1.19	57.19
40.6	0.02	43.32	557.2	1.07	72.19	1319.2	2.06	59.06	2139.4	1.69	57.71	2741.7	1.69	57.60
40.8	0.03	43.08	557.4	1.40	72.12	1319.4	2.07	59.12	2139.6	1.76	58.05	2741.8	1.68	58.14
41.0	0.03	42.97	557.6	1.59	71.11	1319.6	1.77	59.85	2139.8	1.88	57.81	2741.9	1.48	57.64
41.2	0.03	42.56	557.8	1.45	68.35	1319.8	1.85	60.62	2140.0	1.65	58.61	2742.0	1.65	57.48
41.4	0.03	42.17	558.0	1.63	67.96	1320.0	2.14	61.56	2140.2	1.55	58.26	2742.1	1.97	58.35
41.6	0.03	42.10	558.2	1.61	67.86	1320.2	1.84	62.23	2140.4	1.87	58.19	2742.2	2.03	58.05
41.8	0.03	40.34	558.4	1.69	67.78	1320.4	1.68	62.31	2140.6	1.47	58.24	2742.3	2.01	57.80
42.0	0.03	40.56	558.6	1.95	70.21	1320.6	1.60	61.52	2140.8	1.70	58.24	2742.4	1.99	58.75
42.2	0.03	41.16	558.8	1.46	70.05	1320.8	1.96	61.54	2141.0	1.87	57.47	2742.5	1.96	58.89
42.4	0.03	43.40	559.0	1.64	69.65	1321.0	1.67	61.35	2141.2	1.83	56.98	2742.6	1.78	57.74
42.6	0.04	47.12	559.2	1.73	70.96	1321.2	1.79	61.25	2141.4	1.85	56.41	2742.7	1.76	58.02
42.8	0.03	50.60	559.4	1.94	71.25	1321.4	1.71	61.26	2141.6	1.78	55.59	2742.8	1.62	58.85
43.0	0.04	54.03	559.6	1.95	70.41	1321.6	2.02	63.30	2141.8	2.01	55.23	2742.9	1.41	58.04
43.2	0.03	56.75	559.8	2.06	68.86	1321.8	1.91	63.14	2142.0	1.99	54.66	2743.0	1.88	57.71
43.4	0.04	55.44	560.0	2.11	68.92	1322.0	1.87	62.75	2142.2	2.10	54.82	2743.1	1.73	59.09
43.6	0.04	52.80	560.2	1.81	68.35	1322.2	1.88	62.77	2142.4	2.08	54.42	2743.2	1.73	58.50
43.8	0.04	51.02	560.4	1.38	67.70	1322.4	1.79	62.48	2142.6	2.08	54.12	2743.3	1.72	57.99
44.0	0.04	48.01	560.6	1.52	66.99	1322.6	1.83	60.66	2142.8	1.79	54.37	2743.4	1.74	58.56
44.2	0.04	45.00	560.8	1.91	67.31	1322.8	1.89	60.58	2143.0	1.64	53.83	2743.5	1.66	60.27
44.4	0.03	42.98	561.0	1.92	67.78	1323.0	1.91	60.77	2143.2	1.90	53.11	2743.6	1.64	60.37
44.6	0.03	41.59	561.2	1.85	69.26	1323.2	1.86	60.59	2143.4	1.70	53.08	2743.7	1.37	60.21
44.8	0.03	39.68	561.4	1.88	70.00	1323.4	1.67	60.91	2143.6	2.38	53.40	2743.8	1.53	61.05
45.0	0.04	37.91	561.6	1.39	71.34	1323.6	1.27	61.74	2143.8	1.45	52.22	2743.9	2.01	60.87
45.2	0.03	36.76	561.8	1.77	71.31	1323.8	1.61	61.86	2144.0	1.93	52.21	2744.0	1.73	60.29
45.4	0.04	36.09	562.0	1.79	71.49	1324.0	1.54	62.99	2144.2	2.07	52.95	2744.1	1.78	59.54
45.6	0.03	35.88	562.2	1.91	71.27	1324.2	1.80	62.33	2144.4	1.97	53.31	2744.2	1.91	59.51
45.8	0.03	35.89	562.4	2.27	71.82	1324.4	1.55	62.83	2144.6	2.09	53.32	2744.3	1.76	58.87
46.0	0.04	36.14	562.6	2.05	70.95	1324.6	1.70	64.45	2144.8	1.87	54.62	2744.4	1.85	58.90
46.2	0.04	34.99	562.8	1.87	70.45	1324.8	1.49	65.40	2145.0	1.65	55.65	2744.5	1.83	57.83
46.4	0.04	34.75	563.0	2.09	70.02	1325.0	1.52	65.23	2145.2	1.75	55.80	2744.6	1.81	57.56
46.6	0.03	33.43	563.2	2.11	69.74	1325.2	1.40	66.55	2145.4	1.82	56.16	2744.7	1.86	57.35
46.8	0.03	33.07	563.4	2.25	69.34	1325.4	1.25	67.40	2145.6	1.59	56.27	2744.8	1.84	56.90
47.0	0.03	33.54	563.6	2.43	68.95	1325.6	1.55	66.64	2145.8	1.60	56.28	2744.9	1.90	56.90
47.2	0.03	34.56	563.8	1.90	69.60	1325.8	1.76	66.48	2146.0	1.63	55.96	2745.0	1.97	56.17
47.4	0.03	35.39	564.0	1.94	69.38	1326.0	1.72	65.19	2146.2	1.47	56.47	2745.1	2.05	56.42
47.6	0.03	35.84	564.2	2.05	68.94	1326.2	1.64	64.07	2146.4	1.83	56.19	2745.2	1.15	57.28
47.8	0.04	35.59	564.4	2.09	69.23	1326.4	1.75	62.98	2146.6	1.47	56.57	2745.3	1.84	57.63
48.0	0.04	34.88	564.6	1.73	71.03	1326.6	1.80	62.94	2146.8	1.56	57.01	2745.4	1.98	56.89
48.2	0.04	34.99	564.8	1.69	70.75	1326.8	1.78	62.04	2147.0	1.85	57.80	2745.5	2.13	57.97
48.4	0.04	36.16	565.0	1.98	72.16	1327.0	1.48	63.19	2147.2	1.44	58.58	2745.6	2.01	57.91
48.6	0.04	37.20	565.2	1.96	71.94	1327.2	1.74	63.37	2147.4	1.64	60.47	2745.7	1.80	57.11
48.8	0.04	39.23	565.4	1.97	71.13	1327.4	1.65	63.14	2147.6	1.56	61.01	2745.8	2.01	56.47
49.0	0.04	40.79	565.6	1.93	69.34	1327.6	1.52	62.19	2147.8	1.59	60.66	2745.9	2.04	57.34
49.2	0.05	42.85	565.8	1.78	69.41	1327.8	1.95	62.22	2148.0	1.62	60.42	2746.0	1.98	57.92
49.4	0.04	43.18	566.0	1.99	66.58	1328.0	1.69	61.41	2148.2	1.57	61.40	2746.1	1.89	57.30
49.6	0.05	44.62	566.2	1.85	66.91	1328.2	1.80	61.15	2148.4	1.64	60.39	2746.2	2.21	57.42
49.8	0.04	44.68	566.4	2.02	68.06	1328.4	1.78	61.10	2148.6	1.11	59.28	2746.3	1.76	57.69
50.0	0.04	43.96	566.6	1.84	68.17	1328.6	1.86	61.46	2148.8	1.61	59.26	2746.4	1.67	56.35
50.2	0.05	42.34	566.8	2.04	68.99	1328.8	1.73	62.16	2149.0	1.92	59.26	2746.5	1.88	55.96
50.4	0.04	41.50	567.0	1.81	70.42	1329.0	1.27	63.05	2149.2	1.66	56.93	2746.6	1.87	56.21
50.6	0.05	39.74	567.2	1.83	70.23	1329.2	1.35	63.62	2149.4	1.34	57.27	2746.7	1.38	56.59
50.8	0.05	38.28	567.4	1.78	69.90	1329.4	1.45	64.04	2149.6	1.68	57.57	2746.8	1.80	57.27
51.0	0.05	37.47	567.6	1.85	71.91	1329.6	1.57	64.52	2149.8	1.55	58.02	2746.9	1.88	58.42
51.2	0.04	37.99	567.8	1.66	71.02	1329.8	1.55	64.34	2150.0	1.35	57.45	2747.0	1.85	58.68
51.4	0.05	38.26	568.0	1.82	70.22	1330.0	1.70	63.77	2150.2	1.51	57.69	2747.1	2.10	58.60
51.6	0.05	38.28	568.2	1.61	70.41	1330.2	1.44	63.32	2150.4	1.84	57.01	2747.2	1.95	58.90
51.8	0.04	38.23	568.4	2.03	70.40	1330.4	1.52	63.48	2150.6	1.94	57.64	2747.3	1.86	58.95
52.0	0.05	38.44	568.6	2.05	69.55	1330.6	1.60	63.61	2150.8	1.57	57.34	2747.4	1.60	58.71
52.2	0.05	37.76	568.8	1.74	70.37	1330.8	1.55	63.99	2151.0	1.55	57.61	2747.5	1.81	57.64
52.4	0.05	37.91	569.0	1.94	70.36	1331.0	1.45	64.34	2151.2	1.77	58.34	2747.6	1.65	58.66
52.6	0.05	39.86	569.2	2.01	70.12	1331.2	1.65	65.02	2151.4	1.61	57.88	2747.7	2.04	58.26
52.8	0.06	40.51	569.4	2.09	70.12	1331.4	1.52	64.37	2151.6	1.76	57.97	2747.8	1.98	57.53
53.0	0.06	41.41	569.6	1.96	69.03	1331.6	1.47	63.39	2151.8	1.82	58.24	2747.9	1.97	57.54
53.2	0.05	42.37	569.8	2.03	68.99	1331.8	1.85	63.02	2152.0	1.72	58.29	2748.0	1.93	58.64
53.4	0.06	41.50	570.0	2.05	70.34	1332.0	1.71	62.76	2152.2	1.72	57.86	2748.1	2.03	57.

55.2	0.06	37.96	571.8	1.95	68.27	1333.8	1.65	62.92	2154.0	1.28	58.54	2749.0	2.11	57.84
55.4	0.06	36.87	572.0	2.19	69.49	1334.0	1.71	60.95	2157.2	1.56	58.43	2749.1	2.01	57.39
55.6	0.07	37.25	572.2	2.00	68.67	1334.2	1.84	61.90	2157.4	1.52	58.67	2749.2	2.15	56.58
55.8	0.06	37.47	572.4	1.96	68.74	1334.4	1.56	61.63	2157.6	1.10	59.72	2749.3	2.08	57.30
56.0	0.06	37.75	572.6	2.07	68.31	1334.6	1.57	61.65	2157.8	1.51	59.53	2749.4	1.49	57.44
56.2	0.07	38.28	572.8	2.01	68.45	1334.8	2.10	61.92	2158.0	1.18	58.66	2749.5	2.30	57.40
56.4	0.07	38.65	573.0	1.83	67.82	1335.0	1.75	61.12	2158.2	1.48	58.31	2749.6	2.32	56.97
56.6	0.06	38.33	573.2	1.80	68.79	1335.2	1.68	60.89	2158.4	1.52	57.91	2749.7	2.12	56.93
56.8	0.07	38.16	573.4	1.92	68.20	1335.4	1.81	61.17	2158.6	1.46	57.60	2749.8	2.00	56.75
57.0	0.06	37.84	573.6	1.74	67.89	1335.6	1.97	61.13	2158.8	1.59	57.38	2749.9	2.48	57.81
57.2	0.06	36.77	573.8	2.26	67.54	1335.8	1.61	60.38	2159.0	1.57	56.83	2750.0	2.12	58.31
57.4	0.07	37.27	574.0	2.05	68.05	1336.0	1.98	60.48	2159.2	1.57	56.15	2750.1	2.09	58.23
57.6	0.06	37.83	574.2	2.00	68.07	1336.2	1.49	59.21	2159.4	1.28	56.31	2750.2	2.22	58.45
57.8	0.07	38.09	574.4	1.74	68.28	1336.4	1.71	59.30	2159.6	1.39	56.09	2750.3	2.14	60.26
58.0	0.07	38.93	574.6	2.08	68.92	1336.6	1.89	60.95	2159.8	1.46	55.94	2750.4	1.95	59.63
58.2	0.08	40.34	574.8	2.12	70.61	1336.8	2.04	60.14	2160.0	1.58	56.02	2750.5	2.00	59.57
58.4	0.07	40.82	578.2	1.87	72.02	1337.0	1.51	60.46	2160.2	1.81	56.11	2750.6	1.99	60.01
58.6	0.07	41.61	578.4	2.33	73.57	1337.2	1.78	61.52	2160.4	1.93	55.71	2750.7	2.38	60.38
58.8	0.07	42.63	578.6	2.09	77.26	1337.4	2.03	59.76	2160.6	1.72	56.03	2750.8	1.95	59.59
59.0	0.07	42.69	578.8	1.83	78.41	1337.6	1.53	57.95	2160.8	1.97	56.57	2750.9	2.39	59.57
59.2	0.07	43.50	579.0	1.93	78.53	1337.8	1.68	61.18	2161.0	1.97	58.05	2751.0	2.33	58.87
59.4	0.07	45.77	579.2	2.02	78.72	1338.0	1.87	61.35	2161.2	2.09	58.49	2751.1	2.18	59.40
59.6	0.08	46.52	579.4	1.97	77.89	1338.2	1.87	60.35	2161.4	1.72	58.55	2751.2	1.99	59.76
59.8	0.08	45.74	579.6	2.09	76.10	1338.4	1.78	61.12	2161.6	1.66	58.62	2751.3	1.77	58.43
60.0	0.07	44.94	579.8	2.32	77.02	1338.6	2.09	64.66	2161.8	1.61	57.40	2751.4	1.81	58.44
60.2	0.07	43.60	580.0	2.17	76.92	1338.8	1.80	64.17	2162.0	1.84	55.61	2751.5	1.74	58.56
60.4	0.06	41.99	580.2	2.08	76.09	1339.0	1.90	64.56	2162.2	2.05	55.91	2751.6	1.80	58.11
60.6	0.05	40.99	580.4	2.07	75.94	1339.2	1.92	65.45	2162.4	1.87	56.50	2751.7	1.87	57.40
60.8	0.07	42.60	580.6	2.02	74.64	1339.4	1.86	67.05	2162.6	1.86	55.80	2751.8	1.82	58.09
61.0	0.07	43.69	580.8	2.17	74.27	1339.6	2.27	65.12	2162.8	2.01	56.29	2751.9	1.73	58.58
61.2	0.06	44.48	581.0	1.89	74.78	1339.8	1.89	63.49	2163.0	1.77	56.45	2752.0	1.76	59.40
61.4	0.07	43.42	581.2	1.57	74.77	1340.0	1.85	63.60	2163.2	1.60	56.35	2752.1	1.79	59.84
61.6	0.05	43.65	581.4	2.02	74.64	1340.2	1.91	65.66	2163.4	1.62	56.01	2752.2	1.84	61.31
61.8	0.07	42.40	581.6	2.12	75.97	1340.4	1.83	65.22	2163.6	1.68	56.22	2752.3	1.66	62.42
62.0	0.07	41.98	581.8	1.89	76.21	1340.6	1.76	64.60	2163.8	1.51	56.06	2752.4	1.85	61.43
62.2	0.06	41.87	582.0	2.16	74.90	1340.8	1.75	65.51	2164.0	1.54	56.38	2752.5	1.86	60.98
62.4	0.06	42.32	582.2	2.11	75.93	1341.0	1.58	64.94	2164.2	1.85	55.89	2752.6	1.71	60.28
62.6	0.08	42.18	582.4	2.32	77.35	1341.2	1.75	63.21	2164.4	1.64	55.85	2752.7	1.13	59.52
62.8	0.06	42.03	582.6	1.94	76.72	1341.4	1.67	63.33	2164.6	1.68	55.97	2752.8	1.91	58.46
63.0	0.08	42.66	582.8	2.23	76.40	1341.6	1.31	62.59	2164.8	1.48	56.51	2752.9	1.75	58.68
63.2	0.08	42.32	583.0	1.93	77.00	1342.6	1.53	61.12	2165.0	1.44	56.69	2753.0	1.97	58.72
63.4	0.07	43.30	583.2	2.15	76.17	1342.8	1.44	60.99	2165.2	1.47	56.99	2753.1	1.82	58.75
63.6	0.08	44.90	583.4	1.86	74.62	1343.0	1.58	60.02	2165.4	1.50	56.44	2753.2	1.87	58.97
63.8	0.08	46.21	583.6	1.98	74.66	1343.2	1.72	58.38	2165.6	1.50	56.33	2753.3	1.89	59.44
64.0	0.09	47.44	583.8	2.26	73.70	1343.4	1.69	58.93	2165.8	1.54	55.72	2753.4	1.80	59.70
64.2	0.09	50.58	584.0	1.77	72.95	1343.6	1.77	59.58	2166.0	1.82	55.15	2753.5	1.78	59.72
64.4	0.08	50.66	584.2	2.19	73.25	1343.8	1.52	59.44	2166.2	1.83	55.61	2753.6	1.85	59.50
64.6	0.08	50.23	584.4	1.93	72.09	1344.0	1.68	60.51	2166.4	1.65	56.06	2753.7	1.70	58.90
64.8	0.08	50.27	584.6	0.76	70.65	1344.2	1.63	61.59	2166.6	1.72	56.31	2753.8	1.93	58.15
65.0	0.10	49.35	584.8	1.81	69.77	1344.4	1.60	60.99	2166.8	1.67	56.81	2753.9	1.71	58.07
65.2	0.08	46.59	585.0	1.76	69.12	1344.6	1.75	60.11	2167.0	1.84	56.50	2754.0	1.69	57.80
65.4	0.08	46.40	585.2	1.92	69.61	1344.8	1.73	60.69	2167.2	1.85	56.15	2754.1	1.76	59.09
65.6	0.09	45.22	585.4	1.72	71.73	1345.0	1.77	59.84	2167.4	1.81	56.27	2754.2	1.56	59.72
65.8	0.07	44.47	585.6	1.79	71.99	1345.2	1.42	60.31	2167.6	1.85	56.81	2754.3	1.80	60.11
66.0	0.10	44.33	585.8	1.44	72.55	1345.4	1.49	60.30	2167.8	1.89	56.43	2754.4	1.82	60.52
66.2	0.10	46.09	586.0	1.75	73.52	1345.6	1.70	60.55	2168.0	1.12	57.15	2754.5	1.58	60.78
66.4	0.10	47.12	586.2	1.87	71.19	1345.8	1.63	59.94	2168.2	1.34	56.85	2754.6	1.75	59.85
66.6	0.16	48.65	586.4	2.04	70.54	1346.0	1.44	60.33	2168.4	1.68	56.43	2754.7	1.83	59.85
66.8	0.10	50.76	586.6	1.87	70.29	1346.2	1.76	59.64	2168.6	1.89	56.02	2754.8	1.88	60.10
67.0	0.14	51.63	586.8	1.46	72.14	1346.4	1.72	58.78	2168.8	1.91	55.67	2754.9	1.73	59.79
67.2	0.15	50.66	587.0	1.97	72.57	1346.6	1.90	58.25	2169.0	1.90	56.12	2755.0	1.87	59.12
67.4	0.12	50.14	587.2	1.83	73.94	1346.8	1.61	58.07	2169.2	1.85	56.27	2755.1	1.91	58.24
67.6	0.13	50.24	587.4	2.23	74.39	1347.0	1.60	56.58	2169.4	1.92	57.74	2755.2	1.72	57.24
67.8	0.13	49.47	587.6	1.45	74.55	1347.2	1.96	57.16	2169.6	2.10	57.56	2755.3	1.88	56.36
68.0	0.12	49.75	587.8	2.03	73.18	1347.4	1.85	58.21	2169.8	1.89	57.76	2755.4	2.10	55.82
68.2	0.13	49.83	588.0	1.85	73.23	1347.6	1.87	59.66	2170.0	1.97	57.64	2755.5	1.92	56.94
68.4	0.12	51.82	588.2	1.94	73.28	1347.8	1.68	59.39	2170.2	2.20	57.79	2755.6	2.33	56.99
68.6	0.10	52.92	588.4	1.79	72.98	1348.0	1.92	60.22	2170.4	2.18	56.91	2755.7	1.95	57.89
68.8	0.14	55.32	588.6	1.98	74.30	1348.2	1.76	59.19	2170.6	1.99	57.86	2755.8	1.91	57.62
69.0	0.14	57.10	588.8	1.83	73.71	1348.4	1.86	59.38	2170.8	1.88	58.34	2755.9	2.01	57.64
69.2	0.14	58.74	589.0	1.99	74.16	1348.6	1.74	58.96	2171.0	1.95	57.84	2756.0	2.04	56.95
69.4	0.14	58.25	589.2	1.76	74.09	1348.8	1.95	59.62	2171.2	1.61	57.60	2756.1	2.07	57.60
69.6	0.15	58.77	589.4	2.04	73.05	1349.0	1.86	59.70	2171.4	1.72	57.45	2756.2	2.13	56.

71.4	0.16	54.01	591.2	1.92	74.57	1350.8	1.62	60.49	2173.2	1.64	58.06	2757.1	2.06	56.32
71.6	0.16	54.24	591.4	2.06	75.35	1351.0	1.75	58.16	2173.4	1.80	58.13	2757.2	2.05	55.29
71.8	0.17	54.86	591.6	1.97	74.36	1351.2	1.76	57.54	2173.6	1.61	61.19	2757.3	2.24	55.87
72.0	0.17	53.56	591.8	1.81	72.54	1351.4	1.62	57.32	2173.8	1.70	63.57	2757.4	1.97	56.56
72.2	0.14	53.33	592.0	2.21	72.81	1351.6	1.97	57.28	2183.6	1.59	66.70	2757.5	1.98	56.57
72.4	0.15	52.36	592.2	2.11	73.21	1351.8	1.85	56.80	2183.8	1.77	69.35	2757.6	2.10	56.20
72.6	0.17	51.60	592.4	2.21	73.10	1352.0	1.93	57.53	2184.0	1.87	72.04	2757.7	1.96	56.65
72.8	0.14	50.95	592.6	1.84	72.63	1352.2	1.72	57.61	2184.2	1.81	73.38	2757.8	2.20	56.50
73.0	0.13	51.40	592.8	1.71	73.50	1352.4	1.70	57.60	2184.4	1.50	73.32	2757.9	2.02	58.14
73.2	0.16	51.52	593.0	1.62	72.74	1352.6	1.75	58.54	2184.6	1.77	73.52	2758.0	2.04	58.57
73.4	0.19	50.98	593.2	1.79	73.73	1352.8	1.63	58.26	2184.8	2.00	73.00	2758.1	1.92	57.96
73.6	0.20	50.94	593.4	1.67	73.61	1353.0	1.91	58.17	2185.0	2.09	72.45	2758.2	1.89	59.28
73.8	0.17	50.32	593.6	1.52	74.07	1353.2	2.04	58.52	2185.2	1.82	71.17	2758.3	1.89	60.12
74.0	0.15	49.69	593.8	1.91	74.50	1353.4	1.82	59.32	2185.4	1.69	71.21	2758.4	2.14	57.48
74.2	0.18	48.88	594.0	1.83	74.68	1353.6	1.77	59.15	2185.6	1.95	70.16	2758.5	1.87	57.32
74.4	0.14	49.55	594.2	1.85	72.51	1353.8	2.06	59.14	2185.8	2.08	70.75	2758.6	2.10	57.90
74.6	0.13	49.45	594.4	1.59	72.24	1354.0	1.81	58.83	2186.0	1.97	70.78	2758.7	2.05	56.59
74.8	0.13	48.82	594.6	1.91	75.31	1354.2	2.16	58.80	2186.2	1.70	70.75	2758.8	2.18	55.76
75.0	0.15	50.56	594.8	0.84	77.72	1354.4	2.03	58.22	2186.4	1.59	69.77	2758.9	1.94	57.28
75.2	0.13	51.59	595.0	1.12	78.64	1354.6	1.58	57.65	2186.6	1.87	70.38	2759.0	1.83	57.26
75.4	0.15	51.29	595.2	1.77	80.17	1354.8	1.87	57.33	2186.8	1.80	70.48	2759.1	1.83	58.10
75.6	0.17	51.43	595.4	1.90	81.87	1355.0	1.70	58.07	2187.0	1.98	71.10	2759.2	1.92	57.78
75.8	0.15	53.33	595.6	1.71	78.86	1355.2	1.80	58.96	2187.2	1.79	70.54	2759.3	1.92	57.82
76.0	0.14	52.70	595.8	2.08	76.85	1355.4	1.79	58.62	2187.4	1.81	70.67	2759.4	1.84	56.48
76.2	0.17	51.89	596.0	2.06	76.48	1355.6	1.59	58.53	2187.6	1.99	70.97	2759.5	1.78	56.33
76.4	0.18	52.03	596.2	1.38	75.69	1355.8	1.81	58.89	2187.8	1.91	70.12	2759.6	1.63	55.88
76.6	0.17	51.42	596.4	1.60	74.47	1356.0	1.81	58.80	2188.0	1.93	69.54	2759.7	2.04	56.28
76.8	0.16	49.47	596.6	1.46	74.37	1356.2	1.90	58.39	2188.2	1.70	70.18	2759.8	1.91	57.28
77.0	0.16	48.43	596.8	1.84	73.41	1356.4	1.55	58.92	2188.4	2.04	70.91	2759.9	1.97	56.97
77.2	0.13	49.41	597.0	1.62	74.50	1356.6	1.69	59.59	2188.6	1.71	69.48	2760.0	2.20	57.19
77.4	0.12	50.31	597.2	1.59	75.28	1356.8	1.98	59.80	2188.8	1.53	72.94	2760.1	1.98	57.04
77.6	0.15	52.21	597.4	1.63	74.89	1357.0	2.21	59.50	2189.0	1.41	75.38	2760.2	2.31	56.71
77.8	0.18	54.07	597.6	1.95	76.30	1357.2	1.89	59.12	2189.2	2.15	78.90	2760.3	1.93	55.71
78.0	0.17	56.09	597.8	1.83	76.96	1357.4	1.76	59.39	2189.4	2.28	80.12	2760.4	2.05	55.96
78.2	0.18	57.00	598.0	1.89	75.50	1357.6	1.82	58.98	2189.6	2.32	81.94	2760.5	1.90	55.94
78.4	0.17	56.24	598.2	1.72	75.42	1357.8	1.81	59.20	2189.8	1.84	79.54	2760.6	1.98	55.19
78.6	0.19	56.41	598.4	1.58	74.92	1358.0	1.69	59.46	2190.0	2.15	77.96	2760.7	2.10	55.87
78.8	0.16	56.99	598.6	1.88	72.94	1358.2	1.90	59.55	2190.2	1.80	73.85	2760.8	1.32	55.83
79.0	0.22	56.55	598.8	1.86	71.80	1358.4	1.63	58.87	2190.4	2.52	71.99	2760.9	2.07	56.76
79.2	0.20	56.35	599.0	1.86	71.40	1358.6	1.76	59.79	2190.6	2.40	70.98	2761.0	2.23	55.86
79.4	0.19	57.45	599.2	1.99	70.92	1358.8	1.69	59.62	2190.8	1.90	69.52	2761.1	2.28	56.14
79.6	0.19	56.22	599.4	1.77	73.03	1359.0	1.68	59.34	2191.0	1.94	68.46	2761.2	2.26	56.05
79.8	0.15	56.36	599.6	1.80	73.13	1359.2	1.85	59.03	2191.2	2.13	68.81	2761.3	2.22	56.58
80.0	0.19	56.36	599.8	1.48	73.17	1359.4	1.51	59.36	2191.4	1.85	69.91	2761.4	2.42	56.38
80.2	0.20	55.14	600.0	1.40	73.80	1359.6	1.79	58.50	2191.6	1.95	68.36	2761.5	2.15	57.55
80.4	0.18	54.80	600.2	0.29	73.38	1359.8	1.87	58.35	2192.0	1.89	68.94	2761.6	2.25	57.81
80.6	0.15	55.54	600.4	0.54	71.69	1360.0	1.64	58.76	2192.2	1.84	69.83	2761.7	1.52	57.77
80.8	0.18	55.71	600.6	1.01	72.30	1365.2	2.01	59.80	2192.4	2.06	69.77	2761.8	2.22	56.90
81.0	0.16	55.47	600.8	1.63	72.25	1365.4	1.86	62.10	2192.6	2.00	68.79	2761.9	1.94	56.61
81.2	0.14	55.71	601.0	1.98	72.55	1365.6	1.99	62.74	2192.8	1.96	68.72	2762.0	1.83	55.68
81.4	0.17	54.60	601.2	1.83	73.66	1365.8	1.84	63.18	2193.0	2.15	68.36	2762.1	2.05	55.35
81.6	0.18	54.64	601.4	2.11	74.33	1366.0	1.91	63.99	2193.2	1.89	67.80	2762.2	2.20	55.52
81.8	0.19	54.80	601.6	1.77	74.67	1366.2	1.70	63.50	2193.4	1.91	67.84	2762.3	2.00	56.11
82.0	0.18	54.46	601.8	0.97	76.63	1366.4	1.65	62.49	2193.6	2.34	68.61	2762.4	2.28	56.76
82.2	0.21	55.36	602.0	1.16	80.02	1366.6	1.98	62.66	2193.8	2.42	69.13	2762.5	2.26	57.37
82.4	0.23	56.07	602.2	0.21	78.88	1366.8	1.83	62.78	2194.0	2.70	69.38	2762.6	2.12	58.63
82.6	0.14	55.50	602.4	1.03	79.13	1367.0	1.43	62.28	2194.2	2.38	70.06	2762.7	2.02	58.08
82.8	0.21	53.60	602.6	1.90	78.52	1367.2	1.79	63.02	2194.4	2.39	70.01	2762.8	2.04	57.54
83.0	0.20	52.93	602.8	1.94	76.80	1367.4	1.82	64.12	2194.6	2.76	70.44	2762.9	2.09	56.16
83.2	0.18	52.91	603.0	1.16	73.70	1367.6	1.93	64.64	2194.8	2.48	70.75	2763.0	2.24	55.90
83.4	0.17	54.14	603.2	0.99	76.30	1367.8	1.72	64.86	2195.0	2.68	70.35	2763.1	1.74	54.85
83.6	0.18	54.45	603.4	1.47	75.23	1368.0	1.76	65.85	2195.2	2.47	69.64	2763.2	2.06	54.63
83.8	0.20	55.97	603.6	1.55	75.37	1368.2	1.76	65.73	2195.4	2.69	69.84	2763.3	2.45	54.18
84.0	0.20	57.86	603.8	1.40	75.11	1368.4	1.95	64.92	2195.6	2.55	70.11	2763.4	2.09	54.15
84.2	0.18	58.32	604.0	0.84	74.01	1368.6	1.74	64.87	2195.8	2.35	69.19	2763.5	2.18	53.31
84.4	0.21	57.35	604.2	1.01	72.57	1368.8	1.80	65.31	2196.0	1.91	69.41	2763.6	2.27	53.34
84.6	0.25	59.56	604.4	1.62	73.98	1369.0	1.84	64.54	2196.2	2.71	68.89	2763.7	2.08	53.46
84.8	0.27	60.31	604.6	1.78	75.93	1369.2	1.87	64.29	2196.4	2.60	68.16	2763.8	1.92	55.23
85.0	0.22	59.87	604.8	1.32	76.27	1369.4	1.84	65.12	2196.6	2.35	67.57	2763.9	2.02	56.12
85.2	0.22	58.72	605.0	1.88	76.31	1369.6	1.68	66.62	2196.8	2.62	67.98	2764.0	2.24	56.42
85.4	0.22	58.82	605.2	1.42	74.94	1369.8	1.85	66.55	2197.0	2.15	68.57	2764.1	1.99	56.59
85.6	0.11	58.17	605.4	1.21	73.28	1370.0	1.76	66.78	2197.2	2.15	68.98	2764.2	2.12	56.15
85.8	0.13	58.13	605.6	1.30	70.15	1370.2	2.07	66.55	2197.4	2.31	68.84	2764.3	2.38	55.

87.6	0.16	52.81	607.4	1.33	68.70	1372.0	1.77	63.59	2199.2	1.99	70.26	2765.2	1.84	56.67
87.8	0.21	53.11	607.6	1.10	70.03	1372.2	2.02	62.93	2199.4	1.81	70.70	2765.3	2.27	56.38
88.0	0.22	53.05	607.8	1.06	71.00	1372.4	1.81	62.89	2199.6	1.83	70.84	2765.4	1.98	56.28
88.2	0.23	53.17	608.0	1.43	71.51	1372.6	2.10	62.23	2199.8	1.80	71.83	2765.5	2.08	55.81
88.4	0.23	53.63	608.2	1.50	71.84	1372.8	1.86	61.98	2200.0	2.23	72.89	2765.6	1.99	55.17
88.6	0.23	54.36	608.4	1.75	71.27	1373.0	2.02	61.33	2200.2	2.00	72.79	2765.7	2.12	55.20
88.8	0.25	53.29	608.6	1.67	71.01	1373.2	1.95	62.17	2200.4	1.99	71.20	2765.8	2.09	55.89
89.0	0.24	52.18	608.8	1.83	71.69	1373.4	1.97	61.80	2200.6	1.55	70.79	2765.9	2.06	55.99
89.2	0.12	53.23	609.0	1.41	71.96	1373.6	2.13	63.10	2200.8	2.02	72.07	2766.0	2.06	56.02
89.4	0.20	53.23	609.2	1.11	71.21	1373.8	2.20	63.07	2201.0	2.31	72.08	2766.1	2.13	54.79
89.6	0.17	51.87	609.4	1.29	71.70	1374.0	1.67	62.75	2201.2	2.03	71.33	2766.2	1.99	54.64
89.8	0.22	52.71	609.6	1.80	71.58	1374.2	1.60	61.77	2201.4	2.22	71.25	2766.3	2.34	54.14
90.0	0.20	53.47	609.8	1.80	70.37	1374.4	1.81	61.46	2201.6	1.93	71.66	2766.4	2.08	53.54
90.2	0.23	51.61	610.0	1.80	70.12	1374.6	2.00	61.58	2201.8	1.83	69.56	2766.5	2.16	53.73
90.4	0.23	51.10	610.2	1.38	69.09	1374.8	1.90	62.69	2202.0	1.99	67.59	2766.6	1.90	54.83
90.6	0.16	51.41	610.4	1.28	69.02	1375.0	2.01	63.19	2202.2	1.96	68.43	2766.7	1.83	53.75
90.8	0.21	52.05	610.6	1.08	70.17	1375.2	2.00	63.76	2202.4	2.03	69.60	2766.8	2.12	54.40
91.0	0.18	51.51	610.8	1.04	69.89	1375.4	2.06	64.34	2202.6	1.80	68.61	2766.9	2.30	54.95
91.2	0.18	51.78	611.0	1.65	69.08	1375.6	1.88	63.75	2202.8	2.13	68.22	2767.0	2.07	54.76
91.4	0.16	51.27	611.2	1.85	70.13	1375.8	2.13	64.09	2203.0	1.89	68.70	2767.1	2.30	54.47
91.6	0.16	51.57	611.4	1.76	71.05	1376.0	2.13	63.82	2203.2	2.01	67.86	2767.2	2.20	55.10
91.8	0.18	50.74	611.6	1.82	70.35	1376.2	2.07	63.60	2203.4	1.92	66.58	2767.3	1.78	54.33
92.0	0.20	52.26	611.8	1.66	71.79	1376.4	1.94	63.64	2203.6	1.94	66.55	2767.4	2.03	54.89
92.2	0.18	52.75	612.0	0.85	73.36	1376.6	1.87	63.59	2203.8	2.08	66.43	2767.5	2.07	55.80
92.4	0.22	53.04	612.2	0.91	72.75	1376.8	1.93	62.84	2204.0	2.10	66.56	2767.6	2.05	55.86
92.6	0.20	52.74	612.4	0.86	72.37	1377.0	1.76	62.94	2204.2	2.18	65.70	2767.7	1.71	55.86
92.8	0.20	52.15	612.6	0.84	71.82	1377.2	2.05	63.18	2204.4	2.19	65.97	2767.8	1.98	56.36
93.0	0.23	51.11	612.8	0.94	71.44	1377.4	2.06	62.82	2204.6	2.28	66.20	2767.9	2.07	56.32
93.2	0.10	49.77	613.0	1.15	72.26	1377.6	1.53	63.84	2204.8	1.82	65.77	2768.0	2.12	57.02
93.4	0.17	49.37	613.2	0.67	72.17	1377.8	1.91	64.96	2205.0	1.99	65.87	2768.1	1.95	57.66
93.6	0.11	49.79	613.4	1.12	72.82	1378.0	1.91	65.20	2205.2	2.46	66.33	2768.2	1.91	57.54
93.8	0.14	50.94	613.6	1.62	73.60	1378.2	1.85	65.91	2205.4	2.17	67.84	2768.3	2.22	57.54
94.0	0.22	51.89	613.8	1.38	72.74	1378.4	1.32	66.78	2205.6	2.15	67.14	2768.4	2.12	57.79
94.2	0.27	53.20	614.0	1.82	72.38	1378.6	1.88	65.88	2205.8	2.26	67.51	2768.5	2.19	56.18
94.4	0.30	53.96	614.2	1.85	72.40	1378.8	1.87	65.27	2206.0	1.73	67.06	2768.6	2.04	56.55
94.6	0.25	54.10	614.4	1.36	72.44	1379.0	1.76	67.34	2206.2	1.86	68.43	2768.7	2.22	56.92
94.8	0.25	54.46	614.6	1.73	72.25	1379.2	1.72	68.08	2206.4	2.19	68.66	2768.8	2.16	56.49
95.0	0.31	54.48	614.8	1.02	72.09	1379.4	1.46	67.94	2206.6	2.01	71.31	2768.9	2.23	55.51
95.2	0.29	54.35	615.0	0.78	71.02	1379.6	1.92	68.25	2206.8	1.88	71.25	2769.0	2.04	56.38
95.4	0.31	54.21	615.2	1.23	72.66	1379.8	1.81	68.81	2207.0	1.90	70.70	2769.1	2.14	55.90
95.6	0.26	54.33	615.4	1.09	72.02	1380.0	2.04	66.60	2207.2	1.99	69.14	2769.2	1.85	55.72
95.8	0.25	52.61	615.6	1.19	72.54	1380.2	1.96	65.22	2207.4	2.06	67.26	2769.3	2.17	56.34
96.0	0.27	52.19	615.8	1.09	73.68	1380.4	1.88	65.35	2207.6	2.12	65.15	2769.4	2.14	57.24
96.2	0.22	52.62	616.0	1.74	73.06	1380.6	1.85	67.18	2207.8	1.89	65.43	2769.5	2.33	56.47
96.4	0.30	53.15	616.2	1.71	71.30	1380.8	2.04	67.18	2208.0	1.79	65.43	2769.6	2.41	56.95
96.6	0.29	52.87	616.4	2.01	70.77	1381.0	1.73	69.82	2208.2	1.82	64.69	2769.7	2.05	57.31
96.8	0.29	54.15	616.6	1.73	69.28	1381.2	1.87	70.44	2208.4	2.16	64.67	2769.8	2.12	57.47
97.0	0.32	53.84	616.8	1.54	68.63	1381.4	1.68	69.89	2208.6	1.88	63.76	2769.9	2.36	57.78
97.2	0.20	53.01	617.0	1.63	67.68	1381.6	1.68	67.79	2208.8	1.93	63.24	2770.0	2.10	58.56
97.4	0.24	52.41	617.2	1.80	67.99	1381.8	1.88	66.91	2209.0	1.98	63.61	2770.1	2.00	57.86
97.6	0.25	52.35	617.4	1.94	68.10	1382.0	1.72	64.35	2209.2	1.96	63.36	2770.2	2.14	57.74
97.8	0.26	51.72	617.6	0.62	68.83	1382.2	1.62	62.56	2209.4	1.76	64.61	2770.3	2.01	56.92
98.0	0.26	51.89	617.8	1.98	68.46	1382.4	1.65	62.09	2209.6	2.01	65.23	2770.4	2.21	56.41
98.2	0.25	52.41	618.0	1.96	69.11	1382.6	1.87	61.80	2209.8	1.97	65.43	2770.5	2.14	55.54
98.4	0.27	54.27	618.2	1.18	69.21	1382.8	1.66	61.97	2210.0	1.52	65.99	2770.6	2.05	56.65
98.6	0.28	56.00	618.4	0.74	69.60	1383.0	1.69	61.79	2210.2	2.23	66.32	2770.7	2.14	57.69
98.8	0.37	56.11	618.6	0.80	70.13	1383.2	1.84	62.64	2210.4	1.72	66.34	2770.8	1.95	59.39
99.0	0.43	56.31	618.8	0.89	70.78	1383.4	1.81	62.63	2210.6	1.45	66.23	2770.9	2.14	59.98
99.2	0.38	56.62	619.0	0.71	70.34	1383.6	1.60	62.23	2210.8	2.06	66.38	2771.0	1.88	60.33
99.4	0.41	55.61	619.2	0.67	70.53	1383.8	1.76	61.97	2211.0	2.17	66.04	2771.1	1.79	60.20
99.6	0.32	54.14	619.4	0.92	69.95	1384.0	1.82	61.56	2211.2	1.84	66.64	2771.2	1.96	60.56
99.8	0.42	55.33	619.6	1.07	69.23	1384.2	1.86	62.36	2211.4	2.10	66.38	2771.3	2.01	60.03
100.0	0.41	56.35	619.8	1.50	68.72	1384.4	1.88	63.09	2211.6	1.48	66.13	2771.4	2.27	59.85
100.2	0.35	57.03	620.0	1.77	69.71	1384.6	1.75	63.37	2211.8	1.95	66.42	2771.5	2.02	60.70
100.4	0.42	57.25	620.2	1.79	69.33	1384.8	1.54	62.82	2212.0	2.19	67.40	2771.6	1.82	60.17
100.6	0.39	57.63	620.4	1.86	70.23	1385.0	2.15	62.06	2212.2	2.14	67.00	2771.7	2.15	58.66
100.8	0.36	57.69	620.6	1.97	71.80	1385.2	2.01	61.75	2212.4	2.21	66.28	2771.8	2.12	58.19
101.0	0.43	58.04	620.8	0.52	72.27	1385.4	2.09	61.64	2212.6	1.87	66.81	2771.9	2.18	57.82
101.2	0.38	58.06	621.0	1.12	72.19	1385.6	1.77	61.91	2212.8	1.99	67.08	2772.0	1.95	56.46
101.4	0.41	58.42	621.2	1.08	72.72	1385.8	2.08	62.84	2213.0	2.13	65.63	2772.1	1.95	56.47
101.6	0.44	59.12	621.4	1.08	72.17	1386.0	1.83	63.67	2213.2	2.09	67.14	2772.2	1.76	57.61
101.8	0.45	58.92	621.6	0.67	70.26	1386.2	2.06	62.68	2213.4	2.18	66.94	2772.3	1.87	58.71
102.0	0.41	58.46	621.8	0.57	70.43	1386.4	1.94	62.60	2213.6	1.89	67.37	2772.4	2	

103.8	0.37	54.13	623.6	1.74	67.41	1388.2	1.78	59.30	2215.4	2.06	63.37	2773.3	1.94	56.48
104.0	0.39	55.23	623.8	1.86	68.11	1388.4	1.65	59.04	2215.6	2.08	65.67	2773.4	1.94	57.54
104.2	0.47	55.10	624.0	0.22	68.64	1388.6	1.63	59.18	2215.8	2.18	65.70	2773.5	1.97	58.08
104.4	0.46	53.84	624.2	0.42	69.45	1388.8	1.68	58.90	2216.0	2.10	67.81	2773.6	2.07	58.21
104.6	0.47	53.14	624.4	1.17	69.47	1389.0	1.62	59.17	2216.2	1.83	69.70	2773.7	1.90	58.17
104.8	0.30	52.50	624.6	2.12	69.38	1389.2	1.85	59.25	2216.4	2.03	69.72	2773.8	1.73	58.10
105.0	0.35	49.99	624.8	1.47	68.55	1389.4	2.09	59.23	2216.6	1.93	69.90	2773.9	2.14	58.30
105.2	0.30	50.02	625.0	1.19	70.19	1389.6	1.96	59.38	2216.8	2.02	69.84	2774.0	1.91	57.53
105.4	0.26	51.91	625.2	1.34	70.72	1389.8	1.77	59.43	2217.0	1.97	67.89	2774.1	1.99	57.82
105.6	0.24	53.74	625.4	1.26	71.11	1390.0	1.64	59.90	2217.2	2.00	68.10	2774.2	1.54	58.57
105.8	0.51	55.84	625.6	1.12	71.45	1390.2	1.81	60.54	2217.4	2.03	68.01	2774.3	1.84	59.29
106.0	0.59	58.61	625.8	0.75	71.03	1390.4	1.82	60.99	2217.6	2.02	65.13	2774.4	1.82	59.65
106.2	0.58	59.35	626.0	1.28	70.34	1390.6	1.68	60.81	2217.8	2.10	64.44	2774.5	2.32	59.52
106.4	0.54	59.41	626.2	1.34	69.67	1390.8	1.74	60.59	2218.0	1.92	64.85	2774.6	2.36	59.62
106.6	0.57	58.98	626.4	0.54	69.17	1391.0	1.70	60.13	2218.2	1.86	64.03	2774.7	1.94	59.42
106.8	0.49	58.23	626.6	0.53	69.49	1391.2	1.81	59.13	2218.4	2.04	66.38	2774.8	1.98	59.38
107.0	0.54	56.47	626.8	0.64	69.40	1391.4	1.76	59.17	2218.6	1.92	66.65	2774.9	2.01	58.25
107.2	0.56	55.97	627.0	0.69	69.88	1391.6	1.96	58.98	2218.8	1.72	66.69	2775.0	1.81	58.81
107.4	0.44	56.19	627.2	1.29	69.01	1391.8	1.74	58.38	2219.0	1.51	67.41	2775.1	1.87	58.42
107.6	0.52	56.73	627.4	0.90	70.08	1392.0	1.86	58.32	2219.2	1.93	67.94	2775.2	1.38	58.26
107.8	0.54	56.95	627.6	0.82	70.71	1392.2	1.82	59.34	2219.4	1.81	65.51	2775.3	1.72	57.66
108.0	0.60	57.37	627.8	0.78	70.46	1392.4	1.81	59.02	2219.6	1.67	66.36	2775.4	2.15	57.84
108.2	0.65	57.31	628.0	1.27	68.96	1392.6	1.90	58.44	2219.8	1.97	66.75	2775.5	1.98	58.00
108.4	0.53	56.83	628.2	0.98	70.08	1392.8	1.85	59.27	2220.0	1.91	66.02	2775.6	1.73	58.65
108.6	0.63	55.85	628.4	0.53	68.24	1393.0	1.93	58.65	2220.2	1.80	65.72	2775.7	1.84	58.90
108.8	0.52	55.15	628.6	0.70	66.19	1393.2	1.26	57.66	2220.4	1.83	66.98	2775.8	1.84	58.80
109.0	0.52	54.92	628.8	1.86	66.58	1393.4	1.83	57.29	2220.6	1.31	67.13	2775.9	1.82	59.32
109.2	0.53	56.04	629.0	0.74	66.73	1393.6	1.67	57.06	2220.8	1.94	67.22	2776.0	2.08	58.96
109.4	0.55	56.16	629.2	0.94	67.61	1393.8	1.81	57.25	2221.0	1.70	68.26	2776.1	2.06	59.31
109.6	0.38	55.89	629.4	0.62	67.99	1394.0	1.56	57.33	2221.2	1.79	68.41	2776.2	2.10	59.07
109.8	0.35	56.15	629.6	0.51	69.34	1394.2	1.58	64.28	2221.4	1.71	67.67	2776.3	2.24	59.17
110.0	0.21	56.13	629.8	0.86	68.62	1394.4	1.83	68.65	2221.6	1.75	67.60	2776.4	2.25	59.16
110.2	0.24	55.66	630.0	0.59	69.12	1394.6	1.72	67.54	2221.8	1.90	68.25	2776.5	2.13	58.36
110.4	0.52	56.04	630.2	0.28	67.89	1395.0	1.70	67.69	2222.0	1.86	69.27	2776.6	1.83	57.43
110.6	0.50	56.29	630.4	0.78	68.71	1395.2	1.81	67.79	2222.2	1.76	70.03	2776.7	2.19	57.03
110.8	0.54	56.23	630.6	1.50	67.46	1395.4	1.68	61.09	2222.4	1.60	71.15	2776.8	2.32	56.63
111.0	0.51	56.25	630.8	0.57	67.98	1395.6	1.83	56.70	2222.6	1.64	71.78	2776.9	1.89	56.07
111.2	0.46	55.39	631.0	0.64	67.69	1395.8	1.17	57.87	2222.8	1.53	71.31	2777.0	2.00	57.12
111.4	0.59	55.57	631.2	0.83	67.76	1396.0	1.88	57.90	2223.0	1.80	70.20	2777.1	1.91	57.15
111.6	0.47	55.79	631.4	0.68	66.21	1396.2	1.93	57.92	2223.2	1.63	69.90	2777.2	1.85	57.58
111.8	0.66	56.12	631.6	1.56	67.63	1396.4	1.96	57.78	2223.4	1.72	68.87	2777.3	1.99	57.72
112.0	0.50	57.50	631.8	1.20	68.04	1396.6	2.05	57.90	2223.6	1.52	68.63	2777.4	2.08	57.64
112.2	0.59	58.59	632.0	0.59	68.13	1396.8	1.98	58.12	2223.8	1.57	69.01	2777.5	2.01	57.13
112.4	0.59	58.53	632.2	1.09	67.54	1397.0	1.94	57.83	2224.0	1.80	68.19	2777.6	1.81	57.30
112.6	0.60	58.50	632.4	0.34	69.31	1397.2	1.66	58.88	2224.2	1.60	68.29	2777.7	2.04	57.23
112.8	0.61	58.33	632.6	0.54	67.51	1397.4	1.83	59.40	2224.4	1.59	69.49	2777.8	1.76	58.35
113.0	0.47	57.55	632.8	1.63	66.22	1397.6	1.80	60.08	2224.6	1.66	69.94	2777.9	2.05	58.40
113.2	0.61	57.69	633.0	1.83	66.99	1397.8	2.01	60.40	2224.8	1.72	70.06	2778.0	2.08	58.84
113.4	0.65	57.71	633.2	1.43	67.41	1398.0	1.85	60.39	2225.0	1.66	70.32	2778.1	1.92	58.38
113.6	0.58	57.24	633.4	1.56	66.67	1398.2	1.84	59.66	2225.2	1.83	70.46	2778.2	2.19	57.87
113.8	0.62	56.55	633.6	0.26	68.17	1398.4	1.87	59.61	2225.4	2.11	69.46	2778.3	1.81	56.60
114.0	0.48	56.57	633.8	1.59	68.70	1398.6	2.09	58.84	2225.6	2.02	68.55	2778.4	2.13	56.16
114.2	0.62	55.67	634.0	1.51	67.45	1398.8	1.94	58.27	2225.8	2.04	67.49	2778.5	2.11	55.71
114.4	0.64	56.05	634.2	1.29	67.24	1399.0	1.89	57.72	2226.0	1.82	67.52	2778.6	1.82	55.44
114.6	0.57	57.15	634.4	0.16	66.31	1399.2	1.61	57.80	2226.2	2.10	66.93	2778.7	1.99	55.91
114.8	0.65	55.64	634.6	0.15	64.69	1399.4	1.73	57.39	2226.4	1.86	67.56	2778.8	1.95	57.02
115.0	0.57	54.06	634.8	0.85	64.09	1399.6	1.65	56.91	2226.6	1.87	68.17	2778.9	2.02	58.41
115.2	0.36	55.13	635.0	1.17	65.75	1399.8	1.88	56.55	2226.8	1.93	68.59	2779.0	2.15	58.68
115.4	0.33	52.40	635.2	0.58	65.81	1400.0	1.89	57.27	2227.0	2.00	69.17	2779.1	1.84	60.61
115.6	0.46	52.64	635.4	0.60	65.73	1400.2	1.84	57.02	2227.2	1.79	68.49	2779.2	2.22	59.73
116.0	0.40	54.35	635.6	1.00	65.95	1400.4	1.80	57.53	2227.4	1.97	67.63	2779.3	2.02	58.80
116.1	0.54	55.80	635.8	1.26	66.58	1400.6	1.92	59.55	2227.6	1.68	65.79	2779.4	1.60	58.52
116.2	0.47	55.16	636.0	0.96	65.43	1400.8	1.77	62.31	2227.8	1.99	65.28	2779.5	1.88	57.89
116.3	0.59	56.99	636.2	0.59	67.13	1401.0	1.66	61.98	2228.0	2.53	64.28	2779.6	1.95	56.31
116.4	0.56	56.35	636.4	0.98	67.82	1401.2	1.41	64.49	2228.2	1.90	63.84	2779.7	2.09	56.74
116.5	0.57	56.69	636.6	1.20	68.99	1401.4	1.33	64.33	2228.4	2.04	64.24	2779.8	2.14	57.12
116.6	0.56	56.28	636.8	1.33	68.90	1401.6	1.53	62.80	2228.6	2.19	65.56	2779.9	2.04	56.33
116.7	0.56	55.84	637.0	1.61	68.10	1401.8	1.60	60.94	2228.8	2.10	65.32	2780.0	2.12	56.84
116.8	0.61	56.36	637.2	0.55	65.65	1402.0	1.67	61.57	2229.0	1.91	65.06	2780.1	2.32	56.76
116.9	0.49	56.13	637.4	0.57	66.20	1402.2	1.43	59.35	2229.2	2.12	65.78	2780.2	1.94	56.53
117.0	0.52	55.24	637.6	0.76	67.29	1402.4	1.40	59.29	2229.4	2.22	65.26	2780.3	1.83	56.16
117.1	0.47	54.28	637.8	1.48	68.10	1402.6	1.64	60.06	2229.6	1.92	64.00	2780.4	2.11	56.12
117.2	0.63	54.54	638.0	1.43	69.61	1402.8								

118.1	0.62	52.49	639.8	1.56	70.35	1404.6	1.95	60.52	2231.6	1.95	64.14	2781.4	1.93	57.92
118.2	0.51	52.53	640.0	0.69	69.96	1404.8	1.80	61.61	2231.8	1.48	64.12	2781.5	2.01	57.25
118.3	0.53	54.94	640.2	0.43	70.25	1405.0	1.76	61.75	2232.0	2.01	64.56	2781.6	2.17	57.07
118.4	0.52	55.47	640.4	0.47	70.82	1405.2	1.62	61.44	2232.2	1.65	64.84	2781.7	2.28	55.74
118.5	0.59	56.43	640.6	0.63	70.01	1405.4	1.89	60.04	2232.4	1.90	64.14	2781.8	2.15	54.56
118.6	0.58	57.01	640.8	0.73	72.48	1405.6	2.09	59.25	2232.6	1.89	65.42	2781.9	1.89	53.94
118.7	0.62	57.85	641.0	0.70	71.94	1405.8	1.70	59.08	2232.8	1.98	65.85	2782.0	2.13	54.87
118.8	0.58	56.73	641.2	0.37	71.37	1406.0	1.94	58.44	2233.0	1.99	66.35	2782.1	2.15	54.89
118.9	0.61	56.89	641.4	0.55	72.07	1406.2	1.84	58.53	2233.2	1.95	66.21	2782.2	1.82	55.20
119.0	0.61	57.11	641.6	0.37	72.44	1406.4	1.97	58.88	2233.4	1.90	67.11	2782.3	1.34	56.14
119.1	0.55	57.84	641.8	0.60	69.16	1406.6	1.98	60.90	2233.6	2.03	66.19	2782.4	2.35	55.46
119.2	0.54	56.96	642.0	0.62	68.95	1406.8	1.63	60.48	2233.8	1.87	66.20	2782.5	2.23	54.55
119.3	0.59	56.87	642.2	0.80	69.13	1407.0	1.84	59.83	2234.0	1.63	66.32	2782.6	2.05	54.58
119.4	0.54	56.28	642.4	0.78	68.64	1407.2	1.86	59.71	2234.2	1.85	66.98	2782.7	2.11	55.24
119.5	0.48	56.05	642.6	0.95	67.97	1407.4	1.87	58.61	2234.4	1.85	66.71	2782.8	2.32	55.29
119.6	0.60	55.49	642.8	1.34	68.47	1407.6	1.58	56.82	2234.6	1.89	66.62	2782.9	2.46	56.06
119.7	0.65	55.93	643.0	1.43	67.45	1407.8	2.02	57.13	2234.8	1.86	66.45	2783.0	2.33	56.80
119.8	0.55	54.98	643.2	1.24	67.07	1408.0	1.98	57.91	2235.0	2.13	65.26	2783.1	2.13	58.19
119.9	0.63	54.66	643.4	0.64	66.39	1408.2	1.88	57.83	2235.2	1.97	65.04	2783.2	2.09	58.05
120.0	0.57	55.43	643.6	0.63	66.00	1408.4	1.76	58.28	2235.4	1.65	64.95	2783.3	2.25	59.90
120.1	0.52	56.66	643.8	0.64	65.56	1408.6	1.80	57.45	2235.6	1.77	65.53	2783.4	2.02	60.84
120.2	0.56	55.87	644.0	0.65	66.35	1408.8	1.77	56.93	2235.8	1.91	67.08	2783.5	2.02	62.61
120.3	0.59	56.38	644.2	0.95	66.11	1409.0	1.86	57.14	2236.0	2.13	68.45	2783.6	2.09	62.49
120.4	0.52	56.71	644.4	0.89	66.75	1409.2	1.74	57.11	2236.2	1.91	68.37	2783.7	2.22	62.39
120.5	0.57	55.68	644.6	0.84	66.21	1409.4	1.95	57.40	2236.4	2.10	69.10	2783.8	2.30	61.10
120.6	0.64	54.12	644.8	1.13	68.05	1409.6	1.87	58.40	2236.6	2.09	69.29	2783.9	1.93	61.72
120.7	0.62	53.64	645.0	0.19	68.20	1409.8	1.93	58.36	2236.8	1.91	68.44	2784.0	1.95	59.85
120.8	0.63	53.47	645.2	0.34	68.33	1410.0	1.92	58.00	2237.0	1.88	68.09	2784.1	2.03	58.92
120.9	0.66	54.04	645.4	0.81	69.16	1410.2	1.88	58.49	2237.2	2.00	68.14	2784.2	1.58	61.15
121.0	0.54	53.89	645.6	0.93	70.44	1410.4	1.82	62.87	2237.4	1.78	68.24	2784.3	2.13	60.62
121.1	0.63	54.49	645.8	0.50	69.56	1410.6	1.56	62.93	2237.6	2.09	68.83	2784.4	2.05	58.74
121.2	0.70	56.08	646.0	0.57	69.78	1410.8	1.83	62.98	2237.8	2.03	68.25	2784.5	2.03	59.27
121.3	0.61	57.46	646.2	0.94	69.29	1411.0	1.81	61.25	2238.0	2.03	67.44	2784.6	1.96	60.67
121.4	0.58	56.23	646.4	0.51	69.16	1411.2	1.48	63.27	2238.2	1.98	68.98	2784.7	2.24	58.09
121.5	0.59	57.14	646.6	0.49	69.04	1411.4	1.69	58.64	2238.4	1.99	69.07	2784.8	2.27	59.22
121.6	0.60	56.94	646.8	0.73	68.85	1411.6	1.81	57.95	2238.6	2.01	69.34	2784.9	1.90	60.25
121.7	0.61	56.93	647.0	0.68	70.10	1411.8	1.17	58.52	2238.8	2.06	70.81	2785.0	2.33	60.55
121.8	0.69	55.90	647.2	0.43	70.25	1412.0	1.72	59.54	2239.0	1.97	71.96	2785.1	2.09	60.51
121.9	0.66	56.39	647.4	0.45	70.00	1412.2	2.09	57.91	2239.2	1.98	70.07	2785.2	2.27	61.24
122.0	0.65	56.56	647.6	0.36	70.11	1412.4	1.47	57.91	2239.4	2.03	69.56	2785.3	2.23	60.44
122.1	0.65	55.96	647.8	0.30	69.90	1412.6	1.74	58.58	2239.6	2.21	68.71	2785.4	2.22	60.36
122.2	0.70	55.86	648.0	0.34	67.94	1412.8	1.44	58.09	2239.8	2.12	66.07	2785.5	2.38	59.58
122.3	0.71	55.91	648.2	0.45	67.35	1413.0	1.64	58.26	2240.0	1.99	65.93	2785.6	2.30	58.44
122.4	0.72	56.32	648.4	0.34	67.01	1413.2	1.75	58.29	2240.2	2.01	66.34	2785.7	2.23	58.51
122.5	0.76	55.53	648.6	0.64	67.75	1413.4	1.80	57.89	2240.4	2.12	65.35	2785.8	2.24	59.11
122.6	0.64	55.83	648.8	0.78	68.12	1413.6	1.69	56.59	2240.6	2.11	65.36	2785.9	2.13	59.18
122.7	0.71	55.27	649.0	0.59	68.53	1413.8	2.03	56.49	2240.8	1.85	67.45	2786.0	2.23	59.08
122.8	0.69	54.62	649.2	0.52	69.64	1414.0	2.03	56.30	2241.0	1.97	67.53	2786.1	2.16	59.64
122.9	0.69	54.56	649.4	0.31	69.25	1414.2	1.70	56.44	2241.2	2.26	69.03	2786.2	1.96	59.53
123.0	0.70	54.43	649.6	0.49	67.55	1414.4	1.85	56.87	2241.4	2.21	69.97	2786.3	2.15	57.88
123.1	0.73	54.37	649.8	0.25	68.11	1414.6	1.54	58.32	2241.6	2.39	70.66	2786.4	1.83	57.75
123.2	0.59	54.59	650.0	0.20	67.06	1414.8	1.86	58.40	2241.8	2.08	70.58	2786.5	2.17	58.44
123.3	0.70	55.09	650.2	0.17	66.35	1415.0	1.89	58.40	2242.0	1.80	69.71	2786.6	1.93	57.92
123.4	0.71	54.97	650.4	0.18	66.42	1415.2	1.86	58.95	2242.2	1.88	69.00	2786.7	1.73	57.93
123.5	0.67	54.96	650.6	0.15	69.22	1415.4	1.76	59.95	2242.4	2.27	69.02	2786.8	1.97	58.55
123.6	0.53	55.02	650.8	0.19	68.38	1415.6	1.72	59.04	2242.6	2.12	67.51	2786.9	1.90	58.41
123.7	0.70	54.47	651.0	0.38	70.74	1415.8	1.62	59.98	2242.8	2.19	67.28	2787.0	2.17	57.50
123.8	0.71	54.33	651.2	1.07	71.42	1416.0	1.60	60.64	2243.0	2.41	67.64	2787.1	1.81	57.14
123.9	0.67	53.97	651.4	0.63	72.22	1416.2	2.14	60.99	2243.2	2.32	66.98	2787.2	2.21	56.62
124.0	0.66	55.08	651.6	0.93	70.43	1416.4	2.18	60.10	2243.4	2.14	66.88	2787.3	2.16	56.44
124.1	0.56	54.64	651.8	0.42	69.96	1416.6	2.15	60.33	2243.6	2.14	66.94	2787.4	2.03	56.92
124.2	0.68	54.31	652.0	0.17	66.89	1416.8	2.18	59.88	2243.8	2.13	65.38	2787.5	2.08	57.42
124.3	0.39	53.48	652.2	0.26	65.86	1417.0	2.10	58.97	2244.0	2.12	64.50	2787.6	2.28	57.91
124.4	0.50	52.41	652.4	0.22	65.09	1417.2	1.99	57.70	2244.2	2.18	63.75	2787.7	1.25	58.15
124.5	0.45	50.08	652.6	0.50	64.18	1417.4	2.28	57.24	2244.4	2.18	63.11	2787.8	2.01	58.12
124.6	0.41	49.59	652.8	0.56	65.14	1417.6	2.49	57.60	2244.6	2.25	62.23	2787.9	2.12	57.85
124.7	0.48	50.66	653.0	0.40	66.50	1417.8	2.32	56.37	2244.8	2.43	62.70	2788.0	2.22	56.90
124.8	0.47	50.59	653.2	1.14	66.99	1418.0	2.55	56.20	2245.0	2.41	62.36	2788.1	1.82	57.88
124.9	0.66	51.54	653.4	0.47	67.27	1418.2	2.56	56.02	2245.2	2.45	62.70	2788.2	2.20	59.20
125.0	0.55	52.33	653.6	0.57	68.27	1418.4	2.18	55.40	2245.4	2.29	63.45	2788.3	1.47	59.02
125.1	0.60	52.81	653.8	0.50	68.58	1418.6	2.17	54.92	2245.6	1.87	64.35	2788.4	2.14	58.32
125.2	0.57	51.96	654.0	0.52	67.98	1418.8	2.42	56.49	2245.8	2.16	65.02	2788.5	1.89	61.83
125.3	0.53	52.49	654.2	0.58	67.57	1419.0								

126.2	0.51	50.59	656.0	0.94	66.99	1429.4	1.70	63.59	2247.8	2.23	64.08	2789.5	2.02	57.91
126.3	0.52	51.69	656.2	0.91	66.06	1429.6	1.72	64.71	2248.0	1.88	64.63	2789.6	1.89	59.23
126.4	0.45	51.96	656.4	1.24	65.72	1429.8	1.78	63.87	2248.2	2.00	65.20	2789.7	2.12	59.27
126.5	0.75	53.00	656.6	0.56	64.35	1430.0	1.69	62.14	2248.4	2.12	65.65	2789.8	2.06	58.95
126.6	0.59	53.16	656.8	0.50	63.22	1430.2	2.03	60.94	2248.6	1.82	65.79	2789.9	1.75	58.68
126.7	0.63	54.19	657.0	0.61	64.63	1430.4	1.95	60.54	2248.8	2.43	66.34	2790.0	2.04	58.16
126.8	0.65	53.95	657.2	0.72	64.68	1430.6	1.77	61.23	2249.0	2.30	65.94	2790.1	1.84	56.57
126.9	0.63	54.51	657.4	0.65	64.62	1430.8	2.01	61.26	2249.2	1.97	66.30	2790.2	1.90	58.69
127.0	0.65	53.68	657.6	0.50	64.39	1431.0	1.52	60.55	2249.4	2.20	65.57	2790.3	1.88	58.85
127.1	0.62	53.81	657.8	0.17	65.30	1431.2	1.87	60.67	2249.6	1.95	64.79	2790.4	1.91	59.34
127.2	0.55	53.92	658.0	1.70	64.37	1431.4	1.34	60.11	2249.8	2.04	64.91	2790.5	2.08	61.32
127.3	0.68	54.22	658.2	1.74	65.17	1431.6	1.65	59.21	2250.0	2.09	65.64	2790.6	2.16	62.05
127.4	0.65	54.82	658.4	0.40	64.40	1431.8	1.83	58.46	2250.2	2.01	65.19	2790.7	1.96	60.49
127.5	0.68	55.43	658.6	0.20	65.35	1432.0	2.02	59.32	2250.4	2.06	64.99	2790.8	2.08	60.27
127.6	0.60	56.53	658.8	0.26	65.15	1432.2	1.98	59.65	2250.6	1.86	65.75	2790.9	2.27	59.65
127.7	0.74	55.87	659.0	0.67	66.25	1432.4	1.37	59.71	2250.8	1.96	65.53	2791.0	2.29	57.40
127.8	0.72	55.40	659.2	0.49	65.97	1432.6	2.07	60.06	2251.0	1.98	64.57	2791.1	1.97	57.29
127.9	0.66	54.62	659.4	0.81	67.20	1432.8	1.85	60.53	2251.2	2.24	64.67	2791.2	2.02	57.58
128.0	0.68	54.39	659.6	0.73	68.10	1433.0	1.82	60.82	2251.4	1.91	65.55	2791.3	1.97	56.66
128.1	0.64	53.58	659.8	1.10	68.35	1433.2	2.23	61.05	2251.6	1.99	65.67	2791.4	2.13	56.58
128.2	0.67	53.69	660.0	0.45	67.63	1433.4	1.82	60.56	2251.8	1.74	64.80	2791.5	2.04	57.03
128.3	0.57	54.35	660.2	0.79	67.41	1433.6	1.73	59.98	2252.0	2.28	64.46	2791.6	1.74	56.99
128.4	0.70	54.54	660.4	1.38	68.48	1433.8	1.90	60.37	2252.2	2.32	63.75	2791.7	2.16	56.18
128.5	0.63	54.53	660.6	1.61	67.51	1434.0	1.98	60.34	2252.4	2.26	63.14	2791.8	2.08	57.86
128.6	0.61	54.23	660.8	0.27	69.20	1434.2	1.98	59.54	2252.6	2.28	62.65	2791.9	1.82	58.89
128.7	0.63	54.82	661.0	1.02	70.16	1434.4	1.94	60.93	2252.8	2.14	62.57	2792.0	0.90	59.17
128.8	0.58	54.81	661.2	1.07	70.03	1434.6	2.23	61.45	2253.0	2.33	62.42	2792.1	2.34	59.19
128.9	0.74	54.69	661.4	1.05	70.34	1434.8	1.80	61.08	2253.2	2.25	62.44	2792.2	1.93	60.20
129.0	0.69	54.88	661.6	0.91	71.45	1435.0	1.82	61.26	2253.4	2.48	63.31	2792.3	1.43	59.02
129.1	0.62	54.83	661.8	0.50	71.48	1435.2	1.99	62.26	2253.6	1.93	63.29	2792.4	1.76	58.08
129.2	0.66	54.12	662.0	0.24	70.22	1435.4	1.94	61.72	2253.8	2.17	64.03	2792.5	2.03	58.12
129.3	0.64	54.60	662.2	0.88	70.50	1435.6	2.22	61.73	2254.0	2.14	65.10	2792.6	2.04	57.86
129.4	0.70	54.68	662.4	1.96	69.11	1435.8	2.20	61.86	2254.2	1.94	65.60	2792.7	1.89	57.73
129.5	0.68	54.34	662.6	0.38	67.50	1436.0	1.71	60.91	2254.4	2.11	65.44	2792.8	2.28	57.56
129.6	0.61	54.63	662.8	0.48	64.83	1436.2	1.71	60.70	2254.6	2.01	66.64	2792.9	2.11	57.58
129.7	0.63	55.41	663.0	1.71	65.35	1436.4	1.89	61.01	2254.8	2.09	66.72	2793.0	1.91	57.68
129.8	0.56	55.30	663.2	0.43	65.08	1436.6	1.88	61.19	2255.0	2.51	66.69	2793.1	1.80	57.85
129.9	0.65	54.89	663.4	0.20	64.64	1436.8	1.76	60.54	2255.2	1.94	66.53	2793.2	2.08	57.13
130.0	0.58	54.28	663.6	0.22	64.42	1437.0	2.18	61.49	2255.4	2.23	66.93	2793.3	2.04	56.63
130.1	0.66	54.10	663.8	0.71	65.32	1437.2	1.40	61.32	2255.6	1.81	66.65	2793.4	1.79	56.70
130.2	0.74	53.67	664.0	0.61	64.54	1437.4	1.43	60.92	2255.8	2.22	66.50	2793.5	2.15	56.45
130.3	0.64	53.08	664.2	0.50	64.75	1437.6	1.98	60.92	2256.0	2.37	65.72	2793.6	2.09	56.47
130.4	0.59	53.83	664.4	0.72	65.24	1437.8	2.12	61.59	2256.2	2.26	66.66	2793.7	2.05	57.15
130.5	0.79	54.77	664.6	1.67	66.00	1438.0	1.86	65.44	2256.4	2.42	65.95	2793.8	1.98	58.14
130.6	0.61	55.05	664.8	0.99	67.77	1438.2	1.75	65.02	2256.6	2.29	66.03	2793.9	2.01	58.42
130.7	0.61	54.89	665.0	0.34	68.59	1439.2	1.78	65.81	2256.8	2.27	67.47	2794.0	1.94	58.56
130.8	0.70	54.99	665.2	0.70	68.40	1439.4	2.13	66.30	2257.0	2.33	68.77	2794.1	2.20	58.97
130.9	0.59	54.46	665.4	0.32	67.34	1439.6	2.08	65.52	2257.2	2.41	70.83	2794.2	2.20	58.39
131.0	0.66	54.14	665.6	0.31	66.66	1439.8	1.75	61.30	2257.4	2.20	72.16	2794.3	1.87	58.27
131.1	0.67	54.32	665.8	0.49	64.01	1440.0	2.04	61.55	2257.6	2.06	72.21	2794.4	1.74	57.62
131.2	0.62	54.69	666.0	0.49	63.72	1440.2	1.97	60.56	2257.8	2.11	72.42	2794.5	1.63	57.04
131.3	0.60	54.79	666.2	0.34	64.41	1440.4	1.89	59.87	2258.0	2.26	73.74	2794.6	1.99	56.99
131.4	0.55	55.04	666.4	0.57	64.98	1440.6	2.05	60.37	2258.2	2.12	73.67	2794.7	1.58	57.92
131.5	0.62	54.94	666.6	0.57	64.65	1440.8	2.19	60.39	2258.4	2.05	73.09	2794.8	1.14	57.98
131.6	0.64	55.10	666.8	0.55	64.58	1441.0	2.02	60.52	2258.6	1.91	72.74	2794.9	1.30	59.21
131.7	0.60	55.06	667.0	0.27	64.97	1441.2	1.90	60.76	2258.8	1.63	71.91	2795.0	1.91	59.79
131.8	0.71	54.82	667.2	0.19	64.06	1441.4	2.07	60.59	2259.0	1.89	71.44	2795.1	1.83	63.93
131.9	0.70	54.38	667.4	0.20	64.10	1441.6	1.87	60.35	2259.2	1.93	70.43	2795.2	1.94	63.95
132.0	0.60	54.98	667.6	0.18	65.24	1441.8	2.10	60.49	2259.4	1.87	70.25	2795.3	1.21	63.84
132.1	0.66	54.06	667.8	0.24	65.93	1442.0	2.02	60.82	2259.6	1.77	71.03	2795.4	1.87	63.40
132.2	0.64	53.25	668.0	0.55	64.45	1442.2	2.14	60.75	2259.8	1.87	71.83	2795.5	2.04	64.84
132.3	0.65	53.62	668.2	0.72	64.09	1442.4	2.19	61.95	2260.0	1.85	70.69	2795.6	1.84	61.68
132.4	0.67	53.24	668.4	0.15	63.27	1442.6	0.99	63.67	2260.2	2.01	69.74	2795.7	1.47	63.58
132.5	0.64	53.47	668.6	0.25	62.53	1442.8	1.74	64.88	2260.4	2.06	69.87	2795.8	1.83	67.83
132.6	0.58	53.02	668.8	0.45	62.26	1443.0	2.01	65.09	2260.6	2.26	69.75	2795.9	1.94	68.35
132.7	0.56	53.30	669.0	0.21	63.11	1443.2	1.59	65.13	2260.8	1.72	69.17	2796.0	1.78	67.67
132.8	0.64	52.29	669.2	0.25	62.84	1443.4	1.87	64.70	2261.0	1.84	69.39	2796.1	1.68	66.20
132.9	0.64	53.87	669.4	0.31	64.34	1443.6	1.71	63.71	2261.2	1.79	69.04	2796.2	1.61	63.75
133.0	0.67	54.46	669.6	0.11	64.97	1443.8	1.44	62.78	2261.4	1.87	69.55	2796.3	2.00	59.36
133.1	0.61	56.04	669.8	0.25	65.12	1444.0	1.72	61.69	2261.6	1.65	70.34	2796.4	2.16	57.17
133.2	0.60	57.89	670.0	0.74	65.46	1444.2	1.68	62.12	2261.8	1.72	69.75	2796.5	2.00	57.36
133.3	0.60	58.80	670.2	0.69	66.31	1444.4	1.74	61.38	2262.0	1.39	70.41	2796.6	2.33	57.17
133.4	0.64	58.46	670.4	0.38	66.21	1444.6								

134.3	0.75	53.55	672.2	0.93	65.09	1446.4	1.73	59.23	2267.0	2.32	59.52	2797.6	1.87	57.14
134.4	0.66	53.51	672.4	0.50	63.59	1446.6	1.98	59.52	2267.2	2.51	59.37	2797.7	2.18	56.76
134.5	0.58	53.42	672.6	0.20	63.81	1446.8	1.93	60.01	2267.4	1.76	58.38	2797.8	1.93	58.85
134.6	0.71	54.25	672.8	0.58	64.60	1447.0	1.96	60.93	2267.6	2.32	58.71	2797.9	2.25	57.07
134.7	0.57	53.89	673.0	0.22	64.74	1447.2	1.86	60.42	2267.8	2.42	58.41	2798.0	2.16	58.02
134.8	0.74	53.73	673.2	0.47	65.10	1447.4	1.97	60.45	2268.0	2.31	60.96	2798.1	1.83	58.90
134.9	0.65	54.98	673.4	0.24	65.22	1447.6	2.05	60.61	2268.2	2.32	60.65	2798.2	1.83	59.18
135.0	0.72	54.96	673.6	0.92	65.12	1447.8	1.66	60.50	2268.4	2.14	61.27	2798.3	1.91	57.27
135.1	0.76	54.89	673.8	0.57	66.03	1448.0	1.99	60.75	2268.6	1.91	61.18	2798.4	2.09	57.74
135.2	0.73	54.86	674.0	0.46	66.60	1448.2	1.65	61.45	2268.8	1.92	61.56	2798.5	1.91	57.92
135.3	0.71	54.80	674.2	0.49	67.04	1448.4	1.76	61.86	2269.0	2.19	59.78	2798.6	1.50	57.08
135.4	0.68	54.02	674.4	0.33	68.10	1448.6	1.64	62.88	2269.2	2.09	60.61	2798.7	2.02	57.28
135.5	0.69	54.13	674.6	0.38	72.09	1448.8	1.68	64.48	2269.4	2.06	60.99	2798.8	2.04	57.30
135.6	0.70	53.59	674.8	0.56	72.45	1449.0	1.50	63.38	2269.6	1.96	61.74	2798.9	1.85	57.82
135.7	0.72	53.73	675.0	0.27	72.16	1449.2	1.55	63.36	2269.8	2.31	62.23	2799.0	2.00	57.29
135.8	0.70	54.16	675.2	0.74	71.16	1449.4	1.53	63.89	2270.0	2.11	62.19	2799.1	2.00	57.20
135.9	0.64	54.79	675.4	0.76	71.17	1449.6	1.55	63.98	2270.2	2.40	61.53	2799.2	2.15	57.05
136.0	0.63	55.94	675.6	0.36	67.78	1449.8	1.26	63.81	2270.4	1.59	62.12	2799.3	1.96	57.74
136.1	0.69	56.42	675.8	0.22	66.72	1450.0	1.45	65.91	2270.6	2.23	60.93	2799.4	1.86	57.85
136.2	0.65	56.74	676.0	0.17	66.49	1450.2	1.55	67.71	2270.8	2.07	59.80	2799.5	1.71	57.38
136.3	0.72	56.82	676.2	0.20	67.79	1450.4	1.83	66.61	2271.0	2.15	59.48	2799.6	1.49	57.33
136.4	0.67	56.96	676.4	0.34	65.74	1450.6	1.75	67.79	2271.2	2.14	60.10	2799.7	1.95	56.60
136.5	0.64	55.99	676.6	0.32	66.03	1450.8	2.01	67.09	2271.4	1.74	59.68	2799.8	1.78	60.27
136.6	0.82	56.33	676.8	0.13	66.39	1451.0	1.81	66.59	2271.6	2.26	59.72	2799.9	2.14	65.58
136.7	0.72	56.65	677.0	0.21	65.74	1451.2	1.83	64.96	2271.8	1.92	60.06	2800.0	1.80	70.88
136.8	0.70	57.67	677.2	0.17	65.98	1451.4	1.75	65.68	2272.0	2.05	61.88	2800.1	1.75	75.31
136.9	0.64	57.47	677.4	0.31	67.93	1451.6	1.90	63.75	2272.2	2.17	62.78	2800.2	1.95	77.02
137.0	0.70	56.44	677.6	0.47	67.57	1451.8	1.70	64.96	2272.4	1.43	62.42	2800.3	1.82	72.48
137.1	0.66	57.77	677.8	0.94	66.66	1452.0	1.77	63.97	2272.6	2.10	62.83	2800.4	1.91	66.15
137.2	0.68	58.90	678.0	0.41	66.90	1452.2	1.80	63.21	2272.8	2.22	63.64	2800.5	2.13	60.79
137.3	0.75	59.45	678.2	0.26	64.17	1452.4	1.55	63.22	2273.0	2.18	62.13	2800.6	1.98	56.49
137.4	0.67	60.79	678.4	1.19	63.10	1452.6	1.73	68.43	2273.2	2.03	62.38	2800.7	1.94	55.24
137.5	0.73	63.23	678.6	0.16	62.47	1452.8	1.88	67.50	2273.4	2.15	62.90	2800.8	2.03	55.42
137.6	0.71	62.37	678.8	0.15	63.15	1453.0	1.69	66.98	2273.6	2.06	63.03	2800.9	1.78	55.70
137.7	0.71	61.74	679.0	0.16	64.35	1453.2	1.67	68.08	2273.8	2.26	62.57	2801.0	1.95	56.24
137.8	0.73	60.46	679.2	0.35	64.52	1453.4	1.91	68.92	2274.0	2.11	62.95	2801.1	1.83	57.24
137.9	0.64	58.77	679.4	1.24	65.58	1453.6	1.59	63.61	2274.2	2.28	62.30	2801.2	1.92	58.84
138.0	0.67	58.32	679.6	0.15	66.33	1453.8	1.65	63.68	2274.4	1.90	62.20	2801.3	1.88	59.58
138.1	0.72	58.60	679.8	0.34	65.93	1454.0	1.91	64.84	2274.6	2.06	63.07	2801.4	2.04	60.08
138.2	0.63	59.16	680.0	0.66	65.38	1454.2	1.76	66.69	2274.8	2.24	64.52	2801.5	1.80	60.44
138.3	0.69	61.04	680.2	0.32	68.36	1454.4	1.52	65.69	2275.0	2.49	64.68	2801.6	2.06	60.44
138.4	0.69	62.61	680.4	0.23	68.60	1454.6	1.72	66.30	2275.2	2.33	64.74	2801.7	1.95	59.45
138.5	0.88	62.35	680.6	0.28	69.37	1454.8	1.83	66.32	2275.4	1.94	65.01	2801.8	1.98	59.02
138.6	0.76	62.42	680.8	0.20	69.99	1455.0	1.65	65.93	2275.6	2.15	64.07	2801.9	1.85	59.73
138.7	0.78	62.07	681.0	0.22	71.05	1455.2	1.23	63.64	2275.8	1.73	61.93	2802.0	1.89	59.80
138.8	0.75	62.10	681.2	0.37	71.01	1455.4	1.71	63.72	2276.0	1.91	60.39	2802.1	1.79	58.57
138.9	0.74	61.29	681.4	0.30	71.01	1455.6	1.63	63.16	2276.2	2.30	59.24	2802.2	2.01	58.05
139.0	0.87	61.29	681.6	0.33	71.72	1455.8	1.90	62.50	2276.4	2.06	57.85	2802.3	2.00	57.99
139.1	0.71	61.11	681.8	0.37	71.60	1456.0	1.79	63.28	2276.6	2.41	57.67	2802.4	1.89	57.42
139.2	0.71	61.25	682.0	0.71	69.84	1456.2	1.53	64.09	2276.8	2.56	58.73	2802.5	2.17	57.31
139.3	0.62	60.24	682.2	0.44	68.06	1456.4	1.86	64.66	2277.0	2.29	59.53	2802.6	1.95	58.02
139.4	0.74	61.66	682.4	0.22	67.52	1456.6	1.55	65.77	2277.2	2.41	60.10	2802.7	2.06	58.95
139.5	0.74	62.30	682.6	0.30	66.47	1456.8	1.70	66.41	2277.4	2.62	60.78	2802.8	2.00	58.72
139.6	0.77	62.41	682.8	0.19	64.96	1457.0	1.31	65.78	2277.6	2.23	61.35	2802.9	1.93	58.51
139.7	0.81	61.89	683.0	0.20	65.82	1457.2	1.49	64.97	2277.8	2.42	60.98	2803.0	2.02	58.82
139.8	0.68	61.89	683.2	0.20	66.49	1457.4	1.69	65.35	2278.0	2.24	60.08	2803.1	1.81	58.53
139.9	0.58	59.82	683.4	0.11	66.48	1457.6	1.16	64.19	2278.2	2.52	59.62	2803.2	2.08	57.91
140.0	0.77	58.37	683.6	0.21	71.13	1457.8	1.67	64.19	2278.4	2.03	59.47	2803.3	1.94	58.87
140.1	0.61	57.26	683.8	0.35	74.24	1458.0	1.48	64.47	2278.6	2.15	59.00	2803.4	2.15	59.42
140.2	0.60	56.61	684.0	0.43	75.47	1458.2	1.51	64.93	2278.8	2.65	59.14	2803.5	2.09	58.88
140.3	0.71	55.69	684.2	0.26	73.85	1458.4	1.25	65.18	2279.0	2.41	60.06	2803.6	1.86	59.16
140.4	0.82	55.81	684.4	0.28	76.49	1458.6	1.31	65.45	2279.2	2.49	60.91	2803.7	1.96	59.60
140.5	0.75	55.45	684.6	0.16	72.80	1458.8	1.35	65.94	2279.4	2.36	61.18	2803.8	2.27	58.72
140.6	0.81	55.56	684.8	0.21	71.58	1459.0	1.45	66.06	2279.6	2.53	60.45	2803.9	1.93	58.88
140.7	0.64	55.38	685.0	0.44	69.35	1459.2	1.46	66.16	2279.8	2.28	61.55	2804.0	2.22	59.22
140.8	0.77	55.20	685.2	1.18	67.99	1459.4	1.41	65.65	2280.0	2.54	61.12	2804.1	2.00	59.04
140.9	0.78	54.99	685.4	0.15	67.67	1459.6	1.13	65.30	2280.2	1.65	60.89	2804.2	1.94	58.88
141.0	0.76	55.47	685.6	0.17	66.89	1459.8	1.46	66.44	2280.4	2.45	59.35	2804.3	1.23	58.56
141.1	0.81	55.73	685.8	0.19	66.25	1460.0	1.39	67.24	2280.6	2.66	59.02	2804.4	2.30	57.52
141.2	0.74	55.55	686.0	0.18	67.73	1460.2	1.43	68.88	2280.8	2.45	58.28	2804.5	2.05	56.84
141.3	0.65	55.70	686.2	0.17	68.56	1460.4	1.30	68.33	2281.0	2.71	58.20	2804.6	2.02	56.98
141.4	0.63	55.98	686.4	0.22	67.64	1460.6	1.48	68.91	2281.2	2.35	57.60	2804.7	1.76	56.36
141.5	0.77	56.40	686.6	0.47	67.55	1460.8								

142.4	0.76	58.50	688.4	0.18	65.15	1462.6	1.54	67.84	2283.2	2.20	58.73	2805.7	1.93	59.49
142.5	0.78	57.76	688.6	0.35	65.41	1462.8	1.49	67.64	2283.4	2.77	57.84	2805.8	1.79	58.84
142.6	0.70	57.09	688.8	0.17	66.77	1463.0	1.39	67.39	2283.6	2.67	56.66	2805.9	1.72	58.12
142.7	0.72	57.16	689.0	0.14	65.31	1463.2	1.50	66.46	2283.8	2.56	55.76	2806.0	1.88	58.57
142.8	0.84	57.57	689.2	0.15	65.26	1463.4	1.25	66.47	2284.0	2.69	56.26	2806.1	1.90	58.86
142.9	0.54	57.36	689.4	0.25	66.59	1463.6	1.43	65.66	2284.2	2.57	56.60	2806.2	1.77	58.26
143.0	0.79	57.30	689.6	0.12	66.60	1463.8	1.35	64.43	2284.4	2.85	56.99	2806.3	2.07	57.25
143.1	0.72	57.80	689.8	0.67	65.09	1464.0	1.45	63.93	2284.6	2.79	57.26	2806.4	2.12	56.60
143.2	0.79	58.45	690.0	0.28	64.29	1464.2	1.28	64.41	2284.8	2.59	57.66	2806.5	2.08	55.28
143.3	0.79	58.66	690.2	0.20	64.03	1464.4	1.71	63.61	2285.0	2.60	57.09	2806.6	1.97	56.01
143.4	0.75	58.61	690.4	0.17	62.24	1464.6	1.80	64.31	2285.2	2.95	57.36	2806.7	2.02	57.73
143.5	0.73	58.10	690.6	0.15	61.71	1464.8	1.43	65.30	2285.4	2.77	57.79	2806.8	1.95	59.27
143.6	0.74	58.02	690.8	0.19	62.02	1465.0	1.43	65.69	2285.6	2.74	58.00	2806.9	2.05	58.84
143.7	0.88	60.11	691.0	0.27	62.78	1465.2	1.71	65.61	2285.8	2.63	58.56	2807.0	2.13	58.77
143.8	0.70	61.90	691.2	0.41	62.28	1465.4	1.65	66.59	2286.0	2.46	58.71	2807.1	1.80	59.05
143.9	0.71	61.83	691.4	0.36	62.99	1465.6	1.73	66.06	2286.2	2.44	58.09	2807.2	1.98	58.21
144.0	0.80	62.53	691.6	0.53	64.31	1465.8	1.34	65.61	2286.4	2.23	57.53	2807.3	2.04	57.30
144.1	0.76	62.96	691.8	0.32	63.49	1466.0	1.80	64.90	2286.6	2.59	58.57	2807.4	1.91	58.82
144.2	0.69	61.38	692.0	0.42	64.18	1466.2	1.49	64.38	2286.8	2.28	58.19	2807.5	1.99	59.91
144.3	0.75	61.78	692.2	0.31	64.44	1466.4	1.82	62.73	2287.0	2.50	57.78	2807.6	1.76	59.90
144.4	0.68	63.41	692.4	0.22	64.79	1466.6	1.82	63.23	2287.2	2.46	58.03	2807.7	2.05	59.04
144.5	0.69	66.21	692.6	0.15	63.77	1466.8	1.67	62.79	2287.4	2.49	58.09	2807.8	2.10	58.91
144.6	0.75	66.83	692.8	0.22	65.60	1467.0	1.63	63.90	2287.6	2.13	57.15	2807.9	1.69	58.40
144.7	0.88	67.33	693.0	0.27	65.09	1467.2	1.56	64.02	2287.8	1.97	57.37	2808.0	1.97	57.76
144.8	0.86	66.83	693.2	0.23	65.92	1467.4	1.79	65.37	2288.0	2.16	58.08	2808.1	1.99	57.12
144.9	0.77	66.83	693.4	0.20	66.63	1467.6	1.83	66.23	2288.2	2.31	60.82	2808.2	2.23	57.42
145.0	0.86	65.62	693.6	0.30	68.23	1467.8	1.70	66.69	2288.4	2.10	60.55	2808.3	2.12	57.57
145.1	0.85	65.57	693.8	0.27	66.72	1468.0	1.80	66.23	2288.6	2.28	61.42	2808.4	1.94	58.22
145.2	0.80	65.79	694.0	0.31	66.83	1468.2	1.55	66.22	2288.8	2.38	61.95	2808.5	1.89	58.05
145.3	0.75	66.09	694.2	0.11	67.22	1468.4	1.72	65.59	2289.0	2.45	61.22	2808.6	1.84	58.53
145.4	1.00	67.04	694.4	0.20	66.04	1468.6	1.61	64.88	2289.2	2.11	58.44	2808.7	1.84	58.53
145.5	0.88	66.85	694.6	0.26	64.16	1468.8	1.61	64.11	2289.4	2.17	59.80	2808.8	1.97	58.78
145.6	1.14	66.06	694.8	0.22	64.75	1469.0	1.60	63.74	2289.6	2.04	59.30	2808.9	1.97	58.18
145.7	0.70	64.95	695.0	0.24	65.76	1469.2	1.41	64.61	2289.8	2.17	59.06	2809.0	1.45	58.88
145.8	0.73	63.54	695.2	0.24	65.10	1469.4	1.74	65.59	2290.0	2.13	59.89	2809.1	1.63	57.90
145.9	0.75	62.25	695.4	0.32	64.82	1469.6	1.51	65.51	2290.2	2.18	59.13	2809.2	1.64	58.00
146.0	0.69	61.43	695.6	0.36	66.28	1469.8	2.07	65.83	2290.4	2.39	58.55	2809.3	1.49	57.92
146.1	0.91	61.31	695.8	0.17	67.68	1470.0	1.97	66.11	2290.6	1.78	58.88	2809.4	1.73	58.31
146.2	0.77	60.54	696.0	0.22	67.06	1470.2	1.51	65.06	2290.8	2.42	58.46	2809.5	1.50	58.47
146.3	0.80	60.19	696.2	0.22	67.01	1470.4	1.68	64.00	2291.0	2.49	57.75	2809.6	1.48	59.40
146.4	0.75	58.45	696.4	0.24	68.68	1470.6	1.61	63.71	2291.2	3.08	58.13	2809.7	1.81	59.79
146.5	0.75	57.36	696.6	0.35	68.27	1470.8	1.53	63.89	2291.4	2.63	58.07	2809.8	1.83	60.17
146.6	0.73	57.51	696.8	0.30	68.31	1471.0	1.78	63.39	2291.6	3.29	57.59	2809.9	1.95	59.82
146.7	0.82	56.79	697.0	0.62	68.68	1471.2	1.96	63.88	2291.8	2.89	57.23	2810.0	1.79	59.45
146.8	0.82	56.30	697.2	0.25	67.95	1471.4	1.72	63.63	2292.0	3.18	57.22	2810.1	2.04	59.25
146.9	0.68	56.68	697.4	0.44	66.06	1471.6	1.69	63.14	2292.2	2.65	56.74	2810.2	2.07	58.22
147.0	0.70	56.63	697.6	0.26	65.66	1471.8	1.69	63.41	2292.4	2.32	55.82	2810.3	2.03	57.58
147.1	0.64	55.33	697.8	0.18	63.96	1472.0	1.64	63.24	2292.6	3.23	55.11	2810.4	1.82	57.72
147.2	0.76	56.00	698.0	0.17	63.47	1472.2	1.86	62.98	2292.8	3.28	54.60	2810.5	2.08	57.16
147.3	0.65	56.12	698.2	0.13	63.80	1472.4	1.61	63.87	2293.0	3.73	54.22	2810.6	2.04	56.92
147.4	0.74	56.27	698.4	0.14	63.97	1472.6	1.74	63.89	2293.2	3.03	53.83	2810.7	1.84	56.75
147.5	0.71	57.14	698.6	0.13	63.64	1472.8	1.53	63.83	2293.4	3.59	54.15	2810.8	1.74	57.55
147.6	0.83	57.69	698.8	0.12	63.48	1473.0	1.18	63.81	2293.6	3.69	54.18	2810.9	2.01	58.64
147.7	0.75	58.44	699.0	0.12	63.91	1473.2	1.74	64.47	2293.8	2.87	54.18	2811.0	1.87	59.53
147.8	0.77	58.64	699.2	0.51	63.66	1473.4	1.61	64.90	2294.0	2.69	53.83	2811.1	1.76	59.51
147.9	0.89	58.38	699.4	0.17	63.33	1473.6	1.61	65.51	2294.2	2.71	55.03	2811.2	1.86	59.97
148.0	0.80	58.12	699.6	0.23	62.68	1473.8	1.93	65.37	2294.4	2.42	55.04	2811.3	2.21	59.08
148.1	0.73	57.99	699.8	0.17	63.92	1474.0	1.66	65.12	2294.6	2.68	54.70	2811.4	2.14	57.31
148.2	0.87	57.87	700.0	0.22	63.47	1474.2	1.72	65.42	2294.8	2.57	54.57	2811.5	1.79	56.47
148.3	0.86	57.76	700.2	0.20	64.03	1474.4	1.68	63.30	2295.0	2.56	55.06	2811.6	2.10	55.93
148.4	0.92	58.35	700.4	0.19	67.15	1474.6	1.90	62.71	2295.2	2.74	54.06	2811.7	1.76	55.63
148.5	0.89	58.25	700.6	0.40	69.32	1474.8	1.88	65.17	2295.4	2.57	55.14	2811.8	2.13	55.50
148.6	0.90	59.29	700.8	0.48	68.01	1475.0	1.83	68.99	2295.6	2.46	56.23	2811.9	1.97	56.90
148.7	0.88	58.67	701.0	1.05	67.41	1475.2	1.54	68.36	2295.8	2.25	57.38	2812.0	2.20	56.67
148.8	0.85	59.78	701.2	0.44	67.20	1475.4	1.23	69.39	2296.0	2.26	58.88	2812.1	2.06	56.83
148.9	0.92	60.24	701.4	0.40	65.12	1475.6	1.40	69.41	2296.2	2.11	59.54	2812.2	1.68	56.89
149.0	0.92	61.01	701.6	0.29	63.19	1475.8	1.65	66.40	2296.4	2.22	58.96	2812.3	1.74	56.93
149.1	1.07	60.02	701.8	0.39	64.54	1476.0	1.44	62.92	2296.6	2.60	59.07	2812.4	1.81	55.98
149.2	1.02	60.48	702.0	0.12	63.48	1476.2	1.33	62.88	2296.8	2.48	58.33	2812.5	2.29	55.16
149.3	0.94	59.65	702.2	0.10	63.18	1476.4	1.72	63.83	2297.0	2.36	57.42	2812.6	2.95	54.30
149.4	0.92	59.21	702.4	0.14	62.20	1476.6	1.55	63.52	2297.2	2.31	57.09	2812.7	2.58	54.71
149.5	0.92	58.18	702.6	0.15	62.60	1476.8	1.52	64.44	2297.4	2.94	56.77	2812.8	2.15	54.95
149.6	0.91	58.23	702.8	0.14	62.40	1477.0								

150.5	1.10	59.73	704.6	0.16	64.33	1478.8	1.23	63.58	2299.4	2.41	57.49	2813.8	1.65	52.27
150.6	1.30	60.58	704.8	0.16	63.98	1479.0	1.33	65.12	2299.6	2.51	56.38	2813.9	1.91	52.11
150.7	1.21	62.94	705.0	0.20	62.88	1479.2	1.13	65.04	2299.8	2.42	56.18	2814.0	2.19	53.00
150.8	1.25	63.36	705.2	0.20	62.49	1479.4	1.47	66.63	2300.0	2.40	56.07	2814.1	2.03	53.51
150.9	1.38	62.57	705.4	0.24	62.42	1479.6	1.10	66.07	2300.2	2.60	56.02	2814.2	1.70	53.40
151.0	1.07	60.78	705.6	0.19	61.99	1479.8	1.28	66.85	2300.4	2.40	56.11	2814.3	2.08	53.91
151.1	0.88	60.45	705.8	0.21	62.02	1480.0	1.28	66.03	2300.6	2.87	55.95	2814.4	1.80	53.47
151.2	1.24	57.34	706.0	0.27	62.53	1480.2	1.33	66.85	2300.8	2.58	55.68	2814.5	1.99	54.23
151.3	1.15	56.75	706.2	0.22	62.98	1480.4	1.00	65.53	2301.0	2.51	55.73	2814.6	2.12	53.97
151.4	0.94	57.02	706.4	0.29	63.94	1480.6	1.04	66.74	2301.2	2.32	54.88	2814.7	2.57	54.30
151.5	0.90	57.29	706.6	0.34	63.91	1480.8	1.40	65.32	2301.4	2.47	56.73	2814.8	1.81	54.82
151.6	0.98	57.00	706.8	0.33	64.09	1481.0	1.31	65.01	2301.6	2.45	57.12	2814.9	2.04	54.67
151.7	1.00	57.39	707.0	0.19	64.27	1481.2	1.24	65.13	2301.8	2.44	57.50	2815.0	1.99	53.90
151.8	0.89	56.57	707.2	0.27	64.06	1481.4	1.47	65.67	2302.0	2.66	57.58	2815.1	2.09	54.35
151.9	0.87	56.83	707.4	0.49	63.32	1481.6	1.35	64.81	2302.2	2.42	59.09	2815.2	2.02	54.37
152.0	0.90	57.32	707.6	0.40	63.17	1481.8	1.43	64.85	2302.4	2.26	58.00	2815.3	2.09	53.43
152.1	0.96	57.37	707.8	0.47	62.77	1482.0	1.41	65.03	2302.6	2.59	56.84	2815.4	2.18	52.95
152.2	1.23	57.22	708.0	0.39	62.89	1482.2	1.31	63.97	2302.8	2.11	56.76	2815.5	2.14	53.00
152.3	1.33	58.25	708.2	0.33	63.13	1482.4	1.49	64.31	2303.0	2.19	57.00	2815.6	2.27	52.55
152.4	1.28	57.89	708.4	0.26	63.28	1482.6	1.11	64.24	2303.2	2.37	56.87	2815.7	2.24	52.33
152.5	1.54	56.83	708.6	0.27	63.37	1482.8	1.24	66.26	2303.4	2.41	57.32	2815.8	2.26	51.32
152.6	1.48	56.42	708.8	0.26	63.54	1483.0	1.38	66.94	2303.6	2.26	58.51	2815.9	2.07	51.99
152.7	1.40	56.43	709.0	0.19	62.82	1483.2	1.29	67.17	2303.8	2.45	58.55	2816.0	1.94	52.26
152.8	1.44	56.47	709.2	0.16	62.97	1483.4	1.57	67.88	2304.0	2.33	59.13	2816.1	2.05	53.09
152.9	1.18	55.81	709.4	0.19	62.97	1483.6	1.27	68.31	2304.2	2.29	59.52	2816.2	2.06	52.88
153.0	1.31	56.19	709.6	0.22	62.51	1483.8	1.02	68.40	2304.4	2.25	58.75	2816.3	2.23	54.80
153.1	1.42	56.55	709.8	0.37	62.49	1484.0	1.21	68.54	2304.6	2.08	58.67	2816.4	2.26	53.93
153.2	1.60	56.28	710.0	0.42	62.96	1484.2	1.31	69.05	2304.8	2.58	58.31	2816.5	2.00	53.58
153.3	1.57	56.25	710.2	0.49	62.65	1484.4	1.30	67.86	2305.0	2.33	58.19	2816.6	1.75	53.11
153.4	1.81	57.99	710.4	0.29	62.50	1484.6	1.22	68.68	2305.2	2.21	57.60	2816.7	2.07	53.76
153.5	1.62	59.28	710.6	0.25	63.17	1484.8	1.34	67.62	2305.4	2.02	58.04	2816.8	1.54	52.72
153.6	1.68	60.31	710.8	0.19	63.62	1485.0	1.38	66.74	2305.6	2.20	59.68	2816.9	2.26	53.45
153.7	1.63	61.00	711.0	0.18	62.94	1485.2	0.95	66.38	2305.8	2.11	60.95	2817.0	2.32	53.35
153.8	1.38	60.31	711.2	0.59	63.79	1485.4	1.26	66.13	2306.0	2.36	61.17	2817.1	1.22	54.31
153.9	1.29	59.19	711.4	0.23	65.18	1485.6	1.22	65.36	2306.2	2.46	61.56	2817.2	2.03	53.82
154.0	1.09	58.09	711.6	0.31	70.07	1485.8	1.08	64.12	2306.4	2.13	61.51	2817.3	1.91	54.91
154.1	1.64	57.41	711.8	0.22	69.66	1486.0	1.22	64.17	2306.6	2.34	60.20	2817.4	2.01	54.76
154.2	1.43	57.03	712.0	0.27	70.05	1486.2	0.70	64.55	2306.8	2.32	59.43	2817.5	1.72	54.64
154.3	1.58	57.00	712.2	0.24	69.27	1486.4	1.16	65.53	2307.0	2.33	58.66	2817.6	2.03	52.99
154.4	1.38	57.56	712.4	0.19	68.10	1486.6	1.39	65.72	2307.2	2.27	58.61	2817.7	1.97	53.76
154.5	1.51	57.91	712.6	0.21	62.91	1486.8	1.23	67.39	2307.4	2.50	60.33	2817.8	2.14	54.56
154.6	1.56	57.64	712.8	0.25	62.91	1487.0	1.27	67.91	2307.6	2.04	61.28	2817.9	2.09	54.83
154.7	1.54	57.34	713.0	0.25	64.14	1487.2	1.15	67.52	2307.8	2.52	61.12	2818.0	1.86	55.38
154.8	1.76	57.03	713.2	0.48	65.22	1487.4	1.20	66.32	2308.0	2.11	61.77	2818.1	2.12	55.20
154.9	1.45	55.67	713.4	0.39	65.61	1487.6	1.35	66.07	2308.2	1.97	62.03	2818.2	1.99	54.34
155.0	1.32	54.95	713.6	0.27	66.80	1487.8	1.25	65.74	2308.4	2.62	60.68	2818.3	1.91	52.11
155.1	1.26	54.20	713.8	0.29	67.86	1488.0	1.34	66.04	2308.6	2.31	59.79	2818.4	1.96	52.35
155.2	0.98	54.47	714.0	0.30	68.01	1488.2	1.36	66.04	2308.8	1.92	59.69	2818.5	2.06	51.52
155.3	0.98	54.76	714.2	0.21	66.87	1488.4	1.30	66.93	2309.0	2.05	58.67	2818.6	1.85	52.21
155.4	1.09	56.53	714.4	0.33	67.42	1488.6	1.40	66.84	2309.2	2.27	58.39	2818.7	2.01	52.32
155.5	1.12	56.54	714.6	0.56	67.93	1488.8	1.30	65.97	2309.4	2.54	58.24	2818.8	1.80	53.59
155.6	1.24	56.70	714.8	0.68	68.46	1489.0	1.43	65.15	2309.6	2.03	58.27	2818.9	2.03	52.68
155.7	1.15	56.31	715.0	0.44	67.73	1489.2	1.33	65.38	2309.8	2.38	58.00	2819.0	2.08	53.73
155.8	0.91	56.47	715.2	0.42	68.44	1489.4	1.53	64.81	2310.0	2.22	58.80	2819.1	2.18	53.12
155.9	0.82	55.62	715.4	0.23	68.03	1489.6	1.65	65.48	2310.2	2.34	58.48	2819.2	1.67	52.36
156.0	1.15	55.84	715.6	0.36	67.19	1489.8	1.45	66.60	2310.4	2.37	58.65	2819.3	2.07	51.62
156.1	1.16	56.32	715.8	0.14	66.17	1490.0	1.49	67.05	2310.6	2.23	58.18	2819.4	2.28	51.95
156.2	1.17	56.61	716.0	0.11	65.91	1490.2	1.66	67.44	2310.8	2.33	58.82	2819.5	2.02	50.80
156.3	1.50	56.68	716.2	0.22	66.06	1490.4	1.60	68.70	2311.0	2.23	57.78	2819.6	2.18	50.90
156.4	1.10	56.35	716.4	0.18	66.20	1490.6	1.52	68.97	2311.2	2.65	58.70	2819.7	2.38	51.36
156.5	1.15	55.77	716.6	0.26	65.72	1490.8	1.54	68.80	2311.4	2.45	58.31	2819.8	1.92	51.03
156.6	1.07	55.22	716.8	0.26	65.94	1491.0	1.45	67.26	2311.6	1.61	58.24	2819.9	1.98	51.20
156.7	1.17	55.17	717.0	0.35	66.72	1491.2	1.40	65.84	2311.8	2.54	56.99	2820.0	2.11	51.39
156.8	1.07	54.36	717.2	0.14	65.97	1491.4	1.45	64.40	2312.0	2.21	58.04	2820.1	1.91	51.50
156.9	0.87	53.73	717.4	0.23	65.36	1491.6	1.53	63.51	2312.2	2.08	56.87	2820.2	2.45	51.39
157.0	0.82	53.85	717.6	0.14	65.22	1491.8	1.68	62.88	2312.4	2.49	56.27	2820.3	2.22	51.02
157.1	0.77	53.87	717.8	0.17	65.13	1492.0	1.78	63.55	2312.6	2.25	56.22	2820.4	2.25	51.04
157.2	0.87	53.57	718.0	0.14	63.33	1492.2	1.67	64.68	2312.8	2.17	56.69	2820.5	2.37	51.27
157.3	0.98	54.10	718.2	0.11	65.36	1492.4	1.72	64.07	2313.0	2.39	55.92	2820.6	2.35	51.67
157.4	1.17	54.82	718.4	0.11	65.81	1492.6	1.83	63.66	2313.2	2.28	56.52	2820.7	1.28	52.64
157.5	0.97	55.34	718.6	0.15	66.62	1492.8	1.48	62.47	2313.4	2.43	57.41	2820.8	2.37	54.13
157.6	1.08	55.67	718.8	0.33	67.06	1493.0	1.56	62.45	2313.6	2.34	57.71	2820.9	2.36	54.60
157.7	1.01	55.51	719.0	0.32	67.85	1493.2								

158.6	1.11	56.23	720.8	0.25	67.01	1500.0	2.04	65.52	2315.6	2.19	56.78	2821.9	1.96	56.85
158.7	0.97	56.04	721.0	0.18	68.23	1500.2	1.56	64.09	2315.8	2.30	57.71	2822.0	1.82	56.33
158.8	0.99	55.10	721.2	0.29	67.78	1500.4	1.72	62.37	2316.0	2.39	58.45	2822.1	1.88	55.90
158.9	0.95	54.93	721.4	0.55	67.89	1500.6	0.88	61.31	2316.2	2.45	56.52	2822.2	1.92	55.73
159.0	1.12	55.52	721.6	0.89	67.85	1500.8	1.82	61.88	2316.4	2.46	55.52	2822.3	2.04	59.60
159.1	1.06	55.39	721.8	0.39	66.54	1501.0	1.70	61.76	2316.6	2.42	55.61	2822.4	2.15	64.95
159.2	1.07	56.00	722.0	0.22	65.45	1501.2	2.08	62.35	2316.8	2.18	54.19	2822.6	1.81	66.48
159.3	1.08	56.19	722.2	0.10	68.11	1501.4	1.68	62.93	2317.0	2.34	55.23	2822.7	1.91	65.92
159.4	1.03	56.20	722.4	0.17	69.24	1501.6	1.49	62.28	2317.2	2.31	56.69	2822.8	1.95	65.25
159.5	1.11	55.55	722.6	0.15	68.67	1501.8	1.52	61.99	2317.4	2.20	57.56	2822.9	1.39	60.26
159.6	1.08	55.36	722.8	0.21	68.21	1502.0	1.66	63.48	2317.6	2.29	58.31	2823.0	1.66	54.99
159.7	0.99	54.73	723.0	0.30	70.36	1502.2	1.64	63.01	2317.8	2.49	58.69	2823.1	1.86	54.23
159.8	1.06	55.04	723.2	0.63	67.77	1502.4	1.59	63.03	2318.0	2.37	57.84	2823.2	1.79	54.68
159.9	0.84	54.63	723.4	0.99	67.39	1502.6	1.43	63.22	2318.2	2.30	57.02	2823.3	1.45	56.29
160.0	0.71	54.32	723.6	2.13	68.97	1502.8	1.61	62.68	2318.4	2.49	56.93	2823.4	1.61	56.81
160.1	0.85	54.16	723.8	1.56	71.80	1503.0	1.64	61.29	2318.6	2.46	56.61	2823.5	1.43	56.54
160.2	0.82	54.15	724.0	1.83	70.28	1503.2	1.92	61.62	2318.8	2.30	56.20	2823.6	1.67	56.68
160.3	0.71	53.56	724.2	0.73	70.20	1503.4	1.75	61.57	2319.0	2.23	56.25	2823.7	1.85	55.74
160.4	0.85	53.34	724.4	1.70	68.94	1503.6	1.43	62.11	2319.2	2.17	56.53	2823.8	1.54	54.54
160.5	0.86	53.96	724.6	0.73	68.04	1503.8	1.64	61.84	2319.4	2.30	56.07	2823.9	1.01	54.39
160.6	0.60	55.01	724.8	0.37	65.15	1504.0	1.58	61.68	2319.6	1.94	55.59	2824.0	1.89	55.89
160.7	1.01	55.89	725.0	0.26	63.82	1504.2	1.74	61.43	2319.8	2.16	55.48	2824.1	1.95	54.62
160.8	0.79	56.89	725.2	0.22	63.86	1504.4	1.78	60.98	2320.0	1.49	55.18	2824.2	1.87	55.90
160.9	1.00	60.54	725.4	0.28	64.17	1504.6	1.85	60.36	2320.2	2.52	54.83	2824.3	1.92	56.20
161.0	0.98	66.88	725.6	0.46	63.85	1504.8	1.81	60.44	2320.4	2.16	54.64	2824.4	1.78	55.48
161.1	0.98	68.86	725.8	0.34	64.22	1505.0	1.92	59.30	2320.6	2.17	55.11	2824.5	1.84	53.88
161.2	1.03	69.00	726.0	0.36	66.12	1505.2	2.02	59.05	2320.8	2.15	55.36	2824.6	1.92	54.25
161.3	1.09	68.91	726.2	0.71	65.57	1505.4	1.97	59.29	2321.0	2.54	55.37	2824.7	1.88	53.43
161.4	0.94	65.61	726.4	1.32	63.71	1505.6	2.15	59.40	2321.2	2.34	54.96	2824.8	1.75	53.20
161.5	0.99	59.60	730.0	1.21	62.53	1505.8	1.81	59.29	2321.4	1.51	55.34	2824.9	1.61	53.46
161.6	1.02	57.53	730.2	0.47	63.15	1506.0	1.90	59.50	2321.6	2.41	54.92	2825.0	1.83	53.22
161.7	0.92	56.86	730.4	0.39	64.91	1506.2	1.97	59.02	2321.8	2.40	54.59	2825.1	2.06	53.96
161.8	0.82	56.70	730.6	0.48	69.17	1506.4	1.94	58.53	2322.0	1.92	54.39	2825.2	1.89	54.75
161.9	0.98	57.59	730.8	0.30	73.93	1506.6	2.03	58.37	2322.2	2.50	54.32	2825.3	2.01	54.33
162.0	0.90	57.40	731.0	0.16	75.27	1506.8	2.00	57.82	2322.4	2.02	54.08	2825.4	1.86	55.01
162.1	1.00	58.07	731.2	0.19	74.81	1507.0	1.85	58.40	2322.6	2.03	54.35	2825.5	1.71	56.88
162.2	0.89	58.74	731.4	0.17	72.43	1507.2	1.71	58.89	2322.8	2.50	56.17	2825.6	1.88	55.73
162.3	0.76	59.10	731.6	0.14	69.81	1507.4	2.18	58.91	2323.0	2.80	57.18	2825.7	1.48	55.02
162.4	1.08	58.82	731.8	0.14	66.79	1507.6	2.08	63.74	2323.2	2.23	58.27	2825.8	1.33	55.05
162.5	0.76	58.74	732.0	0.17	65.12	1507.8	1.89	68.53	2323.4	2.49	60.31	2825.9	1.79	54.01
162.6	1.01	58.32	732.2	0.25	63.59	1519.6	1.50	72.42	2323.6	1.82	61.55	2826.0	1.95	52.25
162.7	0.78	59.87	732.4	0.35	60.49	1519.8	1.62	75.78	2323.8	2.29	60.50	2826.1	1.82	53.12
162.8	0.93	60.62	732.6	0.19	58.57	1520.0	1.76	80.58	2324.0	2.46	59.96	2826.2	1.92	54.03
162.9	1.09	60.44	732.8	0.17	56.44	1520.2	1.71	79.14	2324.2	2.56	59.33	2826.3	1.70	54.27
163.0	1.01	60.63	733.0	0.16	55.64	1520.4	1.88	78.45	2324.4	2.25	57.71	2826.4	1.75	55.22
163.1	1.01	60.72	733.2	0.15	55.54	1520.6	1.65	78.24	2324.6	2.14	57.30	2826.5	1.79	55.37
163.2	0.99	58.92	733.4	0.18	57.01	1520.8	1.53	78.14	2324.8	1.94	57.64	2826.6	1.79	55.49
163.3	0.98	59.79	733.6	0.19	58.10	1521.0	1.80	76.71	2325.0	2.06	58.34	2826.7	2.14	54.66
163.4	1.10	59.39	733.8	0.20	59.12	1521.2	1.76	77.53	2325.2	1.91	59.66	2826.8	1.18	54.63
163.5	0.96	59.85	734.0	0.26	60.15	1521.4	1.70	78.29	2325.4	1.96	60.16	2826.9	1.69	54.54
163.6	1.06	61.27	734.2	0.30	60.08	1521.6	1.79	77.49	2325.6	2.18	60.47	2827.0	1.83	54.48
163.7	0.93	60.85	734.4	0.39	59.60	1521.8	1.64	78.10	2325.8	2.37	60.53	2827.1	1.64	54.31
163.8	0.92	58.97	734.6	0.28	58.91	1522.0	1.90	77.84	2326.0	2.04	59.87	2827.2	1.75	54.14
163.9	1.03	59.67	734.8	0.24	58.55	1522.2	1.90	78.16	2326.2	2.15	59.37	2827.3	1.84	54.33
164.0	0.94	59.63	735.0	0.17	58.27	1522.4	1.70	79.19	2326.4	2.14	60.25	2827.4	1.87	54.07
164.1	1.11	58.12	735.2	0.15	58.28	1522.6	1.61	80.27	2326.6	2.10	59.81	2827.5	1.62	54.21
164.2	0.93	59.05	735.4	0.12	59.11	1522.8	1.61	80.04	2326.8	2.15	59.65	2827.6	1.81	54.24
164.3	1.07	59.10	735.6	0.13	58.29	1523.0	1.67	80.99	2327.0	2.30	60.69	2827.7	1.73	54.80
164.4	1.01	58.83	735.8	0.15	57.88	1523.2	1.75	80.04	2327.2	2.38	60.32	2827.8	1.68	54.41
164.5	1.01	58.60	736.0	0.37	57.02	1523.4	1.51	77.84	2327.4	2.36	59.44	2827.9	1.77	54.63
164.6	0.94	58.90	736.2	0.29	57.02	1523.6	1.85	77.74	2327.6	2.32	60.90	2828.0	1.71	53.90
164.7	0.88	58.83	736.4	0.23	56.56	1523.8	1.73	78.06	2327.8	2.05	61.75	2828.1	1.81	54.00
164.8	0.87	58.70	736.6	0.21	58.16	1524.0	1.55	77.46	2328.0	1.60	60.97	2828.2	1.76	53.99
164.9	1.00	58.03	736.8	0.19	59.47	1524.2	0.98	78.73	2328.2	1.92	61.62	2828.3	2.04	55.13
165.0	1.00	57.89	737.0	0.47	62.95	1524.4	1.79	82.04	2328.4	2.09	61.67	2828.4	1.74	54.59
165.1	1.02	57.30	737.2	0.11	64.97	1524.6	1.44	85.62	2328.6	2.35	60.62	2828.5	1.81	55.46
165.2	1.07	56.66	737.4	0.19	65.86	1524.8	1.16	89.11	2328.8	1.98	61.15	2828.6	1.74	55.40
165.3	0.94	57.35	737.6	0.09	67.16	1525.0	1.59	91.74	2329.0	1.85	61.86	2828.7	1.47	55.23
165.4	1.00	58.27	737.8	0.33	65.11	1525.2	1.60	92.61	2329.2	2.03	61.04	2828.8	1.90	54.58
165.5	0.80	57.93	738.0	0.51	62.58	1526.8	1.53	96.61	2329.4	2.03	61.66	2828.9	1.92	54.75
165.6	1.03	57.43	738.2	0.89	61.74	1527.0	1.70	98.87	2329.6	1.83	61.25	2829.0	1.73	54.08
165.7	0.92	56.98	738.4	0.20	60.37	1527.2	1.80	95.59	2329.8	2.27	60.31	2829.1	1.68	53.77
165.8	1.04	56.03	738.6	0.25	58.55	1527.4								

166.7	1.10	55.68	740.4	0.59	68.50	1529.2	1.87	72.20	2331.8	2.26	59.19	2830.1	1.62	58.65
166.8	1.03	54.67	740.6	0.20	66.98	1529.4	1.24	73.59	2332.0	2.27	59.49	2830.2	1.64	58.87
166.9	1.05	54.71	740.8	0.19	65.22	1529.6	1.50	75.22	2332.2	1.84	58.76	2830.3	1.58	59.77
167.0	1.03	55.13	741.0	0.33	65.63	1529.8	1.58	76.84	2332.4	2.10	58.80	2830.4	1.49	59.43
167.1	1.20	55.67	741.2	0.39	67.14	1530.0	1.66	77.61	2332.6	2.23	59.44	2830.5	1.69	59.61
167.2	1.00	55.71	741.4	0.08	63.95	1530.2	1.68	78.95	2332.8	1.96	60.73	2830.6	1.71	59.93
167.3	1.04	56.08	741.6	0.13	63.15	1530.4	1.23	77.70	2333.0	2.26	60.02	2830.7	1.63	59.77
167.4	0.98	56.82	741.8	0.17	62.70	1530.6	1.75	75.99	2333.2	2.38	59.85	2830.8	1.42	59.51
167.5	0.96	56.76	742.0	0.17	63.07	1530.8	1.59	76.26	2333.4	2.18	58.92	2830.9	1.57	59.42
167.6	0.98	56.37	742.2	0.13	61.98	1531.0	1.79	75.57	2333.6	2.22	58.51	2831.0	1.51	58.44
167.7	1.07	56.73	742.4	0.09	60.04	1531.2	1.84	75.27	2333.8	2.42	56.77	2831.1	1.59	57.53
167.8	1.03	56.73	742.6	0.18	61.62	1531.4	1.77	76.50	2334.0	2.18	61.67	2831.2	1.48	57.61
167.9	1.09	56.23	742.8	0.26	62.20	1531.6	2.14	77.35	2334.2	2.28	63.14	2831.3	1.58	57.26
168.0	1.08	55.45	743.0	0.10	60.91	1531.8	1.77	76.89	2334.4	2.10	72.08	2831.4	1.63	57.73
168.1	1.15	55.15	743.2	0.18	58.28	1532.0	1.71	77.91	2334.6	2.04	82.54	2831.5	1.54	58.10
168.2	0.82	54.92	743.4	0.12	59.71	1532.2	1.65	77.72	2334.8	2.03	82.70	2831.6	1.20	57.89
168.3	0.79	54.56	743.6	0.11	58.44	1532.4	1.67	75.42	2335.0	1.68	78.29	2831.7	1.59	57.36
168.4	0.95	54.64	743.8	0.13	59.39	1532.6	1.78	75.62	2335.6	2.16	76.90	2831.8	0.99	57.33
168.5	1.03	54.71	744.0	0.12	60.97	1532.8	1.84	76.12	2335.8	2.02	69.67	2831.9	1.58	56.51
168.6	1.09	55.31	744.2	0.11	61.68	1533.0	1.93	76.95	2336.0	1.96	63.80	2832.0	1.62	56.71
168.7	1.06	54.68	744.4	0.18	60.83	1533.2	1.55	77.42	2336.2	2.22	63.98	2832.1	1.65	57.55
168.8	1.02	54.36	744.6	0.26	60.60	1533.4	1.64	78.70	2336.4	2.31	64.89	2832.2	1.37	58.30
168.9	0.81	53.73	744.8	0.14	59.07	1533.6	1.46	79.12	2336.6	2.41	65.56	2832.3	1.68	59.55
169.0	0.79	53.59	745.0	0.11	57.77	1533.8	1.99	79.66	2336.8	1.95	64.82	2832.4	1.52	59.99
169.1	0.98	53.16	745.2	0.15	57.09	1534.0	1.70	78.47	2337.0	2.17	60.41	2832.5	1.60	59.33
169.2	1.17	54.02	745.4	0.13	56.58	1534.2	1.79	79.86	2337.2	1.81	60.55	2832.6	1.72	59.31
169.3	1.26	55.09	745.6	0.08	55.89	1534.4	2.21	80.69	2337.4	2.19	59.39	2832.7	1.64	59.04
169.4	1.13	55.69	745.8	0.07	55.96	1534.6	1.86	80.56	2337.6	2.02	59.07	2832.8	1.59	58.07
169.5	1.35	56.91	746.0	0.10	57.42	1534.8	1.83	81.56	2337.8	2.53	58.53	2832.9	1.62	57.45
169.6	1.25	56.78	746.2	0.15	58.65	1535.0	1.90	82.69	2338.0	2.26	59.29	2833.0	1.56	58.90
169.7	1.16	56.69	746.4	0.10	60.31	1535.2	1.35	82.23	2338.2	2.25	59.45	2833.1	1.68	58.06
169.8	1.26	55.96	746.6	0.15	63.07	1535.4	1.59	82.19	2338.4	2.05	61.98	2833.2	1.47	58.26
169.9	1.11	55.72	746.8	0.18	63.63	1535.6	1.90	82.36	2338.6	1.98	67.87	2833.3	1.62	57.88
170.0	1.36	55.20	747.0	0.27	63.23	1535.8	1.70	80.46	2338.8	2.24	68.37	2833.4	1.59	58.91
170.1	1.18	55.56	747.2	0.23	64.10	1536.0	1.88	79.59	2339.0	2.26	69.63	2833.5	1.96	58.87
170.2	1.18	55.07	747.4	0.13	65.39	1536.2	1.67	78.66	2339.2	2.03	76.38	2833.6	2.08	59.70
170.3	1.14	55.61	747.6	0.09	65.19	1536.4	1.31	79.68	2339.4	1.89	74.82	2833.7	1.70	59.55
170.4	1.04	55.67	747.8	0.15	65.21	1536.6	1.81	80.34	2339.6	1.94	70.05	2833.8	1.86	60.50
170.5	1.22	55.41	748.0	0.17	63.87	1536.8	1.77	80.60	2340.0	2.09	72.05	2833.9	2.08	60.36
170.6	1.00	55.39	748.2	0.19	62.43	1537.0	1.86	81.37	2340.2	2.12	72.98	2834.0	1.77	60.06
170.7	1.12	56.49	748.4	0.14	59.33	1537.2	1.57	82.44	2340.4	2.06	68.20	2834.1	1.71	59.95
170.8	1.17	56.10	748.6	0.15	59.17	1537.4	1.67	81.79	2340.6	2.15	69.52	2834.2	1.80	60.75
170.9	1.31	56.74	748.8	0.12	60.81	1537.6	1.79	81.22	2340.8	2.10	71.53	2834.3	1.64	60.79
171.0	1.23	57.38	749.0	0.12	61.89	1537.8	1.32	81.84	2341.0	2.13	71.52	2834.4	1.94	60.65
171.1	1.24	57.94	749.2	0.21	61.61	1538.0	1.80	81.85	2341.2	1.87	71.55	2834.5	1.76	60.01
171.2	1.51	57.61	749.4	0.15	62.41	1538.2	1.70	81.05	2341.4	2.13	70.41	2834.6	2.01	60.04
171.3	1.50	58.01	749.6	0.31	63.58	1538.4	1.89	81.48	2341.6	1.99	70.77	2834.7	1.90	59.87
171.4	1.26	57.05	749.8	0.25	63.37	1538.6	1.60	82.55	2341.8	1.98	69.92	2834.8	2.16	59.04
171.5	1.34	55.85	750.0	0.18	63.77	1538.8	1.75	83.92	2342.0	1.87	70.78	2834.9	1.65	58.88
171.6	1.39	55.00	750.2	0.23	63.50	1539.0	1.70	83.90	2342.2	1.83	69.04	2835.0	1.93	59.09
171.7	1.47	53.94	750.4	0.18	63.77	1539.2	1.66	84.41	2342.4	1.84	68.17	2835.1	1.86	58.90
171.8	1.27	53.16	750.6	0.22	61.39	1539.4	1.74	84.27	2342.6	1.85	66.58	2835.2	1.89	58.43
171.9	1.38	52.52	750.8	0.24	59.48	1539.6	1.52	83.16	2342.8	1.84	64.95	2835.3	2.04	59.59
172.0	1.28	52.67	751.0	0.28	59.32	1539.8	1.67	81.39	2343.0	1.88	62.15	2835.4	2.21	59.08
172.1	1.03	53.06	751.2	0.32	59.16	1540.0	1.62	80.95	2343.2	1.70	61.32	2835.5	2.12	58.80
172.2	1.25	52.97	751.4	0.30	60.19	1540.2	1.59	80.23	2343.4	2.20	61.54	2835.6	2.09	58.50
172.3	1.33	53.78	751.6	0.21	61.10	1540.4	1.93	79.40	2343.6	1.96	62.08	2835.7	2.02	57.75
172.4	1.26	54.73	751.8	0.14	62.44	1540.6	1.71	81.36	2343.8	2.00	62.60	2835.8	2.05	56.24
172.5	1.01	54.87	752.0	0.19	61.68	1540.8	1.46	81.09	2344.0	1.83	62.47	2835.9	2.06	56.61
172.6	1.27	55.08	752.2	0.13	61.49	1541.0	1.61	82.20	2344.2	1.88	63.28	2836.0	1.39	56.56
172.7	1.29	55.77	752.4	0.17	60.95	1541.2	1.78	82.39	2344.4	2.11	63.96	2836.1	1.55	56.72
172.8	1.19	55.22	752.6	0.12	61.41	1541.4	1.53	82.45	2344.6	1.88	63.08	2836.2	1.95	56.85
172.9	1.23	54.67	752.8	0.09	60.68	1541.6	1.69	79.72	2344.8	1.47	63.72	2836.3	2.00	57.79
173.0	1.18	54.90	753.0	0.10	59.61	1541.8	1.60	80.02	2345.0	2.09	63.75	2836.4	1.96	58.99
173.1	1.12	53.79	753.2	0.20	59.78	1542.0	1.62	78.96	2345.2	1.89	63.75	2836.5	1.37	59.59
173.2	1.21	53.37	753.4	0.22	59.17	1542.2	1.41	78.90	2345.4	2.10	62.81	2836.6	1.88	61.94
173.3	1.06	53.17	753.6	0.19	58.02	1542.4	1.44	79.57	2345.6	2.03	63.57	2836.7	2.03	63.45
173.4	1.43	54.57	753.8	0.11	59.18	1542.6	1.62	80.84	2345.8	2.32	61.79	2836.8	2.07	64.27
173.5	1.18	54.75	754.0	0.14	60.89	1542.8	1.69	81.19	2346.0	2.02	62.32	2836.9	1.71	63.71
173.6	1.25	55.25	754.2	0.18	62.70	1543.0	1.58	82.16	2346.2	1.95	62.60	2837.0	1.99	62.98
173.7	1.29	55.29	754.4	0.18	65.55	1543.2	1.78	83.44	2346.4	1.90	63.29	2837.1	1.65	60.59
173.8	1.19	55.41	754.6	0.22	66.24	1543.4	1.76	82.61	2346.6	1.84	62.89	2837.2	1.81	59.63
173.9	1.26	54.36	754.8	0.16	65.48	1543.6								

174.8	1.21	54.32	756.6	0.11	58.86	1545.4	1.67	82.08	2348.6	1.99	62.02	2838.2	1.86	59.84
174.9	1.30	54.90	756.8	0.08	58.46	1545.6	1.73	82.31	2348.8	2.08	63.18	2838.3	1.46	62.34
175.0	1.13	54.72	757.0	0.11	59.60	1545.8	1.90	82.67	2349.0	2.44	62.52	2838.4	1.89	65.52
175.1	1.11	55.53	757.2	0.23	59.77	1546.0	1.64	81.21	2349.2	2.40	63.17	2838.5	1.58	65.75
175.2	1.12	55.88	757.4	0.20	60.01	1546.2	1.64	80.39	2349.4	2.36	61.05	2838.6	1.69	65.53
175.3	1.04	55.77	757.6	0.21	61.02	1546.4	1.88	79.10	2349.6	2.63	60.72	2838.7	1.64	66.31
175.4	1.13	55.58	757.8	0.14	60.55	1546.6	1.78	78.61	2349.8	2.34	60.84	2838.8	1.70	62.98
175.5	1.31	56.05	758.0	0.10	58.08	1546.8	1.79	75.07	2350.0	2.60	61.76	2838.9	1.88	59.59
175.6	1.12	55.49	758.2	0.28	56.95	1547.0	1.98	76.08	2350.2	2.59	61.15	2839.0	1.81	59.84
175.7	1.16	54.88	758.4	0.27	57.42	1547.2	1.78	76.12	2350.4	2.12	62.08	2839.1	1.76	60.33
175.8	1.16	55.53	758.6	0.17	56.26	1547.4	1.90	75.54	2350.6	2.81	63.29	2839.2	1.43	59.60
175.9	0.90	55.65	758.8	0.15	55.93	1547.6	1.94	76.10	2350.8	1.69	62.17	2839.3	1.75	60.28
176.0	1.19	55.81	759.0	0.10	57.38	1547.8	1.84	75.58	2351.0	2.31	61.28	2839.4	1.78	60.51
176.1	1.13	55.82	759.2	0.09	58.16	1548.0	1.85	75.45	2351.2	1.99	61.67	2839.5	1.77	59.94
176.2	1.17	56.80	759.4	0.08	60.04	1548.2	1.69	75.01	2351.4	2.12	60.96	2839.6	1.87	59.43
176.3	1.21	57.89	759.6	0.16	59.72	1548.4	1.85	75.18	2351.6	2.40	59.71	2839.7	1.42	59.16
176.4	1.28	58.79	759.8	0.17	60.46	1548.6	1.66	75.17	2351.8	2.27	59.77	2839.8	1.87	58.20
176.5	1.37	59.91	760.0	0.19	60.29	1548.8	1.43	76.04	2352.0	2.20	60.45	2839.9	1.65	58.06
176.6	1.38	59.75	760.2	0.13	59.71	1549.0	1.03	75.62	2352.2	2.03	60.15	2840.0	1.77	58.10
176.7	1.19	60.28	760.4	0.11	59.34	1549.2	1.65	75.42	2352.4	2.04	60.33	2840.1	1.56	57.52
176.8	1.21	59.62	760.6	0.10	59.70	1549.4	1.49	76.20	2352.6	2.26	61.28	2840.2	1.77	57.04
176.9	1.26	58.74	760.8	0.09	58.14	1549.6	1.54	76.52	2352.8	2.17	61.37	2840.3	1.69	56.57
177.0	1.06	57.52	761.0	0.16	57.95	1549.8	1.65	76.45	2353.0	1.97	60.81	2840.4	1.64	55.84
177.1	1.23	56.99	761.2	0.09	57.98	1550.0	1.43	77.21	2353.2	1.06	61.20	2840.5	1.66	55.69
177.2	1.38	56.88	761.4	0.06	57.56	1550.2	1.55	78.30	2353.4	1.85	61.27	2840.6	1.85	56.55
177.3	1.31	56.52	761.6	0.18	57.53	1550.4	1.80	78.29	2353.6	2.39	60.98	2840.7	1.57	56.67
177.4	1.30	56.28	761.8	0.11	58.96	1550.6	1.73	78.44	2353.8	1.85	68.98	2840.8	1.71	57.02
177.5	1.31	56.11	762.0	0.09	60.14	1550.8	1.69	79.10	2354.0	2.30	69.87	2840.9	1.77	56.94
177.6	1.32	56.70	762.2	0.06	59.73	1551.0	1.80	79.14	2354.2	2.35	69.87	2841.0	1.84	56.59
177.7	1.11	55.31	762.4	0.21	59.04	1551.2	1.76	79.75	2354.4	2.09	70.23	2841.1	1.82	55.67
177.8	1.19	55.88	762.6	0.18	57.59	1551.4	1.67	79.56	2354.6	2.23	69.88	2841.2	1.99	55.74
177.9	1.25	56.49	762.8	0.13	56.48	1551.6	1.08	79.63	2354.8	2.25	63.20	2841.3	1.70	56.37
178.0	1.25	56.88	763.0	0.10	55.74	1551.8	1.67	79.16	2355.0	2.29	63.05	2841.4	1.04	56.94
178.1	1.31	56.81	763.2	0.11	55.36	1552.0	1.60	78.72	2355.2	2.05	63.90	2841.5	1.64	57.47
178.2	1.30	57.18	763.4	0.10	54.71	1552.2	1.68	77.79	2355.4	2.00	65.57	2841.6	1.86	58.32
178.3	1.14	55.83	763.6	0.09	55.15	1552.4	1.66	77.11	2355.6	2.05	66.79	2841.7	1.78	58.98
178.4	1.01	55.72	763.8	0.10	55.25	1552.6	1.78	76.74	2355.8	1.89	66.71	2841.8	1.71	58.83
178.5	1.06	56.01	764.0	0.11	56.07	1552.8	1.74	75.97	2356.0	1.86	67.24	2841.9	1.72	58.34
178.6	1.15	56.15	764.2	0.11	55.81	1553.0	1.67	75.92	2356.2	2.18	67.05	2842.0	1.88	59.00
178.7	1.36	56.78	764.4	0.12	55.80	1553.2	1.55	76.05	2356.4	2.09	65.23	2842.1	2.01	58.14
178.8	1.23	57.35	764.6	0.17	55.35	1553.4	1.81	76.09	2356.6	1.83	65.02	2842.2	1.81	57.92
178.9	1.28	56.58	764.8	0.12	57.58	1553.6	1.82	75.37	2356.8	2.10	64.55	2842.3	1.42	57.59
179.0	1.28	56.94	765.0	0.12	57.85	1553.8	1.75	74.21	2357.0	1.87	63.23	2842.4	1.90	56.84
179.1	1.24	56.68	765.2	0.22	59.09	1554.0	1.50	74.04	2357.2	1.91	62.70	2842.5	1.73	56.24
179.2	1.32	55.93	765.4	0.20	60.76	1554.2	1.83	73.47	2357.4	2.21	62.89	2842.6	2.05	56.28
179.3	1.13	55.69	765.6	0.20	61.35	1554.4	1.95	73.32	2357.6	1.98	63.98	2842.7	1.90	55.95
179.4	1.24	56.17	765.8	0.21	60.10	1554.6	1.71	73.24	2357.8	1.99	64.05	2842.8	1.70	55.39
179.5	0.91	55.91	766.0	0.33	59.93	1554.8	1.61	74.29	2358.0	2.19	65.80	2842.9	1.91	56.89
179.6	0.85	56.67	766.2	0.17	59.31	1555.0	1.86	75.05	2358.2	1.56	65.75	2843.0	1.91	56.80
179.7	1.26	56.56	766.4	0.16	58.46	1555.2	1.80	77.45	2358.4	1.67	66.11	2843.1	1.65	56.54
179.8	1.27	56.15	766.6	0.21	59.68	1555.4	1.49	78.47	2358.6	1.70	63.64	2843.2	2.00	56.55
179.9	1.30	56.15	766.8	0.12	62.67	1555.6	1.47	78.61	2358.8	2.12	62.87	2843.3	1.99	56.56
180.0	1.33	55.29	767.0	0.11	61.58	1555.8	1.39	79.57	2359.0	2.13	61.56	2843.4	2.01	55.82
180.1	1.30	55.67	767.2	0.12	63.96	1556.0	1.44	79.77	2359.2	2.09	60.55	2843.5	2.02	54.74
180.2	1.29	57.71	767.4	0.23	66.65	1556.2	1.87	78.64	2359.4	1.94	60.16	2843.6	1.73	54.23
180.3	1.34	58.21	767.6	0.10	67.00	1556.4	1.28	79.61	2359.6	2.33	60.96	2843.7	1.81	54.11
180.4	1.30	58.43	767.8	0.12	63.65	1556.6	1.30	79.87	2359.8	2.44	60.97	2843.8	2.03	54.26
180.5	1.17	59.49	768.0	0.22	63.68	1556.8	1.80	79.68	2360.0	2.01	60.02	2843.9	2.03	55.11
180.6	1.24	58.68	768.2	0.20	61.70	1557.0	1.38	78.91	2360.2	2.49	60.21	2844.0	1.96	56.32
180.7	1.38	57.20	768.4	0.19	58.92	1557.2	1.40	79.55	2360.4	1.99	59.52	2844.1	1.98	57.77
180.8	0.95	59.34	768.6	0.14	56.87	1557.4	1.63	78.98	2360.6	1.80	57.99	2844.2	2.03	58.90
180.9	1.28	59.41	768.8	0.16	56.37	1557.6	1.64	79.16	2360.8	1.74	57.30	2844.3	1.67	58.97
181.0	1.10	58.31	769.0	0.10	57.08	1557.8	1.64	78.72	2361.0	2.08	56.95	2844.4	2.01	58.01
181.1	1.28	58.05	769.2	0.15	56.25	1558.0	1.68	79.19	2361.2	2.13	57.98	2844.5	1.86	57.43
181.2	1.20	58.46	769.4	0.29	55.00	1558.2	1.60	78.30	2361.4	1.43	58.76	2844.6	2.08	57.63
181.3	1.38	56.56	769.6	0.19	55.97	1558.4	1.67	78.09	2369.6	2.15	60.35	2844.7	2.03	56.45
181.4	1.30	58.18	769.8	0.25	56.27	1558.6	1.41	77.77	2369.8	2.45	62.69	2844.8	1.76	57.28
181.5	1.13	57.97	770.0	0.23	55.75	1558.8	1.57	77.46	2370.0	2.30	65.80	2844.9	1.66	58.01
181.6	1.38	61.55	770.2	0.13	55.70	1559.0	1.73	83.24	2370.2	2.40	66.77	2845.0	1.76	58.90
181.7	1.15	62.88	770.4	0.13	56.86	1559.2	1.63	83.13	2370.4	2.03	67.13	2845.1	1.78	58.80
181.8	1.32	62.64	770.6	0.19	56.52	1559.4	1.11	82.50	2370.6	2.08	68.13	2845.2	1.80	59.06
181.9	1.08	61.42	770.8	0.08	55.70	1559.6	1.60	83.58	2370.8	2.18	67.89	2845.3	1.89	57.99
182.0	1.36	62.00	771.0	0.07	54.73	1559.8								

182.9	1.15	55.29	772.8	0.16	60.30	1561.6	1.67	74.54	2372.8	2.09	68.29	2846.3	1.76	59.32
183.0	1.24	56.65	773.0	0.41	59.26	1561.8	1.72	74.10	2373.0	1.81	68.11	2846.4	1.92	58.83
183.1	1.18	56.90	773.2	0.40	60.19	1562.0	1.49	73.53	2373.2	1.92	67.43	2846.5	1.85	59.29
183.2	1.16	57.55	773.4	0.10	58.55	1562.2	1.72	74.70	2373.4	1.81	67.24	2846.6	1.68	58.74
183.3	1.30	57.56	773.6	0.11	58.08	1562.4	1.80	76.21	2373.6	2.08	67.36	2846.7	1.71	59.30
183.4	1.23	57.83	773.8	0.20	57.95	1562.6	1.53	76.17	2373.8	2.07	68.13	2846.8	1.70	58.58
183.5	1.19	57.39	774.0	0.12	57.81	1562.8	1.81	76.15	2374.0	2.00	67.81	2846.9	1.94	60.39
183.6	1.23	57.45	774.2	0.20	57.18	1563.0	1.74	76.12	2374.2	1.84	66.69	2847.0	1.42	60.08
183.7	1.27	57.55	774.4	0.11	57.98	1563.2	1.47	75.98	2374.4	1.93	67.04	2847.1	1.08	60.07
183.8	1.20	58.12	774.6	0.10	58.18	1563.4	1.46	77.13	2374.6	2.09	66.63	2847.2	1.70	59.01
183.9	1.34	58.78	774.8	0.14	58.97	1563.6	1.84	76.13	2374.8	2.18	65.85	2847.3	1.61	59.17
184.0	1.34	58.93	775.0	0.20	58.70	1563.8	1.86	76.01	2375.0	1.89	65.47	2847.4	1.82	57.58
184.1	1.28	57.73	775.2	0.23	58.17	1564.0	1.74	76.31	2375.2	2.26	65.51	2847.5	1.80	57.20
184.2	1.25	58.43	775.4	0.27	56.68	1564.2	1.89	76.63	2375.4	1.96	65.00	2847.6	1.97	56.49
184.3	1.19	58.86	775.6	0.17	56.91	1564.4	1.63	75.56	2375.6	2.29	65.50	2847.7	1.73	57.22
184.4	1.29	58.87	775.8	0.16	55.64	1564.6	1.78	75.51	2375.8	2.24	65.38	2847.8	1.85	56.30
184.5	1.38	57.81	776.0	0.16	56.38	1564.8	1.80	76.16	2376.0	2.28	64.95	2847.9	1.87	55.69
184.6	1.24	58.40	776.2	0.22	56.48	1565.0	1.63	75.64	2376.2	2.24	65.93	2848.0	1.77	55.34
184.7	1.27	57.25	776.4	0.39	59.44	1565.2	1.75	75.25	2376.4	2.43	66.10	2848.1	1.99	55.39
184.8	0.87	55.81	776.6	0.25	59.45	1565.4	1.87	74.88	2376.6	2.14	66.00	2848.2	1.62	54.22
184.9	1.21	55.33	776.8	0.13	63.80	1565.6	1.66	74.46	2376.8	1.95	65.41	2848.3	1.83	54.49
185.0	0.99	56.29	777.0	0.13	64.87	1565.8	1.64	73.48	2377.0	2.42	65.72	2848.4	1.76	54.63
185.1	0.91	56.24	777.2	0.09	65.39	1566.0	1.78	73.49	2377.2	2.21	65.22	2848.5	1.75	55.50
185.2	1.31	56.42	777.4	0.22	62.90	1566.2	1.52	73.58	2377.4	2.30	66.14	2848.6	1.44	55.41
185.3	1.18	56.91	777.6	0.22	61.55	1566.4	1.84	72.94	2377.6	2.23	66.49	2848.7	1.73	56.02
185.4	1.37	57.36	777.8	0.17	57.24	1566.6	1.77	72.68	2377.8	2.48	67.23	2848.8	1.80	56.26
185.5	1.18	56.74	778.0	0.16	56.32	1566.8	1.80	72.38	2378.0	2.37	66.98	2848.9	1.64	57.08
185.6	1.11	56.92	778.2	0.10	57.25	1567.0	1.81	72.37	2378.2	2.20	66.76	2849.0	1.73	56.89
185.7	1.10	56.20	778.4	0.15	56.49	1567.2	1.88	71.80	2378.4	2.58	66.05	2849.1	1.19	57.05
185.8	1.12	56.25	778.6	0.30	58.04	1567.4	2.10	71.10	2378.6	2.11	65.77	2849.2	1.78	57.35
185.9	1.24	55.75	778.8	0.23	59.27	1567.6	1.69	72.80	2378.8	2.31	68.99	2849.3	1.66	56.73
186.0	1.24	56.24	779.0	0.26	57.46	1567.8	1.60	72.74	2379.0	2.28	69.72	2849.4	0.80	56.19
186.1	1.38	56.63	779.2	0.29	56.97	1568.0	1.74	72.22	2379.2	2.30	69.59	2849.5	1.41	56.39
186.2	1.21	57.58	779.4	0.15	57.23	1568.2	1.67	71.78	2379.4	2.21	70.24	2849.6	1.79	56.81
186.3	1.28	57.35	779.6	0.17	58.18	1568.4	1.86	70.88	2379.6	2.12	69.60	2849.7	1.09	56.74
186.4	1.37	56.84	779.8	0.26	57.74	1568.6	2.42	70.90	2379.8	2.09	65.99	2849.8	1.89	57.78
186.5	1.29	56.31	780.0	0.12	59.25	1568.8	1.20	70.56	2380.0	2.05	65.93	2849.9	1.77	57.84
186.6	1.25	55.68	780.2	0.20	60.30	1569.0	1.62	70.14	2380.2	1.80	66.27	2850.0	1.62	57.97
186.7	1.08	55.59	780.4	0.23	62.32	1569.2	1.85	70.00	2380.4	2.61	65.49	2850.1	1.84	57.97
186.8	1.07	55.36	780.6	0.15	60.07	1569.4	1.82	70.08	2380.6	2.24	65.63	2850.2	1.71	58.47
186.9	1.29	55.75	780.8	0.17	59.68	1569.6	1.86	68.93	2380.8	2.18	67.32	2850.3	1.90	57.42
187.0	1.25	55.37	781.0	0.08	59.58	1569.8	1.74	69.01	2381.0	2.29	67.94	2850.4	1.73	57.23
187.1	1.27	55.02	781.2	0.09	58.77	1570.0	1.86	68.63	2381.2	2.09	67.82	2850.5	1.56	56.11
187.2	1.24	54.23	781.4	0.18	58.68	1570.2	1.79	68.67	2381.4	2.12	68.55	2850.6	1.47	55.63
187.3	1.22	54.27	781.6	0.12	60.22	1570.4	1.74	69.93	2381.6	2.22	68.89	2850.7	1.98	55.21
187.4	1.22	55.07	781.8	0.23	59.25	1570.6	0.88	70.35	2381.8	1.91	68.62	2850.8	1.41	56.55
187.5	1.32	55.37	782.0	0.39	57.97	1570.8	1.63	71.21	2382.0	2.06	67.64	2850.9	1.69	56.89
187.6	1.20	55.80	782.2	1.19	56.81	1571.0	1.04	72.02	2382.2	2.00	67.37	2851.0	1.82	57.91
187.7	1.24	56.99	782.4	0.68	56.47	1571.2	1.94	72.47	2382.4	1.95	67.00	2851.1	1.73	58.22
187.8	1.11	57.12	782.6	0.13	55.80	1571.4	1.80	72.28	2382.6	2.22	67.75	2851.2	1.74	57.67
187.9	1.24	56.23	782.8	0.15	57.65	1571.6	1.62	71.16	2382.8	2.18	68.28	2851.3	1.90	56.99
188.0	1.26	56.27	783.0	0.20	60.44	1571.8	1.93	70.69	2383.0	2.08	68.60	2851.4	1.74	56.81
188.1	1.25	56.96	783.2	0.13	61.37	1572.0	1.70	71.06	2383.2	2.31	69.23	2851.5	1.43	56.72
188.2	1.24	56.35	783.4	0.24	62.79	1572.2	1.73	70.10	2383.4	1.97	68.51	2851.6	1.85	59.86
188.3	1.22	58.31	783.6	0.07	62.70	1572.4	1.82	70.25	2383.6	1.98	68.20	2851.7	1.76	61.69
188.4	1.07	58.78	783.8	0.15	61.20	1572.6	1.75	71.50	2383.8	2.23	66.07	2851.8	1.48	61.43
188.5	1.12	59.58	784.0	0.48	59.01	1572.8	1.73	71.91	2384.0	1.93	65.19	2851.9	1.64	61.26
188.6	1.07	59.13	784.2	0.24	57.98	1573.0	1.89	71.05	2384.2	1.98	64.57	2852.0	1.71	60.28
188.7	0.84	58.71	784.4	0.13	55.27	1573.2	1.86	71.84	2384.4	2.29	65.44	2852.1	1.88	56.59
188.8	1.06	56.77	784.6	0.10	54.63	1573.4	1.85	71.79	2384.6	1.94	64.26	2852.2	1.95	55.84
188.9	0.59	55.62	784.8	0.16	53.57	1573.6	1.74	71.79	2384.8	2.18	63.79	2852.3	1.81	55.88
189.0	1.11	54.51	785.0	0.15	56.29	1573.8	1.37	70.24	2385.0	1.87	64.32	2852.4	1.63	56.38
189.1	1.10	54.42	785.2	0.10	56.15	1574.0	1.66	70.90	2385.2	2.09	63.99	2852.5	1.93	57.50
189.2	1.08	54.71	785.4	0.08	55.90	1574.2	1.68	69.24	2385.4	2.10	63.31	2852.6	2.02	57.91
189.3	1.06	55.38	786.6	0.18	60.54	1575.4	1.44	70.32	2386.6	1.91	63.97	2853.2	1.58	55.48
189.4	0.80	59.35	786.8	0.10	61.28	1575.6	1.37	69.84	2386.8	2.15	63.64	2853.3	1.55	55.70
189.5	0.90	56.18	786.0	0.15	56.69	1574.8	1.80	69.40	2386.0	2.00	63.53	2852.9	2.05	56.89
189.6	0.83	57.63	786.2	0.29	56.36	1575.0	1.66	68.24	2386.2	2.10	63.62	2853.0	1.69	56.36
189.7	1.09	58.17	786.4	0.30	58.88	1575.2	1.32	70.83	2386.4	1.99	63.97	2853.1	1.75	56.18
189.8	0.89	58.38	786.6	0.18	60.54	1575.4	1.66	70.08	2386.6	2.54	62.92	2853.7	1.98	54.54
189.9	0.80	59.35	786.8	0.10	61.28	1575.6	1.37	69.84	2386.8	2.15	63.64	2853.3	1.55	55.70
190.0	1.13	61.21	787.0	0.25	59.74	1575.8	1.42	69.41	2387.0	2.59	63.96	2853.4	1.79	55.76
190.1	0.90	60.38	787.2	0.30	60.78	1576.0								

191.0	1.25	54.85	789.0	0.14	57.93	1577.8	1.58	73.86	2389.0	2.07	62.78	2854.4	2.25	52.05
191.1	1.27	55.16	789.2	0.09	57.24	1578.0	1.66	72.79	2389.2	2.33	62.70	2854.5	2.31	53.02
191.2	1.36	55.72	789.4	0.25	56.24	1578.2	1.77	77.88	2389.4	2.13	61.84	2854.6	2.21	53.72
191.3	1.21	56.61	789.6	0.35	55.14	1578.6	1.85	78.09	2389.6	2.25	62.77	2854.7	1.99	54.11
191.4	1.30	57.20	789.8	0.28	55.44	1578.8	1.34	76.81	2389.8	2.19	62.07	2854.8	1.97	54.03
191.5	1.30	58.22	790.0	0.22	56.93	1579.0	1.38	75.85	2390.0	2.41	62.24	2854.9	2.04	54.20
191.6	1.35	57.55	790.2	0.20	58.06	1579.2	1.79	76.75	2390.2	2.52	62.45	2855.0	2.28	53.74
191.7	1.34	57.22	790.4	0.18	59.55	1579.4	2.04	70.52	2390.4	1.97	62.89	2855.1	2.00	53.34
191.8	1.43	56.65	790.6	0.14	61.15	1579.6	1.85	70.86	2390.6	2.37	62.71	2855.2	2.01	53.26
191.9	1.37	56.60	790.8	0.17	60.52	1579.8	1.58	71.97	2390.8	2.54	63.77	2855.3	2.05	53.50
192.0	1.48	56.11	791.0	0.18	60.07	1580.0	2.00	71.32	2391.0	2.30	63.31	2855.4	2.19	53.84
192.1	1.18	56.27	791.2	0.21	59.86	1580.2	1.58	71.37	2391.2	2.22	62.93	2855.5	1.65	54.02
192.2	1.34	55.97	791.4	0.24	59.54	1580.4	1.42	73.09	2391.4	2.62	62.48	2855.6	1.63	54.47
192.3	1.08	55.91	791.6	0.28	58.28	1580.6	1.09	72.30	2391.6	2.05	62.08	2855.7	2.04	56.20
192.4	0.95	55.81	791.8	0.33	57.57	1580.8	1.67	72.32	2391.8	2.41	63.74	2855.8	1.79	56.78
192.5	0.98	55.08	792.0	0.27	55.94	1581.0	1.91	73.70	2392.0	2.23	64.23	2855.9	1.93	56.88
192.6	1.16	54.82	792.2	0.45	55.34	1581.2	1.76	73.61	2392.2	2.12	65.35	2856.0	1.83	57.44
192.7	1.03	54.98	792.4	1.14	56.25	1581.4	1.71	73.81	2392.4	2.16	64.95	2856.1	1.86	57.15
192.8	1.15	55.76	792.6	0.60	63.37	1581.6	1.71	74.31	2392.6	2.15	65.86	2856.2	1.95	55.30
192.9	1.13	55.35	792.8	0.23	67.87	1581.8	1.73	74.01	2392.8	2.23	64.00	2856.3	1.71	55.15
193.0	0.96	55.22	793.6	0.33	68.41	1582.0	1.28	72.79	2393.0	2.25	63.94	2856.4	1.91	55.16
193.1	1.24	55.37	793.8	0.54	69.81	1582.2	1.31	72.59	2393.2	2.30	62.95	2856.5	1.83	55.07
193.2	1.10	55.23	794.0	0.38	68.40	1582.4	1.38	70.69	2393.4	2.18	64.11	2856.6	2.01	55.11
193.3	1.11	54.39	794.2	0.26	62.11	1582.6	1.57	69.01	2393.6	2.44	64.34	2856.7	1.58	56.26
193.4	0.89	54.51	794.4	0.26	58.77	1582.8	1.73	68.42	2393.8	2.63	66.04	2856.8	1.74	57.44
193.5	1.07	56.35	794.6	0.27	59.29	1583.0	1.50	68.69	2394.0	2.51	70.49	2856.9	2.05	58.02
193.6	1.15	58.90	794.8	0.27	59.68	1583.2	1.60	66.69	2394.2	2.15	71.67	2857.0	2.11	58.93
193.7	0.86	60.00	795.0	0.16	61.26	1583.4	1.72	66.66	2394.4	2.25	72.20	2857.1	1.44	58.42
193.8	1.34	61.41	795.2	0.22	64.98	1583.6	1.60	66.98	2394.6	2.59	72.30	2857.2	1.63	58.15
193.9	1.17	62.15	795.4	0.33	65.92	1583.8	1.67	67.37	2394.8	2.63	71.96	2857.3	2.16	56.50
194.0	1.38	61.21	795.6	0.43	68.11	1584.0	1.76	66.48	2395.0	1.70	68.25	2857.4	1.79	55.65
194.1	1.11	60.03	795.8	0.40	68.53	1584.2	1.65	67.47	2395.2	2.48	67.36	2857.5	1.84	53.84
194.2	1.02	60.46	796.0	0.39	67.58	1584.4	1.85	68.31	2395.4	2.26	66.76	2857.6	1.84	53.59
194.3	0.89	59.58	796.2	0.29	64.76	1584.6	1.72	68.09	2395.6	2.61	65.83	2857.7	1.12	52.54
194.4	0.97	59.28	796.4	0.29	65.12	1584.8	1.47	67.43	2395.8	1.75	64.86	2857.8	1.78	52.72
194.5	0.83	58.66	796.6	0.38	65.27	1585.0	1.69	67.56	2396.0	2.45	63.42	2857.9	0.87	52.05
194.6	0.77	57.38	796.8	0.22	63.92	1585.2	1.73	67.40	2396.2	2.22	63.41	2858.0	1.70	52.59
194.7	0.86	56.88	797.0	0.18	64.09	1585.4	1.57	67.52	2396.4	2.36	64.20	2858.1	1.79	53.11
194.8	0.86	56.56	797.2	0.20	65.10	1585.6	1.76	67.69	2396.6	2.53	65.63	2858.2	2.00	54.25
194.9	0.96	55.99	797.4	0.15	65.00	1585.8	1.91	68.34	2396.8	2.59	65.93	2858.3	1.32	53.89
195.0	1.32	57.15	797.6	0.22	63.96	1586.0	1.63	68.48	2397.0	2.23	68.10	2858.4	1.16	54.19
195.1	1.22	57.80	797.8	0.33	63.96	1586.2	1.82	69.35	2397.2	2.31	70.37	2858.5	1.66	53.84
195.2	1.06	57.42	798.0	0.45	64.92	1586.4	1.47	69.03	2397.4	2.29	70.02	2858.6	1.85	53.61
195.3	1.17	57.37	798.2	0.48	63.85	1586.6	1.58	69.89	2397.6	2.36	70.89	2858.7	1.90	52.13
195.4	1.29	57.28	798.4	0.26	62.74	1586.8	1.90	70.50	2397.8	2.53	72.88	2858.8	1.74	52.19
195.5	1.26	56.37	798.6	0.21	61.46	1587.0	1.72	71.12	2398.0	2.56	72.90	2858.9	1.63	51.67
195.6	1.39	55.75	798.8	0.20	60.99	1587.2	1.74	71.07	2398.2	2.83	72.64	2859.0	1.96	54.37
195.7	1.24	55.75	799.0	0.29	57.39	1587.4	1.86	74.42	2398.4	2.18	73.74	2859.1	1.86	54.72
195.8	1.17	55.77	799.2	0.48	57.11	1587.6	1.55	73.33	2398.6	2.68	73.98	2859.2	1.62	56.45
195.9	1.20	56.88	799.4	0.14	57.60	1587.8	1.59	72.23	2398.8	2.48	73.80	2859.3	1.70	59.81
196.0	1.26	57.04	799.6	0.14	57.11	1588.0	1.82	71.56	2399.0	2.47	74.88	2859.4	1.70	65.77
196.1	1.25	57.55	799.8	0.20	57.82	1588.2	2.01	71.88	2399.2	2.36	75.95	2859.5	1.43	62.40
196.2	1.23	57.50	800.0	0.22	59.38	1588.4	1.86	68.60	2399.4	2.82	76.88	2859.6	1.92	61.86
196.3	1.14	57.47	800.2	0.22	59.15	1588.6	1.83	69.91	2399.6	2.79	76.90	2859.7	1.74	60.77
196.4	1.29	56.06	800.4	0.17	58.91	1588.8	1.61	69.88	2399.8	2.65	77.17	2859.8	1.79	57.75
196.5	1.09	56.37	800.6	0.13	59.83	1589.0	1.55	71.11	2400.0	2.66	77.42	2859.9	1.75	52.39
196.6	1.00	56.50	800.8	0.11	59.16	1589.2	1.78	70.69	2400.2	2.48	76.41	2860.0	2.07	53.60
196.7	1.16	56.06	801.0	0.12	59.94	1589.4	1.73	70.85	2400.4	2.87	75.42	2860.1	1.79	53.87
196.8	1.03	55.46	801.2	0.12	59.52	1589.6	1.73	70.87	2400.6	2.39	75.61	2860.2	1.81	53.30
196.9	0.97	56.07	801.4	0.14	58.67	1589.8	1.66	71.75	2400.8	2.64	80.02	2860.3	1.95	53.10
197.0	1.13	54.92	801.6	0.15	58.25	1590.0	1.77	70.78	2401.0	2.38	79.76	2860.4	2.10	52.06
197.1	0.85	53.73	801.8	0.16	58.83	1590.2	1.57	71.46	2401.2	2.59	82.72	2860.5	1.88	50.90
197.2	0.90	54.06	802.0	0.12	58.04	1590.4	1.60	72.25	2401.4	2.56	85.67	2860.6	1.79	50.63
197.3	1.18	54.50	802.2	0.12	58.01	1590.6	1.43	72.03	2401.6	2.55	90.97	2860.7	1.99	51.02
197.4	1.11	54.32	802.4	0.18	58.65	1590.8	1.95	72.33	2401.8	2.59	87.02	2860.8	2.27	50.99
197.5	1.01	55.09	802.6	0.09	57.91	1591.0	1.46	72.15	2402.0	2.67	88.04	2860.9	1.97	51.94
197.6	1.18	57.75	802.8	0.15	58.74	1591.2	1.67	71.80	2402.2	2.68	88.59	2861.0	2.39	51.49
197.7	1.03	57.28	803.0	0.36	59.18	1591.4	1.68	70.99	2402.4	2.70	84.90	2861.1	2.16	51.43
197.8	1.01	58.37	803.2	0.18	58.53	1591.6	1.42	70.89	2402.6	2.70	79.80	2861.2	2.23	51.22
197.9	1.12	59.31	803.4	0.32	57.49	1591.8	1.81	70.06	2402.8	2.32	78.99	2861.3	2.25	50.94
198.0	1.14	59.02	803.6	0.28	58.10	1592.0	1.52	70.32	2403.0	2.74	78.51	2861.4	1.85	50.56
198.1	1.16	56.90	803.8	0.26	56.46	1592.2	1.20	70.20	2403.2	2.86	75.07	2861.5	1.95	50.83
198.2	1.17	57.64	804.0	0.22	56.23	1592.4								

199.1	1.10	57.15	805.8	0.23	54.84	1594.2	1.57	70.96	2405.2	2.83	72.96	2862.5	2.40	50.77
199.2	1.22	56.48	806.0	0.14	55.25	1594.4	1.59	70.95	2405.4	2.95	72.84	2862.6	1.04	50.70
199.3	1.12	56.42	806.2	0.33	56.97	1594.6	1.71	69.27	2405.6	2.96	73.99	2862.7	2.03	50.85
199.4	1.06	56.34	806.4	0.36	56.43	1594.8	1.73	68.24	2405.8	2.61	74.84	2862.8	1.93	52.71
199.5	1.13	56.03	806.6	0.24	56.38	1595.0	1.50	70.08	2406.0	3.40	75.81	2862.9	1.84	52.52
199.6	1.09	55.26	806.8	0.31	55.28	1595.2	1.22	70.31	2406.2	2.84	74.30	2863.0	1.76	52.93
199.7	1.12	55.34	807.0	0.17	54.68	1595.4	1.13	70.70	2406.4	2.77	74.47	2863.1	1.79	53.80
199.8	1.22	55.08	807.2	0.13	55.60	1595.6	1.65	70.37	2406.6	2.82	73.86	2863.2	1.91	54.48
199.9	1.18	55.57	807.4	0.13	57.21	1595.8	1.66	70.23	2406.8	2.70	75.20	2863.3	1.92	52.93
200.0	1.13	56.81	807.6	0.12	57.48	1596.0	2.04	68.65	2407.0	2.13	74.80	2863.4	1.88	52.79
200.1	1.04	58.68	807.8	0.15	59.99	1596.2	1.70	67.44	2407.2	2.90	75.15	2863.5	1.84	52.57
200.2	1.14	60.00	808.0	0.37	62.03	1596.4	1.59	66.10	2407.4	2.24	74.78	2863.6	1.60	52.27
200.3	1.25	61.50	808.2	0.32	61.13	1596.6	1.59	65.99	2407.6	2.64	74.83	2863.7	1.35	51.85
200.4	0.75	61.61	808.4	0.30	61.78	1596.8	1.28	67.03	2407.8	2.72	73.11	2863.8	1.72	51.87
200.5	0.97	60.25	808.6	0.21	63.56	1597.0	1.80	68.17	2408.0	2.50	71.37	2863.9	1.95	51.11
200.6	1.14	59.47	808.8	0.26	61.37	1597.2	1.53	68.02	2408.2	2.50	72.21	2864.0	1.75	51.21
200.7	1.18	58.77	809.0	0.24	59.41	1597.4	1.68	68.43	2408.4	2.53	72.67	2864.1	1.74	51.45
200.8	1.14	57.99	809.2	0.24	57.82	1597.6	1.94	69.13	2408.6	2.48	72.19	2864.2	1.67	51.87
200.9	1.31	57.26	809.4	0.21	56.66	1597.8	1.84	68.80	2408.8	2.53	72.76	2864.3	1.83	52.23
201.0	1.20	57.72	809.6	0.13	54.88	1598.0	1.87	69.09	2409.0	2.32	73.98	2864.4	1.62	52.89
201.1	1.14	56.54	809.8	0.15	54.65	1598.2	1.99	70.04	2409.2	2.56	73.36	2864.5	1.71	53.40
201.2	1.09	57.10	810.0	0.11	54.69	1598.4	2.07	71.22	2409.4	2.07	72.91	2864.6	1.72	54.01
201.3	0.94	56.31	810.2	0.14	56.36	1598.6	1.72	71.42	2409.6	2.30	73.47	2864.7	1.53	54.13
201.4	1.18	56.20	810.4	0.13	56.22	1598.8	1.57	71.55	2409.8	2.06	72.44	2864.8	1.74	54.14
201.5	1.13	55.42	810.6	0.18	55.35	1599.0	1.80	70.29	2410.0	2.17	71.08	2864.9	1.71	54.82
201.6	1.19	56.10	810.8	0.08	55.46	1599.2	1.99	70.55	2410.2	2.12	69.83	2865.0	1.64	54.86
201.7	1.05	54.91	811.0	0.15	56.16	1599.4	1.68	69.62	2410.4	2.22	69.29	2865.1	1.73	53.78
201.8	1.06	55.96	811.2	0.17	55.93	1599.6	1.89	70.94	2410.6	2.42	68.25	2865.2	1.80	53.57
201.9	1.03	56.50	811.4	0.11	56.07	1599.8	2.07	71.21	2410.8	2.50	68.80	2865.3	1.60	53.53
202.0	1.09	57.46	811.6	0.16	57.26	1600.0	1.97	72.00	2411.0	2.48	70.80	2865.4	1.70	52.97
202.1	1.14	58.28	811.8	0.18	58.65	1600.2	1.73	72.16	2411.2	2.47	72.77	2865.5	1.86	53.62
202.2	1.22	59.44	812.0	0.20	57.40	1600.4	2.18	71.89	2411.4	1.90	74.57	2865.6	1.84	54.32
202.3	1.19	59.44	812.2	0.19	57.53	1600.6	1.82	70.33	2411.6	2.21	74.95	2865.7	1.65	54.57
202.4	1.15	59.21	812.4	0.20	57.46	1600.8	2.05	69.13	2411.8	2.09	74.66	2865.8	1.80	54.24
202.5	1.20	59.39	812.6	0.13	57.40	1601.0	1.78	69.60	2412.0	2.02	74.59	2865.9	1.98	54.64
202.6	1.13	59.20	812.8	0.11	58.57	1601.2	1.97	69.66	2412.2	1.88	74.90	2866.0	1.71	53.43
202.7	1.31	58.55	813.0	0.17	59.34	1601.4	1.74	69.54	2412.4	1.53	73.96	2866.1	1.84	55.13
202.8	0.83	58.00	813.2	0.11	58.68	1601.6	2.08	69.53	2412.6	2.14	76.75	2866.2	1.59	55.81
202.9	1.27	58.02	813.4	0.13	58.93	1601.8	1.77	70.19	2412.8	2.30	84.08	2866.3	1.70	56.03
203.0	1.11	57.21	813.6	0.16	58.89	1602.0	2.03	69.31	2413.0	2.36	88.99	2866.4	1.84	55.50
203.1	1.25	56.63	813.8	0.23	57.81	1602.2	1.77	68.33	2413.4	1.19	93.84	2866.5	1.80	54.97
203.2	1.18	56.81	814.0	0.17	57.79	1602.4	1.97	69.20	2413.8	0.65	99.67	2866.6	1.66	53.05
203.3	1.23	56.84	814.2	0.19	59.27	1602.6	2.11	68.39	2414.2	0.63	100.12	2866.7	1.73	52.14
203.4	1.25	56.51	814.4	0.28	60.11	1602.8	2.12	68.10	2414.4	0.64	92.62	2866.8	1.75	51.77
203.5	1.20	56.93	814.6	0.19	61.33	1603.0	1.92	67.65	2414.6	1.47	84.81	2866.9	1.81	52.26
203.6	1.30	57.31	814.8	0.20	60.16	1603.2	2.04	67.57	2414.8	1.47	76.47	2867.0	1.71	52.60
203.7	1.28	57.06	815.0	0.15	61.34	1603.4	1.77	66.14	2415.0	2.28	67.94	2867.1	1.76	51.98
203.8	1.38	57.02	815.2	0.25	61.01	1603.6	1.71	65.99	2415.2	2.42	62.57	2867.2	1.92	51.78
203.9	1.15	56.75	815.4	0.16	60.05	1603.8	1.91	65.63	2415.4	2.25	60.78	2867.3	1.11	51.80
204.0	1.34	58.27	815.6	0.18	58.65	1604.0	1.69	65.69	2415.6	2.64	60.22	2867.4	1.54	51.71
204.1	1.25	59.71	815.8	0.40	58.94	1604.2	1.91	65.22	2415.8	2.29	59.66	2867.5	1.75	52.03
204.2	1.20	60.40	816.0	0.40	57.98	1604.4	2.05	65.62	2416.0	2.02	59.70	2867.6	1.64	52.86
204.3	1.29	64.79	816.2	0.31	56.94	1604.6	1.51	65.45	2416.2	2.31	59.26	2867.7	1.74	53.92
204.4	1.24	68.73	816.4	0.23	55.90	1604.8	1.95	65.71	2416.4	2.31	59.20	2867.8	1.70	53.92
204.5	1.29	66.93	816.6	0.28	58.03	1605.0	1.77	66.03	2416.6	2.57	59.00	2867.9	1.75	53.56
204.6	1.13	66.41	816.8	0.25	57.63	1605.2	1.84	67.80	2416.8	2.28	59.29	2868.0	1.68	53.92
204.7	1.33	65.60	817.0	0.24	57.63	1605.4	1.85	67.54	2417.0	2.43	59.00	2868.1	1.77	53.70
204.8	1.27	61.30	817.2	0.30	57.73	1605.6	1.86	68.57	2417.2	2.38	59.75	2868.2	1.72	53.32
204.9	1.08	56.75	817.4	0.23	59.34	1605.8	1.50	68.04	2417.4	2.47	59.53	2868.3	1.83	53.84
205.0	1.08	56.08	817.6	0.23	56.91	1606.0	2.03	67.22	2417.6	2.39	60.85	2868.4	1.73	54.32
205.1	1.14	54.33	817.8	0.25	56.57	1606.2	1.82	72.45	2419.2	2.20	62.30	2868.5	1.53	52.26
205.2	1.29	54.14	818.0	0.53	56.63	1606.4	1.88	72.68	2419.4	2.38	64.01	2868.6	1.84	52.43
205.3	1.11	53.76	818.2	0.31	55.77	1606.6	1.80	71.57	2419.6	2.08	64.06	2868.7	1.60	52.46
205.4	1.24	54.41	818.4	0.43	54.18	1606.8	1.74	72.96	2419.8	2.35	64.57	2868.8	1.84	51.93
205.5	1.24	55.91	818.6	0.27	54.18	1607.0	1.73	74.17	2420.0	2.15	63.39	2868.9	1.82	51.39
205.6	1.10	57.63	818.8	0.64	54.49	1607.2	1.82	68.29	2420.2	2.13	62.40	2869.0	1.90	54.00
205.7	1.14	57.96	819.0	0.32	54.32	1607.4	1.66	67.95	2420.4	2.25	61.91	2869.1	1.52	55.37
205.8	1.16	57.97	819.2	0.39	55.19	1607.6	2.07	68.38	2420.6	2.42	61.76	2869.2	1.71	55.08
205.9	1.12	58.51	819.4	0.43	55.87	1607.8	1.83	66.88	2420.8	2.29	62.07	2870.0	1.79	54.67
206.0	1.09	59.24	819.6	0.32	56.97	1608.0	1.66	65.60	2421.0	2.12	62.22	2870.1	1.90	54.72
206.1	1.34	58.77	819.8	0.25	57.64	1608.2	1.66	64.08	2421.2	2.22	63.43	2870.2	1.58	52.77
206.2	1.15	58.22	820.0	0.31	57.64	1608.4	2.22	64.24	2421.4	2.35	63.60	2870.3	1.84	51.40
206.3	1.06	58.24	820.2	0.35	57.34	1608.6</td								

207.2	1.34	54.20	822.0	0.54	56.73	1610.4	1.90	65.54	2423.4	2.17	64.12	2871.3	1.21	53.58
207.3	1.36	55.08	822.2	0.22	55.78	1610.6	2.06	65.55	2423.6	2.19	64.50	2871.4	1.12	56.64
207.4	1.17	55.98	822.4	0.29	57.53	1610.8	2.13	65.10	2423.8	2.07	64.26	2871.5	1.66	58.41
207.5	1.28	56.06	822.6	0.46	58.15	1611.0	2.14	64.10	2424.0	2.22	63.70	2871.6	1.76	58.42
207.6	1.19	55.35	822.8	0.48	58.66	1611.2	2.09	63.90	2424.2	2.52	63.02	2871.7	2.05	57.83
207.7	1.25	55.90	823.0	0.45	57.40	1611.4	2.16	64.19	2424.4	2.53	61.95	2871.8	2.03	58.69
207.8	1.30	55.93	823.2	0.46	56.69	1611.6	2.30	64.31	2424.6	2.62	61.65	2871.9	1.67	57.94
207.9	1.10	54.90	823.4	0.52	54.56	1611.8	2.40	64.57	2424.8	2.45	61.95	2872.0	1.82	58.36
208.0	1.32	54.84	823.6	0.41	54.48	1612.0	2.01	63.78	2425.0	2.57	62.83	2872.1	1.83	60.25
208.1	0.99	55.01	823.8	0.42	55.58	1612.2	2.08	64.26	2425.2	2.70	63.56	2872.2	1.75	60.76
208.2	0.90	54.72	824.0	0.33	55.61	1612.4	2.24	64.06	2425.4	2.70	63.65	2872.3	1.74	60.16
208.3	0.60	53.39	824.2	0.36	56.18	1612.6	1.60	64.51	2425.6	2.59	64.18	2872.4	1.79	57.63
208.4	0.46	53.59	824.4	0.45	55.50	1612.8	1.76	64.80	2425.8	2.83	64.21	2872.5	1.79	55.47
208.5	0.44	54.14	824.6	0.39	55.48	1613.0	2.15	66.63	2426.0	2.83	64.61	2872.6	1.70	53.14
208.6	0.42	53.78	824.8	0.42	53.73	1613.2	1.53	67.17	2426.2	2.57	62.98	2872.7	1.30	52.66
208.7	0.37	53.65	825.0	0.31	53.64	1613.4	1.78	67.74	2426.4	2.39	63.33	2872.8	1.93	52.39
208.8	0.31	55.88	825.2	0.39	52.69	1613.6	1.78	67.49	2426.6	2.49	62.65	2872.9	1.65	51.37
208.9	0.29	57.49	825.4	0.21	53.53	1613.8	1.65	68.24	2426.8	2.58	62.74	2873.0	1.73	51.25
209.0	0.37	57.24	825.6	0.25	53.52	1614.0	1.42	68.14	2427.0	2.69	62.96	2873.1	1.94	51.41
209.1	0.30	57.29	825.8	0.34	53.47	1614.2	1.63	67.97	2427.2	2.54	65.03	2873.2	1.63	51.21
209.2	0.46	57.31	826.0	0.36	53.61	1614.4	1.54	66.10	2427.4	2.16	65.30	2873.3	1.75	51.35
209.3	0.37	56.56	826.2	0.36	53.28	1614.6	1.75	67.03	2427.6	2.10	65.39	2873.4	2.08	51.96
209.4	0.42	55.28	826.4	0.33	52.76	1614.8	1.85	67.98	2427.8	2.21	65.84	2873.5	1.77	52.14
209.5	0.69	56.06	826.6	0.48	53.07	1615.0	1.47	67.20	2428.0	2.46	66.48	2873.6	1.97	52.28
209.6	0.80	56.47	826.8	0.36	53.46	1615.2	1.37	68.42	2428.2	2.44	65.19	2873.7	1.89	52.77
209.7	0.72	56.87	827.0	0.27	53.08	1615.4	1.66	70.76	2428.4	2.34	64.17	2873.8	1.73	52.56
209.8	1.12	56.21	827.2	0.35	53.70	1615.6	1.63	70.57	2428.6	2.09	63.77	2873.9	2.03	52.54
209.9	1.14	56.03	827.4	0.36	53.82	1615.8	1.92	68.16	2428.8	2.47	62.89	2874.0	1.74	52.59
210.0	1.09	55.80	827.6	0.33	53.21	1616.0	1.90	68.53	2429.0	2.74	61.72	2874.1	1.85	52.14
210.1	1.14	55.61	827.8	0.48	52.99	1616.2	1.61	67.77	2429.2	2.75	61.70	2874.2	1.94	52.11
210.2	1.06	55.07	828.0	0.37	52.73	1616.4	1.81	67.69	2429.4	2.72	61.17	2874.3	1.92	52.49
210.3	1.21	55.63	828.2	0.29	53.22	1616.6	1.56	66.45	2429.6	2.97	61.39	2874.4	1.88	52.49
210.4	1.17	55.89	828.4	0.29	53.08	1616.8	1.79	68.88	2429.8	2.55	61.51	2874.5	1.76	52.31
210.5	1.42	55.10	828.6	0.40	52.55	1617.0	1.78	68.66	2430.0	2.87	61.44	2874.6	1.68	52.71
210.6	1.34	55.44	828.8	0.37	52.21	1617.2	1.87	67.89	2430.2	2.52	61.71	2874.7	1.82	52.87
210.7	1.31	55.56	829.0	0.50	52.38	1617.4	1.89	65.57	2430.4	2.76	62.37	2874.8	1.61	52.11
210.8	1.36	55.53	829.2	0.41	51.33	1617.6	1.58	65.70	2430.6	2.39	62.20	2874.9	1.53	52.41
210.9	1.31	55.27	829.4	0.44	51.58	1617.8	1.93	63.55	2430.8	2.59	61.67	2875.0	1.85	52.97
211.0	1.22	55.32	829.6	0.35	52.65	1618.0	1.54	62.30	2431.0	2.67	61.71	2875.1	1.68	52.44
211.1	1.17	54.37	829.8	0.32	52.86	1618.2	1.76	62.81	2431.2	2.49	62.61	2875.2	1.47	51.87
211.2	1.29	54.51	830.0	0.38	53.43	1618.4	1.84	64.23	2431.4	3.13	62.80	2875.3	1.66	51.60
211.3	1.13	54.54	830.2	0.39	54.73	1618.6	1.95	65.30	2431.6	2.51	62.49	2875.4	1.79	51.06
211.4	1.11	54.64	830.4	0.36	54.89	1618.8	1.82	65.67	2431.8	2.70	63.97	2875.5	1.63	51.13
211.5	1.13	55.82	830.6	0.27	55.72	1619.0	1.69	66.45	2432.0	2.23	63.90	2875.6	1.61	50.96
211.6	1.16	59.32	830.8	0.29	56.01	1619.2	1.86	65.38	2432.2	2.44	62.98	2875.7	1.69	51.12
211.7	1.18	60.70	831.0	0.48	55.78	1619.4	1.56	64.82	2432.4	2.36	63.48	2875.8	1.55	51.30
211.8	1.31	65.54	831.2	0.78	55.13	1619.6	1.80	64.90	2432.6	2.12	63.60	2875.9	1.08	51.67
211.9	1.62	68.62	831.4	0.69	55.63	1619.8	1.38	66.40	2432.8	2.22	62.37	2876.0	1.82	50.96
212.0	1.31	70.36	831.6	0.39	54.96	1620.0	1.43	66.48	2433.0	2.22	62.69	2876.1	1.62	50.81
212.1	1.66	67.77	831.8	0.40	54.80	1620.2	1.59	67.66	2433.2	2.32	62.45	2876.2	1.72	50.78
212.2	1.53	66.45	832.0	0.43	54.77	1620.4	1.54	68.29	2433.4	2.53	61.69	2876.3	1.34	50.48
212.3	1.57	62.15	832.2	0.53	55.98	1620.6	1.59	67.02	2433.6	2.49	61.66	2876.4	1.68	49.54
212.4	1.53	59.18	832.4	0.81	55.27	1620.8	1.54	72.30	2433.8	2.48	61.63	2876.5	1.72	48.79
212.5	1.57	58.87	832.6	0.55	55.11	1621.0	1.35	79.88	2434.0	2.21	61.51	2876.6	1.69	49.42
212.6	1.62	58.51	832.8	0.45	55.59	1631.6	2.31	86.72	2434.2	2.92	60.44	2876.7	1.44	49.40
212.7	1.35	59.24	833.0	0.54	55.65	1631.8	2.24	94.45	2434.4	2.38	59.96	2876.8	1.78	49.88
212.8	1.51	59.28	833.2	0.52	54.70	1632.0	2.22	103.39	2434.6	2.52	59.71	2876.9	1.76	50.25
212.9	1.16	60.62	833.4	0.49	54.17	1632.2	1.92	102.50	2434.8	2.30	60.95	2877.0	1.56	51.37
213.0	1.53	58.39	833.6	0.33	53.22	1632.4	1.96	99.64	2435.0	2.43	62.06	2877.1	1.67	50.75
213.1	1.28	60.23	833.8	0.42	54.85	1632.6	2.15	97.03	2435.2	2.19	61.83	2877.2	1.59	50.69
213.2	1.47	60.10	834.0	0.87	54.67	1632.8	2.05	94.39	2435.4	2.66	62.67	2877.3	1.62	50.32
213.3	1.48	61.70	834.2	0.53	54.52	1633.0	1.75	90.08	2435.6	2.68	63.41	2877.4	1.41	50.15
213.4	1.45	61.35	834.4	0.85	54.98	1633.4	1.81	89.13	2435.8	2.60	62.69	2877.5	1.82	49.52
213.5	1.60	61.85	834.6	0.89	55.33	1633.6	1.93	88.90	2436.0	2.45	61.24	2877.6	1.68	51.36
213.6	1.66	60.01	834.8	0.81	53.36	1633.8	1.68	89.41	2436.2	2.50	61.92	2877.7	1.76	53.33
213.7	1.76	59.62	835.0	1.07	55.57	1634.0	1.89	89.20	2436.4	2.53	61.34	2880.6	1.82	55.11
213.8	1.36	57.16	835.2	1.15	55.89	1634.2	1.80	89.20	2436.6	2.43	61.15	2880.8	1.81	57.65
213.9	1.35	55.95	835.4	0.42	55.48	1634.4	1.84	88.73	2436.8	2.48	61.17	2881.0	1.76	60.02
214.0	1.58	55.42	835.6	0.69	56.33	1634.6	1.86	91.30	2437.0	2.45	61.02	2881.2	1.56	59.77
214.1	1.35	55.56	835.8	0.91	56.12	1634.8	1.88	90.84	2437.2	2.75	61.38	2881.4	1.65	59.61
214.2	1.62	55.23	836.0	0.68	54.30	1635.0	2.09	90.64	2437.4	2.63	62.01	2881.6	1.96	59.95
214.3	1.45	55.79	836.2	0.75	53.85	1635.2	1.81	91.08	2437.6	2.39	62.25	2881.8	1.76	59.30
214.4	1.46	56.21	836.4	0.80	54.17	1635.4</								

215.3	1.27	54.95	838.2	1.03	57.56	1637.2	2.15	87.62	2439.6	2.68	63.59	2883.8	1.55	66.65
215.4	1.00	54.13	838.4	0.88	57.77	1637.4	2.02	86.64	2439.8	2.41	63.80	2884.0	1.85	65.41
215.5	1.26	53.71	838.6	0.94	57.51	1637.6	1.97	85.46	2440.0	2.54	64.42	2884.2	1.58	64.10
215.6	1.15	55.10	838.8	1.09	56.64	1637.8	1.50	85.03	2440.2	2.44	64.97	2884.4	1.69	62.06
215.7	0.98	56.36	839.0	1.14	56.46	1638.0	1.70	87.47	2440.4	2.74	64.95	2884.6	1.64	59.88
215.8	0.82	56.68	839.2	1.27	55.14	1638.2	1.82	85.83	2440.6	2.77	63.87	2884.8	1.42	59.98
215.9	0.79	59.11	839.4	0.53	54.45	1638.4	1.87	85.80	2440.8	2.53	63.24	2885.0	1.47	59.53
216.0	0.74	60.78	839.6	1.41	55.05	1638.6	1.82	87.03	2441.0	2.17	62.24	2885.2	1.89	60.03
216.1	0.68	59.95	839.8	1.20	55.94	1638.8	2.08	88.82	2441.2	2.46	62.13	2885.4	2.04	60.01
216.2	0.60	58.87	840.0	1.19	56.30	1639.0	1.96	90.21	2441.4	2.76	62.92	2885.6	1.56	59.98
216.3	0.58	58.90	840.2	1.08	56.53	1639.2	1.96	92.00	2441.6	2.60	64.21	2885.8	1.75	59.40
216.4	0.32	56.92	840.4	1.58	56.99	1639.4	1.96	92.50	2441.8	2.26	64.87	2886.0	1.78	58.85
216.5	0.44	55.01	840.6	1.52	57.03	1639.6	2.10	93.66	2442.0	2.44	65.89	2886.2	1.75	58.01
216.6	0.40	55.01	840.8	1.70	57.04	1639.8	1.78	91.12	2442.2	2.10	64.67	2886.4	1.58	59.01
216.7	0.45	56.93	841.0	1.56	57.58	1640.0	1.65	87.59	2442.4	2.30	64.04	2886.6	1.65	58.99
216.8	0.43	57.57	841.2	1.88	57.84	1640.2	2.05	87.62	2442.6	2.54	64.66	2886.8	1.80	59.83
216.9	0.43	57.13	841.4	1.84	58.02	1640.4	1.92	88.33	2442.8	3.02	64.57	2887.0	1.71	60.25
217.0	0.43	58.48	841.6	1.64	57.30	1640.6	1.94	86.87	2443.0	2.36	64.03	2887.2	1.97	60.40
217.1	0.40	61.29	841.8	1.49	56.13	1640.8	1.62	87.61	2443.2	2.49	65.04	2887.4	2.08	59.35
217.2	0.43	60.47	842.0	1.68	54.98	1641.0	1.90	87.37	2443.4	2.35	66.17	2887.6	1.85	59.47
217.3	0.44	60.20	842.2	1.53	54.42	1641.2	1.83	86.34	2443.6	2.20	65.92	2887.8	1.78	58.65
217.4	0.37	62.15	842.4	1.46	53.23	1641.4	1.90	85.27	2443.8	2.28	66.63	2888.0	1.67	58.26
217.5	0.50	62.93	842.6	1.54	53.41	1641.6	1.86	86.12	2444.0	2.40	66.55	2888.2	1.84	58.11
217.6	0.90	61.95	842.8	1.72	53.49	1641.8	2.07	84.04	2444.2	2.28	66.22	2888.4	2.05	58.19
217.7	0.92	64.69	843.0	2.00	53.16	1642.0	1.89	86.54	2444.4	2.20	65.91	2888.6	1.97	58.64
217.8	1.13	65.94	843.2	1.98	54.09	1642.2	1.19	85.94	2444.6	2.36	66.07	2888.8	2.06	58.81
217.9	1.41	64.87	843.4	1.79	54.51	1642.4	1.72	89.91	2444.8	2.19	66.04	2889.0	2.06	58.49
218.0	1.50	63.52	843.6	1.87	55.30	1642.6	1.68	88.62	2445.0	2.41	66.78	2889.2	1.91	58.32
218.1	1.17	63.03	843.8	1.52	55.91	1642.8	1.79	89.90	2445.2	2.27	67.59	2889.4	1.93	58.70
218.2	1.39	60.67	844.0	1.77	56.77	1643.0	2.10	86.75	2445.4	2.46	67.84	2889.6	1.93	57.88
218.3	1.43	59.17	844.2	1.55	56.16	1643.2	2.30	87.95	2445.6	2.54	67.40	2889.8	2.31	57.86
218.4	1.76	59.12	844.4	1.86	56.50	1643.4	1.94	85.62	2445.8	2.66	66.52	2890.0	1.92	58.91
218.5	1.82	59.04	844.6	1.42	56.02	1643.6	2.04	85.36	2446.0	2.67	66.97	2890.2	1.82	58.74
218.6	1.68	57.77	844.8	1.43	56.51	1643.8	1.99	84.20	2446.2	2.44	66.66	2890.4	2.28	58.04
218.7	1.87	57.08	845.0	1.55	55.77	1644.0	1.92	84.22	2446.4	2.51	65.87	2890.6	2.02	58.47
218.8	1.76	56.73	845.2	1.26	55.69	1644.2	1.81	82.05	2446.6	2.14	65.70	2890.8	2.03	58.30
218.9	1.83	56.78	845.4	1.47	55.74	1644.4	2.28	79.82	2446.8	2.45	66.57	2891.0	2.27	58.06
219.0	1.48	57.40	845.6	1.68	56.19	1644.6	2.57	79.45	2447.0	2.53	65.45	2891.2	1.90	58.84
219.1	1.70	57.70	845.8	1.63	56.30	1644.8	1.97	80.22	2447.2	2.45	65.08	2891.4	2.26	60.15
219.2	1.39	57.51	846.0	1.64	57.60	1645.0	1.69	81.17	2447.4	2.19	65.66	2891.6	1.75	60.00
219.3	1.61	57.73	846.2	1.80	58.04	1645.2	1.72	81.60	2447.6	2.37	65.60	2891.8	1.88	60.06
219.4	1.63	58.36	846.4	1.70	57.91	1645.4	1.88	82.55	2447.8	2.44	66.18	2892.0	1.78	59.27
219.5	1.60	58.62	846.6	1.73	57.39	1645.6	1.94	82.81	2448.0	3.18	66.24	2892.2	1.81	58.89
219.6	1.94	58.78	846.8	1.89	58.06	1645.8	1.89	82.05	2448.2	2.81	65.86	2892.4	2.05	57.80
219.7	1.59	58.98	847.0	1.29	58.14	1646.0	1.69	80.63	2448.4	2.29	65.07	2892.6	2.12	57.79
219.8	1.49	59.47	847.2	1.26	58.85	1646.2	1.91	80.08	2448.6	2.38	64.77	2892.8	1.68	57.88
219.9	1.72	58.94	847.4	1.26	59.37	1646.4	1.80	80.20	2448.8	2.32	64.17	2893.0	2.06	58.20
220.0	1.92	59.00	847.6	0.62	60.73	1646.6	1.58	76.27	2449.0	2.48	64.10	2893.2	1.93	57.93
220.1	1.65	59.47	847.8	0.66	59.63	1646.8	1.78	72.79	2449.2	2.63	64.26	2893.4	2.31	58.00
220.2	1.55	58.84	848.0	0.53	58.43	1647.8	1.69	69.52	2449.4	2.35	63.97	2893.6	2.04	57.26
220.3	1.01	57.92	848.2	1.59	58.05	1648.0	1.94	66.24	2449.6	2.71	63.87	2893.8	2.25	56.53
220.4	1.57	57.47	848.4	1.66	58.23	1648.2	1.70	61.74	2449.8	2.47	63.92	2894.0	2.18	55.86
220.5	1.37	57.10	848.6	1.67	57.12	1648.4	1.65	60.90	2450.0	2.59	63.61	2894.2	2.34	55.03
220.6	1.27	56.21	848.8	1.49	56.75	1648.6	1.62	60.62	2450.2	2.29	63.68	2894.4	2.33	54.32
220.7	1.32	56.65	849.0	1.69	57.44	1648.8	1.25	60.06	2450.4	1.95	63.82	2894.6	2.09	54.54
220.8	1.13	57.22	849.2	1.49	58.31	1649.0	1.56	59.96	2450.6	2.38	63.86	2894.8	2.03	54.77
220.9	1.43	57.26	849.4	1.53	59.61	1649.2	1.47	59.15	2450.8	2.44	63.33	2895.0	2.04	54.85
221.0	1.62	56.24	849.6	1.47	59.49	1649.4	1.49	60.18	2451.0	2.45	64.06	2895.2	2.00	56.33
221.1	1.62	57.31	849.8	1.63	58.90	1649.6	1.65	60.30	2451.2	2.51	64.35	2895.4	1.75	56.81
221.2	1.71	56.98	850.0	1.70	58.24	1649.8	1.63	61.12	2451.4	2.52	64.89	2895.6	1.67	57.16
221.3	1.72	57.27	850.2	1.82	58.39	1650.0	1.43	60.80	2451.6	2.35	65.82	2895.8	1.12	58.06
221.4	1.45	57.98	850.4	1.76	57.95	1650.2	1.46	60.43	2451.8	2.42	65.63	2896.0	1.77	58.44
221.5	1.38	65.14	850.6	1.62	58.46	1650.4	1.43	58.73	2452.0	2.23	65.61	2896.2	1.67	58.53
221.6	1.78	66.46	850.8	1.46	60.68	1650.6	1.74	58.38	2452.2	2.32	65.22	2896.4	1.87	58.98
221.7	1.66	66.08	851.0	1.75	61.43	1650.8	1.24	58.30	2452.4	2.59	64.79	2896.6	1.42	59.15
221.8	1.60	66.21	851.2	1.60	59.95	1651.0	1.76	58.39	2452.6	2.73	63.87	2896.8	2.07	59.03
221.9	1.69	66.07	851.4	1.45	58.84	1651.2	1.70	59.27	2452.8	3.36	63.77	2897.0	1.67	58.87
222.0	1.61	59.68	851.6	1.64	57.90	1651.4	1.76	59.94	2453.0	2.58	62.83	2897.2	1.78	58.09
222.1	1.57	56.42	851.8	1.56	55.96	1651.6	1.53	59.95	2453.2	2.64	62.61	2897.4	1.50	57.72
222.2	1.88	57.52	852.0	1.61	56.67	1651.8	1.82	59.31	2453.4	2.48	62.89	2897.6	1.36	56.55
222.3	1.79	59.67	852.2	1.61	56.71	1652.0	1.52	58.89	2453.6	2.63	63.69	2897.8	1.77	55.89
222.4	1.71	63.30	852.4	1.57	56.59	1652.2	1.45	58.57	2453.8	2.61	70.00	2898.0	1.39	55.74
222.5	1.54	64.82	852.6	1.74	58.23	1652.4								

223.4	1.96	58.35	854.4	1.30	60.87	1654.2	1.53	61.24	2455.8	2.94	79.31	2900.0	1.67	56.06
223.5	1.67	58.00	854.6	1.54	60.70	1654.4	1.65	60.15	2456.0	2.37	75.31	2900.2	1.78	56.81
223.6	1.77	57.17	854.8	1.62	62.21	1654.6	1.74	60.38	2456.4	2.76	75.69	2900.4	1.63	56.98
223.7	1.05	56.77	855.0	0.90	62.38	1654.8	1.73	61.88	2456.6	2.43	77.50	2900.6	1.68	56.49
223.8	1.52	57.36	855.2	1.28	61.79	1655.0	1.92	62.21	2456.8	2.89	75.45	2900.8	1.70	55.86
223.9	1.59	57.45	855.4	1.76	60.97	1655.2	1.75	61.31	2457.0	2.30	70.38	2901.0	1.63	55.24
224.0	1.83	57.48	855.6	1.41	60.53	1655.4	1.59	61.52	2457.2	2.58	71.09	2901.2	1.86	55.76
224.1	1.73	58.63	855.8	1.56	58.17	1655.6	1.10	62.44	2457.4	2.05	70.12	2901.4	1.85	55.84
224.2	1.91	59.15	856.0	1.31	58.13	1655.8	1.50	62.33	2457.6	2.37	67.55	2901.6	1.65	56.25
224.3	1.84	58.86	856.2	1.22	56.62	1656.0	1.60	61.44	2457.8	2.31	67.02	2901.8	1.64	57.99
224.4	1.85	59.39	856.4	1.46	56.49	1656.2	0.94	62.64	2458.0	2.13	66.49	2902.0	1.57	58.22
224.5	1.74	59.43	856.6	1.09	55.50	1656.4	1.68	62.23	2458.2	2.40	65.56	2902.2	1.49	56.77
224.6	2.08	58.29	856.8	1.62	54.96	1656.6	1.68	61.47	2458.4	2.11	65.24	2902.4	1.61	56.63
224.7	1.79	58.08	857.0	1.46	54.27	1656.8	1.65	60.33	2458.6	2.53	64.97	2902.6	1.64	56.82
224.8	1.46	57.66	857.2	1.41	53.91	1657.0	1.54	59.35	2458.8	2.22	65.28	2902.8	1.74	55.72
224.9	1.96	57.41	857.4	1.50	53.67	1657.2	1.51	58.51	2459.0	2.58	65.89	2903.0	1.68	55.76
225.0	1.85	57.42	857.6	1.77	56.34	1657.4	1.37	58.44	2459.2	2.48	66.46	2903.2	1.84	56.61
225.1	1.61	57.66	857.8	1.43	64.14	1657.6	1.71	58.27	2459.4	2.45	66.21	2903.4	1.61	56.96
225.2	1.72	57.45	858.0	1.25	73.89	1657.8	1.49	57.68	2459.6	2.44	66.86	2903.6	1.71	57.11
225.3	1.21	57.19	858.2	0.47	78.29	1658.0	1.69	58.99	2459.8	2.50	67.11	2903.8	1.62	57.37
225.4	1.82	56.68	858.4	0.33	79.97	1658.2	1.61	58.16	2460.0	2.29	68.46	2904.0	1.50	57.58
225.5	1.84	56.52	858.6	0.73	78.21	1658.4	1.73	61.73	2460.2	2.38	69.61	2904.2	1.68	57.92
225.6	1.73	57.30	858.8	1.02	70.27	1658.6	1.69	61.10	2460.4	2.35	71.28	2904.4	1.85	58.17
225.7	2.03	58.35	859.0	1.41	66.63	1658.8	1.54	62.22	2460.6	2.06	71.59	2904.6	1.79	57.93
225.8	1.94	58.02	859.2	1.58	71.71	1659.0	1.95	61.53	2460.8	2.53	71.89	2904.8	1.82	58.10
225.9	1.99	58.97	859.4	1.66	71.60	1659.2	1.85	62.29	2461.0	2.70	71.06	2905.0	1.78	58.39
226.0	1.83	61.22	859.6	0.72	71.53	1659.4	1.91	58.22	2461.2	3.19	70.76	2905.2	1.80	68.22
226.1	1.64	61.78	859.8	1.56	73.61	1659.6	1.86	58.45	2461.4	3.36	70.29	2905.4	1.66	69.37
226.2	1.80	61.18	860.0	1.23	68.53	1659.8	1.64	58.72	2461.6	3.10	70.45	2905.6	1.35	71.25
226.3	1.54	62.62	860.2	1.44	60.25	1660.0	1.73	59.60	2461.8	2.71	70.24	2905.8	1.36	70.74
226.4	1.25	62.48	860.4	1.60	58.18	1660.2	1.55	59.73	2462.0	2.97	69.36	2906.0	1.75	70.53
226.5	0.85	59.69	860.6	1.59	57.38	1660.4	1.63	60.31	2462.2	2.65	67.90	2906.2	1.65	60.55
226.6	0.87	57.50	860.8	1.42	56.09	1660.6	1.59	60.16	2462.4	2.69	66.39	2906.4	1.74	59.14
226.7	0.77	56.49	861.0	1.53	55.15	1660.8	1.82	59.90	2462.6	2.34	64.27	2906.6	1.90	57.03
226.8	0.79	55.81	861.2	1.31	55.24	1661.0	1.62	60.03	2462.8	2.85	64.83	2906.8	1.87	57.54
226.9	0.80	55.33	861.4	1.56	57.01	1661.2	1.68	62.09	2463.0	2.66	65.21	2907.0	1.89	57.72
227.0	0.74	57.07	861.6	1.38	57.35	1661.4	1.76	64.86	2463.2	2.30	66.48	2907.2	1.95	57.22
227.1	0.81	58.85	861.8	1.29	57.44	1663.6	1.41	68.49	2463.4	2.41	66.80	2907.4	1.86	57.46
227.2	0.91	59.68	862.0	1.39	58.04	1663.8	1.81	74.09	2463.6	2.50	67.58	2907.6	1.73	58.03
227.3	0.60	60.74	862.2	1.79	57.69	1664.0	1.31	81.32	2463.8	2.26	66.33	2907.8	1.35	57.91
227.4	0.53	62.62	862.4	1.67	56.38	1664.2	1.64	85.32	2464.0	2.50	65.48	2908.0	2.07	57.36
227.5	0.56	60.83	862.6	1.73	57.05	1664.4	1.30	89.32	2464.2	2.38	64.09	2908.2	2.28	57.95
227.6	0.54	58.74	862.8	1.98	57.51	1664.6	1.32	89.87	2464.4	2.35	65.10	2908.4	1.81	57.76
227.7	0.45	58.24	863.0	1.80	59.24	1664.8	1.68	88.28	2464.6	2.43	66.59	2908.6	2.19	57.95
227.8	0.51	56.58	863.2	1.75	59.05	1665.0	1.83	86.03	2464.8	2.55	66.79	2908.8	2.00	57.50
227.9	0.43	54.58	863.4	1.52	58.87	1665.2	1.55	84.11	2465.0	2.33	66.92	2909.0	2.00	58.34
228.0	0.59	56.87	863.6	1.57	58.19	1665.4	1.41	80.57	2465.2	2.32	68.38	2909.2	2.23	57.94
228.1	0.42	58.23	863.8	1.71	57.58	1665.6	1.64	79.07	2465.4	1.91	67.93	2909.4	1.96	58.01
228.2	0.62	59.21	864.0	1.78	56.28	1665.8	1.72	77.52	2465.6	2.39	67.15	2909.6	2.03	57.10
228.3	0.76	59.37	864.2	1.41	56.26	1666.0	1.84	75.95	2465.8	2.39	67.74	2909.8	2.18	57.08
228.4	0.75	59.07	864.4	1.69	57.14	1666.2	1.73	74.73	2466.0	2.47	66.89	2910.0	2.07	56.29
228.5	0.83	57.78	864.6	1.72	57.56	1666.4	1.40	73.50	2466.2	2.27	66.15	2910.2	2.02	56.34
228.6	0.61	57.26	864.8	1.79	57.75	1666.6	1.44	71.49	2466.4	2.17	65.95	2910.4	2.08	56.17
228.7	1.45	56.39	865.0	1.75	57.42	1666.8	1.49	70.28	2466.6	2.25	66.07	2910.6	1.99	56.11
228.8	1.38	55.60	865.2	1.52	57.51	1667.0	1.55	69.63	2466.8	2.31	65.32	2910.8	2.15	56.56
228.9	1.45	55.68	865.4	1.65	56.58	1667.2	1.63	69.33	2467.0	2.15	66.81	2911.0	2.06	57.04
229.0	1.04	54.27	865.6	1.68	55.59	1667.4	1.59	69.95	2467.2	2.25	67.29	2911.2	1.99	57.15
229.1	1.70	54.13	865.8	1.73	55.48	1667.6	1.24	72.61	2467.4	2.50	67.57	2911.4	2.07	57.97
229.2	1.87	53.68	866.0	1.60	58.04	1667.8	1.63	73.03	2467.6	2.39	66.90	2911.6	2.01	58.31
229.3	2.05	53.52	866.2	0.58	63.10	1668.0	1.66	72.70	2467.8	2.54	67.61	2911.8	2.18	58.40
229.4	2.12	53.42	866.4	0.57	64.80	1668.2	1.49	71.36	2468.0	2.39	68.20	2912.0	1.92	59.15
229.5	1.79	53.27	866.6	0.86	66.09	1668.4	1.87	69.37	2468.2	2.33	68.40	2912.2	1.99	59.57
229.6	1.85	53.18	866.8	1.10	67.10	1668.6	1.70	66.80	2468.4	2.43	67.56	2912.4	1.51	59.60
229.7	2.05	53.29	867.0	1.21	64.98	1668.8	1.44	65.92	2468.6	2.70	67.72	2912.6	1.89	59.75
229.8	1.18	55.01	867.2	0.91	60.46	1669.0	1.32	64.97	2468.8	2.77	67.14	2912.8	1.57	60.38
229.9	1.34	55.00	867.4	1.42	59.49	1669.2	1.64	63.88	2469.0	2.40	67.37	2913.0	1.93	59.90
230.0	1.93	57.68	867.6	1.62	58.58	1669.4	1.89	63.23	2469.2	2.68	66.45	2913.2	1.77	59.18
230.1	2.09	58.34	867.8	1.60	57.69	1669.6	1.24	62.72	2469.4	2.51	67.11	2913.4	1.84	58.26
230.2	1.73	58.89	868.0	1.51	57.13	1669.8	1.70	62.17	2469.6	2.54	67.68	2913.6	1.90	58.81
230.3	2.07	58.43	868.2	1.50	57.71	1670.0	1.59	60.56	2469.8	2.22	68.06	2913.8	1.92	58.34
230.4	2.37	57.44	868.4	1.51	58.01	1670.2	1.50	61.10	2470.0	2.33	67.43	2914.0	2.09	57.10
230.5	1.99	55.38	868.6	1.35	58.36	1670.4	1.79	61.67	2470.2	2.60	70.31	2914.2	1.93	56.83
230.6	2.16	54.72	868.8	1.43	56.91	1670.6								

231.5	1.71	53.98	870.6	1.41	56.83	1672.4	1.55	60.30	2472.2	2.78	69.66	2916.2	2.03	57.75
231.6	1.91	54.60	870.8	1.70	57.57	1672.6	1.62	60.01	2472.4	2.89	68.81	2916.4	1.97	58.10
231.7	2.00	55.22	871.0	1.71	57.77	1672.8	1.58	59.00	2472.6	2.66	68.11	2916.6	1.87	58.69
231.8	1.90	57.80	871.2	1.50	56.48	1673.0	1.64	58.78	2472.8	2.52	67.40	2916.8	1.87	58.43
231.9	1.61	60.34	871.4	1.62	56.33	1673.2	1.82	58.99	2473.0	2.85	67.64	2917.0	2.14	58.32
232.0	1.64	60.72	871.6	1.63	56.61	1673.4	1.70	59.35	2473.2	2.42	67.77	2917.2	1.72	57.85
232.1	1.62	60.73	871.8	1.73	55.44	1673.6	1.58	60.01	2473.4	2.43	68.29	2917.4	1.81	57.45
232.2	1.95	59.67	872.0	1.51	54.23	1673.8	1.97	60.51	2473.6	2.36	68.00	2917.6	1.88	56.46
232.3	1.83	57.51	872.2	1.11	54.06	1674.0	1.67	59.93	2473.8	2.61	68.65	2917.8	1.91	56.31
232.4	1.91	55.56	872.4	1.38	53.84	1674.2	1.50	59.50	2474.0	2.44	68.18	2918.0	2.41	56.15
232.5	1.71	56.41	872.6	1.54	53.60	1674.4	2.02	58.73	2474.2	2.59	67.80	2918.2	1.54	56.44
232.6	1.56	56.42	872.8	1.43	54.20	1674.6	1.74	57.94	2474.4	2.35	66.92	2918.4	2.11	56.70
232.7	1.34	58.10	873.0	1.81	53.11	1674.8	1.85	57.22	2474.6	2.45	67.41	2918.6	1.92	56.74
232.8	1.67	58.89	873.2	1.37	53.84	1675.0	1.96	57.58	2474.8	2.64	68.55	2918.8	2.18	55.73
232.9	1.39	58.71	873.4	1.60	53.84	1675.2	1.41	57.38	2475.0	2.15	67.81	2919.0	2.11	55.83
233.0	1.52	56.90	873.6	1.44	56.31	1675.4	1.70	58.23	2475.2	2.20	66.77	2919.2	1.96	56.00
233.1	1.37	56.47	873.8	1.52	55.99	1675.6	1.94	58.37	2475.4	1.93	66.72	2919.4	2.24	56.14
233.2	0.90	55.81	874.0	1.36	57.75	1675.8	1.72	59.25	2475.6	2.19	66.02	2919.6	2.19	56.27
233.3	1.05	55.71	874.2	1.37	57.25	1676.0	1.46	58.94	2475.8	2.24	63.72	2919.8	2.05	57.28
233.4	1.50	56.00	874.4	1.46	57.76	1676.2	2.04	59.48	2476.0	2.07	63.74	2920.0	1.82	56.84
233.5	0.72	56.70	874.6	1.59	55.64	1676.4	1.84	59.20	2476.2	1.98	64.74	2920.2	2.03	56.75
233.6	0.89	56.81	874.8	1.25	55.42	1676.6	1.84	59.28	2476.4	2.05	64.77	2920.4	1.83	56.46
233.7	1.72	56.48	875.0	1.36	54.74	1676.8	1.65	60.08	2476.6	2.28	63.80	2920.6	1.72	56.56
233.8	1.97	55.21	875.2	1.44	53.94	1677.0	1.92	60.91	2476.8	2.11	64.28	2920.8	1.98	55.86
233.9	1.87	54.15	875.4	1.23	53.23	1677.2	1.69	61.70	2477.0	1.83	64.39	2921.0	1.66	55.29
234.0	1.91	54.22	875.6	1.38	53.40	1677.4	1.77	61.74	2477.2	1.97	64.12	2921.2	2.02	54.74
234.1	1.59	54.24	875.8	1.61	53.91	1677.6	1.63	62.51	2477.4	2.09	63.93	2921.4	1.76	54.36
234.2	1.34	54.41	876.0	1.35	53.00	1677.8	1.59	62.44	2477.6	2.10	64.21	2921.6	1.57	54.24
234.3	1.68	55.36	876.2	1.57	52.95	1678.0	1.48	63.66	2477.8	1.95	63.00	2921.8	1.91	53.73
234.4	1.93	55.40	876.4	1.35	54.35	1678.2	1.13	62.49	2478.0	2.02	61.88	2922.0	1.79	54.35
234.5	1.73	55.09	876.6	1.32	54.24	1678.4	0.92	62.09	2478.2	1.94	60.19	2922.2	1.82	55.61
234.6	1.73	58.61	876.8	1.33	54.47	1678.6	1.48	62.49	2478.4	1.70	58.64	2922.4	1.77	56.29
234.7	1.74	62.39	877.0	1.35	55.11	1678.8	1.72	62.08	2478.6	1.91	57.79	2922.6	1.92	56.15
234.8	1.54	63.90	877.2	1.62	55.54	1679.0	1.65	60.94	2478.8	1.35	57.12	2922.8	2.17	57.13
234.9	1.61	64.87	877.4	1.25	54.05	1679.2	1.71	61.68	2479.0	1.88	56.87	2923.0	1.87	56.86
235.0	1.55	64.63	877.6	1.50	52.87	1679.4	1.54	62.21	2479.2	1.77	56.29	2923.2	1.82	55.89
235.1	1.84	61.07	877.8	1.21	51.91	1679.6	1.72	61.87	2479.4	2.01	56.67	2923.4	1.90	56.40
235.2	1.71	56.84	878.0	1.32	52.13	1679.8	1.53	62.24	2479.6	1.97	56.83	2923.6	1.96	56.60
235.3	1.78	55.58	878.2	1.69	53.40	1680.0	1.65	62.33	2479.8	1.88	57.22	2923.8	2.09	56.68
235.4	1.70	55.93	878.4	1.54	54.16	1680.2	1.77	61.45	2480.0	1.80	57.20	2924.0	1.70	57.05
235.5	1.74	56.86	878.6	1.62	55.00	1680.4	1.58	60.68	2480.2	1.75	57.81	2924.2	1.86	57.18
235.6	1.59	57.35	878.8	1.60	56.06	1680.6	1.69	60.96	2480.4	1.67	57.84	2924.4	1.90	57.15
235.7	1.54	58.57	879.0	1.51	56.17	1680.8	1.57	60.84	2480.6	1.85	58.77	2924.6	1.80	57.06
235.8	1.53	57.98	879.2	1.78	54.59	1687.8	1.54	61.08	2480.8	1.95	58.87	2924.8	1.86	56.72
235.9	1.58	57.12	879.4	1.34	53.92	1688.0	1.78	62.83	2481.0	1.77	58.77	2925.0	2.02	56.77
236.0	1.59	59.37	879.6	1.27	55.48	1688.2	1.78	64.79	2481.2	1.71	59.07	2925.2	1.59	56.32
236.1	1.98	60.74	879.8	1.24	55.98	1688.4	1.93	64.74	2481.4	1.69	60.18	2925.4	1.98	55.55
236.2	1.92	60.88	880.0	1.27	55.49	1688.6	1.43	65.05	2481.6	1.73	59.96	2925.6	1.85	56.28
236.3	1.46	61.33	880.2	1.26	56.66	1688.8	1.89	65.83	2481.8	1.60	59.33	2925.8	2.04	56.32
236.4	1.15	61.78	880.4	1.38	57.51	1689.0	1.86	65.60	2482.0	1.62	59.70	2926.0	1.98	56.59
236.5	1.43	59.10	880.6	1.25	55.71	1689.2	1.63	64.83	2482.2	1.93	59.03	2926.2	1.96	57.39
236.6	1.72	57.40	880.8	1.05	54.94	1689.4	1.65	64.57	2482.4	1.94	58.04	2926.4	1.70	57.56
236.7	1.87	57.45	881.0	1.06	56.22	1689.6	1.48	64.76	2482.6	1.49	57.29	2926.6	1.61	57.35
236.8	1.70	57.04	881.2	0.92	55.47	1689.8	1.48	64.34	2482.8	1.63	58.07	2926.8	1.98	57.83
236.9	1.62	56.21	881.4	1.26	55.04	1690.0	1.73	64.85	2483.0	1.41	58.27	2927.0	1.74	57.47
237.0	1.82	56.79	881.6	1.27	55.62	1690.2	1.60	64.98	2483.2	1.27	58.76	2927.2	1.80	57.30
237.1	1.71	59.14	881.8	1.41	54.86	1690.4	1.79	64.94	2483.4	1.73	58.39	2927.4	1.70	57.72
237.2	1.34	61.06	882.0	1.37	54.34	1690.6	1.61	64.53	2483.6	1.75	59.13	2927.6	1.75	58.15
237.3	1.43	61.80	882.2	1.27	54.23	1690.8	1.75	64.30	2483.8	1.89	58.60	2927.8	1.62	58.79
237.4	1.51	64.37	884.0	1.32	53.87	1691.0	1.94	63.69	2484.0	2.00	58.52	2928.0	1.52	59.23
237.5	1.37	64.67	884.2	1.41	54.03	1691.2	1.55	63.86	2484.2	2.02	57.91	2928.2	1.70	59.27
237.6	1.38	62.46	884.4	1.40	55.06	1691.4	1.65	63.82	2484.4	2.01	58.29	2928.4	1.86	59.32
237.7	1.43	59.19	884.6	1.53	54.08	1691.6	1.62	63.72	2484.6	2.10	57.06	2928.6	1.66	58.91
237.8	1.39	60.84	884.8	1.31	53.61	1691.8	1.79	63.80	2484.8	2.23	56.94	2928.8	1.72	57.75
237.9	1.64	63.26	885.0	1.49	54.08	1692.0	1.13	63.16	2485.0	1.61	56.40	2929.0	1.51	57.82
238.0	1.55	63.87	885.2	1.58	54.01	1692.2	1.64	62.56	2485.2	2.09	56.08	2929.2	1.62	57.62
238.1	1.53	63.69	885.4	1.41	53.71	1692.4	1.90	62.68	2485.4	2.24	55.77	2929.4	1.50	58.13
238.2	1.51	63.24	885.6	1.65	54.36	1692.6	1.87	61.81	2485.6	1.53	55.94	2929.6	1.58	58.88
238.3	1.62	60.87	885.8	1.43	55.29	1692.8	1.70	61.25	2485.8	1.86	55.40	2929.8	1.64	59.75
238.4	1.59	57.72	886.0	1.61	55.34	1693.0	1.53	61.14	2486.0	1.87	55.64	2930.0	1.60	59.50
238.5	1.33	57.03	886.2	1.50	54.60	1693.2	1.94	61.10	2486.2	1.87	55.57	2930.2	1.37	60.74
238.6	1.48	56.57	886.4	1.63	54.06	1693.4	1.80	60.55	2486.4	1.78	56.29	2930.4	1.65	60.32
238.7	1.73	57.88	886.6	1.49	56.17	1693.6								

239.6	1.91	56.69	888.4	1.28	52.94	1695.4	1.20	62.25	2488.4	1.78	58.58	2932.4	1.73	56.75
239.7	1.89	57.93	888.6	1.84	51.96	1695.6	2.07	63.98	2488.6	2.09	57.47	2932.6	1.71	56.11
239.8	2.12	58.09	888.8	1.60	52.07	1695.8	1.72	64.87	2488.8	2.05	58.30	2932.8	1.53	56.36
239.9	1.91	57.93	889.0	1.54	51.63	1696.0	1.80	66.39	2489.0	1.94	58.59	2933.0	1.51	57.07
240.0	1.87	58.39	889.2	1.73	51.44	1696.2	1.83	69.72	2489.2	1.75	59.51	2933.2	1.66	56.74
240.1	1.94	59.50	889.4	1.67	51.93	1696.4	1.52	70.76	2489.4	1.78	60.17	2933.4	1.70	56.91
240.2	2.01	59.95	889.6	1.80	52.37	1696.6	1.62	70.54	2489.6	1.75	60.97	2933.6	1.82	57.05
240.3	1.72	58.90	889.8	1.51	52.82	1696.8	1.97	71.84	2489.8	1.56	60.05	2933.8	1.62	57.17
240.4	1.88	58.85	890.0	1.34	52.54	1697.0	1.74	72.08	2490.0	1.68	60.22	2934.0	1.55	56.62
240.5	1.39	57.79	890.2	1.79	52.29	1697.2	1.95	70.53	2490.2	1.69	59.68	2934.2	1.81	57.60
240.6	2.01	57.98	890.4	1.58	52.81	1697.4	1.99	69.61	2490.4	1.65	60.09	2934.4	1.78	57.87
240.7	1.90	56.30	890.6	1.13	52.86	1697.6	2.08	69.33	2490.6	1.00	59.13	2934.6	1.63	57.59
240.8	1.82	57.36	890.8	1.68	52.17	1697.8	2.03	69.16	2490.8	1.78	58.50	2934.8	2.07	56.99
240.9	2.00	57.36	891.0	1.73	52.03	1698.0	2.06	68.63	2491.0	1.72	58.97	2935.0	1.92	57.06
241.0	2.19	57.25	891.2	1.43	53.01	1698.2	1.77	67.87	2491.2	2.04	58.96	2935.2	1.55	56.01
241.1	1.88	56.74	891.4	1.59	53.05	1698.4	2.03	69.21	2491.4	1.61	58.76	2935.4	1.91	56.30
241.2	1.61	56.92	891.6	1.79	53.53	1698.6	1.85	71.47	2491.6	1.81	58.79	2935.6	2.07	56.89
241.3	1.90	56.14	891.8	1.28	53.85	1698.8	1.47	71.47	2491.8	1.90	59.84	2935.8	1.52	57.62
241.4	1.97	55.27	892.0	1.60	54.29	1699.0	1.73	70.16	2492.0	1.55	59.64	2936.0	1.95	58.36
241.5	2.00	55.34	892.2	1.59	54.07	1699.2	1.78	69.98	2492.2	1.87	59.71	2936.2	1.73	60.05
241.6	1.75	55.63	892.4	1.60	54.09	1699.4	1.76	67.76	2492.4	1.68	59.32	2936.4	1.29	60.63
241.7	1.96	56.10	892.6	1.40	54.06	1699.6	1.40	63.60	2492.6	1.64	59.80	2936.6	1.72	60.96
241.8	1.84	55.51	892.8	1.42	54.64	1699.8	2.07	62.27	2492.8	1.53	59.17	2936.8	1.58	60.50
241.9	2.03	55.23	893.0	1.65	54.43	1700.0	1.99	62.66	2493.0	1.84	58.81	2937.0	1.68	60.30
242.0	1.75	55.04	893.2	1.35	54.39	1700.2	1.87	61.39	2493.2	1.79	58.92	2937.2	1.91	60.07
242.1	1.83	55.60	893.4	1.58	53.93	1700.4	2.25	61.96	2493.4	1.41	59.45	2937.4	1.68	59.42
242.2	2.22	56.60	893.6	1.54	53.93	1700.6	2.18	62.24	2493.6	1.64	60.06	2937.6	1.74	59.80
242.3	2.00	58.68	893.8	1.38	54.79	1700.8	1.78	62.29	2493.8	1.54	60.63	2937.8	1.83	60.32
242.4	1.55	60.31	894.0	1.40	55.34	1701.0	2.11	61.67	2494.0	1.49	60.74	2938.0	1.81	59.76
242.5	2.11	60.71	894.2	1.46	55.64	1701.2	1.89	63.08	2494.2	1.32	60.96	2938.2	1.56	58.53
242.6	1.92	59.57	894.4	1.12	56.84	1701.4	1.38	63.52	2494.4	1.72	59.77	2938.4	1.76	58.99
242.7	1.62	58.42	894.6	1.35	56.96	1701.6	1.78	64.96	2494.6	1.77	58.63	2938.6	1.71	59.14
242.8	1.92	58.75	894.8	1.47	55.54	1701.8	1.51	65.34	2494.8	1.94	57.81	2938.8	1.63	58.66
242.9	1.75	57.56	895.0	1.54	55.74	1702.0	1.98	66.14	2495.0	1.68	57.59	2939.0	1.77	59.01
243.0	1.87	58.63	895.2	1.33	55.95	1702.2	1.83	65.95	2495.2	1.61	56.52	2939.2	1.76	59.10
243.1	2.08	61.03	895.4	1.34	55.21	1702.4	1.90	65.53	2495.4	1.58	57.38	2939.4	1.60	58.18
243.2	1.99	62.14	895.6	1.50	55.26	1702.6	1.57	64.20	2495.6	1.57	57.94	2939.6	1.85	57.43
243.3	2.35	61.43	895.8	1.27	56.50	1703.0	1.94	63.45	2495.8	1.51	58.14	2939.8	1.78	58.05
243.4	1.86	62.01	896.0	1.43	56.60	1703.2	2.20	64.01	2496.0	1.62	57.33	2940.0	1.81	57.91
243.5	1.76	60.77	896.2	1.41	56.67	1703.4	1.99	62.78	2496.2	1.71	58.02	2940.2	1.84	58.04
243.6	2.22	60.19	896.4	1.64	56.89	1703.6	2.09	62.71	2496.4	1.92	57.48	2940.4	1.87	57.61
243.7	1.54	60.12	896.6	1.21	56.96	1703.8	1.11	63.81	2496.6	1.66	57.42	2940.6	1.87	57.84
243.8	1.95	59.22	896.8	1.41	55.59	1704.0	2.04	64.18	2496.8	1.91	57.00	2940.8	1.99	57.26
243.9	2.18	58.96	897.0	1.13	54.94	1704.2	1.85	63.92	2497.0	1.71	56.85	2941.0	1.64	57.27
244.0	1.95	58.40	897.2	1.65	54.40	1704.4	1.75	64.74	2497.2	1.62	57.19	2941.2	1.96	57.46
244.1	1.62	56.05	897.4	1.37	53.94	1704.6	1.79	64.59	2497.4	1.54	57.14	2941.4	2.20	58.75
244.2	1.81	54.02	897.6	1.55	54.45	1704.8	1.79	63.73	2497.6	1.57	57.01	2941.6	1.79	58.80
244.3	1.90	53.22	897.8	1.55	56.35	1705.0	1.54	63.51	2497.8	1.62	57.54	2941.8	2.12	59.21
244.4	2.31	53.74	898.0	1.60	56.48	1705.2	1.93	63.59	2498.0	1.63	57.65	2942.0	1.90	59.41
244.5	1.83	54.28	898.2	1.61	56.94	1705.4	1.90	63.80	2498.2	1.72	56.69	2942.2	1.76	59.29
244.6	1.97	56.87	898.4	1.52	57.68	1705.6	1.84	63.56	2498.4	1.62	56.60	2942.4	2.00	58.67
244.7	2.13	58.43	898.6	1.49	56.71	1705.8	1.90	64.25	2498.6	1.81	56.15	2942.6	1.83	58.59
244.8	2.11	59.37	898.8	1.55	54.57	1706.0	1.95	64.40	2498.8	1.65	56.06	2942.8	1.59	58.49
244.9	1.91	62.50	899.0	1.61	55.42	1706.2	2.18	63.45	2499.0	1.70	56.40	2943.0	1.95	57.65
245.0	1.93	64.41	899.2	1.51	56.90	1706.4	2.14	63.41	2499.2	1.72	56.25	2943.2	2.07	57.65
245.1	1.94	62.29	899.4	1.67	57.74	1706.6	1.84	64.14	2499.4	1.91	55.83	2943.4	2.05	57.45
245.2	1.71	60.85	899.6	1.59	59.67	1706.8	1.58	63.83	2499.6	2.12	55.03	2943.6	2.02	57.24
245.3	2.40	60.12	899.8	1.63	61.94	1707.0	2.02	64.48	2499.8	1.82	54.02	2943.8	1.88	57.20
245.4	1.76	55.51	900.0	1.52	62.46	1707.2	1.85	65.01	2500.0	1.76	53.86	2944.0	1.93	57.67
245.5	1.85	53.49	900.2	1.56	61.62	1707.4	1.87	64.20	2500.2	1.96	53.68	2944.2	2.26	56.81
245.6	1.86	53.81	900.4	1.42	61.20	1707.6	1.16	63.66	2500.4	2.00	54.13	2944.4	2.23	56.30
245.7	1.80	54.73	900.6	0.91	61.17	1707.8	1.80	64.23	2500.6	2.03	55.30	2944.6	2.07	55.72
245.8	1.76	55.94	900.8	1.48	61.75	1708.0	1.38	64.26	2500.8	2.10	55.87	2944.8	1.98	54.62
245.9	1.69	59.00	901.0	1.53	62.86	1708.2	1.65	64.62	2501.0	1.90	56.33	2945.0	1.99	54.28
246.0	1.91	61.38	901.2	1.64	66.72	1708.4	1.64	65.72	2501.2	1.88	57.26	2945.2	2.16	55.11
246.1	2.04	63.01	901.4	1.49	71.53	1708.6	1.51	66.79	2501.4	1.93	58.25	2945.4	0.89	55.40
246.2	1.56	64.10	901.6	1.42	74.31	1708.8	1.49	66.17	2501.6	1.81	58.86	2945.6	1.84	56.02
246.3	1.61	64.26	901.8	1.30	74.91	1709.0	1.38	65.56	2501.8	1.49	59.23	2945.8	2.20	57.71
246.4	1.42	62.52	902.0	1.23	75.40	1709.2	1.60	65.02	2502.4	1.47	58.30	2946.0	1.66	57.06
246.5	1.96	60.69	902.2	1.41	73.20	1709.4	1.62	64.56	2502.6	1.34	58.29	2946.2	2.09	56.66
246.6	1.66	60.66	902.4	1.29	69.68	1709.6	1.57	64.04	2502.8	0.56	57.41	2946.4	1.77	56.41
246.7	1.72	60.89	902.6	1.30	73.85	1709.8	1.66	64.17	2503.0	1.57	56.17	2946.6	1.86	55.28
246.8	2.01	62.85	902.8	1.63	71.98	1710.0								

247.7	1.91	54.96	904.6	0.99	69.30	1711.8	1.16	64.65	2505.0	1.77	55.69	2948.6	1.91	57.68
247.8	1.86	54.58	904.8	1.14	68.63	1712.0	1.65	65.55	2505.2	1.72	55.90	2948.8	1.72	57.06
247.9	1.77	54.70	905.0	1.27	67.77	1712.2	1.62	64.66	2505.4	1.71	57.08	2949.0	1.95	56.75
248.0	1.64	55.43	905.2	1.33	66.40	1712.4	1.76	63.45	2505.6	1.69	57.24	2949.2	1.57	58.12
248.1	2.09	55.34	905.4	1.30	65.44	1712.6	1.56	63.61	2505.8	1.87	57.98	2949.4	1.71	58.88
248.2	2.12	55.00	905.6	1.40	66.09	1712.8	1.42	63.71	2506.0	1.70	58.08	2949.6	1.76	59.94
248.3	2.32	54.97	905.8	1.29	65.15	1713.0	1.59	62.09	2506.2	1.73	58.52	2949.8	1.74	60.91
248.4	2.49	54.50	906.0	1.39	64.39	1713.2	1.45	62.13	2506.4	1.54	59.19	2950.0	1.72	61.41
248.5	2.15	54.74	906.2	1.18	63.89	1713.4	1.57	63.18	2506.6	1.64	61.96	2950.2	1.32	60.43
248.6	2.23	54.91	906.4	1.41	63.09	1713.6	1.48	62.97	2506.8	1.67	62.51	2950.4	1.41	62.09
248.7	2.09	57.44	906.6	1.18	62.42	1713.8	1.53	63.43	2507.0	1.86	63.21	2950.6	1.38	61.89
248.8	2.17	60.04	906.8	1.58	60.84	1714.0	1.39	64.92	2507.2	1.61	62.98	2950.8	1.41	61.63
248.9	2.17	62.73	907.0	1.25	58.92	1714.2	1.56	64.77	2507.4	1.81	62.64	2951.0	1.05	62.29
249.0	2.40	67.25	907.2	1.44	56.19	1714.4	1.50	64.60	2507.6	1.55	60.08	2951.2	1.87	62.13
249.1	2.03	69.42	907.4	1.21	55.88	1714.6	1.60	65.07	2507.8	1.77	60.04	2951.4	1.49	59.96
249.2	2.14	67.53	907.6	1.42	54.93	1714.8	1.64	63.88	2508.0	1.84	59.99	2951.6	1.43	61.03
249.3	2.45	65.04	907.8	1.04	55.08	1715.0	1.45	63.23	2508.2	1.64	60.37	2951.8	1.71	61.10
249.4	2.36	62.06	908.0	1.44	56.42	1715.2	1.53	63.25	2508.4	1.71	60.91	2952.0	1.86	60.63
249.5	2.22	55.94	908.2	1.20	57.13	1715.4	1.36	62.83	2508.6	1.47	60.55	2952.2	1.91	61.40
249.6	2.23	54.01	908.4	1.20	55.30	1715.6	1.52	62.36	2508.8	1.53	60.29	2952.4	2.07	61.78
249.7	2.38	53.96	908.6	1.45	53.86	1715.8	1.41	63.07	2509.0	1.72	60.64	2952.6	1.96	60.66
249.8	2.46	53.51	908.8	1.53	52.64	1716.0	1.31	62.57	2509.2	1.67	61.22	2952.8	1.80	60.76
249.9	2.27	54.03	909.0	1.32	51.59	1716.2	1.62	63.20	2509.4	1.91	60.23	2953.0	1.81	61.33
250.0	2.16	55.35	909.2	1.44	50.91	1716.4	1.63	64.50	2509.6	1.80	60.18	2953.2	1.85	61.09
250.1	2.07	55.53	909.4	1.57	52.09	1716.6	1.36	72.02	2509.8	1.92	60.57	2953.4	1.95	60.73
250.2	2.34	54.89	909.6	1.70	52.21	1716.8	1.55	71.22	2510.0	1.93	59.75	2953.6	1.97	61.07
250.3	2.37	54.89	909.8	1.59	52.27	1717.0	0.92	71.05	2510.2	1.79	59.15	2953.8	2.09	61.99
250.4	2.45	55.12	910.0	1.66	51.89	1717.2	1.68	70.59	2510.4	1.89	58.44	2954.0	2.19	61.48
250.5	2.12	54.06	910.2	1.67	51.72	1717.4	1.86	69.10	2510.6	1.87	57.82	2954.2	2.01	62.56
250.6	2.14	54.18	910.4	0.99	51.20	1717.6	1.85	60.33	2510.8	1.77	57.37	2954.4	1.94	63.21
250.7	2.25	54.67	910.6	1.78	51.58	1717.8	1.86	60.59	2511.0	1.89	57.62	2954.6	2.13	62.63
250.8	2.53	55.15	910.8	1.57	51.89	1718.0	2.14	61.40	2511.2	1.58	57.90	2954.8	1.72	60.87
250.9	1.96	54.47	911.0	1.68	51.62	1718.2	1.96	61.71	2511.4	1.96	58.40	2955.0	2.08	60.77
251.0	2.34	55.47	911.2	1.48	51.35	1718.4	1.82	63.33	2511.6	1.39	59.42	2955.2	2.02	59.43
251.1	2.54	55.00	911.4	1.83	50.98	1718.6	1.81	64.91	2511.8	1.89	59.51	2955.4	2.26	57.86
251.2	2.19	54.82	911.6	1.40	50.71	1718.8	1.97	65.32	2512.0	1.96	59.81	2955.6	2.24	57.73
251.3	2.21	54.54	911.8	1.67	51.06	1719.0	1.85	64.83	2512.2	1.77	59.76	2955.8	2.11	57.54
251.4	2.49	54.43	912.0	1.54	51.89	1719.2	2.11	63.77	2512.4	1.64	59.84	2956.0	2.21	56.71
251.5	2.47	53.95	912.2	1.59	52.87	1719.4	1.83	62.67	2512.6	1.50	59.26	2956.2	1.99	55.93
251.6	2.20	54.48	912.4	1.24	54.19	1719.6	2.01	63.12	2512.8	1.55	60.16	2956.4	2.28	55.85
251.7	2.28	56.87	912.6	1.62	54.11	1719.8	1.86	63.41	2513.0	1.41	59.78	2956.6	2.21	55.79
251.8	2.31	57.35	912.8	1.43	54.24	1720.0	1.68	62.95	2513.2	1.61	59.82	2956.8	2.28	56.04
251.9	2.36	57.87	913.0	1.49	53.76	1720.2	1.86	62.48	2513.4	1.58	60.14	2957.0	2.08	56.19
252.0	1.94	58.33	913.2	1.23	53.27	1720.4	1.80	61.93	2513.6	1.40	60.07	2957.2	2.09	56.25
252.1	2.03	58.40	913.4	1.47	52.97	1720.6	1.77	61.30	2513.8	1.48	59.35	2957.4	1.83	57.18
252.2	2.43	56.68	913.6	1.32	53.46	1720.8	1.92	61.08	2514.0	1.60	60.18	2957.6	1.86	57.44
252.3	2.15	56.18	913.8	1.04	53.37	1721.0	1.76	62.30	2514.2	1.74	59.61	2957.8	1.96	57.48
252.4	2.27	56.23	914.0	1.41	53.67	1721.2	1.89	63.69	2514.4	1.63	59.06	2958.0	2.03	57.22
252.5	2.45	55.93	914.2	1.34	53.33	1721.4	1.76	65.30	2514.6	1.59	59.08	2958.2	2.27	57.24
252.6	2.57	56.99	914.4	1.63	52.87	1721.6	1.99	65.95	2514.8	1.80	58.87	2958.4	2.34	56.56
252.7	2.11	56.91	914.6	1.50	53.55	1721.8	1.67	66.26	2515.0	1.54	58.43	2958.6	2.02	56.16
252.8	2.23	58.64	914.8	1.67	54.22	1722.0	1.88	65.54	2515.2	1.40	58.54	2958.8	1.91	55.44
252.9	2.27	58.39	915.0	1.40	53.86	1722.2	1.92	64.95	2515.4	1.68	59.53	2959.0	1.97	56.30
253.0	2.72	58.86	915.2	1.48	55.06	1722.4	1.63	63.82	2515.6	1.58	60.00	2959.2	1.90	59.49
253.1	2.28	58.41	915.4	1.27	54.74	1722.6	1.96	62.68	2515.8	1.43	59.56	2959.4	1.97	59.66
253.2	2.58	58.11	915.6	1.34	53.89	1722.8	1.79	62.69	2516.0	1.57	59.00	2959.6	1.50	60.24
253.3	2.67	56.57	915.8	1.49	53.46	1723.0	1.89	63.17	2516.2	1.68	58.68	2959.8	1.75	61.90
253.4	2.42	57.25	916.0	1.39	53.39	1723.2	2.07	63.13	2516.4	1.57	57.30	2960.0	1.70	61.75
253.5	2.29	56.90	916.2	1.41	52.34	1723.4	2.04	62.75	2516.6	1.62	57.46	2960.2	1.67	59.47
253.6	2.46	55.94	916.4	1.57	52.73	1723.6	1.98	63.15	2516.8	1.70	57.41	2960.4	1.91	59.54
253.7	2.38	56.42	916.6	1.46	53.70	1723.8	2.16	62.50	2517.0	1.81	57.18	2960.6	1.59	59.79
253.8	2.50	56.72	916.8	1.56	53.62	1724.0	1.85	61.92	2517.2	1.72	57.17	2960.8	1.47	58.74
253.9	2.19	55.96	917.0	1.48	53.99	1724.2	2.00	61.91	2517.4	1.69	57.99	2961.0	1.63	58.16
254.0	2.30	56.24	917.2	1.59	54.27	1724.4	2.04	61.52	2517.6	1.55	57.93	2961.2	1.66	60.34
254.1	2.44	56.77	917.4	1.46	53.72	1724.6	1.88	60.71	2517.8	1.64	58.83	2961.4	1.56	60.69
254.2	2.68	56.31	917.6	1.38	53.36	1724.8	1.91	60.40	2518.0	1.60	58.89	2961.6	1.70	59.91
254.3	2.83	56.30	917.8	1.50	53.70	1725.0	1.88	60.40	2518.2	1.53	59.61	2961.8	1.74	60.64
254.4	2.55	57.26	918.0	1.53	54.05	1725.2	1.86	60.37	2518.4	1.73	59.44	2962.0	1.79	61.67
254.5	2.16	58.04	918.2	1.42	53.79	1725.4	1.52	60.49	2518.6	1.66	58.86	2962.2	1.85	59.62
254.6	2.63	58.55	918.4	1.55	54.26	1725.6	1.64	60.84	2518.8	1.75	58.42	2962.4	1.73	59.98
254.7	2.40	59.79	918.6	1.50	53.25	1725.8	1.58	61.46	2519.0	1.44	58.79	2962.6	1.83	60.58
254.8	2.23	60.57	918.8	1.40	53.18	1726.0	1.51	61.20	2519.2	1.56	58.39	2962.8	1.72	60.78
254.9	2.37	61.14	919.0	1.44	53.41	1726.2								

255.8	2.05	58.82	920.8	1.83	54.15	1728.0	1.46	65.57	2521.2	1.58	61.41	2964.8	2.01	60.33
255.9	2.08	58.60	921.0	1.65	54.25	1728.2	1.53	65.66	2521.4	1.45	61.14	2965.0	1.63	61.28
256.0	1.89	57.73	921.2	1.68	54.88	1728.4	1.77	64.17	2521.6	1.50	61.07	2965.2	1.74	61.51
256.1	2.07	57.60	921.4	1.58	55.35	1728.6	1.71	65.65	2521.8	1.61	60.50	2965.4	1.67	60.77
256.2	2.04	56.81	921.6	1.26	55.65	1728.8	1.86	66.55	2522.0	1.54	60.47	2965.6	1.67	60.25
256.3	2.16	56.43	921.8	1.57	55.30	1729.0	1.62	66.25	2522.2	1.49	60.34	2965.8	1.78	60.06
256.4	2.01	57.39	922.0	1.55	56.24	1729.2	1.68	66.87	2522.4	1.61	60.00	2966.0	1.98	59.05
256.5	2.32	59.18	922.2	1.58	56.71	1729.4	1.66	67.76	2522.6	1.55	59.61	2966.2	1.86	59.02
256.6	2.13	59.26	922.4	1.54	56.28	1729.6	1.61	66.51	2522.8	1.46	58.83	2966.4	1.80	59.43
256.7	2.06	61.91	922.6	1.53	55.65	1729.8	1.54	65.17	2523.0	1.63	59.03	2966.6	1.96	59.03
256.8	2.13	63.13	922.8	1.51	55.29	1730.0	1.70	65.65	2523.2	1.55	57.75	2966.8	2.08	58.05
256.9	2.14	63.14	923.0	1.39	53.68	1730.2	1.74	65.05	2523.4	1.52	57.81	2967.0	1.92	57.76
257.0	1.80	63.26	923.2	1.43	53.10	1730.4	1.92	63.97	2523.6	1.45	57.58	2967.2	1.78	57.12
257.1	2.07	63.43	923.4	1.48	53.32	1730.6	1.73	63.98	2523.8	1.55	57.36	2967.4	2.27	56.46
257.2	1.98	61.89	923.6	1.76	53.16	1730.8	1.86	64.06	2524.0	1.62	57.24	2967.6	1.96	56.53
257.3	1.92	61.51	923.8	1.73	53.04	1731.0	1.91	62.54	2524.2	1.61	57.29	2967.8	2.11	57.47
257.4	2.11	61.30	924.0	1.43	53.94	1731.2	1.62	62.71	2524.4	1.32	57.10	2968.0	2.24	57.87
257.5	2.33	59.74	924.2	1.51	53.34	1731.4	1.47	63.18	2524.6	1.63	56.35	2968.2	2.08	58.11
257.6	1.98	58.15	924.4	1.55	53.44	1731.6	1.74	64.27	2524.8	1.13	57.26	2968.4	2.17	58.38
257.7	1.90	56.96	924.6	1.62	53.07	1731.8	2.01	65.25	2525.0	1.65	56.85	2968.6	2.30	58.08
257.8	2.69	55.73	924.8	1.51	53.82	1732.0	1.65	66.85	2525.2	1.62	57.12	2968.8	2.03	57.87
257.9	1.92	54.35	925.0	1.44	54.30	1732.2	1.66	66.26	2525.4	1.51	58.33	2969.0	2.01	61.20
258.0	1.97	54.68	925.2	1.50	54.64	1732.4	1.77	66.52	2525.6	1.33	58.80	2969.2	2.14	60.84
258.1	2.01	54.90	925.4	1.76	55.70	1732.6	1.10	65.43	2525.8	1.63	58.92	2969.4	2.01	61.74
258.2	2.34	55.06	925.6	1.56	58.03	1732.8	1.74	66.26	2526.0	1.26	58.71	2969.6	2.31	62.22
258.3	1.95	56.17	925.8	1.12	59.53	1733.0	1.76	65.12	2526.2	1.53	58.82	2969.8	2.15	62.26
258.4	1.97	56.56	926.0	1.71	59.76	1733.2	1.54	64.97	2526.4	0.71	58.10	2970.0	2.29	60.05
258.5	2.31	57.02	926.2	1.67	59.57	1733.4	1.68	63.93	2526.6	1.43	58.85	2970.2	2.38	60.22
258.6	2.14	57.65	926.4	1.50	58.99	1733.6	1.88	64.05	2526.8	1.27	59.31	2970.4	2.47	59.01
258.7	2.18	57.91	926.6	1.38	57.27	1733.8	2.01	62.16	2527.0	1.42	59.74	2970.6	2.20	58.46
258.8	2.14	56.35	926.8	1.47	55.30	1734.0	1.92	62.49	2527.2	1.20	59.12	2970.8	2.10	58.17
258.9	2.23	57.10	927.0	1.18	54.53	1734.2	1.95	62.20	2527.4	1.47	58.67	2971.0	2.35	56.79
259.0	2.81	56.96	927.2	1.47	54.82	1734.4	2.07	61.29	2527.6	1.37	58.46	2971.2	2.09	57.32
259.1	2.84	61.95	927.4	1.45	56.19	1734.6	1.94	60.39	2527.8	1.51	57.37	2971.4	1.83	57.79
259.2	2.51	62.64	927.6	1.25	58.03	1734.8	1.73	60.06	2528.0	1.71	57.90	2971.6	1.89	58.29
259.3	2.17	64.96	927.8	1.47	61.41	1735.0	2.19	59.06	2528.2	1.74	59.07	2971.8	1.71	58.28
259.4	2.53	66.47	928.0	1.43	63.69	1735.2	1.97	59.07	2528.4	1.64	60.30	2972.0	1.93	59.00
259.5	2.22	66.16	928.2	1.42	64.40	1735.4	1.99	59.87	2528.6	1.76	60.70	2972.2	1.72	58.74
259.6	2.22	61.08	928.4	1.27	64.15	1735.6	1.92	60.48	2528.8	1.59	60.52	2972.4	1.90	59.14
259.7	2.62	61.25	928.6	1.28	63.63	1735.8	1.95	60.88	2529.0	1.32	61.01	2972.6	1.91	59.68
259.8	2.54	59.86	928.8	1.51	60.77	1736.0	2.05	61.47	2529.2	1.58	60.30	2972.8	1.99	60.39
259.9	1.97	60.46	929.0	1.57	58.60	1736.2	1.89	62.50	2529.4	1.50	59.84	2973.0	2.01	60.10
260.0	3.16	64.91	929.2	1.48	58.12	1736.4	1.82	61.97	2529.6	1.43	59.82	2973.2	1.80	60.07
260.1	2.90	65.96	929.4	1.46	56.25	1736.6	1.97	61.83	2529.8	1.32	60.20	2973.4	1.98	59.73
260.2	2.35	66.05	929.6	1.44	55.01	1736.8	1.85	62.19	2530.0	1.14	59.63	2973.6	1.70	59.08
260.3	2.48	65.61	929.8	1.49	54.82	1737.0	1.99	61.68	2530.2	1.03	60.33	2973.8	2.05	57.78
260.4	2.47	66.07	930.0	1.45	54.58	1737.2	2.07	61.73	2530.4	1.21	60.75	2974.0	1.55	57.85
260.5	2.26	64.25	930.2	1.61	54.21	1737.4	1.91	61.72	2530.6	1.17	60.46	2974.2	1.95	57.62
260.6	3.00	64.14	930.4	1.34	54.35	1737.6	2.07	62.27	2530.8	1.29	61.47	2974.4	1.87	58.57
260.7	2.51	64.78	930.6	1.29	55.13	1737.8	1.91	62.46	2531.0	1.15	62.31	2974.6	2.09	59.56
260.8	2.25	65.98	930.8	1.44	55.86	1738.0	1.84	62.63	2531.2	1.07	62.38	2974.8	1.77	61.34
260.9	2.84	64.19	931.0	1.30	56.16	1738.2	1.86	62.29	2531.4	1.15	62.55	2975.0	1.63	62.78
261.0	2.62	62.23	931.2	1.43	56.78	1738.4	2.13	63.30	2531.6	1.06	63.52	2975.2	1.89	63.08
261.1	2.27	61.27	931.4	1.49	56.95	1738.6	1.68	63.43	2531.8	1.16	62.90	2975.4	1.90	62.66
261.2	1.77	59.84	931.6	1.48	57.09	1738.8	1.71	62.82	2532.0	1.27	61.38	2975.6	1.78	63.40
261.3	2.68	60.75	931.8	1.57	56.59	1739.0	1.65	62.79	2532.2	1.35	61.09	2975.8	1.68	63.41
261.4	2.80	63.56	932.0	1.69	57.06	1739.2	1.97	64.46	2532.4	1.36	60.72	2976.0	1.86	62.00
261.5	2.53	63.10	932.2	1.43	57.23	1739.4	1.61	63.96	2532.6	1.29	59.58	2976.2	1.62	61.95
261.6	2.16	63.86	932.4	1.42	57.62	1739.6	1.97	63.15	2532.8	1.26	60.62	2976.4	1.61	62.05
261.7	2.47	64.37	932.6	1.53	56.79	1739.8	1.91	62.87	2533.0	1.55	62.73	2976.6	1.95	59.68
261.8	2.21	62.56	932.8	1.40	57.52	1740.0	1.76	63.06	2533.2	1.43	66.95	2976.8	1.81	58.89
261.9	2.66	58.68	933.0	1.64	58.76	1740.2	1.83	63.53	2533.4	1.58	67.18	2977.0	1.91	58.90
262.0	2.47	58.76	933.2	1.35	58.41	1740.4	1.81	63.95	2533.6	1.42	67.73	2977.2	1.83	58.38
262.1	2.75	58.44	933.4	1.40	58.43	1740.6	1.84	64.30	2533.8	1.31	66.35	2977.4	1.92	58.21
262.2	2.23	59.26	933.6	1.04	58.71	1740.8	1.66	64.88	2534.0	1.51	68.75	2977.6	1.96	58.87
262.3	2.40	59.74	933.8	1.59	59.05	1741.0	1.98	65.39	2534.2	1.53	64.04	2977.8	2.13	58.63
262.4	2.39	60.40	934.0	1.44	58.78	1741.2	1.93	62.96	2534.4	1.43	63.06	2978.0	1.93	57.93
262.5	2.64	61.07	934.2	1.47	59.47	1741.4	1.82	61.68	2534.6	1.71	61.94	2978.2	2.04	58.43
262.6	2.28	61.63	934.4	1.51	59.47	1741.6	1.68	60.95	2534.8	1.48	61.94	2978.4	1.96	57.83
262.7	2.50	60.87	934.6	1.34	59.96	1741.8	1.73	59.98	2535.0	1.61	58.10	2978.6	1.85	57.51
262.8	2.56	61.22	934.8	1.59	60.80	1742.0	2.16	59.57	2535.2	1.29	57.75	2978.8	1.76	57.37
262.9	2.34	61.16	935.0	1.57	61.60	1742.2	2.04	59.60	2535.4	1.51	58.57	2979.0	1.89	57.41
263.0	2.40	60.48	935.2	1.70	61.31	1742.4								

263.9	1.68	58.79	937.0	1.38	58.46	1744.2	1.91	60.76	2537.4	1.85	61.49	2981.0	1.52	57.21
264.0	2.54	60.11	937.2	1.55	56.20	1744.4	1.83	59.95	2537.6	1.59	61.45	2981.2	1.55	56.18
264.1	2.21	60.29	937.4	1.54	56.58	1744.6	2.03	58.71	2537.8	1.75	62.40	2981.4	1.94	56.19
264.2	2.77	60.26	937.6	1.51	55.42	1744.8	1.83	58.07	2538.0	1.87	61.63	2981.6	1.73	56.33
264.3	2.65	61.10	937.8	1.36	54.62	1745.0	1.66	56.72	2538.2	1.62	61.60	2981.8	1.65	56.04
264.4	2.36	62.38	938.0	1.69	55.46	1745.2	1.76	56.35	2538.4	1.86	61.74	2982.0	1.74	56.12
264.5	2.76	62.09	938.2	1.56	56.25	1745.4	2.15	56.90	2538.6	1.62	61.35	2982.2	1.89	56.42
264.6	2.73	62.19	938.4	1.44	55.65	1745.6	1.35	57.87	2538.8	1.46	59.72	2982.4	1.93	56.28
264.7	2.44	61.83	938.6	1.55	55.80	1745.8	1.60	57.47	2539.0	1.92	59.60	2982.6	1.62	56.18
264.8	2.20	61.20	938.8	1.65	56.03	1746.0	1.87	57.88	2539.2	1.40	60.50	2982.8	1.55	56.21
264.9	2.76	59.11	939.0	1.48	55.87	1746.2	1.62	58.28	2539.4	1.63	60.52	2983.0	1.57	57.01
265.0	1.76	58.55	939.2	1.52	54.87	1746.4	1.87	58.41	2539.6	1.71	60.60	2983.2	1.74	56.34
265.1	2.00	59.66	939.4	1.40	54.17	1746.6	2.13	57.50	2539.8	1.82	60.88	2983.4	1.79	56.07
265.2	2.63	61.25	939.6	1.09	55.09	1746.8	1.61	58.23	2540.0	1.70	60.64	2983.6	1.74	56.03
265.3	2.42	62.12	939.8	1.37	55.61	1747.0	1.84	58.63	2540.2	1.24	59.37	2983.8	1.64	56.31
265.4	2.95	63.67	940.0	1.58	55.59	1747.2	1.83	58.66	2540.4	1.69	58.13	2984.0	1.66	55.83
265.5	2.41	62.49	940.2	1.48	56.06	1747.4	1.89	58.01	2540.6	1.63	58.01	2984.2	1.60	55.73
265.6	2.52	61.98	940.4	1.64	57.58	1747.6	1.94	58.27	2540.8	1.45	57.88	2984.4	1.31	55.82
265.7	1.99	60.97	940.6	1.56	57.29	1747.8	1.58	58.69	2541.0	1.59	57.67	2984.6	1.70	55.27
265.8	2.30	61.94	940.8	1.45	56.87	1748.0	1.50	58.74	2541.2	1.87	57.98	2984.8	1.73	56.10
265.9	2.19	61.83	941.0	1.44	57.60	1748.2	2.06	60.32	2541.4	1.88	58.56	2985.0	1.49	55.61
266.0	2.00	64.17	941.2	1.44	58.31	1748.4	1.81	60.78	2541.6	1.59	58.82	2985.2	1.77	56.25
266.1	2.10	64.61	941.4	1.20	58.12	1748.6	1.61	61.23	2541.8	1.57	59.13	2985.4	1.61	56.26
266.2	2.16	65.89	941.6	1.60	57.43	1748.8	1.54	61.06	2542.0	1.45	58.96	2985.6	1.98	56.70
266.3	2.32	65.30	941.8	1.62	57.78	1749.0	1.88	61.02	2542.2	1.48	59.57	2985.8	1.69	56.29
266.4	2.36	66.50	942.0	1.49	56.56	1749.2	1.72	59.64	2542.4	1.50	58.77	2986.0	1.56	56.58
266.5	2.11	66.43	942.2	1.65	55.95	1749.4	1.91	59.45	2542.6	1.48	59.24	2986.2	1.51	59.35
266.6	1.89	67.64	942.4	1.89	55.38	1749.6	1.71	59.03	2542.8	1.54	58.98	2986.4	1.65	61.10
266.7	1.90	67.46	942.6	1.78	55.53	1749.8	1.63	58.57	2543.0	1.76	58.75	2986.6	1.56	62.33
266.8	1.51	66.56	942.8	1.65	54.95	1750.0	1.66	58.25	2543.2	1.40	57.50	2986.8	1.62	62.18
266.9	1.99	64.38	943.0	1.34	55.58	1750.2	1.56	58.27	2543.4	1.50	57.50	2987.0	1.66	62.79
267.0	2.33	62.76	943.2	1.73	57.31	1750.4	2.06	58.60	2543.6	1.53	56.61	2987.2	1.70	59.99
267.1	1.84	61.23	943.4	1.64	57.55	1750.6	1.78	57.96	2543.8	1.69	56.72	2987.4	1.71	58.51
267.2	1.66	60.68	943.6	1.69	58.72	1750.8	1.66	57.86	2544.0	1.67	57.06	2987.6	1.49	57.09
267.3	2.18	60.90	943.8	1.66	58.58	1751.0	1.07	58.20	2544.2	1.65	57.94	2987.8	1.49	57.66
267.4	2.47	61.62	944.0	1.64	59.21	1751.2	1.68	58.33	2544.4	1.67	57.93	2988.0	1.47	57.45
267.5	2.45	62.56	944.2	1.52	57.12	1751.4	1.62	58.62	2544.6	1.56	57.67	2988.2	1.61	57.23
267.6	1.39	61.35	944.4	1.62	56.90	1751.6	1.66	60.11	2544.8	1.23	57.02	2988.4	1.40	57.37
267.7	2.30	60.94	944.6	1.72	56.14	1751.8	1.76	60.54	2545.0	1.58	56.29	2988.6	1.49	57.33
267.8	2.19	60.34	944.8	1.80	57.37	1752.0	1.89	60.75	2545.2	1.50	55.76	2988.8	1.68	57.07
267.9	2.40	59.83	945.0	1.72	58.12	1752.2	1.59	60.28	2545.4	1.77	55.12	2989.0	1.61	57.59
268.0	2.41	58.65	945.2	1.54	58.70	1752.4	1.60	60.30	2545.6	1.65	55.90	2989.2	1.61	57.13
268.1	2.27	59.30	945.4	1.53	59.07	1752.6	1.62	59.98	2545.8	1.86	56.14	2989.4	1.55	56.25
268.2	2.40	59.72	945.6	1.33	59.13	1752.8	1.04	61.20	2546.0	1.66	55.96	2989.6	1.72	56.84
268.3	2.16	59.99	945.8	1.45	58.93	1753.0	1.73	60.73	2546.2	1.79	55.73	2989.8	1.61	57.18
268.4	2.19	59.99	946.0	1.83	57.96	1753.2	1.41	61.59	2546.4	1.71	55.96	2990.0	1.64	56.78
268.5	1.97	59.38	946.2	1.78	57.55	1753.4	1.46	60.87	2546.6	1.77	55.41	2990.2	1.84	57.59
268.6	1.87	59.39	946.4	1.61	57.22	1753.6	1.19	60.43	2546.8	1.89	55.26	2990.4	1.78	58.51
268.7	1.94	58.60	946.6	1.77	56.79	1753.8	1.73	59.28	2547.0	1.57	55.86	2990.6	1.53	58.17
268.8	1.99	59.46	946.8	1.71	56.04	1754.0	1.55	59.14	2547.2	1.49	56.10	2990.8	1.57	58.09
268.9	2.11	58.98	947.0	1.64	55.74	1754.2	1.89	59.25	2547.4	1.56	56.36	2991.0	1.37	59.18
269.0	1.98	59.22	947.2	1.62	56.10	1754.4	1.60	59.43	2547.6	1.77	56.43	2991.2	1.58	59.34
269.1	1.84	59.09	947.4	1.75	55.80	1754.6	1.71	58.91	2547.8	2.06	56.09	2991.4	1.47	59.27
269.2	1.73	59.23	947.6	1.64	55.45	1754.8	1.80	59.29	2548.0	1.56	55.67	2991.6	1.56	59.45
269.3	1.96	58.17	947.8	1.63	55.83	1755.0	1.99	59.13	2548.2	1.78	55.35	2991.8	1.61	59.39
269.4	2.13	57.98	948.0	1.67	55.60	1755.2	1.84	58.11	2548.4	1.63	55.03	2992.0	1.60	58.30
269.5	1.89	57.89	948.2	1.87	55.57	1755.4	1.99	59.10	2548.6	1.47	55.06	2992.2	1.62	57.68
269.6	2.20	57.33	948.4	1.68	55.50	1755.6	1.55	59.45	2548.8	1.57	55.50	2992.4	1.59	57.31
269.7	2.02	56.35	948.6	1.86	55.85	1755.8	1.64	59.22	2549.0	1.55	56.11	2992.6	1.53	56.85
269.8	1.89	55.38	948.8	1.64	56.00	1756.0	1.71	60.06	2549.2	1.75	57.00	2992.8	1.46	56.15
269.9	1.84	56.17	949.0	1.63	56.24	1756.2	1.82	60.37	2549.4	1.52	57.08	2993.0	1.43	55.93
270.0	2.23	56.18	949.2	1.72	56.33	1756.4	1.62	59.99	2549.6	1.55	57.55	2993.2	1.34	56.76
270.1	2.13	55.54	949.4	1.81	57.50	1756.6	1.25	61.09	2549.8	1.17	58.14	2993.4	1.53	57.09
270.2	2.18	55.16	949.6	1.97	57.23	1756.8	1.66	60.93	2550.0	1.48	58.11	2993.6	1.65	57.09
270.3	2.14	54.47	949.8	1.70	57.07	1757.0	1.66	60.87	2550.2	1.76	57.53	2993.8	1.55	57.25
271.2	1.91	53.20	950.0	1.74	56.94	1757.2	1.97	61.43	2550.4	1.48	58.51	2994.0	1.46	57.85
271.3	1.91	52.65	950.2	1.87	56.42	1757.4	1.47	60.85	2550.6	1.73	57.73	2994.2	1.50	58.22
271.4	1.98	52.81	950.4	1.58	54.88	1757.6	1.52	59.96	2550.8	0.96	57.41	2994.4	1.30	57.88
271.5	2.36	53.05	950.6	1.51	55.62	1757.8	1.63	60.60	2551.0	1.55	57.00	2994.6	1.68	58.65
271.6	2.19	53.56	950.8	1.71	56.70	1758.0	1.88	60.07	2551.2	1.53	57.25	2994.8	1.88	58.94
271.7	1.96	54.29	951.0	1.70	56.12	1758.2	1.82	60.90	2551.4	1.44	56.82	2995.0	1.54	58.75
271.8	2.18	54.80	951.2	1.47	56.05	1758.4	1.94	61.52	2551.6	1.65	57.06	2995.2	1.52	57.90
271.9	2.28	54.48	951.4	1.32	57.13	1758.6								

272.8	1.91	54.54	953.2	1.74	56.72	1760.4	1.93	61.07	2553.6	1.54	56.93	2997.2	1.42	60.11
272.9	2.03	54.29	953.4	1.61	56.75	1760.6	2.03	60.75	2553.8	1.67	56.52	2997.4	1.61	59.50
273.0	2.01	54.81	953.6	1.93	56.69	1760.8	2.00	59.71	2554.0	1.78	56.48	2997.6	1.59	58.65
273.1	2.02	55.70	953.8	1.75	58.36	1761.0	2.13	59.99	2554.2	1.45	57.02	2997.8	1.70	56.44
273.2	2.11	54.69	954.0	1.79	58.83	1761.2	2.05	60.08	2554.4	1.82	56.64	2998.0	1.55	56.85
273.3	2.35	54.36	954.2	1.55	59.00	1761.4	2.11	61.07	2554.6	1.56	56.70	2998.2	1.15	57.91
273.4	2.25	53.79	954.4	1.74	62.59	1761.6	1.66	60.90	2554.8	1.70	56.02	2998.4	1.70	58.75
273.5	1.97	53.49	954.6	1.54	60.88	1761.8	2.04	61.29	2555.0	1.43	55.41	2998.6	1.64	59.40
273.6	2.09	52.17	954.8	1.18	60.03	1762.0	1.87	60.69	2555.2	0.81	54.70	2998.8	1.75	60.21
273.7	2.16	52.70	955.0	1.50	59.20	1762.2	1.87	60.84	2555.4	1.59	54.67	2999.0	1.83	60.36
273.8	2.02	52.37	955.2	1.53	58.76	1762.4	2.09	61.16	2555.6	1.47	55.19	2999.2	1.90	60.44
273.9	1.86	52.38	955.4	1.59	54.35	1762.6	1.42	61.55	2555.8	1.39	55.38	2999.4	1.65	60.51
274.0	1.89	52.95	955.6	1.44	54.24	1762.8	2.13	61.24	2556.0	1.55	55.71	2999.6	1.65	60.65
274.1	1.87	52.54	955.8	1.74	54.32	1763.0	1.91	61.02	2556.2	1.42	55.93	2999.8	1.64	60.91
274.2	2.22	52.65	956.0	1.57	53.96	1763.2	1.86	60.03	2556.4	1.69	56.58	3000.0	2.01	60.61
274.3	1.82	53.25	956.2	1.61	54.17	1763.4	1.90	59.01	2556.6	1.58	56.25	3000.2	1.54	59.73
274.4	2.14	53.65	956.4	1.41	54.57	1763.6	2.06	58.28	2556.8	1.49	55.98	3000.4	1.53	58.84
274.5	2.18	53.35	956.6	1.45	54.97	1763.8	1.92	57.72	2557.0	1.60	55.78	3000.6	1.63	57.65
274.6	2.12	53.88	956.8	1.48	54.01	1764.0	2.04	57.93	2557.2	1.68	55.65	3000.8	1.64	57.05
274.7	1.74	53.70	957.0	1.57	54.59	1764.2	1.93	58.23	2557.4	1.78	55.64	3001.0	1.63	56.91
274.8	1.86	53.15	957.2	1.34	54.19	1764.4	1.52	58.69	2557.6	1.54	55.15	3001.2	1.54	57.32
274.9	1.98	53.22	957.4	1.71	53.62	1764.6	1.91	59.32	2557.8	1.89	55.76	3001.4	1.84	57.35
275.0	2.01	53.32	957.6	1.47	53.25	1764.8	1.94	59.60	2558.0	1.87	56.28	3001.6	1.70	57.39
275.1	1.74	52.73	957.8	1.62	54.14	1765.0	2.02	59.46	2558.2	1.82	56.97	3001.8	1.77	58.34
275.2	1.95	53.31	958.0	1.30	53.62	1765.2	1.51	59.51	2558.4	1.66	56.23	3002.0	1.95	58.99
275.3	1.87	53.94	958.2	1.50	53.97	1765.4	2.20	58.94	2558.6	1.59	57.13	3002.2	1.92	59.41
275.4	2.12	53.70	958.4	1.52	55.03	1765.6	2.07	57.47	2558.8	1.79	56.78	3002.4	1.90	60.15
275.5	2.07	54.08	958.6	1.35	54.67	1765.8	2.17	56.92	2559.0	1.60	56.46	3002.6	1.92	60.83
275.6	1.93	54.99	958.8	1.67	53.87	1766.0	2.13	56.61	2559.2	1.69	55.81	3002.8	1.80	60.03
275.7	1.90	54.26	959.0	1.62	53.47	1766.2	2.28	57.00	2559.4	1.64	56.48	3003.0	1.75	59.33
275.8	2.32	54.34	959.2	1.48	52.54	1766.4	2.22	56.95	2559.6	1.66	56.35	3003.2	1.91	58.68
275.9	1.94	54.86	959.4	1.54	51.87	1766.6	2.59	57.05	2559.8	1.71	57.63	3003.4	1.85	58.41
276.0	2.07	54.04	959.6	1.71	53.24	1766.8	2.47	56.16	2560.0	1.61	58.11	3003.6	2.03	58.20
276.1	2.14	54.13	959.8	1.67	53.50	1767.0	2.09	54.73	2560.2	1.44	58.20	3003.8	1.79	58.52
276.2	1.92	54.96	960.0	1.79	54.31	1767.2	2.29	53.75	2560.4	1.43	58.60	3004.0	1.84	59.51
276.3	1.66	54.50	960.2	1.57	54.87	1767.4	2.45	54.52	2560.6	1.29	59.05	3004.2	1.87	59.93
276.4	1.88	53.81	960.4	1.78	55.11	1767.6	2.19	54.61	2560.8	1.53	58.32	3004.4	1.67	60.18
276.5	1.90	53.39	960.6	1.76	54.53	1767.8	2.39	56.15	2561.0	1.39	58.55	3004.6	2.01	60.51
276.6	1.79	53.75	960.8	1.73	54.56	1768.0	2.14	58.15	2561.2	1.59	58.11	3004.8	1.87	60.78
276.7	1.84	53.58	961.0	1.66	53.96	1768.2	1.96	59.54	2561.4	1.78	57.49	3005.0	1.92	59.77
276.8	1.63	53.74	961.2	1.63	53.25	1768.4	1.78	59.66	2561.6	1.61	56.58	3005.2	1.95	60.54
276.9	1.86	56.17	961.4	1.52	52.94	1768.6	2.02	60.91	2561.8	1.72	56.62	3005.4	2.04	60.32
277.0	2.00	56.11	961.6	1.52	53.12	1768.8	1.62	62.41	2562.0	1.58	56.38	3005.6	1.79	60.49
277.1	1.93	54.82	961.8	1.46	53.08	1769.0	1.98	62.66	2562.2	1.64	57.78	3005.8	1.85	59.94
277.2	1.95	54.43	962.0	1.54	53.49	1769.2	1.78	61.49	2562.4	1.66	57.26	3006.0	1.15	60.32
277.3	1.70	54.30	962.2	1.61	53.88	1769.4	1.26	61.01	2562.6	1.17	57.74	3006.2	1.97	59.90
277.4	1.95	52.37	962.4	1.81	53.75	1769.6	1.41	60.16	2562.8	1.69	57.41	3006.4	1.77	59.82
277.5	1.75	53.19	962.6	1.39	53.36	1769.8	1.84	57.84	2563.0	1.62	57.27	3006.6	1.29	59.65
277.6	1.72	53.65	962.8	1.65	52.84	1770.0	1.92	56.90	2563.2	1.68	56.21	3006.8	1.53	59.54
277.7	1.62	53.89	963.0	1.73	52.60	1770.2	1.88	58.06	2563.4	1.52	57.22	3007.0	1.92	60.28
277.8	2.21	53.71	963.2	1.67	53.29	1770.4	1.98	57.13	2563.6	1.52	58.53	3007.2	1.86	60.06
277.9	2.09	53.56	963.4	1.49	53.24	1770.6	1.80	57.23	2563.8	1.76	58.83	3007.4	1.74	60.58
278.0	2.03	53.88	963.6	1.69	52.75	1770.8	1.27	57.35	2564.0	1.56	59.21	3007.6	1.59	60.69
278.1	1.72	53.65	963.8	1.78	52.57	1771.0	1.85	57.01	2564.2	1.48	60.19	3007.8	1.68	61.09
278.2	1.85	52.89	964.0	1.58	52.57	1771.2	1.81	56.52	2564.4	1.65	59.53	3009.0	1.76	58.13
278.3	2.08	53.74	964.2	1.75	52.28	1771.4	1.82	56.90	2564.6	1.50	59.20	3008.2	2.03	59.61
278.4	2.02	54.07	964.4	1.72	52.31	1771.6	1.85	57.03	2564.8	1.61	59.66	3008.4	1.59	59.46
278.5	1.88	54.17	964.6	1.35	52.99	1771.8	1.99	57.37	2565.0	1.44	58.51	3008.6	1.83	58.61
278.6	1.83	54.22	964.8	1.72	53.66	1772.0	1.93	57.60	2565.2	1.31	57.14	3008.8	1.65	58.62
278.7	2.08	55.36	965.0	1.67	54.16	1772.2	1.69	56.40	2565.4	1.33	55.93	3009.0	1.76	58.13
278.8	1.95	54.47	965.2	0.33	53.98	1772.4	1.93	56.15	2565.6	1.50	55.97	3009.2	1.66	57.87
278.9	2.05	54.28	965.4	1.57	53.96	1772.6	1.98	55.89	2565.8	1.39	55.87	3009.4	1.86	59.94
279.0	1.75	54.35	965.6	1.56	55.45	1772.8	1.83	55.62	2566.0	1.00	55.93	3009.6	1.84	60.05
279.1	1.92	53.91	965.8	1.68	58.72	1773.0	1.80	54.85	2566.2	1.49	55.95	3009.8	1.54	59.26
279.2	2.02	53.58	966.0	1.50	58.02	1773.2	1.76	55.26	2566.4	1.46	56.02	3010.0	1.59	60.66
279.3	2.02	54.65	966.2	1.66	58.43	1773.4	1.74	55.29	2566.6	1.31	55.75	3010.2	1.89	60.71
279.4	2.00	54.36	966.4	1.53	57.96	1773.6	1.56	54.92	2566.8	1.45	54.90	3010.4	1.80	58.53
279.5	1.89	53.24	966.6	1.56	55.45	1773.8	2.03	54.75	2567.0	1.19	54.94	3010.6	1.36	59.02
279.6	1.93	54.00	966.8	1.30	51.61	1774.0	1.89	54.74	2567.2	1.67	55.78	3010.8	2.07	59.46
279.7	2.06	53.42	967.0	1.77	51.09	1774.2	1.91	53.84	2567.4	1.63	55.97	3011.0	1.82	59.52
279.8	2.21	52.90	967.2	1.29	52.83	1774.4	1.62	53.74	2567.6	1.60	56.71	3011.2	1.89	59.65
279.9	2.04	52.67	967.4	1.53	53.61	1774.6	2.17	53.62	2567.8	1.50	56.75	3011.4	1.88	59.22
280.0	2.00	52.96	967.6	1.87	54.24	1774.8								

280.9	1.95	53.63	969.4	1.39	52.98	1776.6	1.78	56.85	2572.5	1.67	54.46	3013.4	1.83	55.29
281.0	2.08	54.29	969.6	1.40	53.17	1776.8	1.92	56.65	2572.6	1.79	53.90	3013.6	1.89	55.51
281.1	1.88	54.78	969.8	1.35	53.83	1777.0	1.85	55.93	2572.7	1.69	54.07	3013.8	1.94	55.72
281.2	1.66	55.53	970.0	1.33	53.69	1777.2	2.01	55.21	2572.8	1.73	53.01	3014.0	1.90	55.38
281.3	2.33	55.89	970.2	1.38	52.88	1777.4	2.04	54.64	2572.9	1.96	52.09	3014.2	1.64	55.22
281.4	2.00	55.58	970.4	1.32	52.61	1777.6	1.86	54.88	2573.0	1.60	52.56	3014.4	1.57	54.89
281.5	1.86	55.66	970.6	1.07	52.39	1777.8	1.98	54.18	2573.1	1.97	52.53	3014.6	1.80	54.88
281.6	2.48	53.88	970.8	1.07	52.88	1778.0	1.92	53.86	2573.2	1.67	52.24	3014.8	2.04	55.40
281.7	2.01	53.00	971.0	1.48	52.48	1778.2	2.17	54.80	2573.3	1.96	52.66	3015.0	1.29	56.84
281.8	2.20	52.60	971.2	0.88	52.12	1778.4	1.43	55.17	2573.4	1.55	54.34	3015.2	1.79	56.70
281.9	1.97	52.42	971.4	1.57	52.64	1778.6	1.75	54.92	2573.5	1.78	54.60	3015.4	1.91	56.88
282.0	2.02	51.69	971.6	1.63	54.23	1778.8	1.53	56.69	2573.6	1.96	56.73	3015.6	1.70	57.40
282.1	1.94	53.00	971.8	1.49	53.66	1779.0	1.79	57.75	2573.7	1.57	56.54	3015.8	1.99	57.75
282.2	1.91	53.25	972.0	1.40	53.94	1779.2	1.77	57.83	2573.8	1.79	56.20	3016.0	1.87	56.97
282.3	2.04	52.81	972.2	1.49	53.99	1779.4	1.68	58.63	2573.9	1.70	54.20	3016.2	1.66	56.59
282.4	2.06	52.28	972.4	1.34	53.78	1779.6	1.44	59.21	2574.0	1.84	55.21	3016.4	1.78	56.05
282.5	2.13	52.72	972.6	1.41	52.28	1779.8	1.60	58.76	2574.1	1.71	53.65	3016.6	1.74	55.78
282.6	2.36	51.37	972.8	1.37	52.58	1780.0	1.69	57.97	2574.2	1.58	53.14	3016.8	2.08	54.87
282.7	2.04	52.29	973.0	1.48	52.66	1780.2	1.89	57.88	2574.3	1.73	53.07	3017.0	2.00	54.38
282.8	1.85	52.38	973.2	1.47	53.00	1780.4	1.68	57.58	2574.4	1.37	53.45	3017.2	2.05	55.12
282.9	1.71	53.91	973.4	1.50	52.56	1780.6	1.57	57.74	2574.5	1.63	52.13	3017.4	1.98	55.36
283.0	2.07	54.14	973.6	1.45	52.23	1780.8	1.54	57.38	2574.6	1.74	51.41	3017.6	1.96	54.81
283.1	2.04	55.89	973.8	1.20	51.84	1781.0	1.54	58.16	2574.7	1.63	51.20	3017.8	1.70	55.05
283.2	2.10	55.68	974.0	1.36	52.44	1781.2	1.64	57.38	2574.8	1.59	51.78	3018.0	1.44	55.07
283.3	2.47	56.38	974.2	1.17	52.25	1781.4	1.77	58.93	2574.9	2.00	52.13	3018.2	1.99	54.52
283.4	2.06	56.06	974.4	1.37	52.63	1781.6	2.00	59.96	2575.0	1.81	51.62	3018.4	1.99	54.79
283.5	2.08	55.11	974.6	1.42	53.25	1781.8	2.02	60.56	2575.1	1.68	51.55	3018.6	1.90	55.53
283.6	1.65	53.50	974.8	1.37	53.57	1782.0	1.57	60.66	2575.2	1.86	52.97	3018.8	1.93	56.50
283.7	2.14	52.35	975.0	1.61	52.57	1782.2	1.90	62.20	2575.3	1.81	52.14	3019.0	2.03	57.00
283.8	2.02	51.38	975.2	1.62	52.42	1782.4	1.94	62.59	2575.4	1.85	51.98	3019.2	1.46	57.07
283.9	2.03	52.01	975.4	1.41	52.24	1782.6	2.06	62.25	2575.5	1.50	52.46	3019.4	1.76	56.89
284.0	1.83	52.26	975.6	1.56	52.53	1782.8	1.35	61.44	2575.6	1.62	60.41	3019.6	1.70	56.23
284.1	2.18	53.16	975.8	1.62	52.20	1783.0	1.76	61.68	2575.7	1.84	61.96	3019.8	1.73	55.12
284.2	2.23	54.12	976.0	1.37	52.90	1783.2	1.24	62.62	2575.8	1.85	62.02	3020.0	1.17	54.58
284.3	1.77	54.76	976.2	1.41	54.05	1783.4	1.77	61.17	2575.9	0.73	61.65	3020.2	1.65	54.91
284.4	2.12	53.88	976.4	1.28	55.13	1783.6	1.56	60.91	2576.0	1.36	61.08	3020.4	1.83	54.84
284.5	1.84	53.61	976.6	1.61	54.97	1783.8	2.06	63.02	2576.1	1.59	53.20	3020.6	1.57	55.72
284.6	2.07	53.24	976.8	1.36	55.52	1784.0	1.80	62.77	2576.2	1.62	50.96	3020.8	1.72	56.42
284.7	1.88	53.58	977.0	1.46	56.31	1784.2	1.90	60.96	2576.3	1.69	51.08	3021.0	1.77	57.44
284.8	2.20	53.31	977.2	1.39	55.97	1784.4	1.19	60.73	2576.4	0.93	51.76	3021.2	1.76	57.99
284.9	2.21	54.00	977.4	1.36	54.52	1784.6	2.01	59.65	2576.5	1.49	52.84	3021.4	1.49	60.74
285.0	1.86	55.52	977.6	1.23	54.89	1784.8	1.91	58.39	2576.6	1.19	53.56	3021.6	1.77	61.48
285.1	2.32	55.69	977.8	1.13	56.77	1785.0	1.93	58.89	2576.7	1.80	53.76	3021.8	1.52	62.72
285.2	2.18	55.14	978.0	1.08	56.31	1785.2	1.88	59.05	2576.8	1.91	53.89	3022.0	1.43	63.48
285.3	1.80	55.33	978.2	1.22	56.73	1785.4	1.91	58.60	2576.9	1.74	54.23	3022.2	1.59	64.24
285.4	2.07	54.54	978.4	1.27	58.09	1785.6	1.72	58.66	2577.0	1.78	54.12	3022.4	1.64	64.72
285.5	1.50	53.37	978.6	1.36	58.01	1785.8	1.71	58.79	2577.1	1.65	53.48	3022.6	1.62	63.81
285.6	1.57	53.54	978.8	1.14	58.62	1786.0	1.97	58.58	2577.2	1.62	53.96	3022.8	1.44	64.02
285.7	1.70	53.72	979.0	1.12	57.35	1786.2	1.82	59.29	2577.3	1.64	54.88	3023.0	1.62	62.50
285.8	1.89	53.90	979.2	1.22	56.49	1786.4	1.52	59.68	2577.4	1.34	55.16	3023.2	1.49	61.77
285.9	1.84	53.61	979.4	1.20	55.76	1786.6	2.10	60.23	2577.5	1.77	54.84	3023.4	1.53	58.75
286.0	1.82	53.87	979.6	1.08	56.01	1786.8	1.95	61.27	2577.6	1.68	55.86	3023.6	1.70	58.19
286.1	1.60	53.85	979.8	0.97	53.11	1787.0	1.89	62.01	2577.7	1.32	55.20	3023.8	1.72	57.10
286.2	1.85	54.19	980.0	1.22	54.29	1787.2	2.34	62.73	2577.8	1.72	54.38	3024.0	1.38	57.02
286.3	1.45	53.54	980.2	1.02	55.04	1787.4	2.23	63.45	2577.9	1.26	53.64	3024.2	1.41	56.53
286.4	1.73	53.94	980.4	1.20	55.67	1787.6	2.15	63.58	2578.0	1.05	53.78	3024.4	1.38	56.44
286.5	1.96	52.79	980.6	1.21	54.83	1787.8	2.06	61.83	2578.1	1.80	52.55	3024.6	1.43	56.17
286.6	1.80	51.79	980.8	1.12	54.26	1788.0	1.95	60.83	2578.2	1.93	52.61	3024.8	1.45	55.86
286.7	1.52	51.00	981.0	1.27	54.69	1788.2	2.37	58.87	2578.3	1.82	52.35	3025.0	1.61	55.38
286.8	1.79	50.57	981.2	1.22	55.02	1788.4	1.85	57.83	2578.4	1.82	53.05	3025.2	1.71	55.27
286.9	1.96	49.51	981.4	1.17	54.63	1788.6	1.94	57.87	2578.5	1.86	52.37	3025.4	1.56	55.03
287.0	2.05	50.41	981.6	1.31	55.66	1788.8	1.62	57.24	2578.6	1.99	53.16	3025.6	1.75	55.41
287.1	1.90	50.58	981.8	1.05	58.60	1789.0	2.29	56.82	2578.7	1.58	53.58	3025.8	1.67	55.31
287.2	1.78	50.66	982.0	1.36	58.38	1789.2	2.03	57.13	2578.8	1.86	53.59	3026.0	1.86	55.61
287.3	2.14	51.04	982.2	1.00	57.38	1789.4	2.04	57.39	2578.9	1.45	52.30	3026.2	1.69	56.42
287.4	2.24	52.09	982.4	1.15	57.71	1789.6	1.77	56.29	2579.0	1.72	53.90	3026.4	1.72	59.93
287.5	1.87	51.46	982.6	1.60	57.02	1789.8	1.90	57.52	2579.1	1.88	53.73	3026.6	1.49	60.26
287.6	1.93	51.88	982.8	1.47	54.56	1790.0	1.60	57.01	2579.2	1.73	53.79	3026.8	1.52	60.25
287.7	2.10	51.37	983.0	1.55	53.62	1790.2	1.82	56.66	2579.3	1.80	53.65	3027.0	1.54	59.75
287.8	2.40	51.45	983.2	0.71	53.59	1790.4	1.46	56.44	2579.4	1.57	54.46	3027.2	1.60	58.28
287.9	2.08	50.32	983.4	1.57	53.64	1790.6	1.62	57.16	2579.5	1.92	53.04	3027.4	1.53	54.41
288.0	2.38	50.53	983.6	1.76	53.20	1790.8	1.83	56.14	2579.6	1.78	52.48	3027.6	1.27	54.22
288.1	1.99	50.69	983.8	1.66	53.79	1791.0								

289.0	2.09	52.80	985.6	1.44	54.16	1792.8	1.88	57.43	2580.6	1.98	54.30	3029.6	1.58	58.57
289.1	2.53	52.45	985.8	1.47	55.18	1793.0	1.53	56.91	2580.7	2.06	54.68	3029.8	1.48	58.78
289.2	2.35	52.25	986.0	1.46	55.89	1793.2	2.01	57.52	2580.8	1.73	53.60	3030.0	1.63	58.39
289.3	2.20	51.14	986.2	1.38	56.16	1793.4	2.13	57.16	2580.9	1.82	55.30	3030.2	1.61	58.39
289.4	1.89	51.37	986.4	1.39	55.53	1793.6	1.82	58.26	2581.0	1.86	55.74	3030.4	1.68	57.67
289.5	2.64	51.11	986.6	1.53	54.67	1793.8	1.94	58.36	2581.1	1.79	58.21	3030.6	1.61	57.67
289.6	2.28	51.56	986.8	1.60	53.61	1794.0	2.00	59.06	2581.2	1.83	58.29	3030.8	1.68	58.32
289.7	2.14	51.95	987.0	1.36	53.05	1794.2	2.12	58.81	2581.3	1.28	58.41	3031.0	1.55	58.70
289.8	2.45	52.47	987.2	1.67	55.66	1794.4	2.04	59.92	2581.4	1.84	57.64	3031.2	1.62	58.64
289.9	2.33	53.06	987.4	1.65	56.20	1794.6	1.73	59.81	2581.5	2.00	57.76	3031.4	1.45	58.71
290.0	2.13	53.79	987.6	1.32	56.35	1794.8	2.11	59.50	2581.6	1.80	56.33	3031.6	1.49	58.85
290.1	2.26	54.23	987.8	1.48	56.46	1795.0	1.89	59.40	2581.7	1.97	56.79	3031.8	1.30	59.54
290.2	2.50	54.62	988.0	1.32	56.17	1795.2	1.91	59.33	2581.8	1.96	58.11	3032.0	1.52	59.52
290.3	2.31	54.89	988.2	1.31	53.56	1795.4	1.71	58.46	2581.9	1.84	59.34	3032.2	1.46	58.85
290.4	1.24	54.13	988.4	1.21	54.90	1795.6	1.87	56.77	2582.0	2.03	62.73	3032.4	1.63	58.81
290.5	2.03	54.15	988.6	1.07	55.79	1795.8	1.90	56.40	2582.1	1.94	62.09	3032.6	1.76	58.35
290.6	1.95	53.72	988.8	1.25	56.25	1796.0	1.94	56.72	2582.2	1.97	60.89	3032.8	1.82	57.47
290.7	1.79	53.86	989.0	1.35	56.17	1796.2	2.17	57.00	2582.3	1.83	59.13	3033.0	1.64	57.73
290.8	2.18	54.08	989.2	1.30	56.19	1796.4	1.81	57.26	2582.4	2.18	57.45	3033.2	1.84	58.03
290.9	2.40	55.37	989.4	1.32	54.37	1796.6	1.30	57.40	2582.5	1.74	53.96	3033.4	1.78	58.03
291.0	1.75	54.37	989.6	1.40	53.72	1796.8	1.80	58.11	2582.6	2.06	53.07	3035.4	1.41	58.17
291.1	2.40	53.38	989.8	1.44	53.45	1797.0	2.10	58.20	2582.7	1.56	53.08	3035.6	1.58	57.66
291.2	2.22	52.78	990.0	1.21	55.48	1797.2	1.92	57.69	2582.8	0.97	52.33	3035.8	1.50	56.86
291.3	1.65	52.85	990.2	0.96	55.02	1797.4	2.25	57.39	2582.9	1.58	52.33	3036.0	1.46	56.40
291.4	1.82	51.72	990.4	1.31	54.91	1797.6	1.77	57.44	2583.0	1.91	51.62	3036.2	1.34	55.99
291.5	1.98	52.13	990.6	1.24	54.80	1797.8	2.11	56.62	2583.1	1.80	52.40	3036.4	1.44	56.34
291.6	1.44	52.03	990.8	1.41	54.69	1798.0	1.75	55.36	2583.2	1.91	51.63	3036.6	1.29	56.24
291.7	1.95	51.91	991.0	1.26	52.04	1798.2	2.05	55.99	2583.3	1.83	51.45	3036.8	1.33	55.52
291.8	1.97	51.25	991.2	1.51	51.88	1798.4	2.18	56.21	2583.4	1.87	51.12	3037.0	1.42	54.96
291.9	1.86	52.72	991.4	1.35	52.17	1798.6	2.02	56.18	2583.5	1.64	51.75	3037.2	1.57	54.22
292.0	1.59	53.98	991.6	1.18	52.32	1798.8	2.00	57.98	2583.6	1.80	51.58	3037.4	1.36	53.56
292.1	1.41	55.10	991.8	1.20	52.31	1799.0	1.80	58.06	2583.7	2.07	52.20	3037.6	1.56	53.74
292.2	1.61	56.33	992.0	1.34	54.26	1799.2	2.19	62.73	2583.8	1.73	52.35	3037.8	1.50	53.81
292.3	1.74	56.89	992.2	1.38	55.89	1799.4	1.87	69.15	2583.9	1.83	52.66	3038.0	1.89	54.20
292.4	1.78	56.06	992.4	1.51	56.41	1801.8	2.05	71.87	2584.0	1.30	51.38	3038.2	1.59	54.68
292.5	1.83	55.68	992.6	1.46	56.39	1802.0	1.39	72.86	2584.1	1.49	51.96	3038.4	1.64	55.29
292.6	2.07	56.88	992.8	1.33	56.48	1802.2	2.06	74.37	2584.2	1.54	51.94	3038.6	1.82	55.19
292.7	1.61	56.95	993.0	1.44	56.68	1802.4	1.94	70.11	2584.3	1.76	53.25	3038.8	1.66	56.10
292.8	2.06	56.90	993.2	1.52	55.90	1802.6	1.76	66.07	2584.4	1.91	53.35	3039.0	1.93	56.13
292.9	1.99	56.98	993.4	1.51	55.35	1802.8	1.97	64.30	2584.5	1.70	54.47	3039.2	1.69	56.89
293.0	1.65	55.77	993.6	1.47	55.89	1803.0	2.18	63.44	2584.6	1.65	54.01	3039.4	1.72	56.34
293.1	2.27	54.35	993.8	1.31	56.69	1803.2	2.03	61.65	2584.7	1.62	53.37	3039.6	2.07	56.15
293.2	2.24	53.85	994.0	1.53	55.46	1803.4	1.99	61.18	2584.8	1.78	52.45	3039.8	1.88	56.44
293.3	2.26	54.53	994.2	1.22	54.04	1803.6	2.08	58.53	2584.9	1.73	52.17	3040.0	1.83	56.42
293.4	2.06	53.91	994.4	0.76	53.77	1803.8	1.84	57.47	2585.0	1.80	51.76	3040.2	1.60	56.37
293.5	1.92	54.42	994.6	1.46	53.50	1804.0	1.83	58.26	2585.1	1.72	51.91	3040.4	1.69	56.90
293.6	2.61	54.36	994.8	1.36	53.74	1804.2	1.99	58.81	2585.2	1.66	52.93	3040.6	1.47	58.00
293.7	2.19	54.49	995.0	1.43	54.08	1804.4	1.95	59.19	2585.3	1.53	53.95	3040.8	1.69	57.15
293.8	2.32	53.78	995.2	1.29	54.56	1804.6	1.87	59.29	2585.4	1.67	56.07	3041.0	1.64	56.71
293.9	2.08	54.29	995.4	0.67	54.73	1804.8	1.63	59.86	2585.5	1.62	56.52	3041.2	1.63	56.09
294.0	2.00	55.71	995.6	1.44	55.18	1805.0	1.94	57.66	2585.6	1.72	56.86	3041.4	1.68	55.49
294.1	1.82	55.70	995.8	1.45	54.27	1805.2	1.95	58.05	2585.7	1.75	56.19	3041.6	1.63	54.40
294.2	2.05	55.26	996.0	1.57	53.63	1805.4	1.93	57.85	2585.8	1.88	55.43	3041.8	1.65	55.36
294.3	1.88	54.16	996.2	1.35	58.80	1805.6	1.65	57.83	2585.9	1.74	55.21	3042.0	1.48	55.89
294.4	2.01	53.41	996.4	1.51	59.43	1805.8	1.98	56.87	2586.0	2.11	55.39	3042.2	1.36	56.42
294.5	1.04	52.31	996.6	1.40	58.54	1806.0	2.13	57.38	2586.1	1.68	55.42	3042.4	1.58	56.16
294.6	2.07	52.19	996.8	1.31	57.60	1806.2	1.88	57.88	2586.2	1.64	58.54	3042.6	1.60	55.89
294.7	1.57	52.14	997.0	1.42	60.88	1806.4	1.85	58.12	2586.3	1.58	59.65	3042.8	1.51	55.32
294.8	2.04	53.11	997.2	1.54	57.07	1806.6	1.68	58.35	2586.4	1.82	57.89	3043.0	1.51	55.64
294.9	2.07	53.93	997.4	1.57	67.15	1806.8	1.85	59.47	2586.5	1.13	57.45	3043.2	1.49	56.23
295.0	2.01	54.04	997.6	0.98	71.84	1807.0	1.75	59.99	2586.6	1.56	57.28	3043.4	1.65	56.73
295.1	2.11	53.96	998.2	0.81	72.14	1807.2	1.70	59.67	2586.7	1.63	55.54	3043.6	1.61	57.25
295.2	2.03	54.57	999.0	1.21	69.31	1807.4	1.80	59.80	2586.8	1.68	56.09	3043.8	1.62	57.14
295.3	1.77	54.85	999.2	1.54	67.96	1807.6	1.48	60.29	2586.9	1.68	55.62	3044.0	1.42	56.51
295.4	2.10	55.22	999.4	1.42	58.02	1807.8	1.74	61.36	2587.0	1.54	56.66	3044.2	1.66	56.19
295.5	2.11	54.30	999.6	1.58	54.35	1808.0	1.86	61.39	2587.1	1.66	56.91	3044.4	1.35	56.33
295.6	1.54	54.52	999.8	1.43	55.56	1808.2	1.81	61.85	2587.2	1.63	55.16	3044.6	1.50	55.94
295.7	1.96	54.51	1000.0	1.55	54.60	1808.4	1.65	61.91	2587.3	1.44	54.13	3044.8	1.46	56.12
295.8	1.65	53.31	1000.2	1.68	55.63	1808.6	1.95	62.37	2587.4	1.91	54.41	3045.0	1.55	56.78
295.9	1.85	52.91	1000.4	1.86	54.62	1808.8	1.88	61.79	2587.5	1.47	53.19	3045.2	1.39	56.77
296.0	1.79	53.84	1000.6	1.39	54.66	1809.0	2.08	61.14	2587.6	1.90	52.80	3045.4	1.49	56.38
296.1	2.09	54.56	1000.8	1.55	56.51	1809.2	1.59	60.82	2587.7	1.92	52.89	3045.6	1.70	57.15
296.2	1.87	54.51	1001.0	1.40	58.64	180								

297.1	2.00	53.82	1002.8	1.45	53.69	1811.2	1.72	62.34	2588.7	0.75	54.37	3047.6	1.55	55.13
297.2	2.01	54.82	1003.0	1.53	53.94	1811.4	1.93	62.68	2588.8	1.31	54.82	3047.8	1.55	53.98
297.3	1.78	54.64	1003.2	1.65	53.87	1811.6	1.64	63.55	2588.9	1.48	55.51	3048.0	1.59	53.85
297.4	2.00	53.79	1003.4	1.55	54.09	1811.8	1.79	64.22	2589.0	1.28	55.64	3048.2	1.64	54.56
297.5	2.01	54.44	1003.6	1.74	54.00	1812.0	1.90	63.66	2589.1	1.31	57.61	3048.4	1.69	54.55
297.6	1.55	54.01	1003.8	1.29	54.69	1812.2	1.82	64.72	2589.2	1.73	56.92	3048.6	1.74	55.40
297.7	1.02	53.29	1004.0	1.54	54.96	1812.4	1.42	63.58	2589.3	1.44	56.65	3048.8	1.61	55.62
297.8	2.08	54.10	1004.2	1.66	55.52	1812.6	1.88	64.17	2589.4	1.68	57.72	3049.0	1.53	55.89
297.9	1.85	55.21	1004.4	1.40	54.77	1812.8	1.92	65.93	2589.5	1.55	57.81	3049.2	1.74	54.60
298.0	2.24	54.61	1004.6	1.49	54.13	1813.0	2.04	67.59	2589.6	1.60	55.45	3049.4	1.47	53.85
298.1	2.01	55.12	1004.8	1.70	54.00	1813.2	1.75	67.13	2589.7	1.77	57.54	3049.6	1.66	53.62
298.2	1.66	56.51	1005.0	1.53	53.90	1813.4	1.73	67.69	2589.8	1.48	58.04	3049.8	1.58	53.92
298.3	1.91	56.48	1005.2	1.73	54.12	1813.6	1.78	67.27	2589.9	1.57	56.83	3050.0	1.90	54.41
298.4	1.76	55.86	1005.4	1.62	54.96	1813.8	1.74	66.11	2590.0	1.78	56.07	3050.2	1.84	54.26
298.5	2.18	56.28	1005.6	1.46	54.85	1814.0	1.79	64.89	2590.1	1.72	56.00	3050.4	1.67	55.15
298.6	2.43	55.66	1005.8	1.53	54.29	1814.2	1.68	63.32	2590.2	1.59	53.90	3050.6	1.56	55.64
298.7	2.07	54.27	1006.0	1.70	54.47	1814.4	2.15	62.81	2590.3	1.64	53.68	3050.8	1.88	55.87
298.8	1.80	53.52	1006.2	1.61	54.16	1814.6	1.94	61.77	2590.4	1.70	54.20	3051.0	1.73	56.34
298.9	1.94	52.90	1006.4	1.32	54.07	1814.8	2.02	59.85	2590.5	1.67	54.61	3051.2	1.65	58.04
299.0	2.17	52.18	1006.6	1.93	55.41	1815.0	1.96	58.63	2590.6	1.51	55.29	3051.4	1.46	58.09
299.1	2.08	52.45	1006.8	1.59	56.71	1815.2	1.65	59.44	2590.7	1.58	55.36	3051.6	1.51	57.38
299.2	1.99	53.78	1007.0	1.53	58.39	1815.4	2.12	59.06	2590.8	1.63	55.18	3051.8	1.54	57.79
299.3	1.94	54.45	1007.2	1.90	59.29	1815.6	1.79	58.59	2590.9	1.80	54.72	3052.0	1.59	57.02
299.4	1.97	55.39	1007.4	1.51	59.17	1815.8	2.11	59.01	2591.0	1.92	56.25	3052.2	1.63	56.76
299.5	2.14	56.45	1007.6	1.70	57.74	1816.0	2.02	59.30	2591.1	1.79	55.73	3052.4	1.77	56.73
299.6	2.04	57.82	1007.8	1.68	57.18	1816.2	1.84	59.24	2591.2	1.89	56.02	3052.6	1.74	57.06
299.7	2.28	56.32	1008.0	1.65	56.69	1816.4	2.05	59.24	2591.3	1.83	55.70	3052.8	1.91	56.80
299.8	2.12	57.32	1008.2	1.60	56.19	1816.6	1.99	59.21	2591.4	1.43	56.88	3053.0	1.63	56.69
299.9	1.74	57.52	1008.4	1.72	55.68	1816.8	1.88	58.33	2591.5	1.57	54.87	3053.2	1.51	55.76
300.0	1.59	57.24	1008.6	1.64	56.20	1817.0	1.96	58.49	2591.6	2.03	54.44	3053.4	1.61	56.61
300.1	1.76	56.10	1008.8	1.73	56.34	1817.2	1.97	57.69	2591.7	1.29	54.47	3053.6	1.76	56.70
300.2	2.06	56.63	1009.0	1.56	56.28	1817.4	1.80	58.38	2591.8	2.04	54.27	3053.8	1.35	56.52
300.3	2.10	56.39	1009.2	1.74	55.64	1817.6	2.33	58.44	2591.9	1.69	53.30	3054.0	1.69	56.92
300.4	2.17	56.57	1009.4	1.86	58.83	1817.8	1.70	59.34	2592.0	1.64	53.32	3054.2	1.75	56.68
300.5	2.34	56.92	1009.6	1.81	59.38	1818.0	2.00	61.18	2592.1	1.73	54.15	3054.4	1.68	56.24
300.6	1.96	57.76	1009.8	1.89	59.15	1818.2	1.82	61.80	2592.2	1.79	54.16	3054.6	1.62	56.36
300.7	2.19	58.15	1010.0	1.68	57.79	1818.4	1.85	61.26	2592.3	1.62	56.70	3054.8	1.59	56.49
300.8	1.87	56.31	1010.2	1.68	58.56	1818.6	1.20	61.07	2592.4	1.64	56.67	3055.0	1.38	57.25
300.9	1.90	55.70	1010.4	1.55	55.77	1818.8	1.89	61.80	2592.5	1.68	56.73	3055.2	1.75	57.60
301.0	2.14	55.84	1010.6	1.68	55.23	1824.6	2.15	59.77	2592.6	1.63	56.20	3055.4	1.55	57.49
301.1	2.28	55.67	1010.8	1.60	56.30	1824.8	1.98	60.34	2592.7	1.56	55.42	3055.6	1.65	57.06
301.2	1.68	55.41	1011.0	1.60	56.78	1825.0	1.93	60.79	2592.8	1.44	54.50	3055.8	1.52	56.61
301.4	1.81	55.96	1011.2	1.73	56.66	1825.2	2.00	61.80	2592.9	2.05	54.33	3056.0	1.66	55.83
301.5	1.93	56.41	1011.4	1.84	56.38	1825.4	2.14	61.75	2593.0	1.60	54.41	3056.2	1.40	56.03
301.6	1.97	55.46	1011.6	1.62	56.45	1825.6	1.55	65.48	2593.1	2.01	54.58	3056.4	1.73	55.31
301.7	1.98	54.34	1011.8	1.78	55.42	1825.8	2.12	65.96	2593.2	1.97	55.11	3056.6	1.56	55.50
301.8	1.86	54.16	1012.0	1.67	55.37	1826.0	1.88	65.47	2593.3	1.83	53.38	3056.8	1.63	56.09
301.9	1.95	54.41	1012.2	1.71	55.21	1826.2	1.85	65.86	2593.4	1.96	54.05	3057.0	1.69	55.80
302.0	2.21	53.84	1012.4	1.65	56.56	1826.4	2.00	65.38	2593.5	1.55	54.22	3057.2	1.74	56.34
302.1	2.10	54.13	1012.6	1.59	56.50	1826.6	1.96	62.38	2593.6	1.89	54.75	3057.4	1.73	57.42
302.2	2.09	54.56	1012.8	1.50	56.25	1826.8	2.17	61.80	2593.7	2.08	54.03	3057.6	1.65	58.35
302.3	1.95	54.62	1013.0	1.58	56.81	1827.0	1.94	62.14	2593.8	1.85	54.38	3057.8	1.67	57.98
302.4	1.88	54.59	1013.2	1.49	57.65	1827.2	1.84	61.43	2593.9	1.67	53.70	3058.0	1.74	58.19
302.5	2.00	55.17	1013.4	1.86	56.72	1827.4	2.13	61.74	2594.0	1.69	53.47	3058.2	1.75	57.35
302.6	2.12	54.79	1013.6	1.53	57.47	1827.6	1.94	60.74	2594.1	1.77	52.57	3058.4	1.54	57.35
302.7	2.13	54.62	1013.8	1.91	57.75	1827.8	1.85	60.34	2594.2	1.91	53.02	3058.6	1.62	56.80
302.8	2.38	54.09	1014.0	1.76	57.18	1828.0	2.11	60.25	2594.3	1.70	53.29	3058.8	1.75	57.26
302.9	2.09	53.96	1014.2	1.11	56.63	1828.2	1.85	60.52	2594.4	1.71	53.70	3059.0	1.46	58.28
303.0	2.16	53.78	1014.4	1.29	56.47	1828.4	1.98	59.85	2594.5	1.93	54.32	3059.2	1.56	58.73
303.1	2.01	55.10	1014.6	1.79	55.39	1828.6	1.92	60.38	2594.6	1.75	55.38	3059.4	1.69	58.34
303.2	1.73	56.10	1014.8	1.78	55.18	1828.8	1.90	60.49	2594.7	1.99	56.08	3059.6	1.36	57.97
303.3	2.09	57.66	1015.0	1.92	54.63	1829.0	1.94	60.73	2594.8	1.79	56.79	3059.8	0.52	57.77
303.4	1.78	59.28	1015.2	1.75	54.47	1829.2	2.05	60.04	2594.9	1.71	56.87	3060.0	1.46	56.43
303.5	1.92	59.18	1015.4	1.68	55.01	1829.4	2.07	60.27	2595.0	1.00	56.85	3060.2	1.49	56.49
303.6	1.69	58.15	1015.6	1.62	55.23	1829.6	2.05	60.21	2595.1	1.65	55.95	3060.4	1.33	55.92
303.7	1.94	57.46	1015.8	1.57	55.83	1829.8	1.86	59.60	2595.2	1.43	54.95	3060.6	1.54	56.00
303.8	1.86	55.92	1016.0	1.78	56.47	1830.0	1.75	59.21	2595.3	1.92	53.70	3060.8	1.11	55.13
303.9	1.86	53.98	1016.2	1.70	57.38	1830.2	1.63	59.19	2595.4	1.50	53.17	3061.0	1.55	57.13
304.0	2.12	53.49	1016.4	1.84	57.60	1830.4	1.95	59.47	2595.5	1.66	52.36	3061.2	1.48	57.47
304.1	1.88	53.40	1016.6	1.72	56.37	1830.6	2.04	60.37	2595.6	1.56	52.78	3061.4	1.69	58.44
304.2	1.95	53.39	1016.8	1.51	56.46	1830.8	1.89	60.67	2595.7	1.52	53.68	3061.6	1.57	59.97
304.3	2.17	54.24	1017.0	1.41	57.01	1831.0	1.66	60.12	2595.8	1.59	53.75	3061.8	1.73	62.89

305.3	2.00	54.56	1019.0	1.42	55.54	1833.0	2.21	60.43	2596.8	1.88	57.46	3063.8	1.83	61.08
305.4	1.93	55.31	1019.2	1.43	55.64	1833.2	1.80	59.18	2596.9	1.74	57.10	3064.0	1.64	60.31
305.5	1.91	56.13	1019.4	1.48	56.51	1833.4	1.87	58.49	2597.0	2.08	57.08	3064.2	1.60	59.58
305.6	1.90	56.94	1019.6	1.41	57.08	1833.6	1.74	56.74	2597.1	1.72	56.54	3064.4	1.62	57.82
305.7	2.06	57.78	1019.8	1.59	56.63	1833.8	1.86	57.49	2597.2	1.51	57.46	3064.6	1.66	57.14
305.8	1.97	58.08	1020.0	1.65	61.88	1834.0	1.95	56.91	2597.3	1.89	57.55	3064.8	1.78	55.70
305.9	1.93	57.14	1020.2	1.67	62.22	1834.2	1.93	57.46	2597.4	1.86	57.56	3065.0	1.80	55.47
306.0	2.11	55.86	1020.4	1.52	62.40	1834.4	1.83	57.11	2597.5	2.04	57.05	3065.2	1.73	55.16
306.1	1.88	55.33	1020.6	1.35	62.28	1834.6	1.99	57.97	2597.6	1.52	56.56	3065.4	1.82	55.03
306.2	0.86	55.74	1020.8	1.49	61.86	1834.8	2.00	57.78	2597.7	1.79	55.66	3065.6	1.82	54.27
306.3	1.87	55.40	1021.0	1.41	56.96	1835.0	1.99	58.46	2597.8	1.77	55.64	3065.8	1.84	54.86
306.4	2.25	55.84	1021.2	1.66	58.42	1835.2	2.10	57.85	2597.9	1.78	54.99	3066.0	1.67	55.94
306.5	2.28	56.57	1021.4	1.48	59.48	1835.4	2.24	58.55	2598.0	1.87	54.53	3066.2	1.26	55.75
306.6	1.75	56.54	1021.6	1.62	59.83	1835.6	2.17	58.40	2598.1	1.52	54.77	3066.4	1.84	55.67
306.7	1.78	55.85	1021.8	1.34	59.38	1835.8	1.92	58.69	2598.2	1.79	53.82	3066.6	1.84	55.98
306.8	1.96	55.82	1022.0	1.24	59.72	1836.0	1.93	59.08	2598.3	1.78	53.42	3066.8	1.87	55.07
306.9	1.99	55.51	1022.2	1.35	58.50	1836.2	1.60	59.79	2598.4	1.62	54.40	3067.0	1.49	54.17
307.0	1.61	55.58	1022.4	1.38	57.57	1836.4	1.78	59.48	2598.5	1.79	57.73	3067.2	1.66	54.58
307.1	1.55	55.96	1022.6	1.44	56.68	1836.6	1.76	59.68	2598.6	1.79	57.32	3067.4	1.63	55.40
307.2	1.36	56.20	1022.8	1.40	57.15	1836.8	1.65	59.62	2598.7	2.00	57.16	3067.6	1.79	55.69
307.3	1.91	56.86	1023.0	1.43	58.83	1837.0	1.86	58.75	2598.8	1.98	57.20	3067.8	1.75	56.47
307.4	2.00	57.97	1023.2	1.41	65.43	1837.2	2.01	59.08	2598.9	1.83	56.31	3068.0	1.55	56.73
307.5	1.81	57.73	1023.4	1.47	71.83	1837.4	1.79	59.08	2599.0	1.99	53.65	3068.2	1.60	57.80
307.6	2.31	56.60	1023.6	1.25	75.04	1837.6	1.83	59.54	2599.1	1.71	54.43	3068.4	1.10	57.86
307.7	2.19	56.04	1023.8	1.31	76.82	1837.8	2.01	59.69	2599.2	1.77	54.80	3068.6	1.78	57.71
307.8	2.43	55.79	1024.0	1.40	74.98	1838.0	1.86	60.21	2599.3	2.19	54.10	3068.8	1.50	58.04
307.9	2.37	54.16	1024.2	1.33	67.74	1838.2	1.83	60.35	2599.4	1.85	53.85	3069.0	1.69	58.91
308.0	2.38	54.36	1024.4	1.34	61.31	1838.4	1.71	60.16	2599.5	1.85	54.02	3069.2	1.71	58.01
308.1	2.23	56.32	1024.6	0.91	58.13	1838.6	1.54	60.36	2599.6	1.60	53.94	3069.4	1.42	58.76
308.2	2.20	56.15	1024.8	1.32	57.01	1838.8	2.10	59.49	2599.7	1.96	54.06	3069.6	1.61	59.51
308.3	2.00	56.11	1025.0	1.10	56.80	1839.0	1.73	59.33	2599.8	1.85	54.39	3069.8	1.64	59.63
308.4	2.46	56.92	1025.2	1.38	57.31	1839.2	1.79	58.61	2599.9	1.69	54.55	3070.0	1.51	58.94
308.5	2.19	57.27	1025.4	1.53	57.30	1839.4	2.04	58.50	2600.0	1.78	54.18	3070.2	1.67	59.38
308.6	1.50	56.46	1025.6	1.44	56.29	1839.6	1.94	57.69	2600.1	1.55	53.40	3070.4	1.58	58.32
308.7	1.92	56.71	1025.8	1.37	55.18	1839.8	1.96	58.15	2600.2	1.92	52.84	3070.6	1.43	57.27
308.8	2.35	57.20	1026.0	1.28	54.33	1840.0	2.00	59.50	2600.3	1.81	53.58	3070.8	1.11	56.33
308.9	2.06	56.62	1026.2	1.74	54.23	1840.2	1.91	59.79	2600.4	1.78	54.12	3071.0	1.39	57.70
309.0	2.40	56.22	1026.4	1.62	53.41	1840.4	1.94	61.13	2600.5	2.02	54.31	3071.2	1.57	57.99
309.1	2.26	56.23	1026.6	1.66	53.64	1840.6	2.04	61.80	2600.6	1.80	54.28	3071.4	1.45	57.80
309.2	2.13	56.88	1026.8	1.65	53.23	1840.8	1.90	61.87	2600.7	1.70	54.93	3071.6	1.50	57.45
309.3	1.91	55.67	1027.0	1.55	53.67	1841.0	1.87	60.43	2600.8	1.74	55.11	3071.8	1.73	58.00
309.4	1.87	56.13	1027.2	1.75	53.33	1841.2	1.92	60.72	2600.9	2.01	54.47	3072.0	1.58	56.54
309.5	2.27	56.47	1027.4	1.38	53.31	1841.4	1.75	59.41	2601.0	1.87	54.52	3072.2	1.65	55.70
309.6	1.48	57.17	1027.6	1.76	54.86	1841.6	1.97	59.88	2601.1	1.73	55.07	3072.4	1.49	55.77
309.7	2.09	57.36	1027.8	1.75	55.84	1841.8	1.82	60.39	2601.2	1.43	54.91	3072.6	1.34	56.40
309.8	2.31	57.60	1028.0	1.71	56.12	1842.0	2.07	59.66	2601.3	1.90	54.49	3072.8	1.53	56.75
309.9	1.75	57.45	1028.2	1.64	55.40	1842.2	2.09	58.53	2601.4	1.65	54.13	3073.0	1.44	57.65
310.0	1.96	58.17	1028.4	1.51	55.06	1842.4	1.98	58.88	2601.5	1.88	54.13	3073.2	1.50	57.57
310.1	1.82	59.25	1028.6	1.54	53.70	1842.6	2.03	57.71	2601.6	1.77	54.17	3073.4	1.49	57.82
310.2	2.01	58.35	1028.8	1.64	53.29	1842.8	2.21	56.76	2601.7	1.51	54.20	3073.6	1.40	58.04
310.3	2.00	58.66	1029.0	1.85	52.95	1843.0	2.25	57.55	2601.8	1.58	54.09	3073.8	1.55	57.15
310.4	2.23	58.03	1029.2	1.56	53.22	1843.2	2.08	58.72	2601.9	1.82	54.92	3074.0	1.41	56.66
310.5	1.97	58.10	1029.4	1.64	53.90	1843.4	2.09	58.75	2602.0	1.68	54.80	3074.2	1.40	57.20
310.6	2.09	56.21	1029.6	1.59	53.44	1843.6	1.06	59.91	2602.1	1.76	55.15	3074.4	1.53	57.17
310.7	2.10	55.85	1029.8	1.76	52.96	1843.8	1.77	60.33	2602.2	1.97	55.50	3074.6	1.64	58.29
310.8	2.47	55.58	1030.0	1.82	52.63	1844.0	1.85	60.94	2602.3	1.64	55.59	3074.8	1.61	59.20
310.9	1.81	55.82	1030.2	1.73	53.93	1844.2	2.09	60.30	2602.4	1.83	55.65	3075.0	1.67	59.89
311.0	2.01	55.48	1030.4	2.21	54.78	1844.4	2.06	60.44	2602.5	1.67	55.32	3075.2	1.58	59.53
311.1	1.80	56.84	1030.6	1.63	55.43	1844.6	1.83	59.58	2602.6	1.63	55.45	3075.4	1.69	60.23
311.2	1.94	57.85	1030.8	1.81	55.30	1844.8	2.02	60.06	2602.7	1.51	55.31	3075.6	1.61	59.71
311.3	1.47	58.43	1031.0	1.80	55.20	1845.0	1.70	59.73	2602.8	1.67	56.25	3075.8	1.16	60.07
311.4	1.76	58.26	1031.2	1.94	54.62	1845.2	1.94	60.89	2602.9	1.68	56.60	3076.0	1.68	59.11
311.5	2.06	57.25	1031.4	1.73	53.09	1845.4	1.90	61.18	2603.0	1.68	56.83	3076.2	1.63	59.56
311.6	1.69	56.05	1031.6	1.81	53.08	1845.6	1.44	61.85	2603.1	1.52	56.64	3076.4	1.07	60.05
311.7	1.90	54.91	1031.8	1.25	53.98	1845.8	1.67	61.44	2603.2	1.87	56.33	3076.6	1.60	59.18
311.8	1.82	53.67	1032.0	1.97	53.88	1846.0	2.11	61.35	2603.3	1.59	55.51	3076.8	1.61	58.61
311.9	2.04	54.27	1032.2	2.06	54.17	1846.2	1.93	60.97	2603.4	1.70	54.91	3077.0	1.47	58.75
312.0	1.77	55.27	1032.4	1.92	54.88	1846.4	2.23	61.28	2603.5	1.50	55.60	3077.2	1.43	58.93
312.1	2.07	55.80	1032.6	2.03	54.86	1846.6	2.04	60.61	2603.6	1.64	55.98	3077.4	1.88	57.87
312.2	1.86	56.36	1032.8	1.54	56.50	1846.8	2.14	60.38	2603.7	1.62	56.02	3077.6	1.76	58.55
312.3	2.00	57.09	1033.0	1.68	57.22	1847.0	1.97	60.88	2603.8	1.64	56.18	3077.8	1.24	59.15
312.4	2.08	57.30	1033.2	1.79	57.19	1847.2	1.78	60.09	2603.9	1.58	56.66	3078.0	1.39	59.32

313.4	1.84	52.04	1036.6	1.61	55.28	1849.2	1.93	63.21	2604.9	1.88	57.25	3080.0	1.49	59.15
313.5	2.06	52.33	1036.8	1.78	54.41	1849.4	2.01	62.67	2605.0	1.91	57.25	3080.2	1.23	58.82
313.6	2.10	52.82	1037.0	1.56	54.06	1849.6	2.01	62.18	2605.1	1.68	57.41	3080.4	1.74	58.22
313.7	2.04	54.21	1037.2	1.67	52.77	1849.8	1.85	62.04	2605.2	1.71	57.61	3080.6	1.46	59.09
313.8	2.21	56.33	1037.4	1.42	52.63	1850.0	2.00	62.42	2605.3	1.67	57.51	3080.8	1.81	58.69
313.9	2.38	58.04	1037.6	1.48	53.18	1850.2	1.91	60.53	2605.4	1.43	57.64	3081.0	1.48	58.19
314.0	2.03	57.75	1037.8	1.42	52.99	1850.4	2.30	60.23	2605.5	0.84	57.65	3081.2	1.56	57.33
314.1	1.99	57.70	1038.0	1.67	53.48	1850.6	2.08	58.78	2605.6	1.82	57.50	3081.4	1.61	58.17
314.2	2.20	57.00	1038.2	1.71	53.91	1850.8	2.12	58.12	2605.7	1.79	57.46	3081.6	1.72	57.43
314.3	2.49	55.46	1038.4	1.48	53.80	1851.0	2.20	57.89	2605.8	1.72	57.71	3081.8	1.65	57.61
314.4	2.30	53.42	1038.6	1.45	53.20	1851.2	1.94	59.59	2605.9	1.74	57.02	3082.0	1.65	58.59
314.5	2.53	54.13	1038.8	1.43	53.83	1851.4	2.15	59.83	2606.0	1.55	56.76	3082.2	1.42	59.48
314.6	2.32	54.01	1039.0	1.72	53.49	1851.6	2.22	60.84	2606.1	1.81	56.58	3082.4	1.44	58.24
314.7	2.30	54.46	1039.2	1.38	53.52	1851.8	2.11	63.15	2606.2	1.79	56.95	3082.6	1.48	58.05
314.8	1.28	54.16	1039.4	1.33	54.03	1852.0	2.14	62.94	2606.3	1.68	56.29	3082.8	1.56	58.69
314.9	2.47	55.09	1039.6	1.50	54.24	1852.2	2.16	60.91	2606.4	1.52	56.48	3083.0	1.69	58.42
315.0	2.18	54.79	1039.8	1.51	53.98	1852.4	2.22	60.65	2606.5	1.87	56.69	3083.2	1.63	58.58
315.1	2.35	55.06	1040.0	1.38	53.98	1852.6	1.97	59.92	2606.6	1.60	56.86	3083.4	1.77	58.16
315.2	2.77	55.00	1040.2	1.37	55.43	1852.8	2.11	58.09	2606.7	1.89	56.50	3083.6	1.68	58.41
315.3	2.35	55.38	1040.4	1.38	54.38	1853.0	2.10	57.97	2606.8	1.75	57.06	3083.8	1.59	57.61
315.4	2.23	55.11	1040.6	1.64	54.58	1853.2	2.32	58.18	2606.9	1.77	56.44	3084.0	1.62	57.33
315.5	2.46	54.59	1040.8	1.39	54.71	1853.4	2.44	57.50	2607.0	1.61	56.93	3084.2	1.83	56.25
315.6	2.41	54.63	1041.0	1.51	54.78	1853.6	2.13	57.27	2607.1	1.66	56.25	3084.4	1.81	56.11
315.7	2.24	53.96	1041.2	1.18	53.26	1853.8	1.85	56.80	2607.2	1.81	55.59	3084.6	1.85	56.03
315.8	2.07	53.20	1041.4	1.56	53.64	1854.0	1.97	56.73	2607.3	1.73	55.26	3084.8	1.88	56.32
315.9	2.23	52.84	1041.6	1.65	53.32	1854.2	2.03	55.88	2607.4	1.73	55.28	3085.0	1.39	55.81
316.0	1.96	53.75	1041.8	1.42	52.92	1854.4	1.86	55.91	2607.5	1.79	54.73	3085.2	1.81	56.64
316.1	2.13	54.23	1042.0	1.18	52.94	1854.6	2.22	55.34	2607.6	1.77	55.32	3085.4	1.93	57.45
316.2	1.93	54.89	1042.2	1.71	53.36	1854.8	1.88	55.47	2607.7	1.71	56.26	3085.6	1.89	57.14
316.3	2.07	55.42	1042.4	1.33	53.23	1855.0	2.06	55.91	2607.8	1.83	56.22	3085.8	1.80	56.84
316.4	2.02	55.86	1042.6	1.51	53.58	1855.2	2.23	57.53	2607.9	1.65	56.92	3086.0	1.93	58.80
316.5	2.86	54.67	1042.8	1.45	53.95	1855.4	2.04	57.97	2608.0	1.78	56.59	3086.2	1.79	59.36
316.6	2.36	54.38	1043.0	1.64	53.91	1855.6	1.99	59.29	2608.1	1.83	57.24	3086.4	1.79	59.21
316.7	2.26	55.15	1043.2	1.49	54.62	1855.8	2.08	59.53	2608.2	1.85	56.69	3086.6	1.91	59.95
316.8	2.21	56.03	1043.4	1.55	55.01	1856.0	1.99	59.95	2608.3	1.66	56.18	3086.8	1.84	60.75
316.9	2.40	56.53	1043.6	1.50	55.32	1856.2	2.14	59.19	2608.4	1.57	56.06	3087.0	2.25	59.47
317.0	2.16	57.20	1043.8	1.86	56.68	1856.4	2.00	59.53	2608.5	2.00	56.50	3087.2	1.87	58.64
317.1	1.93	56.87	1044.0	1.68	57.04	1856.6	1.85	59.64	2608.6	1.68	55.69	3087.4	2.19	58.51
317.2	2.02	55.88	1044.2	1.71	56.35	1856.8	1.77	59.04	2608.7	1.59	55.74	3087.6	1.82	57.95
317.3	2.29	56.12	1044.4	1.70	55.54	1857.0	2.12	58.38	2608.8	1.79	56.64	3087.8	1.29	56.42
317.4	1.88	54.93	1044.6	1.58	55.10	1857.2	2.24	58.09	2608.9	1.66	57.56	3088.0	1.81	56.42
317.5	2.25	54.19	1044.8	1.47	54.10	1857.4	2.04	57.24	2609.0	1.73	57.35	3088.2	2.03	56.74
317.6	2.12	53.88	1045.0	1.47	53.71	1857.6	2.19	56.02	2609.1	1.76	57.68	3088.4	1.46	56.65
317.7	2.32	54.65	1045.2	1.37	52.80	1857.8	2.14	57.63	2609.2	1.66	57.64	3088.6	1.89	56.27
317.8	2.23	54.48	1045.4	1.51	53.68	1858.0	1.86	56.71	2609.3	1.72	57.28	3088.8	2.09	57.29
317.9	1.94	55.19	1045.6	1.51	52.58	1858.2	1.86	57.34	2609.4	1.67	56.30	3089.0	1.93	57.48
318.0	2.35	55.69	1045.8	1.35	51.95	1858.4	2.04	57.46	2609.5	1.79	56.65	3089.2	2.09	57.04
318.1	2.17	56.32	1046.0	1.41	51.93	1858.6	2.07	57.77	2609.6	1.74	56.44	3089.4	1.82	57.87
318.2	2.10	55.99	1046.2	1.62	51.66	1858.8	2.17	56.44	2609.7	1.95	56.42	3089.6	1.81	58.69
318.3	2.35	55.84	1046.4	1.39	51.64	1859.0	2.03	57.49	2609.8	1.60	56.54	3089.8	1.77	58.61
318.4	2.18	55.44	1046.6	1.67	52.63	1859.2	1.97	57.58	2609.9	1.85	56.93	3090.0	1.95	57.95
318.5	1.78	55.77	1046.8	1.63	52.84	1859.4	1.82	59.05	2610.0	1.65	56.52	3090.2	2.25	57.75
318.6	2.02	55.98	1047.0	1.36	52.76	1859.6	2.01	59.41	2610.1	1.78	56.08	3090.4	1.76	57.17
318.7	2.26	55.65	1047.2	1.50	53.88	1859.8	2.19	59.02	2610.2	1.64	56.74	3090.6	2.02	56.85
318.8	2.13	55.14	1047.4	1.54	53.22	1860.0	1.91	59.52	2610.3	1.60	56.71	3090.8	2.04	57.86
318.9	2.56	55.10	1047.6	1.43	53.04	1860.2	1.13	59.02	2610.4	1.75	55.68	3091.0	1.91	57.73
319.0	2.14	54.80	1047.8	1.76	52.95	1860.4	2.01	58.43	2610.5	1.75	55.65	3091.2	2.04	58.68
319.1	2.53	54.75	1048.0	1.63	53.00	1860.6	1.22	58.37	2610.6	1.67	55.95	3091.4	2.03	57.94
319.2	1.86	55.59	1048.2	1.83	53.11	1860.8	1.69	58.81	2610.7	1.63	55.42	3091.6	1.78	58.04
319.3	1.87	56.04	1048.4	1.44	53.41	1861.0	1.73	57.55	2610.8	1.70	55.35	3091.8	2.10	57.00
319.4	2.32	57.25	1048.6	1.64	53.54	1861.2	1.93	57.91	2610.9	1.72	56.29	3092.0	1.24	57.41
319.5	2.41	57.48	1048.8	1.65	53.62	1861.4	1.76	58.07	2611.0	1.63	56.81	3092.2	1.86	56.68
319.6	2.36	57.27	1049.0	1.87	53.83	1861.6	1.91	58.74	2611.1	1.62	57.51	3092.4	1.87	57.15
319.7	2.63	57.12	1049.2	1.65	53.56	1861.8	2.15	58.84	2611.2	1.77	57.42	3092.6	1.45	57.61
319.8	1.55	57.12	1049.4	1.52	53.83	1862.0	1.49	59.34	2611.3	1.84	57.46	3092.8	1.87	58.15
319.9	2.36	56.68	1049.6	1.67	54.58	1862.2	1.82	59.28	2611.4	1.85	57.82	3093.0	1.80	58.42
320.0	1.86	57.07	1049.8	1.64	55.03	1862.4	1.75	59.30	2611.5	1.21	57.79	3093.2	1.76	58.53
320.1	2.18	57.87	1050.0	1.77	54.98	1862.6	1.96	58.42	2611.6	1.46	57.46	3093.4	1.79	60.54
320.2	1.94	57.28	1050.2	1.62	55.64	1862.8	1.91	57.99	2611.7	1.56	57.37	3093.6	1.29	62.09
320.3	2.14	57.44	1050.4	1.57	55.59	1863.0	1.76	58.10	2611.8	1.84	57.79	3093.8	1.71	61.71
320.4	2.07	57.71	1050.6	1.43	55.77	1863.2	1.83	58.29	2611.9	2.02	57.46	3094.0	1.70	60.91
320.5	2.21	57.92	1050.8	1.56	55.08	1863.4	2.02	58.48	2612.0	1.72	64.31	3094.2	1.73	61.68

321.5	1.85	53.52	1052.8	1.53	56.29	1865.6	1.19	60.38	2613.0	1.84	55.72	3096.2	1.58	61.89
321.6	1.87	54.36	1053.0	1.62	56.63	1865.8	2.09	59.81	2613.1	1.78	55.38	3096.4	1.99	60.92
321.7	2.05	54.22	1053.2	1.56	61.71	1866.0	2.23	59.36	2613.2	1.96	55.85	3096.6	1.73	56.62
321.8	1.94	54.20	1053.4	1.59	63.95	1866.2	1.84	59.45	2613.3	1.86	56.02	3096.8	1.90	57.32
321.9	1.93	54.62	1053.6	1.53	63.53	1866.4	1.94	60.38	2613.4	2.07	56.36	3097.0	2.04	56.72
322.0	1.94	55.12	1054.0	1.75	63.75	1866.6	1.83	60.09	2613.5	1.71	58.69	3097.2	2.16	55.66
322.1	2.39	54.42	1054.2	1.47	63.62	1866.8	1.98	60.71	2613.6	1.92	59.13	3097.4	2.12	55.81
322.2	1.92	54.97	1054.4	1.69	58.73	1867.0	1.90	61.14	2613.7	1.79	59.40	3097.6	1.90	57.86
322.3	1.93	54.19	1054.6	1.72	55.34	1867.2	1.89	61.19	2613.8	1.83	59.23	3097.8	2.23	58.27
322.4	2.25	54.49	1054.8	1.48	55.35	1867.4	1.91	60.90	2613.9	1.80	59.86	3098.0	2.24	60.04
322.5	2.05	54.28	1055.0	1.63	54.75	1867.6	1.71	61.28	2614.0	1.85	57.82	3098.2	2.00	62.46
322.6	2.15	53.72	1055.2	1.65	54.47	1867.8	1.83	61.50	2614.1	1.84	58.32	3098.4	1.72	62.02
322.7	2.32	53.40	1055.4	1.59	54.44	1868.0	1.87	61.00	2614.2	1.51	58.63	3098.6	1.76	59.60
322.8	1.35	54.29	1055.6	1.65	54.81	1868.2	2.20	61.83	2614.3	1.60	57.95	3098.8	1.47	58.23
322.9	2.31	54.19	1055.8	1.92	53.93	1868.4	1.86	61.95	2614.4	1.72	57.30	3099.0	1.66	56.32
323.0	1.93	54.29	1056.0	1.81	54.17	1868.6	2.05	62.36	2614.5	1.73	58.17	3099.2	1.74	55.12
323.1	1.91	54.17	1056.2	1.78	54.48	1868.8	1.77	62.49	2614.6	1.69	58.10	3099.4	2.04	56.37
323.2	2.00	54.08	1056.4	1.78	55.07	1869.0	1.89	62.41	2614.7	1.75	57.88	3099.6	1.85	57.90
323.3	1.81	55.00	1056.6	1.89	55.30	1869.2	1.81	62.93	2614.8	1.76	58.44	3099.8	1.64	59.71
323.4	1.62	56.20	1056.8	1.60	56.78	1869.4	2.06	63.09	2614.9	1.84	57.80	3100.0	1.55	60.31
323.5	1.73	55.99	1057.0	1.86	56.33	1869.6	1.85	62.49	2615.0	1.49	57.25	3100.2	1.60	60.03
323.6	2.10	57.25	1057.2	1.51	56.37	1869.8	1.66	62.11	2615.1	1.54	56.71	3100.4	1.53	59.71
323.7	1.44	57.92	1057.4	1.65	55.96	1870.0	1.72	62.36	2615.2	1.52	57.05	3100.6	1.56	58.54
323.8	1.94	57.27	1057.6	1.31	55.80	1870.2	1.72	60.72	2615.3	1.64	56.71	3100.8	1.72	57.27
323.9	2.07	55.93	1057.8	1.64	55.21	1870.4	1.63	60.13	2615.4	1.55	56.69	3101.0	1.84	56.71
324.0	2.33	54.69	1058.0	1.64	55.91	1870.6	1.95	59.32	2615.5	1.58	56.78	3101.2	1.64	56.34
324.1	2.35	54.36	1058.2	1.18	55.81	1870.8	1.96	58.63	2615.6	1.89	57.06	3101.4	1.85	55.52
324.2	1.67	53.85	1058.4	1.61	55.89	1871.0	1.82	58.04	2615.7	1.69	56.99	3101.6	1.79	56.21
324.3	2.01	53.10	1058.6	1.51	55.89	1871.2	1.88	57.71	2615.8	1.63	57.27	3101.8	1.70	56.24
324.4	1.93	53.96	1058.8	1.58	55.85	1871.4	2.23	57.40	2615.9	1.63	57.85	3102.0	1.29	56.32
324.5	2.01	55.30	1059.0	1.63	55.40	1871.6	2.08	57.57	2616.0	1.37	58.51	3102.2	1.83	56.39
324.6	1.91	55.55	1059.2	1.37	55.61	1871.8	1.72	57.71	2616.1	1.44	59.01	3102.4	1.73	56.66
324.7	1.84	56.05	1059.4	1.49	55.65	1872.0	1.92	58.45	2616.2	1.27	59.14	3102.6	1.56	56.14
324.8	1.88	56.22	1059.6	1.52	56.23	1872.2	1.85	59.25	2616.3	1.58	59.90	3102.8	1.67	57.84
324.9	2.02	55.20	1059.8	1.54	56.08	1872.4	1.87	60.52	2616.4	1.52	60.12	3103.0	1.56	57.20
325.0	1.96	54.69	1060.0	1.60	56.74	1872.6	1.97	60.76	2616.5	1.51	59.65	3103.2	1.49	56.64
325.1	1.93	54.72	1060.2	1.22	57.02	1872.8	1.82	61.39	2616.6	1.66	59.29	3103.4	1.63	56.56
325.2	1.90	54.08	1060.4	1.37	57.45	1873.0	1.86	60.88	2616.7	1.62	59.68	3103.6	1.41	56.73
325.3	1.69	53.99	1060.6	1.45	57.22	1873.2	1.49	60.50	2616.8	1.60	59.56	3103.8	1.42	55.07
325.4	1.82	54.25	1060.8	1.38	58.07	1873.4	1.70	59.52	2616.9	1.22	60.15	3104.0	1.49	55.87
325.5	1.78	54.33	1061.0	1.60	58.82	1873.6	1.92	59.36	2617.0	1.65	60.25	3104.2	1.66	56.26
325.6	1.50	53.92	1061.2	1.68	58.65	1873.8	1.89	59.21	2617.1	1.45	60.72	3104.4	1.46	57.20
325.7	1.87	53.54	1061.4	1.45	58.92	1874.0	2.00	59.44	2617.2	1.41	60.26	3104.6	1.47	57.93
325.8	1.24	53.76	1061.6	1.35	59.70	1874.2	1.91	60.11	2617.3	1.46	59.72	3104.8	1.61	57.60
325.9	2.11	53.91	1061.8	1.26	59.50	1874.4	1.90	60.90	2617.4	1.66	58.89	3105.0	1.55	58.19
326.0	1.70	53.98	1062.0	1.44	59.66	1874.6	2.02	61.67	2617.5	1.40	59.04	3105.2	1.44	58.83
326.1	1.80	54.23	1062.2	1.31	60.77	1874.8	1.89	61.59	2617.6	1.55	58.33	3105.4	1.51	59.15
326.2	2.06	54.02	1062.4	1.42	60.50	1875.0	1.92	61.15	2617.7	1.76	58.00	3105.6	1.36	57.79
326.3	1.80	53.54	1062.6	1.59	59.20	1875.2	2.19	60.49	2617.8	1.59	57.83	3105.8	1.27	58.53
326.4	2.29	53.59	1062.8	1.45	59.53	1875.4	2.05	60.19	2617.9	1.28	57.63	3106.0	1.56	57.93
326.5	2.17	52.81	1063.0	1.40	58.68	1875.6	1.94	59.36	2618.0	1.58	56.71	3106.2	1.58	57.11
326.6	2.15	53.15	1063.2	1.34	57.64	1875.8	1.99	58.75	2618.1	1.53	56.49	3106.4	1.49	56.11
326.7	2.00	54.82	1063.4	1.40	57.74	1876.0	1.90	59.16	2618.2	1.74	56.54	3106.6	1.39	56.44
326.8	1.95	55.66	1063.6	1.62	58.00	1876.2	2.17	59.27	2618.3	1.72	56.48	3106.8	1.41	56.48
326.9	2.12	61.14	1063.8	1.44	57.81	1876.4	2.04	59.39	2618.4	1.52	56.01	3107.0	1.50	56.55
327.0	1.63	65.19	1064.0	1.36	57.84	1876.6	2.00	59.32	2618.5	1.65	56.28	3107.2	1.69	57.03
327.1	1.28	64.48	1064.2	1.32	58.05	1876.8	2.12	59.29	2618.6	1.54	56.27	3107.4	1.53	56.66
327.2	1.65	62.55	1064.4	1.44	58.06	1877.0	1.99	58.81	2618.7	1.75	56.40	3107.6	1.41	56.84
327.3	1.75	62.03	1064.6	1.36	58.25	1877.2	1.99	59.02	2618.8	1.72	56.26	3107.8	1.56	55.90
327.4	1.51	56.33	1064.8	1.70	58.40	1877.4	1.61	58.46	2618.9	1.62	55.86	3108.0	1.30	56.65
327.5	1.75	51.74	1065.0	1.44	59.15	1877.6	1.88	59.02	2619.0	1.73	55.75	3108.2	1.54	57.07
327.6	1.86	50.55	1065.2	1.55	59.38	1877.8	1.83	59.17	2619.1	1.72	56.01	3108.4	1.45	58.19
327.7	1.55	50.66	1065.4	1.22	59.95	1878.0	1.73	60.08	2619.2	1.72	55.98	3108.6	1.12	58.06
327.8	1.42	51.30	1065.6	1.60	59.79	1878.2	1.75	60.19	2619.3	1.72	56.29	3108.8	1.25	59.74
327.9	2.02	51.65	1065.8	1.53	59.31	1878.4	1.91	59.68	2619.4	1.47	57.99	3109.0	1.32	64.67
328.0	1.78	53.55	1066.0	1.52	58.06	1878.6	1.82	58.91	2619.5	1.37	58.32	3109.2	1.26	64.88
328.1	1.55	55.72	1066.2	1.47	57.92	1878.8	1.84	58.49	2619.6	1.78	57.66	3109.4	1.30	64.52
328.2	1.69	58.62	1066.4	1.51	56.94	1879.0	1.77	57.45	2619.7	1.76	57.35	3109.6	1.36	64.93
328.3	1.65	59.61	1066.6	1.45	57.72	1879.2	1.80	56.63	2619.8	1.80	57.05	3109.8	1.58	63.52
328.4	1.70	60.27	1066.8	1.82	58.14	1879.4	1.76	56.71	2619.9	1.70	56.10	3110.0	1.26	57.92
328.5	1.74	60.35	1067.0	1.64	58.78	1879.6	1.81	56.19	2620.0	1.51	56.15	3110.2	1.21	57.09
328.6	1.50	59.16	1067.2	1.29	58.59	1879.8	1.57	56.54	2620.1	1.61	56.65	3110.4	1.44	56.61

329.6	2.08	58.05	1069.2	1.43	57.53	1890.6	1.80	64.81	2621.1	1.77	56.39	3112.4	1.05	56.86
329.7	1.80	60.83	1069.4	1.50	57.28	1890.8	1.76	65.27	2621.2	1.56	58.80	3112.6	1.48	58.20
329.8	1.60	61.65	1069.6	1.10	58.69	1891.0	1.85	65.62	2621.3	1.47	58.64	3112.8	1.33	59.29
329.9	2.00	60.00	1069.8	1.49	58.67	1891.2	1.94	65.48	2621.4	1.72	58.28	3113.0	1.28	59.45
330.0	1.57	59.79	1070.0	1.74	59.28	1891.4	1.96	65.57	2621.5	1.62	58.07	3113.2	1.53	59.22
330.1	1.80	58.67	1070.2	1.39	59.52	1891.6	1.98	65.53	2621.6	1.60	58.52	3113.4	1.58	58.51
330.2	1.69	56.67	1070.4	1.70	59.41	1891.8	2.00	64.72	2621.7	1.56	57.82	3113.6	1.00	58.94
330.3	1.75	56.30	1070.6	1.64	58.42	1892.0	2.05	63.92	2621.8	1.64	56.73	3113.8	1.28	58.13
330.4	1.68	59.65	1070.8	1.41	58.61	1892.2	1.99	64.20	2621.9	1.68	56.21	3114.0	1.52	57.46
330.5	1.98	61.35	1071.0	1.64	58.05	1892.4	1.91	64.78	2622.0	1.62	56.15	3114.2	1.31	57.63
330.6	1.78	62.85	1071.2	1.52	57.79	1892.6	1.86	64.50	2622.1	1.59	55.64	3114.4	1.32	57.51
330.7	1.91	64.82	1071.4	1.57	57.76	1892.8	1.87	65.51	2622.2	1.84	54.82	3114.6	1.34	55.95
330.8	1.88	66.36	1071.6	1.43	57.59	1893.0	1.90	65.48	2622.3	1.57	55.54	3114.8	1.13	55.74
330.9	1.77	65.40	1071.8	1.58	56.74	1893.2	1.81	64.62	2622.4	1.60	55.62	3115.0	1.10	56.40
331.0	1.83	62.96	1072.0	1.57	56.72	1893.4	1.96	64.25	2622.5	1.52	56.34	3115.2	0.92	55.00
331.1	1.63	61.54	1072.2	1.48	56.43	1893.6	1.94	64.86	2622.6	1.75	56.53	3115.4	1.48	55.56
331.2	2.28	58.83	1072.4	1.50	56.44	1893.8	2.11	64.60	2622.7	1.59	57.11	3115.6	1.55	55.71
331.3	2.02	55.94	1072.6	1.36	56.55	1894.0	2.00	65.15	2622.8	1.65	57.59	3115.8	1.58	55.68
331.4	1.97	55.15	1072.8	1.44	56.92	1894.2	2.10	66.52	2622.9	1.46	57.32	3116.0	1.51	55.69
331.5	1.91	55.03	1073.0	1.75	57.35	1894.4	1.88	65.59	2623.0	1.32	56.36	3116.2	1.55	56.61
331.6	2.03	55.19	1073.2	1.82	57.36	1894.6	2.01	65.59	2623.1	1.55	55.79	3116.4	1.62	57.26
331.7	2.15	56.09	1073.4	1.89	58.35	1894.8	1.92	66.04	2623.2	1.62	54.90	3116.6	1.53	57.78
331.8	1.82	56.50	1073.6	1.74	58.74	1895.0	1.94	65.94	2623.3	1.33	54.46	3116.8	1.41	57.85
331.9	1.84	56.55	1073.8	1.65	58.38	1895.2	1.98	65.30	2623.4	1.66	55.88	3117.0	1.47	57.94
332.0	1.79	57.19	1074.0	1.70	58.94	1895.4	1.63	65.70	2623.5	1.61	57.42	3117.2	1.40	58.08
332.1	1.61	57.25	1074.2	1.84	60.36	1895.6	1.91	64.87	2623.6	1.58	58.73	3117.4	1.43	57.35
332.2	2.13	56.31	1074.4	1.67	59.23	1895.8	1.90	63.98	2623.7	1.73	59.12	3117.6	1.43	56.13
332.3	2.09	56.06	1074.6	1.53	58.46	1896.0	1.88	64.20	2623.8	1.55	59.08	3117.8	1.65	56.64
332.4	1.36	56.68	1074.8	1.88	59.20	1896.2	2.09	66.07	2623.9	1.68	57.87	3118.0	1.52	56.88
332.5	1.66	56.59	1075.0	1.80	59.30	1896.4	1.73	66.46	2624.0	1.64	56.42	3118.2	1.34	58.55
332.6	1.83	56.45	1075.2	1.81	59.56	1896.6	2.19	67.24	2624.1	1.70	54.89	3118.4	1.65	58.26
332.7	1.75	57.64	1075.4	1.65	61.21	1896.8	1.95	67.52	2624.2	1.71	54.49	3118.6	1.74	59.59
332.8	1.67	59.28	1075.6	1.81	61.26	1897.0	1.96	67.91	2624.3	2.03	54.04	3118.8	1.73	58.63
332.9	1.48	57.90	1075.8	1.65	60.30	1897.2	1.82	66.64	2624.4	1.61	53.41	3119.0	1.88	58.39
333.0	1.73	57.74	1076.0	1.09	59.80	1897.4	1.89	67.45	2624.5	1.77	52.97	3119.2	0.74	56.18
333.1	1.85	59.15	1076.2	1.51	58.70	1897.6	1.98	66.88	2624.6	1.94	53.45	3119.4	1.49	55.85
333.2	1.71	58.30	1076.4	1.70	58.21	1897.8	2.05	66.25	2624.7	2.03	53.45	3119.6	1.49	56.29
333.3	1.62	57.40	1076.6	1.89	58.96	1898.0	1.99	65.55	2624.8	1.87	53.85	3119.8	1.59	56.96
333.4	1.57	58.15	1076.8	1.45	58.84	1898.2	1.99	64.86	2624.9	1.86	53.98	3120.0	1.58	57.12
333.5	1.78	58.42	1077.0	1.49	58.69	1898.4	1.92	63.78	2625.0	1.96	54.12	3120.2	1.60	57.48
333.6	1.49	57.63	1077.2	1.41	57.65	1898.6	2.08	63.73	2625.1	1.87	53.52	3120.4	1.68	57.97
333.7	1.50	58.30	1077.4	1.55	56.74	1898.8	1.93	64.41	2625.2	2.00	53.77	3120.6	1.67	56.91
333.8	1.75	58.38	1077.6	1.68	55.88	1899.0	1.95	64.04	2625.3	1.93	53.59	3120.8	1.80	56.78
333.9	1.85	59.55	1077.8	1.76	57.03	1899.2	2.13	64.11	2625.4	2.01	53.83	3121.0	1.50	56.90
334.0	1.65	59.91	1078.0	1.64	56.80	1899.4	2.22	63.36	2625.5	2.11	54.14	3121.2	1.54	56.50
334.1	1.36	59.67	1078.2	1.66	58.06	1899.6	2.50	64.25	2625.6	1.86	54.74	3121.4	1.69	57.35
334.2	1.77	58.81	1078.4	1.61	58.05	1899.8	2.02	64.94	2625.7	1.67	54.48	3121.6	1.32	57.36
334.3	1.69	59.48	1078.6	1.77	58.48	1900.0	2.11	64.96	2625.8	1.87	54.14	3121.8	1.55	57.32
334.4	1.64	59.04	1078.8	1.55	57.97	1900.2	2.03	64.71	2625.9	1.67	55.19	3122.0	1.48	56.49
334.5	1.76	59.92	1079.0	1.63	57.93	1900.4	1.91	65.40	2626.0	1.72	55.03	3122.2	1.33	56.52
334.6	1.61	60.20	1079.2	1.56	56.91	1900.6	1.96	64.73	2626.1	1.70	54.88	3122.4	1.61	54.79
334.7	1.52	61.34	1079.4	1.58	57.40	1900.8	2.11	63.76	2626.2	1.23	55.83	3122.6	1.78	54.18
334.8	1.74	60.14	1079.6	1.77	56.88	1901.0	1.92	64.40	2626.3	1.66	56.47	3122.8	0.73	53.50
334.9	1.50	59.75	1079.8	1.90	56.79	1901.2	2.11	64.07	2626.4	1.68	56.02	3123.0	1.54	53.26
335.0	1.74	58.92	1080.0	1.91	56.17	1901.4	2.16	64.08	2626.5	1.43	56.81	3123.2	1.37	52.89
335.1	1.86	58.54	1080.2	1.33	57.25	1901.6	1.96	64.06	2626.6	1.68	57.04	3123.4	1.56	52.71
335.2	1.68	58.92	1080.4	1.97	56.05	1901.8	1.96	64.35	2626.7	1.09	55.97	3123.6	1.54	52.64
335.3	1.76	59.31	1080.6	1.74	57.16	1902.0	1.95	63.60	2626.8	1.03	55.72	3123.8	1.46	53.36
335.4	1.83	59.55	1080.8	2.20	57.27	1902.2	2.11	64.99	2626.9	1.57	55.32	3124.0	1.83	53.81
335.5	1.55	60.34	1081.0	1.79	57.58	1902.4	2.21	65.27	2627.0	1.70	55.96	3124.2	1.84	53.72
335.6	1.67	59.93	1081.2	2.00	56.10	1902.6	2.09	65.22	2627.1	1.57	55.82	3124.4	1.36	54.97
335.7	2.23	58.78	1081.4	1.85	57.82	1902.8	2.17	64.60	2627.2	1.55	55.98	3124.6	1.90	55.70
335.8	1.74	58.59	1081.6	1.83	56.88	1903.0	2.04	64.52	2627.3	1.57	55.77	3124.8	1.48	55.25
335.9	1.37	58.12	1081.8	1.88	56.34	1903.2	2.02	64.48	2627.4	1.52	55.51	3125.0	1.51	54.59
336.0	1.26	56.93	1082.0	1.86	55.85	1903.4	1.83	63.68	2627.5	1.70	54.28	3125.2	1.49	54.69
336.1	1.20	57.40	1082.2	1.60	56.47	1903.6	2.03	63.62	2627.6	1.71	54.56	3125.4	1.76	54.85
336.2	0.96	58.83	1082.4	2.27	55.09	1903.8	2.12	64.73	2627.7	1.67	54.58	3125.6	1.14	55.20
336.3	1.50	59.17	1082.6	2.19	54.62	1904.0	2.00	65.57	2627.8	1.69	55.03	3125.8	1.65	55.60
336.4	1.43	58.68	1082.8	1.81	56.08	1904.2	2.09	64.41	2627.9	1.63	55.15	3126.0	1.39	56.65
336.5	1.40	58.25	1083.0	1.27	56.35	1904.4	1.91	64.24	2628.0	1.48	55.64	3126.2	1.34	57.20
336.6	1.37	58.11	1083.2	1.62	56.22	1904.6	1.83	64.61	2628.1	1.60	54.98	3126.4	1.50	57.32
336.7	1.37	56.70	1083.4	1.90	57.72	1904.8	1.14	64.96	2628.2	1.79	56.16	3126.6	1.48	57.37

337.7	1.35	57.46	1085.4	1.40	64.42	1906.8	1.99	66.84	2629.2	1.71	54.84	3128.6	1.48	56.34
337.8	1.23	58.55	1085.6	1.30	64.44	1907.0	1.96	65.95	2629.3	1.73	55.25	3128.8	1.54	56.69
337.9	1.39	59.48	1085.8	1.46	63.21	1907.2	1.75	65.10	2629.4	1.92	55.03	3129.0	1.61	56.80
338.0	1.22	59.26	1086.0	1.46	65.90	1907.4	1.86	65.28	2629.5	1.68	54.80	3129.2	1.60	57.19
338.1	1.28	58.91	1086.2	1.57	60.59	1907.6	1.87	65.63	2629.6	1.74	58.26	3129.4	1.80	57.42
338.2	1.23	58.85	1086.4	1.66	58.57	1907.8	2.05	65.89	2629.7	1.80	58.62	3129.6	1.62	56.92
338.3	1.31	57.67	1086.6	1.58	58.89	1908.0	1.85	66.53	2629.8	1.74	57.75	3129.8	1.72	57.15
338.4	1.04	57.25	1086.8	1.38	59.87	1908.2	2.02	65.60	2630.6	1.79	57.78	3130.0	1.46	57.22
338.5	1.10	58.68	1087.0	1.85	58.31	1908.4	1.98	65.46	2630.7	1.76	58.04	3130.2	1.55	57.75
338.6	1.21	59.11	1087.2	1.61	57.67	1908.6	2.02	64.76	2630.8	1.86	54.15	3130.4	1.32	57.68
338.7	1.29	59.64	1087.4	1.72	57.33	1908.8	1.71	62.99	2630.9	1.79	53.22	3130.6	1.59	58.78
338.8	1.22	60.21	1087.6	1.56	57.46	1909.0	2.19	62.14	2631.0	1.56	53.55	3130.8	1.25	58.51
338.9	1.27	63.27	1087.8	1.70	56.98	1909.2	1.95	62.26	2631.1	1.52	53.32	3131.0	1.39	58.14
339.0	1.44	62.95	1088.0	1.46	58.39	1909.4	1.94	61.61	2631.2	1.11	53.33	3131.2	1.50	57.59
339.1	1.27	62.90	1088.2	1.61	59.07	1909.6	1.85	61.03	2631.3	1.69	55.42	3131.4	1.48	57.44
339.2	1.20	62.84	1088.4	1.66	59.41	1909.8	1.87	62.20	2631.4	1.62	56.57	3131.6	1.50	57.74
339.3	1.29	62.29	1088.6	1.78	59.76	1910.0	1.51	61.03	2631.5	1.52	57.47	3131.8	1.46	57.55
339.4	1.31	59.14	1088.8	1.68	59.59	1910.2	1.89	61.17	2631.6	2.00	58.41	3132.0	1.56	58.10
339.5	1.26	59.53	1089.0	1.90	58.29	1910.4	2.37	61.61	2631.7	1.54	58.45	3132.2	1.35	57.76
339.6	1.07	58.77	1089.2	1.51	58.39	1910.6	2.14	62.37	2631.8	2.25	56.94	3132.4	1.84	57.88
339.7	1.48	58.33	1089.4	1.80	59.86	1910.8	1.56	61.78	2631.9	1.91	56.08	3132.6	1.76	56.56
339.8	1.40	57.29	1089.6	1.79	59.79	1911.0	2.11	62.20	2632.0	1.73	56.03	3132.8	1.54	56.96
339.9	1.32	57.19	1089.8	1.81	59.69	1911.2	2.07	62.12	2632.1	1.73	55.21	3133.0	1.65	60.48
340.0	1.28	55.78	1090.0	1.71	59.01	1911.4	1.89	61.79	2632.2	2.12	56.40	3133.2	1.68	62.20
340.1	1.35	55.17	1090.2	1.66	58.88	1911.6	1.75	61.89	2632.3	1.67	61.01	3133.6	1.39	62.56
340.2	1.30	54.56	1090.4	1.59	57.80	1911.8	1.99	61.99	2632.4	1.79	62.26	3133.8	1.79	63.03
340.3	1.46	55.13	1090.6	1.91	57.50	1912.0	2.04	61.83	2632.5	1.64	61.23	3134.0	1.72	62.29
340.4	1.50	55.47	1090.8	1.75	57.20	1912.2	1.99	62.54	2632.6	1.81	61.73	3134.2	1.54	57.88
340.5	1.34	55.53	1091.0	1.50	58.79	1912.4	2.10	62.49	2632.7	1.65	60.78	3134.4	1.77	55.86
340.8	1.46	55.91	1091.2	1.76	58.39	1912.6	2.03	62.60	2632.8	1.48	57.50	3134.6	1.62	55.07
341.0	1.42	55.35	1091.4	1.80	59.80	1912.8	1.58	63.30	2632.9	1.80	57.48	3134.8	1.62	54.49
341.2	1.34	55.85	1091.6	1.65	60.83	1913.0	2.01	64.17	2633.0	1.74	58.41	3135.0	1.75	54.17
341.4	1.19	56.66	1091.8	1.46	62.53	1913.2	1.84	63.49	2633.1	1.66	58.17	3135.2	1.65	57.28
341.6	1.31	57.15	1092.0	1.61	62.01	1913.4	1.95	63.52	2633.2	1.64	58.11	3135.4	1.60	58.63
341.8	1.41	57.92	1092.2	1.69	62.00	1913.6	1.72	63.13	2633.3	1.85	57.61	3135.6	1.70	58.35
342.0	1.69	58.99	1092.4	1.48	61.46	1913.8	1.68	63.09	2633.4	1.51	57.74	3135.8	1.62	58.80
342.2	1.25	58.78	1092.6	1.60	60.72	1914.0	1.41	63.19	2633.5	1.64	57.49	3136.0	1.90	59.68
342.4	1.34	57.01	1092.8	1.39	60.35	1914.2	1.62	64.87	2633.6	1.74	58.29	3136.2	1.95	57.19
342.6	1.17	56.90	1093.0	1.67	61.02	1914.4	1.30	65.01	2633.7	1.64	59.54	3136.4	1.78	57.36
342.8	1.48	57.15	1093.2	1.68	61.98	1914.6	1.67	69.09	2633.8	1.76	63.21	3136.6	1.74	58.82
343.0	1.26	57.63	1093.4	1.52	61.98	1914.8	2.04	69.63	2633.9	1.75	63.73	3136.8	1.66	58.53
343.2	1.51	58.43	1093.6	1.74	62.25	1915.0	1.84	69.56	2634.0	1.73	64.44	3137.0	1.67	58.53
343.4	1.33	60.05	1093.8	1.88	63.12	1915.2	1.92	67.65	2634.1	1.70	65.17	3137.2	1.59	58.89
343.6	0.96	61.65	1094.0	1.67	63.06	1915.4	2.14	68.37	2634.2	1.90	66.81	3137.4	1.56	58.18
343.8	1.24	62.34	1094.2	1.85	62.04	1915.6	1.74	64.79	2634.3	1.68	63.09	3137.6	0.41	58.21
344.0	0.80	62.71	1094.4	1.85	61.10	1915.8	1.65	64.41	2634.4	1.56	62.68	3137.8	1.89	58.60
344.2	1.29	63.40	1094.6	1.52	61.06	1916.0	2.11	64.93	2634.5	1.77	62.09	3138.0	1.97	59.23
344.4	0.89	63.84	1094.8	1.63	59.53	1916.2	1.55	65.98	2634.6	1.56	61.13	3138.2	1.84	59.80
344.6	1.41	62.84	1095.0	1.60	58.61	1916.4	1.79	66.60	2634.7	1.53	58.64	3138.4	1.65	60.33
344.8	1.22	63.32	1095.2	1.60	59.50	1916.6	2.01	67.03	2634.8	1.54	59.23	3138.6	1.84	60.10
345.0	1.43	62.98	1095.4	1.63	59.81	1916.8	1.80	67.71	2634.9	1.57	59.39	3138.8	1.37	60.74
345.2	1.46	62.43	1095.6	1.84	59.59	1917.0	1.94	67.75	2635.0	1.51	60.19	3139.0	1.72	59.67
345.4	1.55	62.11	1095.8	1.81	59.31	1917.2	1.86	67.73	2635.1	1.54	61.04	3139.2	1.67	59.52
345.6	1.35	61.93	1096.0	1.53	59.65	1917.4	1.62	66.39	2635.2	1.43	61.55	3139.4	1.63	60.55
345.8	1.28	61.06	1096.2	1.61	58.83	1917.6	1.53	65.22	2635.3	1.54	61.41	3139.6	1.64	62.03
346.0	1.17	61.31	1096.4	1.63	57.93	1917.8	1.69	63.80	2635.4	1.45	61.97	3139.8	1.87	61.65
346.2	1.16	61.80	1096.6	1.78	57.13	1918.0	1.77	62.83	2635.5	1.42	61.97	3140.0	1.44	62.23
346.4	0.92	61.41	1096.8	1.86	56.97	1918.2	2.05	62.36	2635.6	1.75	61.65	3140.2	1.80	61.53
346.6	1.12	63.21	1097.0	1.57	57.12	1918.4	1.83	62.48	2635.7	1.67	66.82	3140.4	1.71	59.39
346.8	1.01	63.18	1097.2	1.71	57.00	1918.6	1.82	62.39	2635.8	1.66	66.90	3140.6	1.81	57.88
347.0	0.96	63.26	1097.4	1.82	58.21	1918.8	1.98	62.48	2635.9	1.95	66.60	3140.8	1.62	57.91
347.2	0.95	63.76	1097.6	1.61	58.33	1919.0	1.57	61.62	2636.0	1.69	66.90	3141.0	1.71	57.82
347.4	0.82	64.96	1097.8	1.85	59.05	1919.2	1.45	61.08	2636.1	1.74	65.80	3141.2	1.84	57.02
347.6	1.07	63.66	1098.0	1.74	58.13	1919.4	1.84	60.92	2636.2	1.56	59.93	3141.4	1.87	57.45
347.8	1.21	63.50	1098.2	1.76	58.20	1919.6	1.89	62.09	2636.3	1.70	59.14	3141.6	1.98	57.75
348.0	1.13	64.02	1098.4	1.86	57.12	1919.8	1.80	62.30	2636.4	1.57	58.90	3141.8	1.84	57.49
348.2	1.12	63.59	1098.6	1.76	57.47	1920.0	1.80	63.57	2636.5	1.89	58.30	3142.0	1.75	57.54
348.4	1.33	62.95	1098.8	1.89	56.85	1920.2	2.02	63.35	2636.6	1.70	58.67	3142.2	1.75	58.26
348.6	1.05	63.84	1099.0	1.87	57.26	1920.4	2.26	63.27	2636.7	1.34	59.07	3142.4	1.98	57.94
348.8	0.89	64.55	1099.2	1.91	57.50	1920.6	1.88	62.45	2636.8	1.68	61.20	3142.6	1.63	57.78
349.0	0.73	63.68	1099.4	1.77	58.71	1920.8	1.57	62.10	2636.9	1.75	61.01	3142.8	1.73	58.79
349.2	0.98	63.20	1099.6	1.65	58.44	1921.0	2.00	61.56	2637.0	1.91	61.02	3143.0	1.94	59.45

351.2	1.12	60.87	1101.6	1.65	58.41	1923.0	1.56	64.57	2638.0	1.58	60.57	3145.0	2.00	55.72
351.4	0.88	62.03	1101.8	1.58	59.41	1923.2	1.73	64.12	2638.1	1.70	61.08	3145.2	2.01	56.61
351.6	0.90	61.75	1102.0	1.53	61.02	1923.4	1.56	65.04	2638.2	1.88	61.31	3145.4	2.13	56.30
351.8	1.24	60.36	1102.2	1.54	61.53	1923.6	2.08	65.26	2638.3	1.79	62.10	3145.6	1.90	55.82
352.0	0.97	60.88	1102.4	1.75	61.56	1923.8	2.19	65.14	2638.4	1.67	62.44	3145.8	1.84	55.42
352.2	0.91	60.71	1102.6	1.46	61.87	1924.0	1.96	66.73	2638.5	1.55	60.59	3146.0	1.90	56.07
352.4	1.14	59.99	1102.8	1.29	62.44	1924.2	1.83	67.52	2638.6	1.49	60.26	3146.2	1.58	56.77
352.6	0.86	60.49	1103.0	1.53	62.72	1924.4	1.89	67.24	2638.7	1.07	60.04	3146.4	1.87	57.22
352.8	1.34	61.20	1103.2	1.59	63.79	1924.6	1.91	66.98	2638.8	1.66	60.96	3146.6	2.17	57.56
353.0	1.30	60.86	1103.4	1.54	63.19	1924.8	1.58	66.11	2638.9	1.05	60.06	3146.8	2.16	59.84
353.2	1.02	59.72	1103.6	1.36	62.79	1925.0	1.68	64.76	2639.0	1.03	60.60	3147.0	1.71	61.82
353.4	0.89	59.60	1103.8	1.37	62.42	1925.2	1.70	65.62	2639.1	1.54	60.64	3147.2	1.81	61.69
353.6	1.11	58.83	1104.0	1.44	60.78	1925.4	1.47	65.69	2639.2	1.71	61.01	3147.4	1.77	61.96
353.8	1.07	59.60	1104.2	1.50	59.11	1925.6	1.83	64.94	2639.3	1.66	60.27	3147.6	1.51	62.21
354.0	0.49	59.51	1104.4	1.51	59.77	1925.8	1.67	65.59	2639.4	1.49	59.85	3147.8	1.61	60.76
354.2	1.17	60.35	1104.6	1.42	61.22	1926.0	2.01	67.51	2639.5	1.65	59.56	3148.0	1.69	59.67
354.4	1.08	60.19	1104.8	1.26	60.47	1926.2	1.63	66.65	2639.6	0.84	59.38	3148.2	1.34	58.92
354.6	0.88	63.30	1105.0	1.71	60.57	1926.4	1.94	68.27	2639.7	1.36	59.28	3148.4	1.56	58.87
354.8	0.71	64.57	1105.2	1.62	61.01	1926.6	1.61	70.71	2639.8	1.55	59.73	3148.6	1.42	60.05
355.0	0.63	65.47	1105.4	1.65	59.73	1926.8	1.90	69.49	2639.9	1.45	60.89	3148.8	1.49	60.19
355.2	0.97	66.75	1105.6	1.52	57.77	1927.0	2.22	66.72	2640.0	1.60	60.52	3149.0	1.76	61.42
355.4	1.14	68.28	1105.8	1.80	58.37	1927.2	2.10	68.44	2640.1	1.64	60.49	3149.2	1.47	61.91
355.6	0.77	66.71	1106.0	1.52	58.54	1927.4	2.07	66.75	2640.2	1.49	60.49	3149.4	1.72	63.57
355.8	1.24	66.24	1106.2	1.27	58.18	1927.6	1.75	64.80	2640.3	1.80	61.03	3149.6	1.50	63.35
356.0	1.19	65.88	1106.4	1.47	58.17	1927.8	1.86	65.66	2640.4	1.75	60.79	3149.8	1.63	61.60
356.2	0.89	67.00	1106.6	0.96	58.22	1928.0	1.50	65.29	2640.5	1.88	61.94	3150.0	1.40	58.90
356.4	1.10	67.21	1106.8	1.65	57.90	1928.2	2.02	63.16	2640.6	1.91	61.13	3150.2	1.23	57.53
356.6	0.94	67.54	1107.0	1.55	57.42	1928.4	1.63	62.22	2640.7	1.90	60.39	3150.4	1.22	54.77
356.8	0.72	67.54	1107.2	1.46	57.16	1928.6	2.05	61.64	2640.8	2.02	58.57	3150.6	1.42	53.05
357.0	0.86	68.67	1107.4	1.51	58.13	1928.8	2.19	61.41	2640.9	2.14	57.21	3150.8	1.59	53.56
357.2	0.82	67.23	1107.6	1.71	58.67	1929.0	2.04	62.54	2641.0	2.04	56.00	3151.0	1.68	53.96
357.4	0.87	65.82	1107.8	1.84	59.32	1929.2	2.10	62.60	2641.1	2.19	55.29	3151.2	1.57	54.51
357.6	0.76	65.05	1108.0	1.55	59.56	1929.4	1.80	62.93	2641.2	1.89	55.43	3151.4	1.47	53.86
357.8	0.87	64.79	1108.2	1.66	60.91	1929.6	2.08	62.86	2641.3	1.87	54.68	3151.6	1.79	53.99
358.0	1.39	63.98	1108.4	1.51	61.27	1929.8	1.87	62.26	2641.4	2.10	54.48	3151.8	1.54	53.78
358.2	1.15	65.13	1108.6	1.60	61.41	1930.0	1.91	61.61	2641.5	2.01	55.12	3152.0	1.84	52.83
358.4	1.22	67.46	1108.8	1.72	61.94	1930.2	2.23	60.82	2641.6	1.85	55.41	3152.2	1.73	51.87
358.6	1.06	68.81	1109.0	1.58	62.81	1930.4	2.12	60.95	2641.7	1.92	55.75	3152.4	1.62	53.06
358.8	0.98	72.61	1109.2	1.56	61.42	1930.6	1.98	60.76	2641.8	1.94	56.62	3152.6	1.65	52.32
359.0	1.10	72.44	1109.4	1.42	60.55	1930.8	1.76	60.47	2641.9	1.99	56.86	3152.8	1.47	51.69
359.2	1.20	71.73	1109.6	1.69	61.00	1931.0	2.23	59.88	2642.0	1.96	56.44	3153.0	1.56	52.23
359.4	1.44	69.84	1109.8	1.81	60.54	1931.2	1.90	59.73	2642.1	1.52	57.82	3153.2	1.50	52.62
359.6	1.16	67.68	1110.0	1.37	59.35	1931.4	2.06	59.91	2642.2	2.12	57.25	3153.4	1.38	51.94
359.8	1.16	63.78	1110.2	1.64	59.90	1931.6	1.59	62.29	2642.3	1.99	57.07	3153.6	1.48	52.61
360.0	0.77	63.93	1110.4	1.38	60.19	1931.8	1.81	62.95	2642.4	1.54	57.16	3153.8	1.56	53.29
360.2	1.38	64.31	1110.6	1.87	59.06	1932.0	1.74	63.93	2642.5	1.64	57.35	3154.0	1.60	53.64
360.4	1.31	64.42	1110.8	1.73	58.33	1932.2	1.97	64.79	2642.6	2.00	55.87	3154.2	1.35	53.21
360.6	1.06	65.76	1111.0	1.62	58.05	1932.4	2.20	64.52	2642.7	1.96	55.96	3154.4	1.39	53.24
360.8	1.28	65.87	1111.2	1.40	57.13	1932.6	1.79	62.74	2642.8	1.72	55.69	3154.6	1.42	51.99
361.0	1.13	65.80	1111.4	1.88	57.28	1932.8	2.12	62.55	2642.9	1.85	55.55	3154.8	1.38	51.71
361.2	1.00	66.51	1111.6	1.57	57.34	1933.0	2.05	62.47	2643.0	1.70	55.38	3155.0	1.60	51.48
361.4	1.00	66.28	1111.8	1.68	57.24	1933.2	2.17	63.22	2643.1	2.04	55.98	3155.2	1.29	51.85
361.6	1.11	66.25	1112.0	1.75	59.18	1933.4	2.11	63.05	2643.2	1.81	56.08	3155.4	1.53	51.96
361.8	1.09	65.64	1112.2	1.59	59.74	1933.6	1.85	63.01	2643.3	2.02	55.94	3155.6	1.38	53.20
362.0	0.87	67.00	1112.4	1.45	58.95	1933.8	1.61	64.19	2643.4	1.81	60.43	3155.8	1.17	52.76
362.2	1.05	67.13	1112.6	1.88	59.03	1934.0	2.05	63.53	2643.5	1.77	60.69	3156.0	1.59	50.98
362.4	1.22	66.98	1112.8	1.92	59.92	1934.2	1.86	62.22	2643.6	1.67	60.24	3156.2	1.60	50.96
362.6	0.94	66.52	1113.0	1.91	58.50	1934.4	1.90	62.61	2643.7	1.80	60.31	3156.4	1.34	50.03
362.8	1.34	65.82	1113.2	1.65	58.40	1934.6	2.17	62.33	2643.8	1.86	60.62	3156.6	1.36	49.45
363.0	1.10	65.25	1113.4	1.67	58.36	1934.8	1.85	61.42	2643.9	1.80	56.33	3156.8	1.54	50.08
363.2	0.72	63.82	1113.6	1.96	59.43	1935.0	2.02	61.12	2644.0	1.85	55.58	3157.0	1.71	50.45
363.4	0.90	63.49	1113.8	1.58	59.33	1935.2	1.93	60.38	2644.1	1.77	56.31	3157.2	1.52	49.82
363.6	0.87	65.82	1114.0	1.66	59.47	1935.4	2.04	59.60	2644.2	1.65	56.30	3157.4	1.51	50.57
363.8	1.09	70.11	1114.2	1.87	59.54	1935.6	2.26	59.13	2644.3	1.64	56.07	3157.6	1.45	50.87
364.0	1.02	69.78	1114.4	1.68	60.07	1935.8	1.96	59.01	2644.4	0.98	56.11	3157.8	0.88	50.29
364.2	0.94	69.81	1114.6	1.81	58.63	1936.0	1.99	59.46	2644.5	1.61	56.50	3158.0	1.53	50.68
364.4	1.05	71.30	1114.8	1.76	58.38	1936.2	2.02	59.73	2644.6	1.64	56.04	3158.2	1.16	50.60
364.6	0.60	70.55	1115.0	1.78	58.68	1936.4	2.08	60.22	2644.7	0.97	56.13	3158.4	1.48	49.80
364.8	0.56	68.54	1115.2	1.65	58.86	1936.6	1.99	61.12	2644.8	1.21	56.95	3158.6	1.59	49.46
365.0	1.21	69.10	1115.4	1.64	59.56	1936.8	2.05	60.30	2644.9	1.80	57.26	3158.8	1.62	49.39
365.2	1.40	72.00	1115.6	1.65	60.01	1937.0	1.91	60.25	2645.0	1.81	58.61	3159.0	1.56	50.22
365.4	1.45	72.00	1115.8	1.75	59.58	1937.2	1.82	60.24	2645.1	1.68	59.03	3159.2	1.61	50.62

367.4	0.97	77.49	1117.8	1.82	60.06	1939.2	2.04	58.99	2646.1	1.57	57.13	3161.2	1.61	55.63
367.6	1.21	76.26	1118.0	1.78	61.27	1939.4	2.05	59.96	2646.2	1.68	57.14	3161.4	1.47	56.14
367.8	0.98	74.43	1118.2	1.62	62.86	1939.6	2.10	59.91	2646.3	1.87	57.72	3161.6	1.38	56.94
368.0	0.94	73.72	1118.4	1.54	63.95	1939.8	1.95	60.02	2646.4	2.30	58.05	3161.8	1.47	56.89
368.2	0.95	73.22	1118.6	1.59	63.99	1940.0	2.35	60.97	2646.5	1.17	57.74	3162.0	1.54	57.44
368.4	1.05	75.86	1118.8	1.80	64.31	1940.2	2.27	59.34	2646.6	2.00	57.35	3162.2	1.73	56.01
368.6	1.11	78.45	1119.0	1.60	63.69	1940.4	1.90	58.90	2646.7	1.85	57.84	3162.4	1.91	54.04
368.8	1.12	78.47	1119.2	1.73	62.80	1940.6	2.08	58.93	2646.8	2.01	57.84	3162.6	1.88	53.63
369.0	1.09	76.67	1119.4	1.37	62.28	1940.8	1.95	59.98	2646.9	1.62	57.67	3162.8	2.08	54.87
369.2	1.28	74.08	1119.6	1.62	61.87	1941.0	1.94	59.26	2647.0	2.15	57.17	3163.0	1.89	54.45
369.4	0.89	71.25	1119.8	1.71	60.41	1941.2	1.96	59.76	2647.1	1.94	57.82	3163.2	1.79	54.59
369.6	1.29	69.38	1120.0	1.32	60.58	1941.4	1.82	59.93	2647.2	1.68	57.23	3163.4	1.85	55.36
369.8	1.16	67.74	1120.2	1.57	61.07	1941.6	2.04	61.15	2647.3	1.60	56.04	3163.6	1.79	56.81
370.0	1.26	66.28	1120.4	1.55	61.96	1941.8	1.80	61.46	2647.4	1.73	55.87	3163.8	0.72	57.37
370.2	0.85	67.54	1120.6	1.55	61.48	1942.0	1.18	62.68	2647.5	2.00	55.72	3164.0	1.14	57.47
370.4	1.28	68.17	1120.8	1.60	62.24	1942.2	1.94	62.87	2647.6	2.03	55.00	3164.2	1.49	58.26
370.6	1.19	67.60	1121.0	1.47	62.09	1942.4	1.62	62.83	2647.7	2.25	54.46	3164.4	1.65	58.10
370.8	1.17	68.54	1121.2	1.45	62.53	1942.6	1.95	62.95	2647.8	1.66	55.08	3164.6	1.70	55.85
371.0	1.30	70.02	1121.4	1.83	62.39	1942.8	1.70	62.36	2647.9	2.09	55.13	3164.8	1.56	54.00
371.2	1.31	69.69	1121.6	1.54	62.62	1943.0	1.71	61.33	2648.0	1.30	55.58	3165.0	1.57	54.18
371.4	1.25	68.84	1121.8	1.48	61.74	1943.2	1.69	61.45	2648.1	1.99	55.53	3165.2	1.57	53.82
371.6	1.19	69.85	1122.0	1.79	60.91	1943.4	2.07	60.77	2648.2	1.81	55.45	3165.4	1.43	55.81
371.8	1.22	69.94	1122.2	1.60	59.96	1943.6	1.77	60.25	2648.3	2.25	55.44	3165.6	1.54	57.55
372.0	1.22	70.15	1122.4	1.58	58.13	1943.8	1.74	60.96	2648.4	1.90	55.06	3165.8	1.25	57.92
372.2	1.14	70.55	1122.6	1.67	57.32	1944.0	1.99	60.99	2648.5	1.98	54.48	3166.0	1.31	58.12
372.4	1.11	71.96	1122.8	1.89	57.39	1944.2	2.22	60.26	2648.6	2.13	54.77	3166.2	1.61	58.05
372.6	1.21	70.19	1123.0	1.95	57.56	1944.4	1.82	60.35	2648.7	1.59	54.71	3166.4	1.58	56.39
372.8	1.19	70.55	1123.2	1.95	56.92	1944.6	2.22	61.57	2648.8	2.23	54.96	3166.6	1.02	55.16
373.0	0.70	69.80	1123.4	1.76	57.22	1944.8	1.85	60.60	2648.9	2.30	54.95	3166.8	1.52	54.70
373.2	1.10	69.97	1123.6	1.65	57.77	1945.0	2.01	62.18	2649.0	1.81	54.80	3167.0	1.47	54.38
373.4	0.75	71.78	1123.8	1.65	57.38	1945.2	1.87	62.33	2649.1	2.41	54.47	3167.2	1.10	54.21
373.6	0.94	73.95	1124.0	1.54	57.54	1945.4	1.88	62.78	2649.2	2.08	55.04	3167.4	1.24	53.19
373.8	1.07	75.21	1124.2	1.50	57.99	1945.6	2.02	61.82	2649.3	1.99	54.60	3167.6	1.44	54.00
374.0	1.14	76.26	1124.4	1.27	58.75	1945.8	2.05	61.68	2649.4	1.94	54.81	3167.8	1.48	55.61
374.2	1.17	76.30	1124.6	1.85	59.26	1946.0	1.72	60.06	2649.5	1.99	54.99	3168.0	1.39	54.63
374.4	1.24	73.12	1124.8	1.66	59.79	1946.2	2.03	59.54	2649.6	2.20	55.45	3168.2	1.41	53.57
374.6	1.06	72.20	1125.0	1.62	59.54	1946.4	1.98	58.68	2649.7	1.92	56.15	3168.4	1.19	54.27
374.8	1.23	72.17	1125.2	1.60	59.23	1946.6	2.53	60.41	2649.8	2.19	56.45	3168.6	1.38	52.99
375.0	1.20	72.84	1125.4	1.41	58.71	1946.8	1.87	60.98	2649.9	2.05	56.68	3168.8	1.38	51.79
375.2	0.97	80.14	1125.6	1.66	58.10	1947.0	2.22	61.15	2650.0	2.02	58.39	3169.0	1.23	53.17
375.4	0.93	81.02	1125.8	1.41	58.30	1947.2	1.85	61.55	2650.1	2.06	58.88	3169.2	1.58	54.32
375.6	0.75	80.88	1126.0	1.72	58.71	1947.4	1.80	62.36	2650.2	1.95	58.84	3169.4	1.49	54.11
375.8	1.23	79.43	1126.2	1.60	59.19	1947.6	2.26	60.76	2650.3	1.73	59.19	3169.6	1.48	55.14
376.0	1.15	79.37	1126.4	1.29	59.52	1947.8	1.69	60.78	2650.4	2.09	59.16	3169.8	1.51	54.53
376.2	1.16	71.71	1126.6	1.43	59.78	1948.0	1.96	61.31	2650.5	1.85	57.64	3170.0	1.33	54.24
376.4	0.62	70.33	1126.8	1.42	59.25	1948.2	1.98	62.03	2650.6	1.86	56.94	3170.2	1.63	53.54
376.6	0.77	70.33	1127.0	1.46	58.58	1948.4	2.06	61.78	2650.7	1.96	56.40	3170.4	1.72	54.64
376.8	1.13	71.47	1127.2	1.38	57.68	1948.6	2.04	61.34	2650.8	2.15	55.49	3170.6	1.67	54.05
377.0	0.99	71.60	1127.4	1.58	56.76	1948.8	1.99	60.70	2650.9	2.04	55.52	3170.8	1.64	54.93
377.2	0.62	73.20	1127.6	1.60	56.14	1949.0	2.08	60.61	2651.0	2.05	55.68	3171.0	1.47	56.05
377.4	1.04	73.97	1127.8	1.76	57.14	1949.2	1.97	60.20	2651.1	1.77	55.61	3171.2	1.57	56.29
377.6	0.63	73.62	1128.0	1.72	58.30	1949.4	2.31	60.32	2651.2	2.21	55.33	3171.4	1.75	54.97
377.8	1.21	72.03	1128.2	1.60	58.14	1949.6	2.17	59.86	2651.3	1.80	55.39	3171.6	1.29	55.37
378.0	0.74	70.68	1128.4	1.62	58.02	1949.8	2.05	60.95	2651.4	1.84	54.35	3171.8	1.46	54.42
378.2	0.92	68.72	1128.6	1.77	57.78	1950.0	2.36	61.41	2651.5	2.05	54.50	3172.0	1.28	51.58
378.4	1.10	67.54	1128.8	1.81	57.13	1950.2	1.94	61.67	2651.6	2.40	54.74	3172.2	1.58	51.52
378.6	0.97	67.12	1129.0	1.68	56.74	1950.4	1.97	61.43	2651.7	2.10	54.73	3172.4	1.45	51.39
378.8	0.76	67.01	1129.2	1.73	56.90	1950.6	2.08	62.66	2651.8	2.02	55.00	3172.6	1.79	51.30
379.0	1.10	68.82	1129.4	1.59	56.81	1950.8	1.96	62.38	2651.9	2.05	56.53	3172.8	1.55	50.91
379.2	1.04	70.31	1129.6	1.47	57.02	1951.0	1.85	61.80	2652.0	1.66	55.87	3173.0	1.85	51.13
379.4	1.19	70.97	1129.8	1.58	56.48	1951.2	2.08	61.83	2652.1	1.57	55.45	3173.2	1.76	50.61
379.6	1.11	70.55	1130.0	1.63	55.96	1951.4	2.02	62.21	2652.2	1.73	55.53	3173.4	1.63	51.97
379.8	1.13	71.27	1130.2	1.85	56.20	1951.6	1.94	60.80	2652.3	1.89	55.05	3173.6	1.57	50.16
380.0	1.13	69.01	1130.4	1.47	56.15	1951.8	2.16	60.25	2652.4	1.86	55.01	3173.8	1.07	51.81
380.2	1.19	68.24	1130.6	1.69	56.72	1952.0	2.16	61.05	2652.5	1.89	55.55	3174.0	1.41	53.61
380.4	1.27	69.49	1130.8	1.61	56.82	1952.2	2.14	61.55	2652.6	1.70	55.84	3174.2	1.26	53.24
380.6	1.21	70.60	1131.0	1.86	59.55	1952.4	2.06	62.83	2652.7	1.98	56.00	3174.4	1.61	53.65
380.8	1.11	70.30	1131.2	1.69	59.84	1952.6	1.67	64.11	2652.8	1.79	57.20	3174.6	1.47	55.42
381.0	1.24	73.82	1131.4	1.71	59.89	1952.8	2.01	65.17	2652.9	1.78	57.46	3174.8	1.44	53.97
381.2	1.11	74.03	1131.6	1.85	59.66	1953.0	1.94	65.10	2653.0	1.81	57.31	3175.0	1.40	53.90
381.4	1.07	72.90	1131.8	1.72	59.76	1953.2	2.13	65.00	2653.1	1.70	58.37	3175.2	1.39	56.04
381.6	0.89	73.09	1132.0	1.78	56.86	1953.4	1.85	63.90	2653.2	1.80	62.54	3175.4	1.42	54.56

383.6	1.25	70.51	1134.0	1.75	55.32	1959.4	1.81	55.30	2654.2	1.66	59.66	3177.4	1.42	54.14
383.8	1.20	72.31	1134.2	1.89	54.83	1959.6	1.74	54.55	2654.3	1.76	58.82	3177.6	1.36	53.28
384.0	1.34	73.15	1134.4	1.52	54.66	1959.8	1.85	54.27	2654.4	1.92	58.91	3177.8	1.38	52.55
384.2	1.17	73.03	1134.6	1.59	55.30	1960.0	2.03	54.29	2654.5	1.75	58.18	3178.0	1.24	52.87
384.4	1.02	72.96	1134.8	1.46	56.49	1960.2	1.96	54.40	2654.6	1.54	58.76	3178.2	1.61	53.42
384.6	1.28	72.58	1135.0	1.39	57.14	1960.4	1.82	53.75	2654.7	1.74	59.49	3178.4	1.51	52.23
384.8	1.30	72.17	1135.2	1.61	57.98	1960.6	1.54	54.21	2654.8	1.48	59.48	3178.6	1.75	52.57
385.0	1.35	72.21	1135.4	1.54	59.02	1960.8	2.15	54.71	2654.9	1.52	58.40	3178.8	1.82	52.15
385.2	1.28	72.08	1135.6	1.65	58.78	1961.0	1.89	53.95	2655.0	1.50	58.42	3179.0	1.69	51.09
385.4	1.06	72.32	1135.8	1.56	58.21	1961.2	2.11	54.30	2655.1	1.37	57.80	3179.2	1.76	51.34
385.6	1.20	72.51	1136.0	1.58	58.21	1961.4	2.31	54.47	2655.2	1.29	58.02	3179.4	1.76	50.97
385.8	1.37	71.55	1136.2	1.79	58.18	1961.6	2.01	54.36	2655.3	1.19	58.53	3179.6	1.55	52.20
386.0	1.18	70.55	1136.4	1.45	57.80	1961.8	1.94	54.68	2655.4	1.50	58.98	3179.8	1.39	53.63
386.2	1.39	70.83	1136.6	1.77	57.46	1962.0	1.76	55.25	2655.5	1.73	58.78	3180.0	1.63	54.71
386.4	1.17	70.16	1136.8	1.69	57.66	1962.2	2.18	56.13	2655.6	1.49	61.93	3180.2	1.48	55.48
386.6	0.94	68.98	1137.0	1.78	57.33	1962.4	1.86	56.62	2655.7	1.62	61.34	3180.4	1.32	56.60
386.8	0.82	69.06	1137.2	1.88	57.07	1962.6	2.20	57.14	2655.8	1.63	61.61	3180.6	1.09	56.22
387.0	0.67	70.08	1137.4	1.55	56.72	1962.8	1.81	55.94	2655.9	1.83	61.65	3180.8	1.60	55.77
387.2	0.74	68.54	1137.6	1.66	57.02	1963.0	1.91	56.24	2656.0	1.55	62.47	3181.0	1.52	56.21
387.4	0.97	69.41	1137.8	1.67	56.96	1963.2	1.87	55.04	2656.1	1.75	59.16	3181.2	1.61	55.92
387.6	1.39	70.69	1138.0	1.89	57.27	1963.4	2.34	54.59	2656.2	1.64	59.02	3181.4	1.47	57.26
387.8	1.18	70.57	1138.2	1.88	57.34	1963.6	2.18	53.45	2656.3	1.65	58.06	3181.6	1.66	56.61
388.0	1.16	69.31	1138.4	1.81	56.72	1963.8	2.24	53.61	2656.4	1.85	57.75	3181.8	1.55	58.21
388.2	1.41	69.00	1138.6	1.72	56.95	1964.0	2.16	53.83	2656.5	1.84	57.68	3182.0	1.49	58.33
388.4	1.45	67.98	1138.8	1.86	56.93	1964.2	2.00	56.02	2656.6	1.65	57.83	3182.2	1.25	57.80
388.6	1.29	67.05	1139.0	1.73	58.00	1964.4	1.97	56.89	2656.7	1.53	60.54	3182.4	1.47	56.49
388.8	1.15	66.65	1139.2	1.64	58.36	1964.6	2.43	58.18	2656.8	0.99	60.43	3182.6	1.41	56.86
389.0	1.28	66.33	1139.4	1.59	59.30	1964.8	1.89	57.93	2656.9	1.65	60.82	3182.8	1.45	55.69
389.2	1.45	67.19	1139.6	1.59	59.77	1965.0	1.96	58.04	2657.0	1.55	59.87	3183.0	1.33	56.03
389.4	1.43	67.61	1139.8	1.88	59.61	1965.2	1.83	56.66	2657.1	1.87	59.87	3183.2	1.22	57.39
389.6	1.46	68.32	1140.0	1.53	58.26	1965.4	2.11	57.34	2657.2	1.68	56.90	3183.4	1.38	61.66
389.8	0.90	67.75	1140.2	1.72	57.80	1965.6	1.93	56.73	2657.3	1.86	57.20	3183.6	1.33	62.95
390.0	1.56	68.63	1140.4	1.92	57.06	1965.8	1.79	56.29	2657.4	1.94	57.00	3183.8	0.25	63.91
390.2	1.59	68.50	1140.6	1.83	56.68	1966.0	1.97	55.66	2657.5	1.75	56.99	3184.0	0.23	64.53
390.4	1.56	68.53	1140.8	1.68	56.90	1966.2	2.31	55.21	2657.6	1.86	57.20	3184.2	0.59	63.93
390.6	1.53	68.08	1141.0	1.81	56.84	1966.4	1.90	53.96	2657.7	1.73	58.29	3184.4	0.71	59.91
390.8	1.47	69.10	1141.2	1.61	56.18	1966.6	1.74	53.78	2657.8	1.70	58.47	3184.6	1.29	59.43
391.0	1.52	69.41	1141.4	1.71	56.20	1966.8	1.66	54.60	2657.9	1.65	59.36	3184.8	1.70	58.85
391.2	1.55	69.63	1141.6	1.37	56.07	1967.0	1.78	55.13	2658.0	1.83	60.56	3185.0	1.42	57.21
391.4	1.34	69.38	1141.8	1.12	56.76	1967.2	2.05	55.00	2658.1	1.24	61.55	3185.2	1.49	56.80
391.6	1.63	69.42	1142.0	1.60	56.82	1967.4	1.99	55.57	2658.2	1.77	61.30	3185.4	1.44	57.78
391.8	1.30	69.84	1142.2	1.49	57.50	1967.6	2.16	55.91	2658.3	1.73	60.76	3185.6	1.50	56.63
392.0	1.29	69.20	1142.4	1.37	57.72	1967.8	1.57	55.84	2658.4	1.63	59.90	3185.8	1.53	55.14
392.2	1.34	69.56	1142.6	1.73	57.83	1968.0	1.96	55.68	2658.5	1.56	59.04	3186.0	2.03	55.20
392.4	1.39	69.13	1142.8	1.65	57.24	1968.2	1.62	56.12	2658.6	1.72	57.47	3186.2	1.80	55.76
392.6	1.60	67.89	1143.0	1.10	59.17	1968.4	1.92	55.89	2658.7	1.42	56.76	3186.4	1.61	54.44
392.8	1.67	66.85	1143.2	1.57	61.80	1968.6	1.95	55.25	2658.8	1.70	56.38	3186.6	1.64	54.00
393.0	1.41	66.80	1143.4	1.73	62.52	1968.8	2.25	55.75	2658.9	1.61	55.55	3186.8	1.87	54.66
393.2	1.43	65.46	1143.6	1.43	62.43	1969.0	1.87	55.09	2659.0	1.74	56.20	3187.0	1.96	55.10
393.4	1.54	65.29	1143.8	1.58	61.78	1969.2	1.95	53.99	2659.1	1.76	56.47	3187.2	1.74	54.79
393.6	1.16	66.88	1144.0	1.46	60.44	1969.4	2.08	53.38	2659.2	1.42	57.41	3187.4	1.87	55.08
393.8	1.54	66.38	1144.2	1.44	57.52	1969.6	2.00	53.40	2659.3	1.77	58.17	3187.6	1.77	55.11
394.0	1.50	67.82	1144.4	1.59	56.87	1969.8	2.02	53.63	2659.4	1.17	59.02	3187.8	1.81	55.01
394.2	1.38	69.90	1144.6	1.85	56.88	1970.0	1.28	53.81	2659.5	1.50	58.88	3188.0	1.58	54.33
394.4	1.34	70.33	1144.8	1.58	56.55	1970.2	1.75	53.90	2659.6	1.35	59.15	3188.2	1.80	55.54
394.6	1.15	70.53	1145.0	1.39	54.93	1970.4	1.73	54.51	2659.7	1.88	65.26	3188.4	1.83	54.76
394.8	1.37	71.33	1145.2	1.62	54.98	1970.6	1.99	55.39	2659.8	1.46	65.36	3188.6	1.62	55.08
395.0	1.49	78.32	1145.4	1.77	55.01	1970.8	1.80	54.41	2659.9	1.57	65.07	3188.8	1.58	54.39
395.2	1.40	77.21	1145.6	1.62	54.46	1971.0	1.90	54.94	2660.0	1.76	64.53	3189.0	1.56	54.77
395.4	1.48	77.42	1145.8	1.81	56.03	1971.2	1.90	55.51	2660.1	1.54	64.62	3192.8	2.02	54.23
395.6	1.58	77.18	1146.0	1.78	57.18	1971.4	1.89	55.20	2660.2	1.41	58.30	3193.0	1.56	55.66
395.8	1.71	75.80	1146.2	1.79	57.20	1971.6	1.86	54.19	2660.3	1.52	57.37	3193.2	1.89	56.52
396.0	1.59	66.60	1146.4	1.71	56.65	1971.8	1.88	54.73	2660.4	1.73	56.64	3193.4	2.01	58.33
396.2	1.30	65.48	1146.6	1.81	57.46	1972.0	1.64	54.77	2660.5	1.96	57.40	3193.6	1.77	59.30
396.4	1.88	65.75	1146.8	1.69	56.11	1972.2	1.74	54.94	2660.6	1.74	56.30	3193.8	1.70	59.49
396.6	1.82	65.10	1147.0	1.50	55.63	1972.4	1.83	55.01	2660.7	1.58	55.55	3194.0	1.82	60.11
396.8	1.56	66.62	1147.2	1.74	55.48	1972.6	1.74	54.77	2660.8	1.35	55.42	3194.2	1.59	61.62
397.0	0.89	67.51	1147.4	1.84	55.62	1972.8	1.76	54.55	2660.9	1.69	56.01	3194.4	1.74	60.84
397.2	1.63	67.95	1147.6	2.20	54.98	1973.0	1.09	53.86	2661.0	1.48	54.77	3194.6	1.76	61.27
397.4	1.77	66.93	1147.8	2.12	55.02	1973.2	2.01	53.79	2661.1	1.79	55.26	3194.8	1.63	61.96
397.6	1.39	68.32	1148.0	1.94	55.07	1973.4	2.12	53.62	2661.2	1.74	55.26	3195.0	1.54	61.18
397.8	1.34	67.75	1148.2	2.22	54.94	1973.6	1.62	54.36	2661.3	1.73	55.90	3195.2	1.54	60.15

399.8	0.57	73.10	1150.2	2.16	55.06	1975.6	2.15	55.10	2662.3	1.70	56.17	3197.2	1.74	57.62
400.0	0.69	72.43	1150.4	2.34	55.11	1975.8	1.89	54.10	2662.4	0.97	56.02	3197.4	1.58	57.30
400.2	0.64	69.13	1150.6	1.67	55.55	1976.0	1.36	53.36	2662.5	1.38	55.69	3197.6	1.68	57.28
400.4	0.64	69.96	1150.8	1.97	56.12	1976.2	1.93	53.51	2662.6	1.51	55.95	3197.8	1.65	58.40
400.6	0.90	70.05	1151.0	2.35	57.29	1976.4	1.63	54.15	2662.7	1.63	56.35	3198.0	1.83	59.13
400.8	0.70	70.19	1151.2	2.18	58.06	1976.6	1.52	55.51	2662.8	1.56	58.32	3198.2	1.51	59.12
401.0	0.93	70.27	1151.4	1.92	57.68	1976.8	1.46	56.49	2662.9	1.52	57.85	3198.4	1.72	59.74
401.2	0.80	70.50	1151.6	1.81	58.20	1977.0	1.44	57.15	2663.0	1.39	57.80	3198.6	1.38	59.37
401.4	1.19	69.05	1151.8	1.86	58.44	1977.2	1.53	57.28	2663.1	1.73	57.26	3198.8	1.23	57.81
401.6	1.19	68.16	1152.0	1.80	58.29	1977.4	2.17	57.02	2663.2	1.70	58.20	3199.0	1.58	56.98
401.8	1.18	67.39	1152.2	1.79	58.56	1977.6	1.88	56.06	2663.3	1.69	55.61	3199.2	1.69	56.43
402.0	1.39	67.36	1152.4	1.78	59.14	1977.8	1.98	54.93	2663.4	1.54	55.84	3199.4	1.72	56.01
402.2	1.30	66.73	1152.6	1.76	58.68	1978.0	1.89	55.47	2663.5	1.65	55.85	3199.6	1.70	55.88
402.4	1.65	67.71	1152.8	1.37	58.11	1978.2	1.74	55.17	2663.6	0.85	56.73	3199.8	1.54	55.94
402.6	1.20	67.39	1153.0	1.81	57.30	1978.4	2.03	55.25	2663.7	1.30	55.69	3200.0	1.51	55.13
402.8	1.57	68.39	1153.2	2.03	57.05	1978.6	1.85	55.42	2663.8	1.57	56.42	3200.2	1.46	55.46
403.0	1.61	68.59	1153.4	1.58	57.76	1978.8	1.76	55.62	2663.9	1.65	56.75	3200.4	1.47	54.94
403.2	1.59	69.49	1153.6	1.82	57.97	1979.0	1.87	55.44	2664.0	1.45	57.09	3200.6	1.86	54.64
403.4	1.61	69.95	1153.8	1.88	58.16	1979.2	2.08	54.70	2664.1	1.66	56.84	3200.8	1.49	54.70
403.6	1.68	68.16	1154.0	1.84	58.82	1979.4	1.95	55.11	2664.2	1.60	56.78	3201.0	1.72	56.36
403.8	1.66	67.50	1154.2	1.75	58.72	1979.6	1.80	55.76	2664.3	1.81	57.34	3201.2	1.46	55.70
404.0	1.67	67.72	1154.4	1.73	57.78	1979.8	2.16	55.93	2664.4	1.48	57.23	3201.4	1.65	56.66
404.2	1.61	67.43	1154.6	1.75	57.62	1980.0	1.66	55.81	2664.5	1.59	56.35	3201.6	1.33	56.91
404.4	1.46	67.15	1154.8	1.61	57.63	1980.2	1.98	56.12	2664.6	1.48	56.73	3201.8	1.49	56.47
404.6	1.58	69.78	1155.0	1.82	57.54	1980.4	2.02	55.49	2664.7	1.52	56.86	3202.0	1.31	55.79
404.8	1.51	70.37	1155.2	1.72	57.25	1980.6	1.75	55.04	2664.8	1.62	55.90	3202.2	1.67	56.12
405.0	1.66	69.98	1155.4	1.48	57.96	1980.8	1.74	56.09	2664.9	1.63	55.60	3202.4	1.53	55.74
405.2	1.24	71.17	1159.0	1.64	58.59	1981.0	2.14	56.07	2665.0	1.83	55.60	3202.6	1.49	55.23
405.4	1.25	71.32	1159.2	1.69	60.88	1981.2	2.00	56.71	2665.1	1.75	55.32	3202.8	1.45	55.49
405.6	1.51	71.07	1159.4	1.65	62.66	1981.4	1.88	56.63	2665.2	1.65	55.56	3203.0	1.78	54.93
405.8	0.95	70.36	1159.6	1.66	63.82	1981.6	1.81	56.46	2665.3	1.64	55.03	3203.2	1.28	54.71
406.0	1.32	70.77	1159.8	1.57	63.26	1981.8	2.14	55.39	2665.4	1.40	55.63	3203.4	1.69	54.18
406.2	1.27	69.19	1160.0	1.67	62.55	1982.0	1.90	55.18	2665.5	1.95	55.39	3203.6	1.91	53.80
406.4	1.43	69.61	1160.2	1.80	60.22	1982.2	1.96	55.07	2665.6	2.05	54.85	3203.8	1.93	53.87
406.6	1.59	69.09	1160.4	1.38	58.72	1982.4	1.96	55.59	2665.7	1.70	53.84	3204.0	1.62	53.21
406.8	1.39	68.84	1160.6	1.47	57.91	1982.6	1.80	56.11	2665.8	1.87	53.28	3204.2	1.86	53.12
407.0	1.49	67.91	1160.8	1.68	57.26	1982.8	2.08	55.86	2665.9	2.09	52.68	3204.4	1.50	52.69
407.2	1.52	70.41	1161.0	1.53	58.67	1983.0	1.76	55.42	2666.0	1.65	53.46	3204.6	1.73	52.86
407.4	1.35	68.03	1161.2	1.47	58.86	1983.2	1.84	54.93	2666.1	1.81	53.43	3204.8	1.74	52.53
407.6	1.31	67.25	1161.4	1.63	58.60	1983.4	2.07	55.48	2666.2	1.59	53.96	3205.0	1.83	53.05
407.8	1.56	67.95	1161.6	1.59	58.81	1983.6	2.17	55.00	2666.3	1.51	55.31	3205.2	1.78	52.57
408.0	1.45	68.14	1161.8	1.22	59.16	1983.8	1.93	55.37	2666.4	1.54	54.64	3205.4	1.79	52.05
408.2	1.25	65.52	1162.0	1.22	58.98	1984.0	1.54	56.50	2666.5	1.63	53.59	3205.6	1.71	52.35
408.4	0.64	67.33	1162.2	1.62	59.49	1984.2	1.83	57.55	2666.6	1.83	53.65	3205.8	1.62	52.66
408.6	1.27	68.68	1162.4	1.69	59.37	1984.4	1.73	56.45	2666.7	1.68	53.86	3206.0	1.34	52.78
408.8	0.70	68.29	1162.6	1.63	58.43	1984.6	1.88	55.82	2666.8	1.84	53.50	3206.2	1.43	53.39
409.0	1.44	67.82	1162.8	1.79	59.34	1984.8	1.66	56.44	2666.9	1.65	54.14	3206.4	1.61	54.30
409.2	1.51	68.21	1163.0	1.73	58.26	1985.0	2.24	55.82	2667.0	1.77	54.99	3206.6	1.13	53.57
409.4	1.17	69.98	1163.2	1.67	56.92	1985.2	2.13	55.26	2667.1	1.57	54.62	3206.8	1.52	53.35
409.6	1.27	72.20	1163.4	1.81	56.82	1985.4	1.99	55.68	2667.2	1.70	54.39	3207.0	1.66	53.85
409.8	1.33	72.93	1163.6	1.71	56.88	1985.6	2.18	55.92	2667.3	1.13	53.87	3207.2	1.64	53.42
410.0	1.33	72.71	1163.8	1.83	56.50	1985.8	2.30	54.46	2667.4	1.79	54.43	3207.4	1.19	53.69
410.2	1.36	75.06	1164.0	1.88	55.78	1986.0	2.10	53.81	2667.5	1.05	53.43	3207.6	1.51	54.23
410.4	1.30	73.53	1164.2	1.44	56.58	1986.2	1.72	53.27	2667.6	0.56	52.94	3207.8	1.70	54.16
410.6	1.33	71.92	1164.4	1.80	56.27	1986.4	1.78	53.28	2667.7	0.34	53.38	3208.0	1.51	52.65
410.8	1.20	72.19	1164.6	1.72	56.93	1986.6	1.95	53.49	2667.8	1.12	53.81	3208.2	1.81	52.35
411.0	1.37	72.02	1164.8	2.05	57.10	1986.8	1.85	54.04	2667.9	0.97	53.43	3208.4	1.90	52.02
411.2	0.90	70.87	1165.0	2.07	57.87	1987.0	1.94	54.46	2668.0	1.76	54.80	3208.6	1.57	52.49
411.4	1.27	71.63	1165.2	1.85	57.30	1987.2	1.85	53.32	2668.1	1.79	55.67	3208.8	1.73	52.89
411.6	1.25	72.33	1165.4	1.89	57.61	1987.4	2.14	53.86	2668.2	1.39	56.04	3209.0	1.43	53.57
411.8	1.25	72.22	1165.6	1.91	57.26	1987.6	2.12	54.21	2668.3	1.63	56.41	3209.2	1.60	54.54
412.0	1.11	73.36	1165.8	1.77	56.81	1987.8	2.10	54.93	2668.4	1.30	56.73	3209.4	1.55	55.00
412.2	1.01	72.12	1166.0	1.54	57.12	1988.0	1.98	55.18	2668.5	1.61	55.97	3209.6	1.67	55.08
412.4	0.91	70.44	1166.2	1.80	58.08	1988.2	1.88	55.52	2668.6	1.68	56.28	3209.8	1.68	56.29
412.6	0.97	69.12	1166.4	2.04	57.84	1988.4	1.89	54.19	2668.7	1.60	55.54	3210.0	1.78	57.20
412.8	1.08	68.01	1166.6	1.75	58.00	1988.6	1.82	54.03	2668.8	1.63	54.86	3210.2	1.48	57.23
413.0	1.37	67.63	1166.8	1.89	57.82	1988.8	1.97	56.19	2668.9	1.69	54.29	3210.4	1.43	57.30
413.2	1.35	68.53	1167.0	1.64	57.18	1989.0	1.76	57.14	2669.0	1.75	54.60	3210.6	1.73	57.54
413.4	1.13	67.83	1167.2	1.92	57.01	1989.2	1.97	57.58	2669.1	1.58	54.27	3210.8	1.46	56.57
413.6	1.21	66.46	1167.4	1.73	58.14	1989.4	2.07	58.33	2669.2	1.74	54.30	3211.0	1.53	56.07
413.8	1.12	66.67	1167.6	1.88	57.80	1989.6	2.01	57.82	2669.3	1.72	54.30	3211.2	1.27	55.57
414.0	1.15	65.96	1167.8	1.48	59.92	1989.8	1.95	54.35	2669.4	1.66	54.69	3211.4	1.36	55.52

416.0	1.09	75.13	1169.8	1.74	60.90	1991.8	2.17	53.42	2670.4	1.66	54.54	3213.4	1.66	54.94
416.2	1.21	76.37	1170.0	1.69	61.25	1992.0	2.03	53.16	2670.5	1.77	54.01	3213.6	1.63	53.41
416.4	1.20	70.22	1170.2	1.68	61.38	1992.2	2.00	53.24	2670.6	1.59	54.81	3213.8	1.88	53.90
416.6	1.24	70.06	1170.4	1.70	61.17	1992.4	2.21	53.18	2670.7	1.51	56.96	3214.0	1.72	53.87
416.8	0.94	69.31	1170.6	1.67	61.04	1992.6	2.14	52.63	2670.8	1.77	56.38	3214.2	1.71	53.80
417.0	1.21	68.29	1170.8	1.66	60.64	1992.8	1.90	53.59	2670.9	1.78	55.92	3214.4	1.77	54.31
417.2	1.13	67.28	1171.0	1.61	59.94	1993.0	2.29	54.71	2671.0	1.64	56.39	3214.6	1.59	54.36
417.4	1.14	67.60	1171.2	1.64	60.45	1993.2	2.10	54.00	2671.1	1.24	56.10	3214.8	1.95	53.95
417.6	1.00	66.58	1171.4	1.70	60.43	1993.4	2.13	53.47	2671.2	1.74	54.16	3215.0	1.80	53.63
417.8	1.30	65.10	1171.6	1.71	59.57	1993.6	2.37	53.93	2671.3	1.62	54.49	3215.2	1.73	54.16
418.0	1.07	65.70	1171.8	1.27	59.27	1993.8	2.29	52.59	2671.4	1.73	54.85	3215.4	1.75	53.88
418.2	1.03	67.10	1172.0	1.69	59.36	1994.0	2.37	52.18	2671.5	1.77	54.66	3215.6	1.73	53.72
418.4	1.05	66.38	1172.2	1.85	57.71	1994.2	2.35	52.12	2671.6	1.63	54.57	3215.8	1.60	53.90
418.6	1.10	70.29	1172.4	1.96	57.23	1994.4	2.37	52.87	2671.7	1.35	54.45	3216.0	1.66	53.73
418.8	1.07	74.50	1172.6	1.59	57.22	1994.6	2.23	52.33	2671.8	1.75	55.55	3216.2	1.56	53.36
419.0	1.05	76.02	1172.8	1.91	58.12	1994.8	2.11	52.42	2671.9	1.32	57.12	3216.4	1.61	52.53
419.2	1.11	76.50	1173.0	1.68	58.20	1995.0	1.91	51.85	2672.0	1.38	57.13	3216.6	1.67	52.17
419.4	1.12	76.05	1173.2	1.70	60.33	1995.2	1.69	51.88	2672.1	1.56	57.56	3216.8	1.73	52.00
419.6	0.91	72.42	1173.4	1.95	60.52	1995.4	2.05	50.90	2672.2	1.64	57.43	3217.0	1.72	52.19
419.8	1.34	69.00	1173.6	1.48	61.08	1995.6	2.14	51.11	2672.3	1.63	56.56	3217.2	1.63	51.45
420.0	1.22	67.38	1173.8	1.88	60.50	1995.8	1.63	50.74	2672.4	1.71	54.87	3217.4	1.62	51.96
420.2	1.27	65.42	1174.0	1.83	60.33	1996.0	2.08	50.58	2672.5	1.12	54.98	3217.6	1.73	51.86
420.4	1.42	66.20	1174.2	1.81	59.69	1996.2	2.27	50.42	2672.6	1.00	54.95	3217.8	1.69	51.20
420.6	1.32	66.57	1174.4	1.52	60.14	1996.4	2.25	51.39	2672.7	1.63	55.90	3218.0	1.78	49.68
420.8	1.33	66.22	1174.6	1.77	59.64	1996.6	1.78	50.87	2672.8	1.90	56.37	3218.2	2.00	49.65
421.0	1.59	67.25	1174.8	1.93	58.60	1996.8	2.18	51.09	2672.9	1.59	56.43	3218.4	1.96	50.35
421.2	1.25	67.62	1175.0	1.87	58.80	1997.0	2.11	50.50	2673.0	1.71	55.77	3218.6	1.81	50.08
421.4	1.28	67.89	1175.2	1.75	58.48	1997.2	2.13	50.41	2673.1	1.72	55.21	3218.8	1.82	50.12
421.6	1.32	67.56	1175.4	1.82	58.04	1997.4	2.12	50.59	2673.2	1.70	53.71	3219.0	2.13	50.96
421.8	1.36	67.75	1175.6	1.45	58.32	1997.6	2.09	50.19	2673.3	1.66	54.35	3219.2	1.61	51.72
422.0	1.27	67.04	1175.8	1.78	60.25	1997.8	2.09	49.76	2673.4	1.73	54.09	3219.4	1.75	50.87
422.2	0.74	66.88	1176.0	1.75	59.89	1998.0	1.66	50.47	2673.5	1.78	54.51	3219.6	1.81	51.04
422.4	1.10	67.68	1176.2	1.68	59.84	1998.2	1.81	51.02	2673.6	1.40	54.73	3219.8	1.66	51.41
422.6	1.01	68.90	1176.4	1.69	59.68	1998.4	1.85	50.06	2673.7	1.73	55.06	3220.0	1.76	51.72
422.8	1.11	69.75	1176.6	1.84	59.60	1998.6	1.84	50.48	2673.8	1.49	53.57	3220.2	1.94	51.89
424.0	1.05	70.46	1176.8	2.33	58.95	1998.8	1.83	50.41	2673.9	1.75	54.07	3220.4	1.93	51.96
424.2	1.31	70.71	1177.0	2.02	60.74	1999.0	1.89	50.27	2674.0	1.55	55.43	3220.6	2.15	51.79
424.4	1.21	69.94	1177.2	1.93	60.19	1999.2	2.13	50.31	2674.1	1.70	55.05	3220.8	1.72	52.11
424.6	1.24	68.98	1177.4	1.93	61.74	1999.4	2.10	50.51	2674.2	1.87	55.41	3221.0	2.02	52.49
424.8	0.97	68.26	1177.6	1.75	61.97	1999.6	2.14	50.41	2674.3	1.45	55.69	3221.2	1.80	52.55
425.0	1.16	67.58	1177.8	1.39	62.65	1999.8	2.03	51.21	2674.4	1.78	55.45	3221.4	1.60	53.98
425.2	1.20	68.06	1178.0	1.92	62.08	2000.0	1.87	51.91	2674.5	1.76	53.40	3221.6	1.67	54.84
425.4	1.28	69.28	1178.2	1.48	62.31	2000.2	2.12	51.88	2674.6	1.79	53.87	3221.8	1.67	54.68
425.6	1.28	71.77	1178.4	1.71	60.13	2000.4	1.69	51.60	2674.7	1.78	53.92	3222.0	1.42	55.02
425.8	1.12	72.88	1178.6	2.03	60.16	2000.6	2.03	51.90	2674.8	1.78	54.43	3222.2	1.65	55.66
426.0	1.10	76.45	1178.8	2.12	59.64	2000.8	2.46	50.99	2674.9	1.88	54.14	3222.4	1.47	55.66
426.2	0.48	80.72	1179.0	1.97	58.63	2001.0	1.97	51.42	2675.0	1.90	54.94	3222.6	1.44	56.02
426.4	0.42	80.18	1179.2	2.28	58.59	2001.2	2.76	51.74	2675.1	1.78	53.74	3222.8	1.54	55.97
426.6	0.41	78.39	1179.4	2.10	60.13	2001.4	2.28	52.47	2675.2	1.66	53.48	3223.0	1.64	55.64
426.8	1.06	79.31	1179.6	2.08	59.55	2001.6	2.42	53.00	2675.3	1.64	53.11	3223.2	1.52	55.57
427.0	1.13	75.59	1179.8	1.91	58.89	2001.8	2.42	54.28	2675.4	1.42	53.59	3223.4	1.62	54.64
427.2	1.17	72.01	1180.0	2.34	58.41	2002.0	2.43	57.24	2675.5	1.52	53.60	3223.6	1.57	54.34
427.4	1.29	71.04	1180.2	1.77	59.35	2002.2	2.54	58.79	2675.6	1.68	54.63	3223.8	1.77	55.91
427.6	1.10	70.20	1180.4	1.89	58.39	2002.4	2.58	59.99	2675.7	1.56	54.60	3224.0	1.61	57.32
427.8	0.96	70.14	1180.6	2.13	58.78	2002.6	2.18	62.49	2675.8	1.48	54.78	3224.2	1.72	57.60
428.0	1.09	70.83	1180.8	2.12	58.77	2002.8	2.21	64.11	2675.9	1.52	55.73	3224.4	1.63	57.97
428.2	1.24	71.02	1181.0	2.30	59.35	2003.0	1.97	63.70	2676.0	1.68	56.93	3224.6	1.61	58.50
428.4	1.45	72.59	1181.2	1.83	58.75	2003.2	2.10	67.56	2676.1	1.43	57.24	3224.8	1.59	58.29
428.6	1.39	75.11	1181.4	1.12	59.47	2003.4	1.78	70.77	2676.2	1.59	57.39	3225.0	1.78	58.10
428.8	1.35	75.42	1181.6	2.20	59.58	2003.6	1.73	72.52	2676.3	1.51	57.21	3225.2	1.76	59.01
429.0	1.38	75.96	1181.8	1.93	60.54	2003.8	1.89	74.23	2676.4	1.52	56.17	3225.4	1.75	59.93
429.2	1.20	74.29	1182.0	1.90	61.36	2004.0	1.66	74.88	2676.5	1.29	55.23	3225.6	1.88	60.33
429.4	1.26	74.29	1182.2	1.93	61.31	2004.2	1.70	76.74	2676.6	1.77	54.98	3225.8	1.80	60.79
429.6	1.35	73.94	1182.4	1.76	60.65	2004.4	1.84	77.28	2676.7	1.69	54.94	3226.0	1.77	61.20
429.8	1.32	71.38	1182.6	1.73	60.66	2004.6	1.79	78.89	2676.8	1.63	55.49	3226.2	1.96	60.63
430.0	1.33	70.35	1182.8	1.04	59.66	2004.8	1.54	81.80	2676.9	1.48	55.27	3226.4	1.56	59.74
430.2	1.37	71.52	1183.0	1.94	58.40	2005.0	1.68	84.27	2677.0	1.58	54.74	3226.6	1.84	58.82
430.4	1.24	71.87	1183.2	2.01	59.00	2005.2	1.49	82.71	2677.1	1.72	54.65	3226.8	1.77	57.44
430.6	1.44	71.49	1183.4	1.80	59.73	2005.4	1.52	83.12	2677.2	1.74	54.94	3227.0	1.85	56.15
430.8	1.45	73.70	1183.6	1.86	59.10	2005.6	1.58	82.67	2677.3	1.48	54.30	3227.2	1.61	55.23
431.0	1.67	75.80	1183.8	1.84	59.68	2005.8	1.38	79.70	2677.4	1.64	53.95	3227.4	1.57	55.37
431.2	2.05	77.67	1184.0	1.90	59.63	2006.0	1.55	74.81	2677.5	1.47	53.87	3227.6	1.44	56.61

433.2	1.46	69.78	1186.0	1.81	58.08	2008.0	2.95	55.40	2678.5	1.65	55.81	3229.6	1.67	57.40
433.4	1.34	70.32	1186.2	2.04	58.57	2008.2	3.30	54.92	2678.6	1.61	55.56	3229.8	1.59	57.39
433.6	1.44	68.99	1186.4	1.78	59.63	2008.4	2.59	54.63	2678.7	1.40	55.05	3230.0	1.70	56.60
433.8	1.67	68.59	1186.6	1.35	58.91	2008.6	2.60	54.62	2678.8	1.59	54.64	3230.2	1.66	56.54
434.0	1.75	69.46	1186.8	1.65	58.42	2008.8	2.92	55.05	2678.9	1.50	53.92	3230.4	1.54	56.87
434.2	1.62	69.72	1187.0	1.62	57.72	2009.0	2.55	52.55	2679.0	1.57	53.45	3230.6	1.72	56.97
434.4	1.64	69.77	1187.2	1.49	58.07	2009.2	2.37	52.74	2679.1	1.37	53.35	3230.8	2.09	55.95
434.6	1.44	72.98	1187.4	1.45	57.00	2009.4	2.37	56.33	2679.2	1.85	56.81	3231.0	1.52	56.64
434.8	1.64	74.67	1187.6	1.57	58.12	2009.6	2.43	60.43	2679.3	1.86	56.92	3231.2	1.74	56.98
435.0	1.58	74.52	1187.8	1.73	58.61	2014.6	1.78	62.79	2679.4	1.38	57.41	3231.4	1.76	57.00
435.2	0.97	74.80	1188.0	1.56	58.26	2014.8	1.68	65.23	2679.5	1.59	57.50	3231.6	1.84	56.51
435.4	1.17	74.04	1188.2	1.79	58.50	2015.0	2.33	67.76	2679.6	0.94	58.14	3231.8	1.51	57.48
435.6	1.33	72.63	1188.4	1.39	58.41	2015.2	2.01	66.85	2679.7	1.65	54.99	3232.0	1.58	56.63
435.8	1.66	72.03	1188.6	1.82	58.06	2015.4	2.20	65.40	2679.8	1.59	54.34	3232.2	1.50	57.01
436.0	1.34	72.48	1188.8	1.42	58.23	2015.6	2.07	66.11	2679.9	1.66	54.01	3232.4	1.34	57.36
436.2	1.67	72.32	1189.0	1.93	58.91	2015.8	2.21	65.29	2680.0	1.30	53.83	3232.6	1.47	57.57
436.4	1.63	72.86	1189.2	1.93	59.81	2016.0	1.13	63.41	2680.1	1.67	53.20	3232.8	1.31	57.05
436.6	1.62	72.66	1192.2	1.77	60.80	2016.2	2.00	65.02	2680.2	1.24	53.66	3233.0	1.72	57.10
436.8	1.71	72.07	1192.4	1.32	61.04	2016.4	1.78	64.41	2680.3	1.64	54.15	3233.2	1.64	56.08
437.0	1.57	73.23	1192.6	1.72	60.73	2016.6	1.71	62.66	2680.4	1.56	54.36	3233.4	1.67	56.75
437.2	1.34	74.13	1192.8	1.64	60.37	2016.8	2.35	62.27	2680.5	1.54	55.43	3233.6	1.47	56.42
437.4	1.39	75.28	1193.0	1.86	59.79	2017.0	1.86	63.25	2680.6	1.78	56.13	3233.8	1.39	56.61
437.6	1.42	75.48	1193.2	1.68	59.40	2017.2	1.82	61.17	2680.7	1.51	55.88	3234.0	1.35	56.65
437.8	1.53	82.23	1193.4	1.57	59.08	2017.4	2.28	61.12	2680.8	1.84	56.04	3234.2	1.35	56.31
438.0	1.18	81.79	1193.6	1.72	58.77	2017.6	2.11	62.04	2680.9	1.81	56.41	3234.4	1.56	55.94
438.4	1.19	81.81	1193.8	1.61	59.96	2017.8	1.86	62.66	2681.0	1.81	55.61	3234.6	1.50	56.07
438.6	1.27	83.40	1194.0	1.67	59.61	2018.0	2.06	62.74	2681.1	1.80	55.61	3234.8	1.59	55.99
438.8	1.76	84.84	1194.2	1.41	59.69	2018.2	1.90	66.88	2681.2	1.66	55.00	3235.0	1.21	56.58
439.0	1.24	81.51	1194.4	1.56	59.05	2018.4	1.83	66.15	2681.3	1.72	55.24	3235.2	1.47	56.68
439.2	1.50	81.46	1194.6	1.46	60.15	2018.6	2.04	66.38	2681.4	1.63	54.72	3235.4	1.56	54.66
439.4	1.40	80.79	1194.8	1.67	59.99	2018.8	1.48	66.43	2681.5	1.74	54.85	3235.6	1.40	54.04
439.6	1.49	78.51	1195.0	1.63	59.68	2019.0	2.36	67.98	2681.6	1.42	54.42	3235.8	1.70	54.50
439.8	1.93	76.97	1195.2	1.48	59.04	2019.2	2.14	66.84	2681.7	1.54	54.75	3236.0	1.43	54.16
440.0	1.87	73.97	1195.4	1.44	59.65	2019.4	1.75	68.30	2681.8	1.42	54.19	3236.2	1.42	54.74
440.2	1.82	72.41	1195.6	1.58	58.91	2019.6	1.95	66.63	2681.9	1.57	54.26	3236.4	1.64	56.09
440.4	2.14	72.70	1195.8	1.57	58.05	2019.8	1.79	66.34	2682.0	1.31	53.84	3236.6	1.15	56.92
440.6	1.97	71.97	1196.0	1.63	58.63	2020.0	1.87	64.17	2682.1	1.51	54.10	3236.8	0.59	57.09
440.8	2.08	73.06	1196.2	1.52	58.03	2020.2	1.99	60.56	2682.2	1.67	55.34	3237.0	0.36	57.46
441.0	1.89	73.61	1196.4	1.54	58.20	2020.4	2.18	60.35	2682.3	1.65	55.69	3237.2	1.36	57.72
441.2	1.72	73.77	1196.6	1.48	57.96	2020.6	1.68	60.57	2682.4	1.80	55.37	3237.4	1.56	58.14
441.4	2.01	73.80	1196.8	1.49	58.43	2020.8	1.85	59.89	2682.5	1.56	55.69	3237.6	1.49	58.15
441.6	2.04	75.09	1197.0	1.44	59.01	2021.0	2.09	59.17	2682.6	1.63	56.02	3237.8	1.70	57.72
441.8	1.61	74.17	1197.2	1.49	61.34	2021.2	2.34	59.01	2682.7	1.82	54.58	3238.0	1.41	57.24
442.0	2.10	74.76	1197.4	1.46	61.26	2021.4	2.54	57.43	2682.8	1.85	55.68	3238.2	1.33	57.16
442.2	1.87	75.94	1197.6	1.43	62.21	2021.6	1.95	56.83	2682.9	1.78	55.98	3238.4	1.71	57.53
442.4	2.06	76.05	1197.8	1.56	62.20	2021.8	2.11	56.31	2683.0	1.69	56.00	3238.6	1.49	58.22
442.6	1.96	75.88	1198.0	1.27	60.67	2022.0	1.72	56.70	2683.1	1.63	56.10	3238.8	1.53	58.14
442.8	1.79	76.81	1198.2	1.45	59.24	2022.2	2.13	56.10	2683.2	1.55	56.89	3239.0	1.48	58.02
443.0	1.81	76.91	1198.4	1.58	58.09	2022.4	2.08	55.69	2683.3	1.60	55.37	3239.2	1.46	58.25
443.2	1.89	76.48	1198.6	1.57	56.82	2022.6	2.11	55.53	2683.4	1.83	56.61	3239.4	1.44	56.98
443.4	1.93	77.47	1198.8	1.69	56.03	2022.8	1.94	55.33	2683.5	1.74	56.92	3239.6	1.77	56.05
443.6	1.76	78.16	1199.0	1.60	56.89	2023.0	1.97	54.99	2683.6	1.59	56.25	3239.8	2.20	56.33
443.8	1.52	82.52	1199.2	1.44	58.35	2023.2	1.94	55.03	2683.7	1.80	55.48	3240.0	1.95	55.91
444.0	1.45	82.55	1199.4	1.62	59.05	2023.4	1.89	55.20	2683.8	1.86	55.35	3240.2	1.98	55.50
444.2	1.22	82.09	1199.6	1.70	61.26	2023.6	2.22	55.48	2683.9	1.69	54.25	3240.4	2.47	55.99
444.4	1.32	82.88	1199.8	1.65	61.19	2023.8	1.90	56.00	2684.0	1.31	53.96	3240.6	2.33	55.97
444.6	1.20	81.48	1200.0	1.55	60.03	2024.0	1.89	56.56	2684.1	1.73	54.17	3240.8	2.24	55.00
444.8	1.35	78.86	1200.2	1.52	58.18	2024.2	2.12	57.15	2684.2	1.71	54.33	3241.0	2.30	54.24
445.0	1.20	78.25	1200.4	1.66	58.10	2024.4	1.62	57.96	2684.3	2.01	54.52	3241.2	2.16	53.84
445.2	1.34	79.54	1200.6	1.46	56.66	2024.6	2.02	57.86	2684.4	1.74	54.30	3241.4	1.75	53.54
445.4	1.61	78.92	1200.8	1.41	57.33	2024.8	1.82	57.75	2684.5	1.78	54.30	3241.6	1.80	53.32
445.6	1.40	80.31	1201.0	1.36	58.13	2025.0	1.86	58.33	2684.6	1.82	53.21	3241.8	1.98	53.86
445.8	1.69	76.78	1201.2	1.57	58.44	2025.2	1.87	58.31	2684.7	1.95	53.45	3242.0	1.80	54.47
446.0	1.48	77.31	1201.4	1.57	58.98	2025.4	1.56	57.75	2684.8	2.04	53.45	3242.2	1.82	54.38
446.2	1.30	75.75	1201.6	1.68	58.74	2025.6	1.89	57.17	2684.9	1.80	53.82	3242.4	1.71	55.32
446.4	1.57	77.60	1201.8	1.63	58.60	2025.8	1.78	57.22	2685.0	2.01	54.01	3242.6	1.92	56.76
446.6	1.47	76.46	1202.0	1.47	59.47	2026.0	1.85	55.82	2685.1	1.86	55.29	3242.8	1.73	57.35
446.8	1.32	79.41	1202.2	1.55	60.26	2026.2	1.68	55.91	2685.2	1.65	55.44	3243.0	1.32	58.68
447.0	1.35	79.33	1202.4	1.51	59.77	2026.4	1.97	56.28	2685.3	1.90	55.33	3243.2	1.28	60.02
447.2	1.37	79.18	1202.6	1.48	59.84	2026.6	1.91	56.89	2685.4	1.98	55.44	3243.4	1.24	60.89
447.4	1.36	76.23	1202.8	1.00	59.21	2026.8	1.77	56.91	2685.5	1.57	55.26	3243.6	1.17	61.01
447.6	1.34	75.74	1203.0	1.51	58.14	2027.0	1.55	57.73	2685.6	1.73	54.32	3243.8	1.14	60.97

449.6	1.52	75.38	1205.0	1.30	58.68	2029.0	2.22	56.32	2686.6	1.70	54.99	3245.8	1.47	61.35
449.8	1.54	74.68	1205.2	1.36	58.72	2029.2	2.05	57.43	2686.7	1.80	54.04	3246.0	1.24	61.44
450.0	1.54	74.59	1205.4	1.09	59.23	2029.4	1.82	57.11	2686.8	1.90	52.49	3246.2	1.48	60.22
450.2	1.70	74.37	1205.6	1.06	59.43	2029.6	2.19	58.08	2686.9	1.91	53.37	3246.4	1.99	59.67
450.4	1.58	76.79	1205.8	1.62	59.55	2029.8	1.95	58.14	2687.0	1.80	54.77	3246.6	1.51	58.66
450.6	1.65	78.55	1206.0	1.58	59.64	2030.0	1.71	58.30	2687.1	1.92	54.85	3246.8	1.63	58.21
450.8	1.82	79.60	1206.2	1.66	59.36	2030.2	1.68	58.59	2687.2	1.58	55.35	3247.0	1.45	58.18
451.0	1.53	80.12	1206.4	1.55	58.86	2030.4	1.74	59.07	2687.3	1.50	54.65	3247.2	1.37	58.02
451.2	1.49	80.31	1206.6	1.53	59.78	2030.6	1.72	59.53	2687.4	1.85	54.16	3247.4	0.92	57.54
451.4	1.51	78.86	1206.8	1.77	59.77	2030.8	2.07	59.20	2687.5	1.81	53.52	3247.6	1.32	57.83
451.6	1.82	79.09	1207.0	1.38	60.69	2031.0	1.67	59.48	2687.6	1.92	53.79	3247.8	1.37	58.38
451.8	1.63	77.64	1207.2	1.44	61.05	2031.2	1.67	59.27	2687.7	1.92	53.89	3248.0	1.42	58.23
452.0	1.45	78.19	1207.4	1.35	61.51	2031.4	1.63	59.35	2687.8	2.00	55.58	3248.2	1.36	58.05
452.2	1.53	77.88	1207.6	1.65	60.47	2031.6	1.80	59.19	2687.9	1.89	55.69	3248.4	1.13	58.34
452.4	1.58	76.34	1207.8	1.70	60.70	2031.8	2.06	59.87	2688.0	1.61	55.10	3248.6	1.19	57.67
452.6	1.63	75.16	1208.0	1.39	60.11	2032.0	2.09	60.74	2688.1	1.94	54.70	3248.8	1.34	57.02
452.8	1.57	74.65	1208.2	1.39	60.90	2032.2	1.99	61.37	2688.2	1.73	55.16	3249.0	1.31	56.28
453.0	1.53	74.17	1208.4	1.59	60.37	2032.4	1.93	60.91	2688.3	1.84	55.18	3249.2	1.26	56.47
453.2	1.25	73.38	1208.6	1.51	59.80	2032.6	1.96	60.22	2688.4	1.67	54.79	3249.4	1.64	56.41
453.4	1.67	74.40	1208.8	1.45	59.73	2032.8	1.88	60.57	2688.5	1.82	56.86	3249.6	1.31	56.67
453.6	1.83	72.34	1209.0	1.46	58.90	2033.0	1.80	59.78	2688.6	1.91	56.85	3249.8	0.99	56.40
453.8	1.72	74.62	1209.2	1.57	58.19	2033.2	1.81	59.16	2688.7	1.90	55.89	3250.0	1.69	57.89
454.0	1.31	74.23	1209.4	1.41	57.59	2033.4	2.01	59.84	2688.8	1.95	55.35	3250.2	1.61	60.11
454.2	1.44	74.28	1209.6	1.25	59.28	2033.6	1.78	60.78	2688.9	1.90	55.02	3250.4	1.82	61.23
454.4	1.28	73.88	1209.8	1.60	59.31	2033.8	1.91	60.62	2689.0	1.89	52.93	3250.6	1.75	61.96
454.6	1.76	75.18	1210.0	1.40	60.41	2034.0	1.78	60.59	2689.1	1.50	53.47	3250.8	1.66	61.72
454.8	1.36	74.45	1210.2	1.20	60.11	2034.2	1.76	60.16	2689.2	1.76	53.74	3251.0	1.50	60.50
455.0	1.67	77.11	1210.4	1.58	60.71	2034.4	1.92	59.02	2689.3	2.02	53.73	3251.2	1.53	57.72
455.2	1.28	78.97	1210.6	1.41	58.87	2034.6	1.84	58.95	2689.4	1.96	54.53	3251.4	1.58	56.82
455.4	1.92	82.16	1210.8	1.61	58.17	2034.8	1.33	58.39	2689.5	1.67	55.45	3251.6	1.69	55.51
455.6	1.61	84.05	1211.0	1.44	57.86	2035.0	1.75	58.53	2689.6	1.75	55.17	3251.8	1.93	56.23
455.8	1.54	86.81	1211.2	1.71	57.49	2035.2	1.51	58.93	2689.7	1.87	55.11	3252.0	1.69	59.86
456.0	1.47	85.07	1211.4	1.37	57.06	2035.4	1.58	60.53	2689.8	2.00	55.33	3252.2	1.49	65.70
456.2	1.52	82.81	1211.6	1.72	57.10	2035.6	1.89	60.85	2689.9	1.99	54.77	3252.4	1.71	69.17
456.4	1.82	79.55	1211.8	1.47	56.65	2035.8	1.69	61.18	2690.0	2.04	54.51	3252.8	1.71	77.32
456.6	1.26	77.70	1212.0	1.49	56.16	2036.0	1.63	61.57	2690.1	1.91	55.81	3253.0	1.84	79.42
456.8	0.89	74.84	1212.2	1.56	56.55	2036.2	1.72	62.49	2690.2	2.01	56.35	3253.2	1.87	77.82
457.0	1.20	73.67	1212.4	1.76	56.70	2036.4	1.88	62.26	2690.3	1.83	56.72	3253.4	1.43	72.88
457.2	1.65	73.22	1212.6	1.54	57.30	2036.6	2.01	60.91	2690.4	1.93	57.54	3253.6	1.81	70.10
457.4	1.30	72.09	1212.8	1.65	58.43	2036.8	1.97	60.96	2690.5	2.10	56.88	3253.8	1.49	63.29
457.6	1.57	70.55	1213.0	1.63	59.18	2037.0	2.19	61.00	2690.6	1.00	55.27	3254.0	1.71	61.17
457.8	1.60	68.82	1213.2	1.63	58.79	2037.2	1.33	59.88	2690.7	1.91	54.32	3254.2	1.64	60.24
458.0	1.46	67.86	1213.4	1.74	59.05	2037.4	1.99	60.04	2690.8	1.71	54.57	3254.4	1.52	59.81
458.2	1.63	69.56	1213.6	1.36	58.49	2037.6	2.06	60.45	2690.9	1.88	53.56	3254.6	1.43	60.21
458.4	1.63	70.72	1213.8	1.31	57.75	2037.8	1.86	60.28	2691.0	1.76	54.04	3254.8	1.43	60.25
458.6	1.64	71.81	1214.0	1.50	57.29	2038.0	1.92	59.59	2691.1	1.81	54.28	3255.0	0.96	61.28
458.8	1.81	72.46	1214.2	1.74	57.40	2038.2	1.89	59.18	2691.2	1.85	55.00	3255.2	1.27	61.64
459.0	2.03	72.81	1214.4	1.60	56.59	2038.4	1.73	58.05	2691.3	1.88	54.13	3255.4	1.11	63.59
459.2	1.83	72.37	1214.6	1.32	56.87	2038.6	2.22	57.64	2691.4	1.81	54.11	3255.6	1.40	63.94
459.4	2.35	72.55	1214.8	1.59	57.46	2038.8	1.58	56.93	2691.5	1.85	54.20	3255.8	0.92	64.46
459.6	1.90	73.12	1215.0	1.53	56.90	2039.0	2.00	56.76	2691.6	1.83	53.46	3256.0	1.53	63.53
459.8	2.23	74.60	1215.2	1.56	57.05	2039.2	2.27	56.75	2691.7	1.75	55.52	3256.2	1.29	63.12
460.0	2.02	75.45	1215.4	1.41	57.93	2039.4	1.98	56.57	2691.8	1.77	56.30	3256.4	1.53	61.79
460.2	0.91	75.62	1215.6	1.71	57.90	2039.6	2.05	56.80	2691.9	1.80	55.64	3256.6	1.42	61.17
460.4	1.94	75.72	1215.8	1.50	57.29	2039.8	2.41	56.16	2692.0	1.81	55.48	3256.8	1.44	59.95
460.6	1.72	75.41	1216.0	1.56	58.32	2040.0	2.11	56.88	2692.1	1.81	56.18	3257.0	1.42	60.27
460.8	1.76	74.76	1216.2	1.56	58.16	2040.2	2.01	57.42	2692.2	1.94	56.06	3257.2	1.27	61.07
461.0	1.70	74.08	1216.4	1.53	57.41	2040.4	2.00	57.73	2692.3	2.08	57.41	3257.4	1.22	61.00
461.2	1.75	74.27	1216.6	1.47	57.57	2040.6	2.04	57.24	2692.4	1.73	59.93	3257.6	1.44	60.78
461.4	1.71	73.83	1216.8	1.57	57.33	2040.8	1.89	58.56	2692.5	1.55	61.13	3257.8	1.44	60.42
461.6	1.58	74.09	1217.0	1.33	56.25	2041.0	2.23	58.36	2692.6	2.07	62.56	3258.0	1.43	59.44
461.8	1.50	73.44	1217.2	1.41	56.85	2041.2	2.23	58.26	2692.7	1.69	61.08	3258.2	1.17	58.01
462.0	1.49	74.96	1217.4	1.43	56.79	2041.4	2.20	58.65	2692.8	1.49	58.63	3258.4	1.29	58.66
462.2	1.79	76.39	1217.6	1.44	56.29	2041.6	2.07	59.08	2692.9	2.08	57.38	3258.6	1.49	58.14
462.4	1.56	76.14	1217.8	1.66	56.28	2041.8	2.12	58.69	2693.0	1.71	56.21	3258.8	1.42	59.51
462.6	1.40	76.39	1218.0	1.58	56.24	2042.0	2.25	58.41	2693.1	1.95	55.49	3259.0	0.85	60.33
462.8	1.61	77.01	1218.2	1.63	55.88	2042.2	2.09	58.95	2693.2	2.12	54.45	3259.2	1.50	60.84
463.0	1.58	77.20	1218.4	1.40	56.35	2042.4	1.96	59.10	2693.3	1.50	54.75	3259.4	1.49	59.31
463.2	1.78	76.61	1218.6	1.59	56.78	2042.6	2.04	60.45	2693.4	2.14	54.25	3259.6	1.50	59.18
463.4	1.52	77.01	1218.8	1.71	57.28	2042.8	2.05	60.86	2693.5	1.79	54.77	3259.8	1.65	59.03
463.6	1.75	77.97	1219.0	1.70	57.69	2043.0	1.71	61.18	2693.6	1.86	55.38	3260.0	1.39	58.60
463.8	1.54	78.59	1219.2	1.51	57.54	2043.2	2.08	61.12	2693.7	1.83	55.82	3260.2	1.45	58.13

465.8	1.99	79.95	1221.2	1.62	56.15	2045.2	1.84	60.43	2694.7	2.04	55.99	3262.2	1.26	59.61
466.0	2.02	80.07	1221.4	1.25	57.58	2045.4	1.68	60.01	2694.8	1.46	55.28	3262.4	1.34	60.26
466.2	2.09	79.61	1221.6	1.44	58.32	2045.6	1.91	60.63	2694.9	1.82	53.77	3262.6	1.43	61.92
466.4	2.36	78.22	1221.8	1.34	59.22	2045.8	1.77	61.34	2695.0	1.92	53.46	3262.8	1.60	62.26
466.6	2.10	76.91	1222.0	1.78	59.02	2046.0	1.62	62.18	2695.1	1.81	53.13	3263.0	1.30	62.76
466.8	2.02	76.28	1222.2	1.51	58.72	2046.2	1.83	62.65	2695.2	2.02	53.27	3263.2	1.35	62.45
467.0	1.20	78.16	1222.4	1.49	58.11	2046.4	1.71	62.26	2695.3	1.61	53.54	3263.4	1.33	61.01
467.2	1.53	78.59	1222.6	1.63	57.86	2046.6	1.82	61.91	2695.4	1.79	53.45	3263.6	1.37	59.54
467.4	1.09	78.95	1222.8	1.58	57.83	2046.8	1.99	61.81	2695.5	1.71	52.94	3263.8	1.54	58.20
467.6	1.29	78.58	1223.0	1.57	58.86	2047.0	1.98	61.91	2695.6	1.77	53.70	3264.0	1.52	57.53
467.8	1.11	77.59	1223.2	1.55	58.51	2047.2	1.82	61.81	2695.7	2.13	53.23	3264.2	1.31	56.12
468.0	1.99	75.30	1223.4	1.74	58.34	2047.4	1.58	61.66	2695.8	1.96	53.41	3264.4	1.57	55.43
468.2	1.90	78.52	1223.6	1.45	58.72	2047.6	2.02	61.58	2695.9	1.79	53.78	3264.6	1.44	55.55
468.4	1.93	79.27	1223.8	1.18	58.52	2047.8	2.08	61.87	2696.0	1.73	53.68	3264.8	1.70	55.55
468.6	0.41	79.94	1224.0	1.50	57.57	2048.0	1.98	61.23	2696.1	1.91	53.33	3265.0	1.54	54.45
468.8	1.81	80.41	1224.2	1.49	57.76	2048.2	2.05	60.76	2696.2	1.95	53.21	3265.2	1.61	55.00
469.0	1.77	80.28	1224.4	1.78	58.47	2048.4	1.97	60.78	2696.3	1.93	53.21	3265.4	2.01	56.32
469.2	1.30	76.11	1224.6	1.42	57.69	2048.6	2.03	60.45	2696.4	1.88	53.39	3265.6	1.87	55.47
469.4	2.00	73.77	1224.8	1.44	57.50	2048.8	2.25	59.21	2696.5	1.87	53.30	3265.8	1.93	55.70
469.6	1.75	72.85	1225.0	1.54	57.49	2049.0	2.04	59.16	2696.6	1.90	52.89	3266.0	1.75	56.58
469.8	2.03	72.16	1225.2	1.69	58.35	2049.2	2.10	59.38	2696.7	1.74	52.51	3266.2	1.66	56.54
470.0	1.66	72.93	1225.4	1.55	59.07	2049.4	1.87	59.88	2696.8	1.59	52.59	3266.4	1.91	55.55
470.2	1.55	74.38	1225.6	1.17	59.02	2049.6	1.92	60.72	2696.9	1.87	51.88	3266.6	1.81	54.87
470.4	1.72	82.14	1225.8	1.48	59.40	2049.8	2.00	61.04	2697.0	2.12	52.04	3266.8	1.88	53.99
470.6	1.69	84.44	1226.0	1.62	59.61	2050.0	2.15	60.91	2697.1	1.71	51.74	3267.0	1.90	54.22
470.8	0.51	86.75	1226.2	1.80	58.96	2050.2	2.16	60.79	2697.2	2.08	51.97	3267.2	1.95	54.83
471.0	1.87	87.67	1226.4	1.40	57.28	2050.4	2.20	59.98	2697.3	1.98	51.75	3267.4	2.04	54.39
471.2	1.41	88.03	1226.6	1.66	57.16	2050.6	2.04	59.23	2697.4	2.01	51.58	3267.6	1.61	55.38
471.4	1.25	80.84	1226.8	1.18	56.24	2050.8	2.27	58.65	2697.5	1.98	51.29	3267.8	1.73	55.95
471.6	1.73	78.14	1227.0	1.52	55.64	2051.0	2.38	58.87	2697.6	1.79	51.13	3268.0	1.71	55.51
471.8	2.37	77.17	1227.2	1.50	55.27	2051.2	2.24	58.42	2697.7	2.14	52.05	3268.2	2.09	55.31
472.0	2.11	76.03	1227.4	1.43	55.29	2051.4	2.13	58.66	2697.8	1.57	53.46	3268.4	1.94	56.00
472.2	2.11	74.65	1227.6	1.69	54.96	2051.6	2.02	58.86	2697.9	2.20	55.52	3268.6	1.41	56.19
472.4	2.28	74.90	1227.8	1.29	55.60	2051.8	2.20	59.61	2698.0	1.57	56.91	3268.8	1.60	56.08
472.6	1.87	75.88	1228.0	1.40	56.25	2052.0	2.01	59.55	2698.1	2.21	57.58	3269.0	1.66	56.03
472.8	2.18	74.50	1228.2	1.56	56.86	2052.2	1.92	59.67	2698.2	1.92	57.12	3269.2	1.77	56.46
473.0	2.13	73.47	1228.4	1.21	55.93	2052.4	1.86	59.76	2698.3	2.01	56.65	3269.4	1.39	56.99
473.2	1.91	75.17	1228.6	1.63	55.96	2052.6	1.85	59.92	2698.4	1.75	55.70	3269.6	1.49	57.05
473.4	2.23	75.16	1228.8	1.65	55.01	2052.8	1.53	60.37	2698.5	1.84	54.66	3269.8	1.36	57.17
473.6	1.67	74.41	1229.0	1.66	53.90	2053.0	1.92	60.64	2698.6	1.82	55.52	3270.0	1.19	57.33
473.8	2.18	74.55	1229.2	1.72	52.77	2053.2	1.68	62.05	2698.7	1.80	55.86	3270.2	1.39	56.98
474.0	1.87	74.71	1229.4	1.74	53.73	2053.4	1.50	62.69	2698.8	1.74	55.07	3270.4	1.47	56.48
474.2	2.04	73.66	1229.6	1.46	54.15	2053.6	1.63	62.68	2698.9	1.71	56.33	3270.6	1.55	56.88
474.4	1.75	73.76	1232.2	1.67	55.29	2053.8	1.50	62.62	2699.0	1.07	56.96	3270.8	1.62	57.34
474.6	1.31	73.41	1233.4	1.77	56.10	2054.0	1.57	63.06	2699.1	1.86	57.10	3271.0	1.49	56.73
474.8	1.84	75.63	1233.6	1.65	56.87	2054.2	1.70	62.73	2699.2	1.85	58.17	3271.2	1.79	56.90
475.0	1.84	74.50	1233.8	1.65	57.15	2054.4	1.67	63.08	2699.3	1.86	58.50	3271.4	1.65	57.62
475.2	0.60	74.74	1234.0	1.73	57.90	2054.6	1.43	63.21	2699.4	1.67	64.13	3271.6	1.23	56.75
475.4	1.63	74.88	1234.2	1.78	57.87	2054.8	1.86	63.09	2699.5	1.75	66.21	3271.8	1.88	56.43
475.6	1.52	75.10	1234.4	1.94	58.86	2055.0	1.74	63.12	2699.6	1.71	65.14	3272.0	1.89	57.14
475.8	0.87	71.97	1234.6	1.84	59.52	2055.2	1.89	63.15	2699.7	1.80	64.03	3272.2	1.79	56.84
476.0	1.73	75.26	1234.8	1.86	58.83	2055.4	1.83	62.53	2699.8	1.69	64.76	3272.4	1.78	56.29
476.2	1.59	75.71	1235.0	1.68	57.96	2055.6	2.15	62.08	2699.9	1.61	58.08	3272.6	1.86	56.90
476.4	1.45	79.34	1235.2	1.69	57.60	2055.8	2.04	62.20	2700.0	1.79	55.37	3272.8	2.00	57.26
476.6	1.13	80.89	1235.4	1.80	57.11	2056.0	2.03	61.56	2700.1	1.72	56.03	3273.0	1.63	57.59
476.8	0.89	81.37	1235.6	2.03	57.65	2056.2	1.71	61.31	2700.2	1.61	56.35	3273.2	1.43	57.69
477.0	1.90	79.68	1235.8	1.75	58.59	2056.4	1.58	61.78	2700.3	1.52	56.15	3273.4	1.72	57.75
477.2	1.32	79.88	1236.0	1.93	59.54	2056.6	1.79	62.04	2700.4	1.87	56.12	3273.6	1.81	57.35
477.4	1.73	76.74	1236.2	1.68	61.00	2056.8	1.71	61.92	2700.5	1.59	57.45	3273.8	1.85	56.65
477.6	1.80	76.16	1236.4	1.74	61.44	2057.0	1.59	61.56	2700.6	1.68	56.68	3274.0	1.45	56.40
477.8	1.91	76.30	1236.6	1.64	60.33	2057.2	2.03	61.01	2700.7	1.78	55.58	3274.2	1.73	56.66
478.0	1.52	75.18	1236.8	1.74	60.35	2057.4	1.78	60.58	2700.8	1.59	55.81	3274.4	1.90	57.26
478.2	1.45	74.74	1237.0	1.66	60.48	2057.6	2.06	59.81	2700.9	1.66	55.58	3274.6	1.76	57.98
478.4	1.82	74.90	1237.2	1.74	59.49	2057.8	1.99	59.84	2701.0	1.27	55.21	3274.8	1.94	58.98
478.6	1.87	74.57	1237.4	1.85	59.17	2058.0	1.90	60.48	2701.1	1.80	56.03	3275.0	1.69	58.71
478.8	1.91	74.76	1237.6	1.39	59.44	2058.2	2.00	60.43	2701.2	1.71	57.27	3275.2	1.56	58.46
479.0	1.77	79.05	1237.8	1.61	59.18	2058.4	1.84	60.75	2701.3	1.43	55.89	3275.4	1.00	58.60
479.2	1.63	79.66	1238.0	1.25	58.56	2058.6	1.86	60.95	2701.4	1.74	55.86	3275.6	1.29	58.47
479.4	0.40	79.37	1238.2	1.39	61.36	2058.8	1.88	59.85	2701.5	1.66	55.73	3275.8	1.91	57.15
479.6	1.98	79.49	1238.4	1.70	61.02	2059.0	1.98	60.79	2701.6	1.71	56.08	3276.0	1.52	57.07
479.8	1.87	78.69	1238.6	1.74	61.66	2059.2	1.95	61.00	2701.7	1.57	55.70	3276.2	1.44	56.90
480.0	1.80	77.65	1238.8	1.67	62.11	2059.4	1.85	60.51	2701.8	1.60	57.67	3276.4	1.33	56.22

482.0	0.88	82.19	1240.8	1.58	59.23	2061.4	1.77	63.53	2702.8	1.95	54.48	3278.4	1.12	56.30
482.2	1.76	82.17	1241.0	1.57	59.12	2061.6	2.02	63.78	2702.9	1.49	55.61	3278.6	1.54	56.23
482.4	1.52	77.57	1241.2	1.60	59.05	2061.8	1.99	62.72	2703.0	1.80	55.56	3278.8	1.47	56.81
482.6	1.96	75.58	1241.4	1.60	58.69	2062.0	1.84	62.78	2703.1	1.65	55.82	3279.0	1.70	57.02
482.8	1.60	76.43	1241.6	1.55	58.26	2062.2	1.92	62.35	2703.2	1.92	56.28	3279.2	1.60	57.46
483.0	1.55	79.82	1241.8	1.51	57.95	2062.4	1.46	62.01	2703.3	1.63	56.89	3279.4	1.40	57.42
483.2	1.83	78.87	1242.0	1.64	57.91	2062.6	1.77	61.98	2703.4	1.85	56.38	3279.6	1.59	57.35
483.4	1.77	78.70	1242.2	1.74	58.24	2062.8	1.73	62.19	2703.5	1.57	57.12	3279.8	1.34	56.74
483.6	1.81	78.22	1242.4	1.65	57.68	2063.0	2.05	62.65	2703.6	1.77	56.50	3280.0	1.58	56.70
483.8	1.72	76.79	1242.6	1.74	57.61	2063.2	2.15	62.44	2703.7	1.75	55.91	3280.2	1.60	56.08
484.0	1.48	74.04	1242.8	1.77	57.53	2063.4	1.90	61.89	2703.8	1.67	56.16	3280.4	1.64	56.64
484.2	1.63	74.71	1243.0	1.48	56.66	2063.6	1.99	61.31	2703.9	1.72	56.20	3280.6	1.53	57.33
484.4	1.28	75.42	1243.2	1.68	56.67	2063.8	1.97	60.53	2704.0	1.79	55.70	3280.8	1.46	57.81
484.6	1.56	77.33	1243.4	1.77	56.43	2064.0	2.05	59.74	2704.1	1.81	56.23	3281.0	1.71	58.70
484.8	1.60	76.19	1243.6	1.89	55.79	2064.2	1.94	59.21	2704.2	1.60	57.18	3281.2	1.32	58.48
485.0	1.54	75.18	1243.8	1.57	55.50	2064.4	1.98	58.97	2704.3	1.62	57.10	3281.4	1.66	57.89
485.2	1.58	73.84	1244.0	1.61	55.89	2064.6	2.06	59.02	2704.4	1.33	57.08	3281.6	1.49	57.41
485.4	1.62	74.78	1244.2	1.52	55.63	2064.8	2.11	59.59	2704.5	1.69	56.95	3281.8	1.60	58.02
485.6	1.28	73.76	1244.4	1.49	54.94	2065.0	1.60	59.30	2704.6	1.87	56.80	3282.0	1.51	57.23
485.8	1.56	73.89	1244.6	1.51	55.34	2065.2	1.78	59.28	2704.7	1.77	56.16	3282.2	1.49	57.89
486.0	1.53	73.88	1244.8	1.56	55.55	2065.4	2.04	59.42	2704.8	1.42	55.53	3282.4	1.66	58.51
486.2	1.45	75.06	1245.0	1.53	56.16	2065.6	1.99	59.65	2704.9	1.81	55.53	3282.6	1.60	58.51
486.4	1.54	75.04	1245.2	1.46	56.06	2065.8	2.07	59.21	2705.0	1.77	56.18	3282.8	1.48	57.74
486.6	1.56	75.51	1245.4	1.70	57.26	2066.0	1.95	59.45	2705.1	1.76	61.89	3283.0	1.56	57.87
486.8	0.59	75.37	1245.6	1.74	57.53	2066.2	1.84	60.31	2705.2	1.60	62.77	3283.2	1.82	56.84
487.0	1.29	77.44	1245.8	1.42	57.91	2066.4	2.09	60.61	2705.3	1.85	63.58	3283.4	1.83	56.05
487.2	1.57	77.12	1246.0	1.52	58.94	2066.6	2.13	60.67	2705.4	1.88	64.19	3283.6	1.79	56.68
487.4	1.67	76.85	1246.2	1.38	59.62	2066.8	2.12	60.66	2705.5	2.14	66.13	3283.8	1.92	56.67
487.6	1.38	77.07	1246.4	1.58	58.64	2067.0	1.98	61.53	2705.6	1.94	61.20	3284.0	1.77	55.30
487.8	1.77	78.13	1246.6	1.50	59.30	2067.2	1.99	61.94	2705.7	1.89	60.60	3284.2	1.77	55.26
488.0	1.44	76.63	1246.8	1.43	58.74	2067.4	1.92	62.33	2705.8	1.67	62.15	3284.4	1.91	55.89
488.2	1.46	77.36	1247.0	1.48	57.75	2067.6	1.75	63.24	2705.9	1.77	62.02	3284.6	1.74	54.99
488.4	1.65	77.16	1247.2	1.52	57.65	2067.8	1.72	63.50	2706.0	2.19	59.55	3284.8	1.78	54.52
488.6	1.66	77.55	1247.4	1.25	58.44	2068.0	1.83	62.75	2706.1	1.95	58.70	3285.0	1.79	55.83
488.8	1.42	76.77	1247.6	1.61	57.34	2068.2	1.83	65.78	2706.2	1.93	59.08	3285.2	1.75	56.04
489.0	0.98	78.22	1247.8	1.64	57.84	2068.4	1.72	66.55	2706.3	1.66	57.29	3285.4	1.42	55.75
489.2	1.37	76.95	1248.0	1.41	58.16	2068.6	1.85	66.12	2706.4	1.76	57.06	3285.6	1.43	55.95
489.4	1.55	76.57	1248.2	1.42	58.06	2068.8	1.73	66.70	2706.5	1.94	57.08	3285.8	1.81	55.87
489.6	1.47	74.85	1248.4	0.96	58.15	2069.0	1.66	66.85	2706.6	1.85	57.48	3286.0	1.85	54.86
489.8	1.13	74.49	1248.6	1.25	58.92	2069.2	1.71	63.78	2706.7	1.96	57.58	3286.2	2.15	55.36
490.0	1.13	74.56	1248.8	1.39	59.20	2069.4	1.58	62.75	2706.8	1.64	57.54	3286.4	1.69	55.25
490.2	1.17	74.82	1249.0	1.50	61.26	2069.6	1.76	62.94	2706.9	1.66	56.43	3286.6	1.55	55.09
490.4	1.49	74.15	1249.2	1.51	62.66	2069.8	1.59	62.17	2707.0	2.09	56.25	3286.8	1.45	56.26
490.6	1.41	74.37	1249.4	1.47	62.91	2070.0	1.58	61.90	2707.1	1.79	55.81	3287.0	1.62	57.24
490.8	1.24	75.61	1249.6	1.61	62.84	2070.2	1.52	61.17	2707.2	1.98	54.88	3287.2	1.77	56.15
491.0	1.27	75.71	1249.8	1.38	62.13	2070.4	1.74	61.26	2707.3	1.91	54.23	3287.4	1.79	56.76
491.2	0.81	77.71	1250.0	1.58	59.64	2070.6	1.50	60.25	2707.4	1.39	55.01	3287.6	1.72	56.77
491.4	0.64	79.11	1250.2	1.52	58.57	2070.8	1.66	61.04	2707.5	2.07	54.96	3287.8	1.99	55.69
491.6	1.05	81.18	1250.4	1.47	58.25	2071.0	1.63	60.68	2707.6	1.88	54.83	3288.0	1.66	55.03
491.8	1.40	81.46	1250.6	1.57	57.93	2071.2	1.45	60.33	2707.7	2.07	55.22	3288.2	1.89	55.65
492.0	1.82	81.16	1250.8	1.42	58.15	2071.4	1.48	59.88	2707.8	1.92	55.54	3288.4	2.46	54.26
492.2	1.44	78.26	1251.0	1.59	58.62	2071.6	1.81	59.83	2707.9	1.87	55.78	3288.6	2.00	54.25
492.4	1.52	76.56	1251.2	1.62	58.60	2071.8	1.57	59.24	2708.0	1.87	55.92	3288.8	2.19	54.25
492.6	1.52	74.40	1251.4	1.45	59.07	2072.0	1.75	59.01	2708.1	1.93	55.70	3289.0	2.56	54.56
492.8	1.33	72.98	1251.6	1.52	59.97	2072.2	1.82	58.47	2708.2	1.97	56.05	3289.2	2.61	54.62
493.0	1.62	72.92	1251.8	1.64	61.20	2072.4	1.39	58.09	2708.3	2.21	57.13	3289.4	2.65	55.42
493.2	1.47	72.45	1252.0	1.52	60.45	2072.6	1.62	57.87	2708.4	1.73	61.58	3289.6	2.42	55.24
493.4	1.60	73.25	1252.2	1.48	60.88	2072.8	1.85	57.95	2708.5	1.47	61.85	3289.8	2.28	55.44
493.6	1.59	73.29	1252.4	1.42	60.63	2073.0	1.74	58.29	2708.6	1.65	62.09	3290.0	2.77	56.44
493.8	1.63	74.56	1252.6	1.40	59.76	2073.2	2.01	58.64	2708.7	2.10	62.04	3290.2	2.61	56.88
494.0	1.57	73.07	1252.8	1.50	58.75	2073.4	1.82	58.15	2708.8	1.81	60.82	3290.4	2.76	57.78
494.2	0.42	74.17	1253.0	1.28	59.32	2073.6	2.06	58.58	2708.9	2.05	56.40	3290.6	3.11	58.89
494.4	1.60	74.49	1253.2	1.41	58.52	2073.8	1.63	57.97	2709.0	1.96	55.91	3290.8	2.60	59.66
494.6	1.58	74.59	1253.4	1.60	58.40	2074.0	1.74	57.23	2709.1	2.06	56.10	3291.0	2.36	59.80
494.8	1.59	72.16	1253.6	1.58	58.99	2074.2	1.72	57.28	2709.2	2.18	55.74	3291.2	2.41	60.23
495.0	1.63	72.90	1253.8	1.60	58.61	2074.4	1.81	58.20	2709.3	2.26	56.09	3291.4	2.31	59.57
495.2	1.48	73.26	1254.0	1.68	58.69	2074.6	1.68	58.02	2709.4	1.85	56.28	3291.6	2.61	58.70
495.4	1.52	72.99	1254.2	1.35	58.54	2074.8	1.95	57.87	2709.5	2.13	55.69	3291.8	2.60	58.65
495.6	1.52	73.13	1254.4	1.56	58.39	2075.0	1.93	57.95	2709.6	1.96	55.52	3292.0	2.43	58.74
495.8	1.16	73.23	1254.6	1.71	58.95	2075.2	1.66	57.59	2709.7	2.09	55.00	3292.2	2.28	58.82
496.0	1.56	73.20	1254.8	1.60	58.72	2075.4	1.85	57.27	2709.8	1.97	54.27	3292.4	2.15	59.01
496.2	1.42	74.82	1255.0	1.48	58.15	2075.6	1.68	57.14	2709.9	1.98	54.54	3292.6	2.40	59.79

498.2	1.47	76.30	1257.0	1.72	57.22	2077.6	1.60	58.62	2710.9	2.05	56.72	3294.6	1.36	95.42
498.4	1.28	76.83	1257.2	2.03	57.44	2077.8	1.88	59.84	2711.0	2.05	57.45	3294.8	1.32	95.87
498.6	1.13	76.86	1257.4	1.55	56.50	2078.0	1.81	59.12	2711.1	1.76	56.89	3295.0	0.85	95.16
498.8	1.21	76.77	1257.6	1.87	55.58	2078.2	1.48	58.96	2711.2	2.24	55.83	3295.2	1.00	94.80
499.0	1.36	76.15	1257.8	1.41	54.77	2078.4	1.25	60.03	2711.3	2.18	56.35	3295.4	1.58	92.82
499.2	1.50	75.05	1258.0	1.68	54.28	2078.6	1.41	59.69	2711.4	1.91	56.70	3295.6	1.64	91.03
499.4	1.52	72.39	1258.2	1.79	54.39	2078.8	1.81	58.55	2711.5	1.84	56.66	3295.8	1.57	91.73
499.6	1.40	71.64	1258.4	1.45	54.53	2079.0	1.71	58.66	2711.6	1.87	56.85	3296.0	1.63	90.61
499.8	1.67	70.99	1258.6	1.89	54.55	2079.2	1.85	58.55	2711.7	2.02	60.67	3296.2	1.62	88.10
500.0	1.43	71.73	1258.8	1.75	54.52	2079.4	1.77	57.93	2711.8	1.90	61.86	3296.4	1.57	87.39
500.2	1.42	72.83	1259.0	1.77	54.83	2079.6	1.35	57.20	2711.9	1.71	61.55	3296.6	1.63	87.82
500.4	1.54	72.77	1259.2	1.77	53.57	2079.8	1.44	57.32	2712.0	1.58	61.71	3296.8	1.71	85.17
500.6	0.38	72.48	1259.4	1.74	52.75	2080.0	1.58	57.89	2712.1	1.51	62.21	3297.0	1.49	83.69
500.8	1.46	71.97	1259.6	1.78	52.93	2080.2	1.87	58.63	2712.2	1.43	60.47	3297.2	1.86	82.28
501.0	1.12	73.94	1259.8	1.77	52.14	2080.4	1.78	58.87	2712.3	1.61	59.15	3297.4	1.71	81.01
501.2	1.04	71.79	1260.0	2.04	51.38	2080.6	1.70	59.67	2712.4	1.60	58.66	3297.6	1.77	78.13
501.4	0.86	75.18	1260.2	1.60	51.02	2080.8	1.74	59.96	2712.5	1.85	58.51	3297.8	2.13	75.45
501.6	0.69	78.49	1260.4	1.93	51.25	2081.0	1.47	59.86	2712.6	2.03	58.33	3298.0	1.89	72.78
501.8	0.84	80.58	1260.6	1.37	50.22	2081.2	1.58	59.22	2712.7	1.98	56.91	3298.2	2.07	70.72
502.0	1.03	78.45	1260.8	1.85	49.77	2081.4	1.62	59.36	2712.8	0.89	56.99	3298.4	2.16	67.87
502.2	0.94	81.37	1261.0	1.93	49.25	2081.6	1.56	63.03	2712.9	1.55	58.21	3298.6	2.06	67.27
502.4	0.86	82.80	1261.2	2.00	49.40	2081.8	1.16	65.29	2713.0	1.76	58.00	3298.8	2.36	64.74
502.6	0.90	80.59	1261.4	1.59	50.16	2082.4	1.51	66.97	2713.1	1.52	57.57	3299.0	2.40	62.91
502.8	0.84	78.75	1261.6	1.72	51.50	2082.6	1.58	67.35	2713.2	1.80	57.27	3299.2	2.49	60.80
503.0	0.89	78.85	1264.5	1.83	53.22	2082.8	1.41	67.44	2713.3	1.63	56.83	3299.4	2.29	58.44
503.2	0.77	77.71	1265.6	1.70	54.63	2083.0	1.26	64.56	2713.4	1.81	56.90	3299.6	3.06	54.62
503.4	0.89	75.46	1265.8	1.68	55.43	2083.2	1.54	62.32	2713.5	1.13	56.66	3299.8	3.12	54.16
503.6	0.87	76.29	1266.0	1.49	55.83	2083.4	1.51	60.27	2713.6	1.62	57.72	3300.0	3.10	53.22
503.8	0.77	77.54	1266.2	1.58	56.14	2083.6	1.43	60.20	2713.7	1.58	58.46	3300.2	3.45	52.86
504.0	0.88	78.22	1266.4	1.47	56.66	2083.8	1.39	60.45	2713.8	1.80	59.47	3300.4	2.99	51.97
504.2	0.93	78.79	1266.6	1.44	57.57	2084.0	1.79	61.17	2713.9	0.70	58.62	3300.6	3.12	53.33
504.4	0.93	79.19	1266.8	1.51	58.32	2084.2	1.31	62.13	2714.0	1.84	59.43	3300.8	2.94	54.06
504.6	1.01	81.18	1267.0	1.84	57.93	2084.4	1.32	62.48	2714.1	1.70	59.24	3301.0	2.35	55.96
504.8	0.89	80.59	1267.2	1.59	56.99	2084.6	1.56	62.78	2714.2	1.77	58.22	3301.2	2.19	57.48
505.0	0.50	80.35	1267.4	1.71	57.24	2084.8	1.55	62.03	2714.3	1.68	56.75	3301.4	2.26	59.89
505.2	0.57	80.27	1267.6	1.87	57.17	2085.0	0.98	60.66	2714.4	1.60	57.17	3301.6	1.95	58.51
505.4	0.92	80.63	1267.8	1.64	57.98	2085.2	1.34	59.81	2714.5	1.82	57.17	3301.8	0.78	58.99
505.6	0.76	77.88	1268.0	1.58	59.02	2085.4	1.44	59.82	2714.6	1.77	57.28	3302.0	1.16	57.77
505.8	0.89	77.97	1268.2	1.48	59.53	2085.6	1.63	59.36	2714.7	1.81	57.69	3302.2	0.79	55.99
506.0	1.12	78.23	1268.4	1.72	58.90	2085.8	1.48	59.26	2714.8	1.91	58.45	3302.4	0.33	54.86
506.2	0.87	77.45	1268.6	1.41	58.83	2086.0	1.36	59.26	2714.9	1.80	57.48	3302.6	0.64	54.22
506.4	1.01	75.36	1268.8	1.44	57.76	2086.2	1.76	58.79	2715.0	1.58	56.60	3302.8	0.11	51.25
506.6	0.99	75.94	1269.0	1.46	56.90	2086.4	1.52	58.60	2715.1	1.72	56.38	3303.0	0.14	48.96
506.8	1.09	75.67	1269.2	1.51	57.48	2086.6	1.44	58.67	2715.2	1.72	56.64	3303.2	0.10	48.04
507.0	1.08	74.20	1269.4	1.52	56.69	2086.8	1.49	59.77	2715.3	1.64	55.90	3303.4	0.10	48.29
507.2	0.84	74.13	1269.6	1.31	55.90	2087.0	1.57	59.50	2715.4	1.63	56.49	3303.6	0.11	49.16
507.4	0.90	74.23	1269.8	1.46	55.57	2087.2	1.65	60.10	2715.5	1.55	56.58	3303.8	0.42	50.35
507.6	0.97	72.44	1270.0	1.58	56.20	2087.4	1.66	60.59	2715.6	1.87	56.31	3304.0	0.31	51.24
507.8	0.99	72.81	1270.2	1.30	55.93	2087.6	1.62	61.61	2715.7	1.61	56.38	3304.2	1.07	52.16
508.0	1.00	72.59	1270.4	1.57	56.59	2087.8	1.58	60.67	2715.8	1.74	57.48	3304.4	0.85	50.92
508.2	0.91	72.76	1270.6	1.51	56.32	2088.0	1.76	60.03	2715.9	1.88	57.47	3304.6	0.87	50.51
508.4	0.97	72.79	1270.8	1.72	56.58	2088.2	1.58	60.29	2716.0	1.73	57.68	3304.8	1.83	50.19
508.6	1.06	72.72	1271.0	1.94	55.66	2088.4	1.62	59.98	2716.1	1.83	59.31	3305.0	1.69	50.33
508.8	0.87	70.73	1271.2	1.77	54.77	2088.6	1.59	58.57	2716.2	1.74	59.19	3305.2	2.02	50.29
509.0	0.98	70.15	1271.4	1.86	54.19	2088.8	1.40	59.59	2716.3	1.55	58.70	3305.4	1.95	50.80
509.2	0.66	70.44	1271.6	1.67	54.59	2089.0	1.59	60.94	2716.4	1.59	58.34	3305.6	1.86	51.54
509.4	0.99	70.31	1271.8	1.90	54.13	2089.2	1.73	60.63	2716.5	1.51	58.97	3305.8	1.94	53.01
509.6	0.98	71.34	1272.0	1.43	53.58	2089.4	1.46	60.99	2716.6	1.78	57.99	3306.0	2.00	53.46
509.8	0.91	73.24	1272.2	1.85	53.80	2089.6	1.76	61.39	2716.7	1.67	59.33	3306.2	1.98	54.13
510.0	0.84	76.02	1272.4	1.72	53.88	2089.8	1.69	59.79	2716.8	1.73	60.87	3306.4	2.03	53.76
510.2	0.91	78.36	1272.6	1.87	55.60	2090.0	1.43	58.05	2716.9	1.67	61.53	3306.6	1.90	53.89
510.4	0.95	79.00	1272.8	1.49	56.41	2090.2	1.66	57.81	2717.0	1.44	60.85	3306.8	1.62	52.99
510.6	0.60	80.99	1273.0	1.83	57.01	2090.4	1.63	56.85	2717.1	1.84	60.78	3307.0	1.65	54.49
510.8	1.31	82.35	1273.2	1.75	57.29	2090.6	1.79	56.57	2717.2	1.68	59.39	3307.2	1.66	54.74
511.0	1.47	82.30	1273.4	1.55	57.77	2090.8	1.59	57.39	2717.3	1.69	57.66	3307.4	1.43	54.95
511.2	1.34	81.78	1273.6	1.44	56.09	2091.0	1.38	57.54	2717.4	1.77	57.39	3307.6	1.66	55.28
511.4	1.36	81.96	1273.8	1.74	55.42	2091.2	1.38	57.50	2717.5	1.88	56.61	3307.8	1.78	55.72
511.6	1.33	79.49	1274.0	1.53	54.60	2091.4	1.37	58.20	2717.6	1.57	55.48	3308.0	1.88	54.15
511.8	1.48	76.50	1274.2	1.80	55.09	2091.6	1.50	58.89	2717.7	1.84	54.92	3308.2	1.05	54.70
512.0	1.42	74.10	1274.4	1.36	54.78	2091.8	1.41	58.87	2717.8	2.02	55.10	3308.4	1.57	55.54
512.2	1.34	72.22	1274.6	1.24	55.52	2092.0	1.64	59.20	2717.9	1.78	55.31	3308.6	1.63	54.73
512.4	1.40	71.08	1274.8	1.25	55.68	2092.2	1.60	61.11	2718.0	2.08	55.84	3308.8	1.61	54.18

514.4	0.48	77.53	1276.8	1.89	60.06	2094.2	1.55	57.40	2719.0	1.58	55.29	3310.8	1.49	54.01
514.6	0.63	77.07	1277.0	1.65	62.52	2094.4	1.19	57.65	2719.1	1.54	55.22	3311.0	1.53	53.98
514.8	1.43	77.59	1277.2	1.91	61.32	2094.6	1.73	57.69	2719.2	1.99	54.85	3311.2	1.52	54.61
515.0	1.18	77.53	1277.4	1.58	61.43	2094.8	1.43	57.90	2719.3	1.69	54.40	3311.4	1.64	54.68
515.2	1.63	73.46	1277.6	1.66	61.69	2095.0	1.47	57.92	2719.4	1.91	55.37	3311.6	1.75	54.38
515.4	1.44	72.37	1277.8	1.58	61.07	2095.2	1.58	58.15	2719.5	1.64	56.79	3311.8	1.66	54.71
515.6	1.52	72.62	1278.0	1.50	58.66	2095.4	1.22	57.89	2719.6	1.62	57.65	3312.0	1.34	55.17
515.8	1.56	72.53	1278.2	1.50	58.75	2095.6	1.50	57.10	2719.7	1.75	58.69	3312.2	1.44	55.78
516.0	1.04	71.81	1278.4	1.46	58.12	2095.8	0.92	57.59	2719.8	1.64	58.73	3312.4	1.29	55.94
516.2	1.46	71.69	1278.6	1.52	58.26	2096.0	1.28	57.60	2719.9	1.67	58.73	3312.6	1.65	55.57
516.4	1.19	71.44	1278.8	1.66	58.85	2096.2	1.56	56.77	2720.0	1.82	56.90	3312.8	1.62	54.62
516.6	0.97	69.94	1279.0	1.64	58.11	2096.4	1.05	56.51	2720.1	1.53	56.85	3313.0	1.68	53.74
516.8	1.54	69.11	1279.2	1.45	58.53	2096.6	1.40	57.47	2720.2	1.83	55.88	3313.2	1.48	53.16
517.0	1.40	69.68	1279.4	1.89	57.89	2096.8	1.42	56.23	2720.3	1.55	56.24	3313.4	0.96	53.01
517.2	1.37	68.47	1279.6	1.50	56.70	2097.0	1.63	55.42	2720.4	1.37	56.49	3313.6	1.62	53.68
517.4	1.48	66.72	1279.8	1.70	55.95	2097.2	1.15	56.28	2720.5	1.60	56.81	3313.8	1.60	53.48
517.6	1.44	67.38	1280.0	1.43	55.39	2097.4	1.68	56.96	2720.6	1.74	56.72	3314.0	1.14	53.87
518.2	1.26	67.08	1280.2	1.48	55.29	2097.6	1.35	55.48	2720.7	1.87	57.34	3314.2	1.77	54.59
518.4	1.13	66.63	1280.4	1.54	55.28	2097.8	1.44	55.24	2720.8	1.68	56.71	3314.4	1.62	55.27
518.6	1.36	67.06	1280.6	1.60	55.71	2098.0	1.39	55.51	2720.9	1.67	56.21	3314.6	1.79	55.46
518.8	1.39	67.60	1280.8	1.76	55.97	2098.2	1.09	54.78	2721.0	1.70	56.73	3314.8	1.43	56.91
519.0	1.28	67.83	1281.0	1.70	56.21	2098.4	1.13	53.71	2721.1	1.61	56.71	3315.0	1.74	56.61
519.2	1.17	68.43	1281.2	1.71	57.22	2098.6	1.36	54.52	2721.2	1.59	56.28	3315.2	1.30	56.11
519.4	1.27	69.38	1281.4	1.25	58.08	2098.8	1.52	55.46	2721.3	1.53	56.80	3315.4	1.35	55.21
519.6	1.25	69.66	1281.6	1.87	58.52	2099.0	1.55	55.54	2721.4	1.65	55.81	3315.6	1.31	55.18
519.8	1.39	69.14	1281.8	1.71	58.79	2099.2	1.58	55.22	2721.5	1.72	55.39	3315.8	1.57	55.42
520.0	1.24	68.95	1282.0	1.76	59.33	2099.4	1.68	55.82	2721.6	1.47	55.06	3316.0	1.00	56.07
520.2	1.29	67.83	1282.2	1.67	58.71	2099.6	1.44	55.47	2721.7	1.57	55.52	3316.2	1.89	56.47
520.4	1.34	66.69	1282.4	1.73	58.14	2099.8	1.82	55.14	2721.8	1.52	54.99	3316.4	1.65	57.13
520.6	1.04	66.22	1282.6	1.76	58.33	2100.0	1.45	55.27	2721.9	1.53	55.94	3316.6	1.51	56.68
520.8	1.29	66.02	1282.8	1.84	58.66	2100.2	1.82	56.14	2722.0	1.57	55.60	3316.8	1.68	56.26
521.0	1.40	65.46	1283.0	1.84	59.60	2100.4	1.67	56.58	2722.1	1.63	55.50	3317.0	1.71	56.03
521.2	1.38	66.24	1283.2	1.65	59.12	2100.6	0.81	57.25	2722.2	1.64	55.24	3317.2	1.68	56.27
521.4	1.13	68.90	1283.4	1.78	59.29	2100.8	1.91	57.90	2722.3	1.36	55.45	3317.4	1.09	57.51
521.6	1.08	70.47	1283.6	1.87	59.44	2101.0	1.52	57.58	2722.4	1.76	55.33	3317.6	1.45	58.37
521.8	0.74	72.76	1283.8	1.92	58.36	2101.2	1.95	57.62	2722.5	1.51	55.50	3317.8	1.56	58.00
522.0	1.37	74.29	1284.0	2.10	57.64	2101.4	1.88	57.76	2722.6	1.69	55.33	3318.0	1.73	57.69
522.2	1.14	76.97	1284.2	1.97	57.82	2101.6	1.73	64.36	2722.7	1.60	55.50	3318.2	1.39	57.83
522.4	1.48	75.09	1284.4	1.95	58.55	2101.8	1.40	63.36	2722.8	1.47	55.71	3318.4	1.77	56.08
522.6	1.38	74.86	1284.6	2.03	59.17	2102.0	0.90	63.32	2722.9	1.44	56.37	3318.6	1.70	55.76
522.8	1.46	74.16	1284.8	1.78	60.05	2102.2	1.63	63.87	2723.0	1.71	56.09	3318.8	1.63	56.44
523.0	1.16	74.70	1285.0	1.81	60.50	2102.4	1.86	64.19	2723.1	1.62	56.54	3319.0	1.65	56.27
523.2	1.07	72.50	1285.2	1.99	60.72	2102.6	1.84	57.61	2723.2	1.48	56.70	3319.2	1.70	55.26
523.4	1.22	71.91	1285.4	2.16	60.12	2102.8	1.73	58.21	2723.3	1.41	56.50	3319.4	1.92	55.72
523.6	1.16	76.58	1285.6	1.97	59.30	2103.0	1.69	58.30	2723.4	1.82	56.28	3319.6	1.86	55.40
523.8	0.96	76.63	1285.8	2.18	58.71	2103.2	2.11	56.88	2723.5	1.68	57.99	3319.8	1.05	54.21
524.0	1.02	75.29	1286.0	1.06	58.25	2103.4	1.74	56.68	2723.5	1.89	58.20	3320.0	1.94	54.34
524.2	0.84	75.13	1286.2	1.99	58.19	2103.6	1.08	56.13	2725.1	1.79	58.97	3320.2	1.24	56.12
524.4	0.93	78.93	1286.4	2.01	57.76	2103.8	1.75	56.70	2725.2	1.72	59.83	3320.4	1.89	55.53
524.6	0.94	75.27	1286.6	1.86	57.87	2104.0	1.29	57.48	2725.3	1.35	59.68	3320.6	1.72	55.18
524.8	1.03	74.60	1286.8	1.83	57.28	2104.2	1.71	58.78	2725.4	1.46	59.16	3320.8	1.47	56.41
525.0	1.12	75.63	1287.0	1.66	57.19	2104.4	1.82	58.27	2725.5	1.35	59.00	3321.0	1.83	56.35
525.2	1.29	75.59	1287.2	1.85	57.69	2104.6	1.08	59.16	2725.6	1.55	58.63	3321.2	1.70	54.55
525.4	1.38	72.71	1287.4	1.81	58.07	2104.8	1.37	59.59	2725.7	1.76	58.10	3321.4	1.81	55.31
525.6	1.31	71.76	1287.6	1.68	58.67	2105.0	1.78	59.20	2725.8	1.76	58.35	3321.6	1.79	55.82
525.8	1.43	71.48	1287.8	1.79	59.48	2105.2	1.76	59.33	2725.9	1.21	58.89	3321.8	1.81	54.71
526.0	1.28	69.92	1288.0	1.69	59.82	2105.4	1.52	59.83	2726.0	1.66	59.54	3322.0	1.83	55.40
526.2	1.25	70.50	1288.2	1.89	58.42	2105.6	1.62	59.64	2726.1	1.86	59.60	3322.2	1.73	55.71
526.4	1.18	68.61	1288.4	1.81	58.06	2105.8	1.86	60.05	2726.2	1.95	60.41	3322.4	1.47	55.86
526.6	1.24	67.69	1288.6	2.07	57.14	2106.0	1.61	61.84	2726.3	1.68	59.70	3322.6	1.72	55.58
526.8	1.27	67.08	1288.8	1.95	57.38	2106.2	1.59	63.37	2726.4	1.93	59.44	3322.8	2.08	56.04
527.0	1.34	66.77	1289.0	1.84	56.90	2106.4	1.51	62.84	2726.5	1.68	59.42	3323.0	1.94	56.04
527.2	1.28	65.60	1289.2	1.69	57.99	2106.6	1.57	62.38	2726.6	1.85	59.63	3323.2	1.81	56.12
527.4	1.20	66.58	1289.4	1.81	59.19	2106.8	1.42	60.67	2726.7	1.81	60.14	3323.4	1.84	55.27
527.6	1.22	66.94	1289.6	1.85	59.61	2107.0	1.38	58.64	2726.8	2.00	60.65	3323.6	1.63	55.30
527.8	0.97	67.68	1289.8	1.81	60.04	2107.2	1.16	56.60	2726.9	1.95	60.45	3323.8	1.55	55.23
528.0	0.94	68.52	1290.0	2.11	60.67	2107.4	1.64	57.18	2727.0	1.54	61.69	3324.0	1.68	54.32
528.2	1.46	69.90	1290.2	1.67	60.62	2107.6	1.54	56.51	2727.1	2.01	62.93	3324.2	1.78	53.79
528.4	1.34	68.69	1290.4	1.83	59.73	2107.8	1.45	56.10	2727.2	1.72	62.21	3324.4	2.08	55.11
528.6	1.27	67.72	1290.6	1.80	59.81	2108.0	1.45	56.21	2727.3	1.77	63.75	3324.6	1.58	56.20
528.8	1.06	66.25	1290.8	1.77	59.16	2111.0	1.86	56.19	2727.4	1.97	64.40	3324.8	1.93	56.27
529.0	1.25	66.29	1291.0	1.76	59.53	2111.2	1.98	55.73	2727.5	1.89	63.14	3325.0	1.71	57.15

531.0	1.21	74.32	1293.0	1.66	59.16	2113.2	1.28	57.87	2728.5	1.98	58.63	3327.0	1.85	58.13
531.2	1.47	74.87	1293.2	1.73	58.93	2113.4	1.52	59.39	2728.6	1.87	58.63	3327.2	1.62	58.44
531.4	1.47	73.83	1293.4	1.59	59.51	2113.6	1.51	59.92	2728.7	1.61	59.50	3327.4	1.37	57.28
531.6	1.35	71.90	1293.6	1.41	59.90	2113.8	1.42	59.92	2728.8	1.79	59.30	3327.6	1.67	57.45
531.8	1.08	70.30	1293.8	1.34	59.50	2114.0	1.49	59.51	2728.9	1.98	57.84	3327.8	1.66	56.83
532.0	1.31	68.96	1294.0	1.76	59.81	2114.2	1.16	58.87	2729.0	2.14	57.25	3328.0	1.70	57.70
532.2	1.37	69.20	1294.2	1.68	60.34	2114.4	1.36	58.93	2729.1	2.00	57.96	3328.2	1.87	57.71
532.4	1.56	68.47	1294.4	1.79	60.76	2114.6	1.52	58.39	2729.2	2.01	56.54	3328.4	2.82	57.18
532.6	1.33	67.53	1294.6	1.54	60.02	2114.8	1.34	58.60	2729.3	1.91	56.47	3328.6	2.97	57.43
532.8	1.25	69.47	1294.8	1.75	59.82	2115.0	1.59	59.27	2729.4	2.05	55.85	3328.8	3.07	58.70
533.0	1.31	71.26	1295.0	1.56	59.88	2115.2	1.22	59.33	2729.5	2.07	55.99	3329.0	2.04	57.31
533.2	1.47	72.54	1295.2	1.68	60.30	2115.4	1.52	59.31	2729.6	1.33	55.15	3329.2	1.76	56.89
533.4	1.36	75.12	1295.4	1.78	60.08	2115.6	1.39	59.49	2729.7	2.09	55.41			
533.6	1.29	77.63	1295.6	1.87	59.99	2115.8	1.49	59.82	2729.8	1.75	56.04			
533.8	1.29	77.02	1295.8	1.75	60.74	2116.0	1.64	59.86	2729.9	1.96	56.43			
534.0	1.36	75.39	1296.0	1.80	59.94	2116.2	1.64	60.09	2730.0	1.88	57.12			
534.2	1.26	74.95	1296.2	1.93	58.98	2116.4	1.63	60.09	2730.1	1.82	57.72			
534.4	1.52	72.43	1296.4	1.73	57.90	2116.6	1.68	60.29	2730.2	1.95	59.17			
534.6	1.23	72.46	1296.6	1.76	58.27	2116.8	1.72	59.82	2730.3	1.80	60.15			
534.8	1.57	73.26	1296.8	1.85	57.93	2117.0	1.72	59.76	2730.4	1.58	61.04			
535.0	1.50	73.88	1297.0	1.58	58.92	2117.2	1.57	60.43	2730.5	1.76	63.10			
535.2	1.67	73.89	1297.2	1.90	59.87	2117.4	1.64	60.19	2730.6	1.63	70.48			
535.4	1.30	76.10	1297.4	1.88	61.19	2117.6	1.69	60.06	2730.7	1.81	76.94			
535.6	1.26	75.19	1297.6	1.30	61.25	2117.8	1.64	60.71	2730.8	1.77	79.08			
535.8	1.40	73.79	1297.8	1.66	62.47	2118.0	1.59	60.89	2731.0	1.37	85.66			
536.0	1.52	76.93	1298.0	1.40	62.04	2118.2	1.74	60.30	2731.1	1.62	90.26			
536.2	1.43	76.39	1298.2	1.33	62.42	2118.4	1.56	61.34	2731.2	1.78	84.07			
536.4	1.80	75.22	1298.4	1.69	62.61	2118.6	1.61	61.65	2731.3	1.66	80.21			
536.6	1.74	77.10	1298.6	1.63	62.44	2118.8	1.59	60.69	2731.4	1.84	79.70			
536.8	1.50	77.22	1298.8	1.75	61.27	2119.0	1.51	60.45	2731.5	1.70	73.90			
537.0	1.35	75.87	1299.0	1.77	61.91	2119.2	1.88	60.12	2731.6	1.95	66.80			
537.2	0.76	76.05	1299.2	1.40	60.55	2119.4	1.63	59.33	2731.7	1.74	65.49			
537.4	0.73	75.16	1299.4	1.87	60.17	2119.6	1.62	59.37	2731.8	1.64	62.06			
537.6	1.66	75.95	1299.6	1.61	59.98	2119.8	1.67	59.64	2731.9	1.66	60.71			

Table 6: Foraminifera and organic carbon calendar age and standard deviation for core CDH86

Foraminifera 14C				Organic Carbon 14C	
Core	Depth (cm)	Calendar Age (BP)	Std. Dev.	Calendar Age (BP)	Std. Dev.
BC82	11	3933	55		
GGC81	25	12598	47		
BC82	44	14629	109		
GGC81	45	14743	111		
GGC81	100	15730	123	17702	223
GGC81	180	17606	197		
CDH86	200	22776	178	23334	204
GGC81	240	19741	92	26111	168
CDH86	300	21672	114	27721	246
CDH86	400	28222	205	28510	176
GGC81	405	26753	197	30032	307
CDH86	450	27885	166		
CDH86	550	31264	183		
CDH86	600	31586	273	33365	363
CDH86	700	30398	202		
CDH86	800	38098	240		
CDH86	900	39266	312		
CDH86	1000	43280	461		
Tie Point	1275	54000			
Tie Point	1495	64000			
Tie Point	1625	73000			
Tie Point	2025	80000			
Tie Point	2195	84000			
Tie Point	2475	91000			
Tie Point	2715	99000			

Table 7: Foraminifera $\delta^{18}\text{O}$, Mg/Ca paleothermometry and $\delta^{18}\text{O}$ of seawater for core CDH86.

Foraminifera G. ruber		Foraminifera G. ruber Mg/Ca		Foraminifera G. ruber	
Depth (cm)	$\delta^{18}\text{Oc} (\text{\textperthousand})$	Depth (cm)	Temperatference (°C)	Depth (cm)	$\delta^{18}\text{Osw} (\text{\textperthousand})$
0.0	-1.37	0.0	26.65	0.0	1.35
1.0	-1.72	1.0	27.28	1.0	1.13
2.0	-1.54	2.0	27.36	2.0	1.32
4.0	-1.47	3.0	27.31	4.0	1.21
5.0	-1.51	4.0	26.50	5.0	1.34
6.0	-1.47	5.0	27.28	6.0	1.30
7.0	-1.62	6.0	26.93	7.0	1.12
8.0	-1.47	7.0	26.77	8.0	1.30
9.0	-1.56	8.0	26.88	9.0	1.12
10.0	-1.50	9.0	26.47	10.0	1.23
11.0	-1.66	10.0	26.71	11.0	1.03
12.0	-1.52	11.0	26.51	12.0	1.31
13.0	-1.77	12.0	27.16	13.0	0.95
14.0	-1.39	13.0	26.68	14.0	1.22
15.0	-0.79	14.0	26.14	15.0	1.82
16.0	-1.51	15.0	26.16	16.0	1.05
17.0	-1.16	16.0	25.90	17.0	1.28
18.0	-1.31	17.0	25.30	18.0	1.01
19.0	-1.26	18.0	24.74	19.0	1.01
20.0	-1.12	19.0	24.47	20.0	1.13
21.0	-0.86	20.0	24.40	21.0	1.24
22.0	-0.86	21.0	23.70	22.0	1.25
23.0	-1.33	22.0	23.72	23.0	0.75
24.0	-0.90	23.0	23.56	24.0	1.08
25.0	-1.27	24.0	23.08	25.0	0.78
26.0	-1.02	25.0	23.44	26.0	1.00
27.0	-0.73	26.0	23.30	27.0	1.30
28.0	-1.04	27.0	23.37	28.0	1.09
29.0	-0.78	28.0	23.80	29.0	1.33
30.0	-0.83	29.0	23.72	30.0	1.09
31.0	-0.68	30.0	22.82	31.0	1.37
32.0	-0.82	31.0	23.46	32.0	1.50
33.0	-0.79	32.0	24.78	33.0	1.62
34.0	-0.98	33.0	25.16	34.0	1.39
35.0	-0.44	34.0	24.97	35.0	2.09
36.0	-0.85	35.0	25.74	36.0	1.62
37.0	-0.66	36.0	25.46	37.0	1.70
38.0	-0.98	37.0	24.91	38.0	1.35
39.0	-0.77	38.0	24.80	39.0	1.58
40.0	-1.08	39.0	24.87	40.0	1.29
41.0	-1.18	40.0	24.98	41.0	1.09
42.0	-0.79	41.0	24.50	42.0	1.27
43.0	-0.26	42.0	23.49	43.0	1.67
50.0	-0.80	43.0	22.86	105.0	1.43
90.0	-0.49	44.0	23.61	115.0	1.19
105.0	-0.75	105.0	24.05	125.0	1.40
110.0	-0.38	115.0	25.54	135.0	2.13
115.0	-1.30	125.0	24.57	155.0	1.52
125.0	-0.89	135.0	24.28	175.0	1.43
135.0	-0.10	145.0	24.11	185.0	1.38
155.0	-0.47	155.0	23.16	195.0	2.20
175.0	-0.61	165.0	23.89	215.0	0.90
185.0	-0.52	175.0	23.37	235.0	0.57
195.0	0.16	185.0	22.73	245.0	1.36
215.0	-1.45	195.0	23.43	265.0	2.24
225.0	-1.32	205.0	22.60	285.0	2.38
235.0	-1.77	215.0	24.86	295.0	1.67
245.0	-1.23	235.0	24.83	305.0	1.66
265.0	0.06	245.0	26.04	315.0	1.19
285.0	0.11	255.0	24.18	325.0	2.33
295.0	-0.60	265.0	24.05	335.0	1.55
305.0	-0.59	275.0	24.45	345.0	1.66
315.0	-1.30	285.0	24.48	355.0	0.58
325.0	-0.24	295.0	24.49	365.0	1.84

335.0	-0.57	305.0	24.39	375.0	1.85
345.0	-0.73	315.0	25.55	385.0	1.28
355.0	-1.72	325.0	25.93	395.0	1.44
365.0	-0.03	335.0	23.81	405.0	2.22
375.0	-0.35	345.0	25.06	415.0	1.36
385.0	-1.19	355.0	24.67	425.0	1.61
395.0	-0.53	365.0	22.57	455.0	1.54
405.0	0.01	375.0	24.12	465.0	0.99
415.0	-0.69	385.0	25.44	475.0	1.31
425.0	-0.52	395.0	23.07	485.0	1.24
435.0	-0.55	405.0	24.21	545.0	1.60
445.0	-0.62	415.0	23.44	565.0	1.13
455.0	-0.49	425.0	23.82	575.0	1.99
465.0	-1.60	455.0	23.36	585.0	0.83
475.0	-0.73	465.0	26.02	595.0	1.76
485.0	-0.60	475.0	23.40	605.0	1.48
495.0	-0.81	485.0	22.42	615.0	1.12
535.0	-0.22	525.0	23.60	625.0	1.56
545.0	-0.57	545.0	24.02	635.0	1.70
565.0	-0.90	555.0	23.77	645.0	1.28
575.0	-0.19	565.0	23.35	655.0	0.82
585.0	-1.68	575.0	24.06	665.0	1.39
595.0	-0.28	585.0	25.63	675.0	1.57
605.0	-0.69	595.0	23.36	685.0	1.67
615.0	-1.06	605.0	24.02	695.0	1.20
625.0	-0.67	615.0	24.08	705.0	1.26
635.0	-0.51	625.0	24.28	715.0	1.67
645.0	-0.90	635.0	24.22	725.0	1.63
655.0	-0.95	645.0	24.04	735.0	1.87
665.0	-0.80	655.0	22.12	745.0	1.68
675.0	-0.34	665.0	24.12	755.0	1.54
685.0	-0.59	675.0	22.76	775.0	1.97
695.0	-0.84	685.0	24.44	795.0	1.84
705.0	-0.75	695.0	23.39	805.0	1.24
715.0	-0.48	705.0	23.21	815.0	1.69
725.0	-0.51	715.0	23.92	825.0	1.47
735.0	-0.21	725.0	23.89	835.0	1.28
745.0	-0.39	735.0	23.57	845.0	1.46
755.0	-0.57	745.0	23.54	875.0	1.59
775.0	-0.27	755.0	23.75	895.0	2.04
795.0	-0.27	765.0	24.10	905.0	1.33
805.0	-0.89	775.0	24.35	915.0	2.07
815.0	-0.66	785.0	24.19	925.0	1.49
825.0	-0.95	795.0	23.74	935.0	2.07
835.0	-0.92	805.0	23.85	945.0	2.03
845.0	-0.93	815.0	24.88	955.0	1.78
875.0	-0.59	825.0	25.21	975.0	1.28
895.0	-0.15	835.0	24.18	985.0	1.51
905.0	-0.86	845.0	25.09	995.0	1.29
915.0	-0.03	855.0	23.65	1005.0	1.38
925.0	-0.43	875.0	24.08	1015.0	1.70
935.0	-0.05	895.0	24.13	1025.0	1.11
945.0	-0.11	905.0	24.09	1045.0	1.63
955.0	-0.30	915.0	23.70	1055.0	1.35
975.0	-0.65	925.0	22.81	1065.0	1.66
985.0	-0.66	935.0	23.77	1075.0	1.08
995.0	-0.90	945.0	23.87	1085.0	1.41
1005.0	-0.80	955.0	23.61	1095.0	0.93
1015.0	-0.61	965.0	23.77	1105.0	1.31
1025.0	-0.89	975.0	22.85	1115.0	0.87
1045.0	-0.30	985.0	24.04	1125.0	1.57
1055.0	-0.70	995.0	24.10	1145.0	1.34
1065.0	-0.32	1005.0	24.08	1165.0	1.79
1075.0	-0.80	1015.0	24.71	1175.0	1.59
1085.0	-0.59	1025.0	23.22	1195.0	1.91
1095.0	-0.90	1045.0	22.84	1205.0	1.37
1105.0	-0.81	1055.0	23.46	1215.0	1.39
1115.0	-1.11	1065.0	23.11	1225.0	1.07
1125.0	-0.57	1075.0	22.62	1235.0	1.05
1145.0	-0.89	1085.0	23.24	1245.0	0.91

1155.0	-0.16	1095.0	22.37	1255.0	0.94
1165.0	-0.53	1105.0	23.80	1265.0	1.07
1175.0	-0.46	1115.0	23.09	1275.0	0.80
1195.0	-0.26	1125.0	23.90	1285.0	0.86
1205.0	-0.74	1145.0	24.33	1295.0	1.18
1215.0	-0.61	1165.0	24.72	1305.0	1.15
1225.0	-0.78	1175.0	23.44	1315.0	1.42
1235.0	-0.83	1185.0	23.77	1325.0	1.41
1245.0	-1.06	1195.0	24.04	1335.0	1.51
1255.0	-1.12	1205.0	23.71	1345.0	1.12
1265.0	-1.08	1215.0	23.22	1355.0	1.38
1275.0	-1.30	1225.0	22.46	1365.0	1.28
1285.0	-1.19	1235.0	22.64	1375.0	2.13
1295.0	-0.85	1245.0	23.10	1395.0	1.24
1305.0	-1.05	1255.0	23.48	1415.0	1.73
1315.0	-0.68	1265.0	23.92	1475.0	2.02
1325.0	-1.00	1275.0	23.70	1485.0	1.22
1335.0	-0.43	1285.0	23.42	1495.0	1.92
1345.0	-1.02	1295.0	23.38	1505.0	1.74
1355.0	-0.66	1305.0	24.18	1515.0	1.39
1365.0	-0.96	1315.0	23.67	1525.0	1.69
1375.0	-0.28	1325.0	25.16	1535.0	1.83
1395.0	-0.83	1335.0	22.91	1545.0	1.95
1415.0	-0.60	1345.0	23.89	1555.0	1.51
1435.0	-0.72	1355.0	23.40	1575.0	1.48
1445.0	-0.04	1365.0	24.36	1585.0	1.84
1465.0	-0.35	1375.0	25.19	1595.0	1.24
1475.0	-0.24	1395.0	23.54	1605.0	1.43
1485.0	-0.96	1415.0	24.78	1615.0	1.07
1495.0	-0.21	1475.0	24.49	1625.0	0.62
1505.0	-0.50	1485.0	24.06	1635.0	0.88
1515.0	-0.80	1495.0	23.82	1645.0	1.38
1525.0	-0.65	1505.0	24.35	1685.0	1.24
1535.0	-0.26	1515.0	24.14	1695.0	1.04
1545.0	-0.21	1525.0	24.83	1705.0	0.86
1555.0	-0.34	1535.0	23.65	1725.0	1.32
1575.0	-0.64	1545.0	23.98	1735.0	0.86
1585.0	-0.16	1555.0	22.49	1745.0	1.42
1595.0	-0.67	1575.0	23.76	1755.0	0.87
1605.0	-0.62	1585.0	23.18	1765.0	1.63
1615.0	-1.20	1595.0	22.75	1775.0	0.96
1625.0	-1.37	1605.0	23.45	1785.0	1.61
1635.0	-1.27	1615.0	24.47	1795.0	1.05
1645.0	-0.80	1625.0	23.16	1805.0	1.51
1685.0	-0.85	1635.0	23.94	1815.0	1.06
1695.0	-1.26	1645.0	24.08	1835.0	1.58
1705.0	-1.39	1665.0	24.62	1865.0	1.09
1725.0	-0.54	1685.0	23.65	1875.0	0.78
1735.0	-1.33	1695.0	24.64	1885.0	1.20
1745.0	-1.07	1705.0	24.44	1895.0	1.38
1755.0	-1.48	1725.0	22.54	1905.0	1.38
1765.0	-0.69	1735.0	24.12	1915.0	1.39
1775.0	-1.32	1745.0	25.54	1925.0	1.14
1785.0	-0.86	1755.0	24.88	1935.0	1.48
1795.0	-1.40	1765.0	24.73	1945.0	1.13
1805.0	-1.03	1775.0	24.57	1955.0	1.57
1815.0	-1.40	1785.0	25.45	1965.0	1.18
1825.0	-0.74	1795.0	25.35	1975.0	0.87
1835.0	-0.73	1805.0	25.79	1985.0	0.97
1855.0	-0.50	1815.0	25.40	1995.0	1.28
1865.0	-0.82	1835.0	24.69	2005.0	1.36
1875.0	-1.27	1865.0	22.80	2015.0	1.00
1885.0	-1.01	1875.0	23.41	2025.0	0.99
1895.0	-1.02	1885.0	24.19	2045.0	1.99
1905.0	-1.00	1895.0	25.09	2055.0	1.96
1915.0	-0.73	1905.0	25.02	2065.0	1.63
1925.0	-1.12	1915.0	23.78	2075.0	1.46
1935.0	-0.72	1925.0	24.45	2085.0	1.09
1945.0	-1.21	1935.0	24.19	2095.0	1.31
1955.0	-0.88	1945.0	24.83	2105.0	1.02

1965.0	-1.30	1955.0	25.39	2115.0	1.62
1975.0	-1.59	1965.0	25.50	2125.0	1.37
1985.0	-1.52	1975.0	25.41	2135.0	1.76
1995.0	-1.12	1985.0	25.55	2145.0	1.47
2005.0	-1.11	1995.0	25.13	2155.0	1.50
2015.0	-1.55	2005.0	25.46	2175.0	1.31
2025.0	-1.77	2015.0	25.85	2195.0	2.15
2035.0	-1.36	2025.0	26.84	2205.0	1.63
2045.0	-0.56	2045.0	25.83	2215.0	2.29
2055.0	-0.67	2055.0	26.24	2225.0	1.93
2065.0	-0.81	2065.0	25.34	2235.0	1.54
2075.0	-0.99	2075.0	25.39	2245.0	1.52
2085.0	-1.38	2085.0	25.46	2255.0	1.46
2095.0	-1.08	2095.0	25.11	2265.0	1.95
2105.0	-1.25	2105.0	24.51	2275.0	1.69
2115.0	-0.94	2115.0	25.94	2285.0	2.00
2125.0	-1.36	2125.0	26.69	2295.0	1.60
2135.0	-0.96	2135.0	26.68	2305.0	1.77
2145.0	-1.20	2145.0	26.40	2315.0	1.53
2155.0	-1.28	2155.0	26.93	2325.0	1.93
2175.0	-0.99	2165.0	26.31	2335.0	1.58
2195.0	-0.43	2175.0	24.64	2345.0	1.96
2205.0	-0.87	2185.0	24.25	2355.0	1.37
2215.0	-0.27	2195.0	26.01	2365.0	1.71
2225.0	-0.45	2205.0	25.60	2375.0	1.88
2235.0	-0.43	2215.0	25.89	2385.0	1.23
2245.0	-0.26	2225.0	25.01	2395.0	1.76
2255.0	-0.44	2235.0	23.08	2405.0	2.36
2265.0	-0.05	2245.0	22.17	2415.0	1.77
2275.0	-0.38	2255.0	22.71	2425.0	2.25
2285.0	-0.12	2265.0	23.20	2435.0	1.98
2295.0	-0.23	2275.0	23.54	2445.0	2.41
2305.0	-0.34	2285.0	23.76	2455.0	1.75
2315.0	-0.61	2295.0	22.39	2475.0	1.63
2325.0	-0.23	2305.0	23.70	2485.0	1.61
2335.0	-0.65	2315.0	23.86	2495.0	1.44
2345.0	-0.10	2325.0	23.98	2505.0	1.25
2355.0	-0.67	2335.0	24.30	2515.0	1.33
2365.0	-0.58	2345.0	23.50	2525.0	1.36
2375.0	-0.31	2355.0	23.43	2535.0	1.55
2385.0	-0.57	2365.0	24.62	2545.0	1.61
2395.0	-0.41	2375.0	24.11	2555.0	0.98
2405.0	0.05	2385.0	22.25	2565.0	2.11
2415.0	-0.72	2395.0	24.02	2575.0	2.02
2425.0	-0.09	2405.0	24.71	2585.0	1.21
2435.0	-0.26	2415.0	25.55	2595.0	1.18
2445.0	0.01	2425.0	24.82	2605.0	1.16
2455.0	-0.68	2435.0	24.34	2615.0	1.07
2475.0	-0.46	2445.0	25.10	2625.0	0.86
2485.0	-0.38	2455.0	25.25	2635.0	1.06
2495.0	-0.68	2465.0	23.79	2645.0	1.04
2505.0	-0.99	2475.0	23.65	2655.0	0.83
2515.0	-0.77	2485.0	23.13	2665.0	0.68
2525.0	-0.67	2495.0	23.77	2675.0	0.57
2535.0	-0.80	2505.0	24.38	2685.0	0.96
2545.0	-0.51	2515.0	23.72	2695.0	0.92
2555.0	-1.02	2525.0	23.32	2705.0	1.00
2565.0	-0.19	2535.0	24.86	2715.0	0.63
2575.0	-0.33	2545.0	23.78	2725.0	1.09
2585.0	-1.04	2555.0	23.24	2735.0	1.68
2595.0	-0.82	2565.0	24.64	2755.0	1.01
2605.0	-0.80	2575.0	24.87	2765.0	1.72
2615.0	-0.84	2585.0	24.42	2775.0	1.42
2625.0	-1.16	2595.0	23.21	2785.0	0.86
2635.0	-1.27	2605.0	23.01	2795.0	1.38
2645.0	-1.00	2615.0	22.77	2805.0	1.15
2655.0	-1.35	2625.0	23.28	2815.0	1.72
2665.0	-1.23	2635.0	24.78	2825.0	1.46
2675.0	-1.37	2645.0	23.38	2855.0	1.90
2685.0	-1.15	2655.0	24.05	2865.0	1.15

2695.0	-1.25	2665.0	22.77	2875.0	1.71
2705.0	-1.28	2675.0	22.93	2885.0	0.93
2715.0	-1.48	2685.0	23.70	2895.0	1.30
2725.0	-1.24	2695.0	23.99	2905.0	1.48
2735.0	-0.57	2705.0	24.55	2915.0	1.41
2755.0	-1.13	2715.0	23.74	2925.0	1.34
2765.0	-0.54	2725.0	24.78	2935.0	1.11
2775.0	-0.73	2735.0	24.39	2945.0	1.21
2785.0	-1.22	2745.0	23.36	2955.0	1.27
2795.0	-0.88	2755.0	23.92	2965.0	1.14
2805.0	-1.17	2765.0	24.46	2975.0	1.13
2815.0	-0.80	2775.0	23.91	2985.0	1.20
2825.0	-1.05	2785.0	23.58	2995.0	1.35
2835.0	-0.92	2795.0	24.44	3005.0	0.94
2845.0	-0.83	2805.0	24.77	3015.0	1.14
2855.0	-0.55	2815.0	25.70	3025.0	0.47
2865.0	-1.12	2825.0	25.65	3035.0	0.69
2875.0	-0.71	2835.0	25.37	3045.0	0.86
2885.0	-1.33	2865.0	24.48	3055.0	0.45
2895.0	-1.04	2875.0	25.22	3065.0	0.06
2905.0	-0.91	2885.0	24.46	3075.0	1.09
2915.0	-0.87	2895.0	24.85	3095.0	1.39
2925.0	-0.78	2905.0	25.06	3145.0	1.47
2935.0	-1.03	2915.0	24.53	3155.0	1.19
2945.0	-1.00	2925.0	23.76		
2955.0	-0.80	2935.0	23.90		
2965.0	-1.22	2945.0	24.25		
2975.0	-0.91	2955.0	23.54		
2985.0	-0.90	2965.0	24.95		
2995.0	-0.76	2975.0	23.37		
3005.0	-1.06	2985.0	23.70		
3015.0	-1.03	2995.0	23.73		
3025.0	-1.52	3005.0	23.20		
3035.0	-1.30	3015.0	24.03		
3045.0	-1.43	3025.0	23.15		
3055.0	-1.78	3035.0	23.14		
3065.0	-2.17	3045.0	24.62		
3075.0	-1.22	3055.0	24.27		
3085.0	-1.02	3065.0	24.31		
3095.0	-0.76	3075.0	24.67		
3135.0	-1.28	3095.0	23.96		
3145.0	-0.82	3145.0	24.60		
3155.0	-1.30	3155.0	25.53		

Table 8: Magnetic susceptibility for core CDH86

Depth (cm)	MS (SI)										
21.0	76.0	550.0	201.0	1082.0	276.0	1612.0	285.0	2144.0	286.0	2674.0	419.0
23.0	83.0	552.0	210.0	1084.0	275.0	1614.0	290.0	2146.0	282.0	2676.0	419.0
25.0	89.0	554.0	220.0	1086.0	277.0	1616.0	295.0	2148.0	280.0	2678.0	425.0
27.0	94.0	556.0	232.0	1088.0	282.0	1618.0	300.0	2150.0	280.0	2680.0	427.0
29.0	103.0	558.0	243.0	1090.0	290.0	1620.0	305.0	2152.0	283.0	2682.0	422.0
31.0	113.0	560.0	249.0	1092.0	297.0	1622.0	309.0	2154.0	280.0	2684.0	416.0
33.0	126.0	562.0	246.0	1094.0	301.0	1624.0	314.0	2156.0	274.0	2686.0	410.0
35.0	140.0	564.0	239.0	1096.0	303.0	1626.0	319.0	2158.0	265.0	2688.0	406.0
37.0	152.0	566.0	242.0	1098.0	302.0	1628.0	321.0	2160.0	257.0	2690.0	396.0
39.0	163.0	568.0	255.0	1100.0	299.0	1630.0	323.0	2162.0	245.0	2692.0	386.0
41.0	171.0	570.0	263.0	1102.0	297.0	1632.0	323.0	2164.0	235.0	2694.0	381.0
43.0	174.0	572.0	266.0	1104.0	295.0	1634.0	322.0	2166.0	222.0	2696.0	371.0
45.0	171.0	574.0	270.0	1106.0	293.0	1636.0	321.0	2168.0	202.0	2698.0	352.0
47.0	163.0	576.0	273.0	1108.0	295.0	1638.0	319.0	2170.0	181.0	2700.0	328.0
49.0	152.0	578.0	276.0	1110.0	300.0	1640.0	317.0	2172.0	164.0	2702.0	306.0
51.0	136.0	580.0	274.0	1112.0	305.0	1642.0	315.0	2174.0	153.0	2704.0	289.0
53.0	117.0	582.0	269.0	1114.0	309.0	1644.0	304.0	2176.0	146.0	2706.0	279.0
55.0	103.0	584.0	260.0	1116.0	311.0	1646.0	288.0	2178.0	142.0	2708.0	280.0
57.0	94.0	586.0	254.0	1118.0	309.0	1648.0	280.0	2180.0	144.0	2710.0	289.0

59.0	88.0	588.0	255.0	1120.0	304.0	1650.0	295.0	2182.0	150.0	2712.0	307.0
61.0	85.0	590.0	258.0	1122.0	299.0	1652.0	307.0	2184.0	174.0	2714.0	334.0
63.0	86.0	592.0	260.0	1124.0	294.0	1654.0	310.0	2186.0	188.0	2716.0	360.0
65.0	88.0	594.0	264.0	1126.0	289.0	1656.0	308.0	2188.0	198.0	2718.0	373.0
67.0	91.0	596.0	266.0	1128.0	283.0	1658.0	303.0	2190.0	203.0	2720.0	372.0
69.0	90.0	598.0	270.0	1130.0	277.0	1660.0	296.0	2192.0	206.0	2722.0	360.0
71.0	87.0	600.0	273.0	1132.0	272.0	1662.0	289.0	2194.0	206.0	2724.0	344.0
73.0	85.0	602.0	276.0	1134.0	266.0	1664.0	283.0	2196.0	204.0	2726.0	318.0
75.0	83.0	604.0	280.0	1136.0	258.0	1666.0	280.0	2198.0	205.0	2728.0	289.0
77.0	82.0	606.0	284.0	1138.0	247.0	1668.0	282.0	2200.0	207.0	2730.0	295.0
79.0	82.0	608.0	291.0	1140.0	238.0	1670.0	285.0	2202.0	213.0	2732.0	320.0
81.0	82.0	610.0	298.0	1142.0	232.0	1672.0	285.0	2204.0	229.0	2734.0	336.0
83.0	80.0	612.0	309.0	1144.0	226.0	1674.0	281.0	2206.0	246.0	2736.0	339.0
85.0	78.0	614.0	320.0	1146.0	222.0	1676.0	272.0	2208.0	269.0	2738.0	338.0
87.0	76.0	616.0	327.0	1148.0	219.0	1678.0	267.0	2210.0	302.0	2740.0	335.0
89.0	74.0	618.0	329.0	1150.0	218.0	1680.0	264.0	2212.0	332.0	2742.0	336.0
91.0	74.0	620.0	330.0	1152.0	222.0	1682.0	263.0	2214.0	331.0	2744.0	339.0
93.0	76.0	622.0	330.0	1154.0	228.0	1684.0	264.0	2216.0	302.0	2746.0	346.0
95.0	77.0	624.0	331.0	1156.0	234.0	1686.0	264.0	2218.0	277.0	2748.0	354.0
97.0	80.0	626.0	332.0	1158.0	243.0	1688.0	265.0	2220.0	269.0	2750.0	354.0
99.0	82.0	628.0	329.0	1160.0	255.0	1690.0	265.0	2222.0	272.0	2752.0	347.0
100.0	135.0	630.0	323.0	1162.0	265.0	1692.0	267.0	2224.0	273.0	2754.0	337.0
102.0	178.0	632.0	311.0	1164.0	270.0	1694.0	271.0	2226.0	267.0	2756.0	336.0
104.0	199.0	634.0	298.0	1166.0	272.0	1696.0	276.0	2228.0	260.0	2758.0	341.0
106.0	206.0	636.0	284.0	1168.0	273.0	1698.0	280.0	2230.0	260.0	2760.0	351.0
108.0	209.0	638.0	273.0	1170.0	276.0	1700.0	281.0	2232.0	265.0	2762.0	362.0
110.0	213.0	640.0	265.0	1172.0	282.0	1702.0	280.0	2234.0	269.0	2764.0	370.0
112.0	216.0	642.0	262.0	1174.0	288.0	1704.0	277.0	2236.0	269.0	2766.0	375.0
114.0	216.0	644.0	258.0	1176.0	293.0	1706.0	273.0	2238.0	271.0	2768.0	384.0
116.0	213.0	646.0	256.0	1178.0	295.0	1708.0	270.0	2240.0	279.0	2770.0	397.0
118.0	209.0	648.0	253.0	1180.0	294.0	1710.0	270.0	2242.0	289.0	2772.0	401.0
120.0	208.0	650.0	250.0	1182.0	286.0	1712.0	273.0	2244.0	298.0	2774.0	398.0
122.0	207.0	652.0	250.0	1184.0	282.0	1714.0	274.0	2246.0	307.0	2776.0	398.0
124.0	205.0	654.0	249.0	1186.0	291.0	1716.0	276.0	2248.0	320.0	2778.0	397.0
126.0	204.0	656.0	251.0	1188.0	301.0	1718.0	278.0	2250.0	333.0	2780.0	385.0
128.0	203.0	658.0	253.0	1190.0	308.0	1720.0	278.0	2252.0	343.0	2782.0	367.0
130.0	204.0	660.0	258.0	1192.0	313.0	1722.0	279.0	2254.0	346.0	2784.0	355.0
132.0	206.0	662.0	263.0	1194.0	319.0	1724.0	281.0	2256.0	343.0	2786.0	353.0
134.0	207.0	664.0	271.0	1196.0	317.0	1726.0	283.0	2258.0	336.0	2788.0	362.0
136.0	211.0	666.0	279.0	1198.0	312.0	1728.0	287.0	2260.0	326.0	2790.0	363.0
138.0	215.0	668.0	289.0	1200.0	305.0	1730.0	291.0	2262.0	312.0	2792.0	358.0
140.0	219.0	670.0	298.0	1202.0	302.0	1732.0	294.0	2264.0	302.0	2794.0	353.0
142.0	224.0	672.0	307.0	1204.0	298.0	1734.0	296.0	2266.0	311.0	2796.0	354.0
144.0	227.0	674.0	314.0	1206.0	298.0	1736.0	295.0	2268.0	321.0	2798.0	360.0
146.0	229.0	676.0	319.0	1208.0	300.0	1738.0	292.0	2270.0	331.0	2800.0	370.0
148.0	231.0	678.0	320.0	1210.0	304.0	1740.0	289.0	2272.0	341.0	2802.0	385.0
150.0	231.0	680.0	318.0	1212.0	304.0	1742.0	287.0	2274.0	345.0	2804.0	418.0
152.0	229.0	682.0	309.0	1214.0	304.0	1744.0	287.0	2276.0	342.0	2806.0	415.0
154.0	227.0	684.0	295.0	1216.0	302.0	1746.0	286.0	2278.0	340.0	2808.0	415.0
156.0	225.0	686.0	279.0	1218.0	297.0	1748.0	283.0	2280.0	339.0	2810.0	415.0
158.0	224.0	688.0	268.0	1220.0	291.0	1750.0	279.0	2282.0	337.0	2812.0	421.0
160.0	222.0	690.0	260.0	1222.0	286.0	1752.0	271.0	2284.0	336.0	2814.0	429.0
162.0	219.0	692.0	254.0	1224.0	284.0	1754.0	261.0	2286.0	338.0	2816.0	430.0
164.0	221.0	694.0	252.0	1226.0	282.0	1756.0	248.0	2288.0	341.0	2818.0	435.0
166.0	227.0	696.0	249.0	1228.0	280.0	1758.0	235.0	2290.0	346.0	2820.0	439.0
168.0	234.0	698.0	247.0	1230.0	277.0	1760.0	228.0	2292.0	353.0	2822.0	431.0
170.0	239.0	700.0	247.0	1232.0	276.0	1762.0	225.0	2294.0	355.0	2824.0	426.0
172.0	243.0	702.0	249.0	1234.0	277.0	1764.0	222.0	2296.0	351.0	2826.0	422.0
174.0	244.0	704.0	251.0	1236.0	280.0	1766.0	219.0	2298.0	340.0	2828.0	408.0
176.0	242.0	706.0	256.0	1238.0	282.0	1768.0	214.0	2300.0	327.0	2830.0	392.0
178.0	241.0	708.0	263.0	1240.0	281.0	1770.0	207.0	2302.0	319.0	2832.0	393.0
180.0	242.0	710.0	270.0	1242.0	279.0	1772.0	198.0	2304.0	320.0	2834.0	422.0
182.0	241.0	712.0	276.0	1244.0	278.0	1774.0	188.0	2306.0	328.0	2836.0	456.0
184.0	241.0	714.0	280.0	1246.0	276.0	1776.0	179.0	2308.0	336.0	2838.0	471.0
186.0	241.0	716.0	276.0	1248.0	276.0	1778.0	173.0	2310.0	344.0	2840.0	475.0
188.0	245.0	718.0	266.0	1250.0	273.0	1780.0	171.0	2312.0	351.0	2842.0	472.0
190.0	249.0	720.0	269.0	1252.0	272.0	1782.0	176.0	2314.0	356.0	2844.0	465.0
192.0	252.0	722.0	292.0	1254.0	271.0	1784.0	184.0	2316.0	359.0	2846.0	462.0
194.0	251.0	724.0	310.0	1256.0	271.0	1786.0	196.0	2318.0	360.0	2848.0	458.0
196.0	245.0	726.0	317.0	1258.0	270.0	1788.0	204.0	2320.0	361.0	2850.0	449.0

198.0	235.0	728.0	318.0	1260.0	269.0	1790.0	206.0	2322.0	360.0	2852.0	428.0
200.0	224.0	730.0	321.0	1262.0	268.0	1792.0	201.0	2324.0	360.0	2854.0	411.0
202.0	220.0	732.0	328.0	1264.0	268.0	1794.0	190.0	2326.0	361.0	2856.0	420.0
204.0	221.0	734.0	333.0	1266.0	267.0	1796.0	174.0	2328.0	363.0	2858.0	439.0
206.0	223.0	736.0	337.0	1268.0	267.0	1798.0	162.0	2330.0	366.0	2860.0	451.0
208.0	224.0	738.0	337.0	1270.0	265.0	1800.0	172.0	2332.0	369.0	2862.0	454.0
210.0	227.0	740.0	333.0	1272.0	265.0	1802.0	193.0	2334.0	372.0	2864.0	459.0
212.0	225.0	742.0	328.0	1274.0	267.0	1804.0	208.0	2336.0	373.0	2866.0	460.0
214.0	219.0	746.0	313.0	1276.0	267.0	1806.0	218.0	2338.0	372.0	2868.0	426.0
216.0	213.0	748.0	298.0	1278.0	267.0	1808.0	225.0	2340.0	369.0	2870.0	407.0
218.0	204.0	750.0	279.0	1280.0	266.0	1810.0	230.0	2342.0	365.0	2872.0	401.0
220.0	196.0	752.0	260.0	1282.0	265.0	1812.0	236.0	2344.0	362.0	2874.0	394.0
222.0	192.0	754.0	245.0	1284.0	264.0	1814.0	241.0	2346.0	361.0	2876.0	383.0
224.0	192.0	756.0	238.0	1286.0	262.0	1816.0	245.0	2348.0	362.0	2878.0	370.0
226.0	190.0	758.0	233.0	1288.0	259.0	1818.0	248.0	2350.0	363.0	2880.0	357.0
228.0	186.0	760.0	233.0	1290.0	253.0	1820.0	247.0	2352.0	359.0	2882.0	374.0
230.0	179.0	762.0	235.0	1292.0	247.0	1822.0	247.0	2354.0	354.0	2884.0	425.0
232.0	174.0	764.0	234.0	1294.0	241.0	1824.0	247.0	2356.0	344.0	2886.0	459.0
234.0	174.0	766.0	233.0	1296.0	238.0	1826.0	247.0	2358.0	339.0	2888.0	461.0
236.0	179.0	768.0	232.0	1298.0	236.0	1828.0	249.0	2360.0	344.0	2890.0	464.0
238.0	184.0	770.0	232.0	1300.0	233.0	1830.0	250.0	2362.0	348.0	2892.0	465.0
240.0	192.0	772.0	232.0	1302.0	232.0	1832.0	249.0	2364.0	349.0	2894.0	455.0
242.0	202.0	774.0	234.0	1304.0	232.0	1834.0	248.0	2366.0	346.0	2896.0	438.0
244.0	210.0	776.0	238.0	1306.0	236.0	1836.0	248.0	2368.0	347.0	2898.0	432.0
246.0	214.0	778.0	243.0	1308.0	245.0	1838.0	248.0	2370.0	353.0	2900.0	440.0
248.0	219.0	780.0	252.0	1310.0	254.0	1840.0	246.0	2372.0	357.0	2902.0	448.0
250.0	224.0	782.0	262.0	1312.0	261.0	1842.0	246.0	2374.0	354.0	2904.0	452.0
252.0	225.0	784.0	272.0	1314.0	264.0	1844.0	248.0	2376.0	352.0	2906.0	452.0
254.0	219.0	786.0	279.0	1316.0	268.0	1846.0	250.0	2378.0	355.0	2908.0	446.0
256.0	217.0	788.0	281.0	1318.0	275.0	1848.0	250.0	2380.0	354.0	2910.0	439.0
258.0	232.0	790.0	280.0	1320.0	286.0	1850.0	248.0	2382.0	344.0	2912.0	438.0
260.0	246.0	792.0	278.0	1322.0	296.0	1852.0	247.0	2384.0	331.0	2914.0	435.0
262.0	254.0	794.0	277.0	1324.0	303.0	1854.0	247.0	2386.0	322.0	2916.0	428.0
264.0	259.0	796.0	278.0	1326.0	305.0	1856.0	251.0	2388.0	316.0	2918.0	422.0
266.0	262.0	798.0	281.0	1328.0	304.0	1858.0	255.0	2390.0	314.0	2920.0	417.0
268.0	262.0	800.0	286.0	1330.0	299.0	1860.0	253.0	2392.0	314.0	2922.0	407.0
270.0	264.0	802.0	294.0	1332.0	284.0	1862.0	252.0	2394.0	318.0	2924.0	394.0
272.0	264.0	804.0	301.0	1334.0	250.0	1864.0	255.0	2396.0	325.0	2926.0	385.0
274.0	263.0	806.0	305.0	1336.0	246.0	1866.0	259.0	2398.0	333.0	2928.0	380.0
276.0	262.0	808.0	309.0	1338.0	274.0	1868.0	262.0	2400.0	333.0	2930.0	378.0
278.0	261.0	810.0	309.0	1340.0	296.0	1870.0	263.0	2402.0	325.0	2932.0	381.0
280.0	262.0	812.0	306.0	1342.0	311.0	1872.0	263.0	2404.0	314.0	2934.0	388.0
282.0	263.0	814.0	304.0	1344.0	318.0	1874.0	262.0	2406.0	305.0	2936.0	388.0
284.0	266.0	816.0	304.0	1346.0	321.0	1876.0	262.0	2408.0	299.0	2938.0	390.0
286.0	269.0	818.0	306.0	1348.0	321.0	1878.0	264.0	2410.0	294.0	2940.0	397.0
288.0	272.0	820.0	306.0	1350.0	321.0	1880.0	264.0	2412.0	293.0	2942.0	417.0
290.0	275.0	822.0	303.0	1352.0	321.0	1882.0	264.0	2414.0	289.0	2944.0	436.0
292.0	274.0	824.0	298.0	1354.0	322.0	1884.0	265.0	2416.0	279.0	2946.0	433.0
294.0	271.0	826.0	294.0	1356.0	325.0	1886.0	264.0	2418.0	261.0	2948.0	412.0
296.0	263.0	828.0	290.0	1358.0	327.0	1888.0	264.0	2420.0	255.0	2950.0	398.0
298.0	255.0	830.0	289.0	1360.0	330.0	1890.0	264.0	2422.0	261.0	2952.0	394.0
300.0	251.0	832.0	289.0	1362.0	329.0	1892.0	265.0	2424.0	264.0	2954.0	397.0
302.0	249.0	834.0	289.0	1364.0	325.0	1894.0	264.0	2426.0	266.0	2956.0	398.0
304.0	243.0	836.0	290.0	1366.0	320.0	1896.0	261.0	2428.0	268.0	2958.0	398.0
306.0	237.0	838.0	292.0	1368.0	314.0	1898.0	256.0	2430.0	268.0	2960.0	397.0
308.0	230.0	840.0	293.0	1370.0	309.0	1900.0	248.0	2432.0	264.0	2962.0	398.0
310.0	225.0	842.0	294.0	1372.0	302.0	1902.0	242.0	2434.0	256.0	2964.0	395.0
312.0	223.0	844.0	292.0	1374.0	293.0	1904.0	238.0	2436.0	250.0	2966.0	390.0
314.0	223.0	846.0	293.0	1376.0	286.0	1906.0	238.0	2438.0	248.0	2968.0	387.0
316.0	223.0	848.0	294.0	1378.0	286.0	1908.0	240.0	2440.0	248.0	2970.0	387.0
318.0	223.0	850.0	295.0	1380.0	294.0	1910.0	244.0	2442.0	246.0	2972.0	393.0
320.0	226.0	852.0	295.0	1382.0	306.0	1912.0	245.0	2444.0	244.0	2974.0	399.0
322.0	230.0	854.0	294.0	1384.0	316.0	1914.0	248.0	2446.0	242.0	2976.0	403.0
324.0	234.0	856.0	290.0	1386.0	323.0	1916.0	252.0	2448.0	244.0	2978.0	404.0
326.0	238.0	858.0	284.0	1388.0	324.0	1918.0	255.0	2450.0	245.0	2980.0	404.0
328.0	241.0	860.0	273.0	1390.0	318.0	1920.0	258.0	2452.0	247.0	2982.0	407.0
330.0	246.0	862.0	262.0	1392.0	312.0	1922.0	260.0	2454.0	249.0	2984.0	410.0
332.0	248.0	864.0	253.0	1394.0	306.0	1924.0	261.0	2456.0	251.0	2986.0	415.0
334.0	246.0	866.0	247.0	1396.0	299.0	1926.0	262.0	2458.0	253.0	2988.0	419.0
336.0	246.0	868.0	247.0	1398.0	287.0	1928.0	263.0	2460.0	255.0	2990.0	422.0

338.0	248.0	870.0	250.0	1400.0	275.0	1930.0	264.0	2462.0	258.0	2992.0	420.0
340.0	249.0	872.0	249.0	1402.0	268.0	1932.0	268.0	2464.0	261.0	2994.0	407.0
342.0	252.0	874.0	236.0	1404.0	263.0	1934.0	272.0	2466.0	263.0	2996.0	400.0
344.0	257.0	876.0	216.0	1406.0	252.0	1936.0	278.0	2468.0	266.0	2998.0	406.0
346.0	262.0	878.0	211.0	1408.0	238.0	1938.0	282.0	2470.0	268.0	3000.0	416.0
348.0	266.0	880.0	210.0	1410.0	226.0	1940.0	282.0	2472.0	269.0	3002.0	429.0
350.0	269.0	882.0	211.0	1412.0	222.0	1942.0	276.0	2474.0	270.0	3004.0	433.0
352.0	273.0	884.0	212.0	1414.0	216.0	1944.0	268.0	2476.0	271.0	3006.0	425.0
354.0	277.0	886.0	211.0	1416.0	213.0	1946.0	264.0	2478.0	273.0	3008.0	411.0
356.0	280.0	888.0	208.0	1418.0	211.0	1948.0	262.0	2480.0	277.0	3010.0	402.0
358.0	281.0	890.0	202.0	1420.0	210.0	1950.0	261.0	2482.0	283.0	3012.0	401.0
360.0	279.0	892.0	197.0	1422.0	208.0	1952.0	259.0	2484.0	289.0	3014.0	405.0
362.0	272.0	894.0	196.0	1424.0	206.0	1954.0	248.0	2486.0	293.0	3016.0	408.0
364.0	264.0	896.0	196.0	1426.0	205.0	1956.0	230.0	2488.0	298.0	3018.0	415.0
366.0	255.0	898.0	199.0	1428.0	204.0	1958.0	222.0	2490.0	303.0	3020.0	424.0
368.0	253.0	900.0	202.0	1430.0	203.0	1960.0	235.0	2492.0	306.0	3022.0	431.0
370.0	240.0	902.0	208.0	1432.0	204.0	1962.0	243.0	2494.0	307.0	3024.0	431.0
372.0	235.0	904.0	212.0	1434.0	204.0	1964.0	246.0	2496.0	306.0	3026.0	421.0
374.0	235.0	906.0	211.0	1436.0	205.0	1966.0	244.0	2498.0	305.0	3028.0	404.0
376.0	241.0	908.0	210.0	1438.0	206.0	1968.0	241.0	2500.0	307.0	3030.0	387.0
378.0	247.0	910.0	211.0	1440.0	209.0	1970.0	237.0	2502.0	313.0	3032.0	368.0
380.0	254.0	912.0	213.0	1442.0	210.0	1972.0	236.0	2504.0	319.0	3034.0	335.0
382.0	264.0	914.0	219.0	1444.0	211.0	1974.0	236.0	2506.0	325.0	3036.0	308.0
384.0	275.0	916.0	229.0	1446.0	210.0	1976.0	236.0	2508.0	325.0	3038.0	326.0
386.0	285.0	918.0	242.0	1448.0	210.0	1978.0	236.0	2510.0	321.0	3040.0	339.0
388.0	291.0	920.0	259.0	1450.0	209.0	1980.0	231.0	2512.0	316.0	3042.0	336.0
390.0	292.0	922.0	275.0	1452.0	208.0	1982.0	224.0	2514.0	314.0	3044.0	330.0
392.0	292.0	924.0	287.0	1454.0	209.0	1984.0	217.0	2516.0	316.0	3046.0	323.0
394.0	292.0	926.0	292.0	1456.0	211.0	1988.0	212.0	2518.0	322.0	3048.0	313.0
396.0	293.0	928.0	286.0	1458.0	211.0	1990.0	211.0	2520.0	324.0	3050.0	307.0
398.0	293.0	930.0	276.0	1460.0	212.0	1992.0	208.0	2522.0	318.0	3052.0	306.0
400.0	294.0	932.0	267.0	1462.0	213.0	1994.0	202.0	2524.0	306.0	3054.0	307.0
402.0	300.0	934.0	258.0	1464.0	214.0	1996.0	198.0	2526.0	296.0	3056.0	310.0
404.0	300.0	936.0	253.0	1466.0	215.0	1998.0	192.0	2528.0	293.0	3058.0	309.0
406.0	291.0	938.0	250.0	1468.0	215.0	2000.0	183.0	2530.0	298.0	3060.0	307.0
408.0	280.0	940.0	249.0	1470.0	216.0	2002.0	174.0	2532.0	311.0	3062.0	301.0
410.0	285.0	942.0	248.0	1472.0	217.0	2004.0	163.0	2534.0	326.0	3064.0	296.0
412.0	299.0	944.0	248.0	1474.0	218.0	2006.0	153.0	2536.0	340.0	3066.0	294.0
414.0	309.0	946.0	250.0	1476.0	219.0	2008.0	145.0	2538.0	350.0	3068.0	293.0
416.0	312.0	948.0	255.0	1478.0	221.0	2010.0	139.0	2540.0	358.0	3070.0	293.0
418.0	311.0	950.0	263.0	1480.0	222.0	2012.0	134.0	2542.0	361.0	3072.0	293.0
420.0	311.0	952.0	267.0	1482.0	220.0	2014.0	133.0	2544.0	364.0	3074.0	293.0
422.0	308.0	954.0	276.0	1484.0	218.0	2016.0	139.0	2546.0	363.0	3076.0	292.0
424.0	301.0	956.0	286.0	1486.0	217.0	2018.0	150.0	2548.0	358.0	3078.0	291.0
426.0	295.0	958.0	291.0	1488.0	218.0	2020.0	163.0	2550.0	345.0	3080.0	291.0
428.0	285.0	960.0	292.0	1490.0	220.0	2022.0	173.0	2552.0	320.0	3082.0	290.0
430.0	278.0	962.0	293.0	1492.0	220.0	2024.0	175.0	2554.0	301.0	3084.0	287.0
432.0	271.0	964.0	293.0	1494.0	219.0	2026.0	172.0	2556.0	293.0	3086.0	287.0
434.0	266.0	966.0	294.0	1496.0	214.0	2028.0	171.0	2558.0	304.0	3088.0	286.0
436.0	262.0	968.0	299.0	1498.0	219.0	2030.0	199.0	2560.0	323.0	3090.0	286.0
438.0	261.0	970.0	304.0	1500.0	227.0	2032.0	212.0	2562.0	325.0	3092.0	286.0
440.0	262.0	972.0	307.0	1502.0	228.0	2034.0	220.0	2564.0	326.0	3094.0	284.0
442.0	264.0	974.0	308.0	1504.0	242.0	2036.0	219.0	2566.0	334.0	3096.0	284.0
444.0	266.0	976.0	302.0	1506.0	251.0	2038.0	218.0	2568.0	330.0	3098.0	283.0
446.0	267.0	978.0	289.0	1508.0	255.0	2040.0	218.0	2570.0	310.0	3100.0	280.0
448.0	265.0	980.0	272.0	1510.0	257.0	2042.0	220.0	2572.0	290.0	3102.0	278.0
450.0	262.0	982.0	256.0	1512.0	260.0	2044.0	223.0	2574.0	312.0	3104.0	275.0
452.0	249.0	984.0	246.0	1514.0	264.0	2046.0	226.0	2576.0	348.0	3106.0	274.0
454.0	219.0	986.0	241.0	1516.0	270.0	2048.0	233.0	2578.0	366.0	3108.0	272.0
456.0	170.0	988.0	239.0	1518.0	279.0	2050.0	239.0	2580.0	364.0	3110.0	271.0
458.0	129.0	990.0	241.0	1520.0	286.0	2052.0	242.0	2582.0	349.0	3112.0	270.0
460.0	114.0	992.0	246.0	1522.0	295.0	2054.0	249.0	2584.0	325.0	3114.0	270.0
462.0	123.0	994.0	253.0	1524.0	302.0	2056.0	258.0	2586.0	306.0	3116.0	269.0
464.0	157.0	996.0	261.0	1526.0	310.0	2058.0	266.0	2588.0	297.0	3118.0	270.0
466.0	207.0	998.0	269.0	1528.0	318.0	2060.0	270.0	2590.0	294.0	3120.0	272.0
468.0	245.0	1000.0	276.0	1530.0	320.0	2062.0	269.0	2592.0	293.0	3122.0	273.0
470.0	269.0	1002.0	280.0	1532.0	314.0	2064.0	268.0	2594.0	292.0	3124.0	273.0
472.0	287.0	1004.0	280.0	1534.0	302.0	2066.0	267.0	2596.0	290.0	3126.0	274.0
474.0	301.0	1006.0	276.0	1536.0	287.0	2068.0	267.0	2598.0	290.0	3128.0	276.0
476.0	315.0	1008.0	273.0	1538.0	277.0	2070.0	269.0	2600.0	293.0	3130.0	277.0

478.0	324.0	1010.0	273.0	1540.0	273.0	2072.0	271.0	2602.0	298.0	3132.0	276.0
480.0	327.0	1012.0	279.0	1542.0	270.0	2074.0	274.0	2604.0	306.0	3134.0	275.0
482.0	324.0	1014.0	286.0	1544.0	266.0	2076.0	277.0	2606.0	315.0	3136.0	274.0
484.0	322.0	1016.0	292.0	1546.0	262.0	2078.0	280.0	2608.0	326.0	3138.0	274.0
486.0	316.0	1018.0	293.0	1548.0	258.0	2080.0	284.0	2610.0	335.0	3140.0	273.0
488.0	303.0	1020.0	292.0	1550.0	256.0	2082.0	288.0	2612.0	346.0	3142.0	272.0
490.0	290.0	1022.0	289.0	1552.0	255.0	2084.0	292.0	2614.0	359.0	3144.0	270.0
492.0	280.0	1024.0	289.0	1554.0	259.0	2086.0	295.0	2616.0	370.0	3146.0	269.0
494.0	273.0	1026.0	289.0	1556.0	265.0	2088.0	296.0	2618.0	374.0	3148.0	267.0
496.0	266.0	1028.0	283.0	1558.0	273.0	2090.0	295.0	2620.0	369.0	3150.0	265.0
498.0	260.0	1030.0	273.0	1560.0	280.0	2092.0	293.0	2622.0	360.0	3152.0	265.0
500.0	252.0	1032.0	270.0	1562.0	284.0	2094.0	292.0	2624.0	353.0	3154.0	264.0
502.0	246.0	1034.0	271.0	1564.0	287.0	2096.0	292.0	2626.0	346.0	3156.0	263.0
504.0	241.0	1036.0	273.0	1566.0	289.0	2098.0	293.0	2628.0	344.0	3158.0	262.0
506.0	236.0	1038.0	268.0	1568.0	289.0	2100.0	295.0	2630.0	343.0	3160.0	260.0
508.0	230.0	1040.0	256.0	1570.0	288.0	2102.0	296.0	2632.0	338.0	3162.0	263.0
510.0	225.0	1042.0	241.0	1572.0	286.0	2104.0	293.0	2634.0	341.0		
512.0	220.0	1044.0	229.0	1574.0	284.0	2106.0	288.0	2636.0	350.0		
514.0	215.0	1046.0	227.0	1576.0	283.0	2108.0	275.0	2638.0	360.0		
516.0	211.0	1048.0	226.0	1578.0	282.0	2110.0	253.0	2640.0	379.0		
518.0	207.0	1050.0	228.0	1580.0	284.0	2112.0	236.0	2642.0	401.0		
520.0	204.0	1052.0	230.0	1582.0	286.0	2114.0	249.0	2644.0	418.0		
522.0	201.0	1054.0	234.0	1584.0	289.0	2116.0	268.0	2646.0	422.0		
524.0	199.0	1056.0	237.0	1586.0	290.0	2118.0	279.0	2648.0	410.0		
526.0	193.0	1058.0	242.0	1588.0	289.0	2120.0	285.0	2650.0	402.0		
528.0	189.0	1060.0	249.0	1590.0	287.0	2122.0	288.0	2652.0	401.0		
530.0	188.0	1062.0	259.0	1592.0	286.0	2124.0	292.0	2654.0	403.0		
532.0	189.0	1064.0	269.0	1594.0	288.0	2126.0	296.0	2656.0	406.0		
534.0	191.0	1066.0	279.0	1596.0	295.0	2128.0	299.0	2658.0	411.0		
536.0	193.0	1068.0	288.0	1598.0	304.0	2130.0	298.0	2660.0	414.0		
538.0	194.0	1070.0	294.0	1600.0	310.0	2132.0	297.0	2662.0	415.0		
540.0	193.0	1072.0	296.0	1602.0	309.0	2134.0	295.0	2664.0	416.0		
542.0	191.0	1074.0	293.0	1604.0	301.0	2136.0	294.0	2666.0	416.0		
544.0	188.0	1076.0	287.0	1606.0	291.0	2138.0	293.0	2668.0	418.0		
546.0	190.0	1078.0	281.0	1608.0	284.0	2140.0	291.0	2670.0	421.0		
548.0	194.0	1080.0	278.0	1610.0	283.0	2142.0	289.0	2672.0	421.0		

Table 9: XRF Ti/Ca and Fe/K ratios for core CDH86.

Depth (cm)	Ti/Ca	Fe/K	Depth (cm)	Ti/Ca	Fe/K	Depth (cm)	Ti/Ca	Fe/K	Depth (cm)	Ti/Ca	Fe/K
15.2	0.02	38.21	645.4	0.35	73.10	1293.0	0.67	99.05	1914.4	0.19	51.59
15.4	0.01	39.42	645.6	0.48	71.23	1293.2	0.66	99.14	1914.6	0.20	51.76
15.6	0.02	40.28	645.8	0.44	68.61	1293.4	0.67	98.83	1914.8	0.21	52.17
15.8	0.02	41.58	646.0	0.54	66.00	1293.6	0.58	98.11	1915.0	0.20	52.58
16.0	0.02	42.03	646.2	0.41	63.95	1293.8	0.52	97.04	1915.2	0.25	52.69
16.2	0.01	41.86	646.4	0.35	62.72	1294.0	0.52	95.62	1915.4	0.19	52.31
16.4	0.01	41.19	646.6	0.37	62.55	1294.2	0.55	93.96	1915.6	0.22	51.54
16.6	0.01	40.55	646.8	0.42	64.10	1294.4	0.55	92.39	1915.8	0.21	50.64
16.8	0.01	40.46	647.0	0.32	67.82	1294.6	0.45	91.24	1916.0	0.16	49.96
17.0	0.02	41.09	647.2	0.34	73.23	1294.8	0.43	90.64	1916.2	0.20	49.79
17.2	0.01	42.23	647.4	0.38	78.92	1295.0	0.45	90.45	1916.4	0.21	50.12
17.4	0.01	43.57	647.6	0.44	82.88	1295.2	0.43	90.40	1916.6	0.27	50.74
17.6	0.01	44.94	647.8	0.49	83.42	1295.4	0.48	90.28	1916.8	0.22	51.36
17.8	0.02	46.24	648.0	0.35	80.17	1295.6	0.49	90.11	1917.0	0.21	51.75
18.0	0.01	47.25	648.2	0.35	74.40	1295.8	0.42	90.37	1917.2	0.20	51.79
18.2	0.01	47.67	648.4	0.32	68.15	1296.0	0.42	91.64	1917.4	0.24	51.49
18.4	0.02	47.31	648.6	0.35	63.33	1296.2	0.33	94.14	1917.6	0.24	51.05
18.6	0.02	46.36	648.8	0.26	60.85	1296.4	0.40	97.43	1917.8	0.22	50.63
18.8	0.02	45.63	649.0	0.30	60.37	1296.6	0.39	100.52	1918.0	0.23	50.29
19.0	0.01	46.34	649.2	0.31	60.75	1296.8	0.41	102.25	1918.2	0.23	50.01
19.2	0.02	49.51	649.4	0.28	60.97	1297.0	0.33	101.87	1918.4	0.19	49.69
19.4	0.02	55.13	649.6	0.31	60.66	1297.2	0.39	99.56	1918.6	0.19	49.24
19.6	0.02	62.08	649.8	0.32	59.84	1297.4	0.40	96.15	1918.8	0.19	48.69
19.8	0.02	68.56	650.0	0.35	58.89	1297.6	0.47	92.70	1919.0	0.15	48.16
20.0	0.03	73.53	650.2	0.32	58.18	1297.8	0.40	89.92	1919.2	0.15	47.77
20.2	0.03	77.52	650.4	0.31	57.89	1298.0	0.38	88.06	1919.4	0.17	47.57
20.4	0.04	82.37	650.6	0.27	57.88	1298.2	0.39	86.87	1919.6	0.19	47.53
20.6	0.06	89.77	650.8	0.26	57.89	1298.4	0.45	86.00	1919.8	0.15	47.56
20.8	0.05	99.76	651.0	0.28	57.63	1298.6	0.33	85.29	1920.0	0.17	47.54
21.0	0.15	110.74	651.2	0.29	57.08	1298.8	0.40	84.69	1920.2	0.16	47.40
21.2	0.50	120.06	651.4	0.27	56.48	1299.0	0.35	84.16	1920.4	0.16	47.18

21.4	0.24	125.70	651.6	0.31	55.99	1299.2	0.37	83.62	1920.6	0.17	46.96	2540.2	0.27	50.27
21.6	0.70	127.03	651.8	0.28	55.66	1299.4	0.41	83.03	1920.8	0.15	46.76	2540.4	0.25	50.41
21.8	0.93	124.89	652.0	0.26	55.47	1299.6	0.44	82.35	1921.0	0.15	46.58	2540.6	0.25	50.48
22.0	0.74	120.62	652.2	0.31	55.33	1299.8	0.37	81.84	1921.2	0.17	46.44	2540.8	0.26	50.43
22.2	0.69	115.40	652.4	0.30	55.20	1300.0	0.40	82.42	1921.4	0.16	46.29	2541.0	0.28	50.34
22.4	0.57	109.85	652.6	0.24	55.21	1300.2	0.42	85.09	1921.6	0.15	46.12	2541.2	0.29	50.33
22.6	0.43	104.29	652.8	0.26	55.38	1300.4	0.44	90.29	1921.8	0.14	45.92	2541.4	0.29	50.43
22.8	0.49	99.29	653.0	0.25	55.66	1300.6	0.39	97.71	1922.0	0.14	45.73	2541.6	0.18	50.53
23.0	0.53	95.45	653.2	0.30	55.96	1300.8	0.49	105.97	1922.2	0.13	45.61	2541.8	0.27	50.48
23.2	0.69	93.25	653.4	0.33	56.24	1301.0	0.26	112.90	1922.4	0.13	45.65	2542.0	0.25	50.20
23.4	0.62	92.58	653.6	0.30	56.52	1301.2	0.73	116.55	1922.6	0.16	45.94	2542.2	0.23	49.75
23.6	0.80	93.08	653.8	0.25	56.81	1301.4	0.75	116.23	1922.8	0.14	46.47	2542.4	0.27	49.32
23.8	0.75	94.25	654.0	0.34	57.14	1301.6	0.72	112.62	1923.0	0.16	47.20	2542.6	0.16	49.08
24.0	0.54	95.61	654.2	0.26	57.51	1301.8	0.47	107.37	1923.2	0.15	48.01	2542.8	0.30	49.06
24.2	0.77	97.18	654.4	0.32	57.85	1302.0	0.41	102.32	1923.4	0.14	48.78	2543.0	0.26	49.11
24.4	0.78	99.07	654.6	0.32	58.06	1302.2	0.42	98.60	1923.6	0.15	49.38	2543.2	0.22	49.03
24.6	0.62	101.20	654.8	0.31	58.16	1302.4	0.48	96.22	1923.8	0.15	49.79	2543.4	0.28	48.71
24.8	0.70	103.33	655.0	0.32	58.24	1302.6	0.47	94.42	1924.0	0.17	50.00	2543.6	0.26	48.17
25.0	0.63	105.12	655.2	0.41	58.39	1302.8	0.46	92.56	1924.2	0.18	50.03	2543.8	0.26	47.64
25.2	0.61	106.29	655.4	0.39	58.70	1303.0	0.43	90.27	1924.4	0.17	49.95	2544.0	0.25	47.38
25.4	0.61	107.15	655.6	0.38	59.17	1303.2	0.40	87.66	1924.6	0.17	49.79	2544.2	0.29	47.60
25.6	0.56	108.84	655.8	0.35	59.67	1303.4	0.39	85.42	1924.8	0.15	49.58	2544.4	0.25	48.32
25.8	0.60	112.53	656.0	0.40	60.04	1303.6	0.41	84.17	1925.0	0.16	49.36	2544.6	0.27	49.51
26.0	0.42	118.47	656.2	0.39	60.14	1303.8	0.38	83.98	1925.2	0.15	49.15	2544.8	0.31	51.03
26.2	0.48	125.73	656.4	0.44	59.93	1304.0	0.42	84.41	1925.4	0.15	48.92	2545.0	0.37	52.54
26.4	0.59	132.52	656.6	0.40	59.43	1304.2	0.41	84.72	1925.6	0.15	48.62	2545.2	0.34	53.75
26.6	0.43	137.16	656.8	0.39	58.76	1304.4	0.46	84.25	1925.8	0.17	48.25	2545.4	0.26	54.37
26.8	0.46	138.80	657.0	0.36	58.12	1304.6	0.39	82.68	1926.0	0.14	47.88	2545.6	0.20	54.26
27.0	0.50	138.04	657.2	0.40	57.68	1304.8	0.38	80.31	1926.2	0.13	47.63	2545.8	0.26	53.45
27.2	0.41	135.96	657.4	0.36	57.57	1305.0	0.45	77.83	1926.4	0.16	47.58	2546.0	0.27	52.17
27.4	0.37	132.96	657.6	0.31	57.86	1305.2	0.44	76.03	1926.6	0.17	47.80	2546.2	0.24	50.71
27.6	0.47	128.69	657.8	0.34	58.46	1305.4	0.37	75.38	1926.8	0.20	48.27	2546.4	0.21	49.37
27.8	0.43	122.36	658.0	0.35	59.12	1305.6	0.33	75.97	1927.0	0.17	48.89	2546.6	0.25	48.37
28.0	0.23	113.75	658.2	0.37	59.56	1305.8	0.32	77.45	1927.2	0.18	49.61	2546.8	0.24	47.87
28.2	0.36	103.61	658.4	0.35	59.60	1306.0	0.44	79.13	1927.4	0.16	50.36	2547.0	0.22	47.89
28.4	0.23	93.62	658.6	0.34	59.21	1306.2	0.45	80.38	1927.6	0.22	51.13	2547.2	0.22	48.49
28.6	0.32	85.50	658.8	0.36	58.57	1306.4	0.33	80.71	1927.8	0.22	51.86	2547.4	0.25	49.70
28.8	0.29	80.08	659.0	0.37	57.94	1306.6	0.40	79.94	1928.0	0.18	52.44	2547.6	0.29	51.36
29.0	0.39	77.09	659.2	0.37	57.50	1306.8	0.40	78.32	1928.2	0.19	52.73	2547.8	0.42	53.15
29.2	0.28	75.65	659.4	0.35	57.30	1307.0	0.43	76.48	1928.4	0.20	52.59	2548.0	0.28	54.65
29.4	0.29	74.84	659.6	0.36	57.32	1307.2	0.50	75.13	1928.6	0.21	52.03	2549.2	0.48	55.49
29.6	0.24	73.89	659.8	0.45	57.48	1307.4	0.41	74.74	1928.8	0.20	51.16	2549.4	0.51	55.51
29.8	0.19	72.66	660.0	0.38	57.76	1307.6	0.43	75.43	1929.0	0.19	50.21	2549.6	0.45	54.87
30.0	0.21	71.33	660.2	0.42	58.18	1307.8	0.55	76.92	1929.2	0.17	49.44	2549.8	0.40	53.91
30.2	0.20	70.12	660.4	0.44	58.74	1308.0	0.54	78.58	1929.4	0.18	49.00	2550.0	0.46	52.95
30.4	0.17	69.11	660.6	0.44	59.41	1308.2	0.46	79.89	1929.6	0.17	48.93	2550.2	0.45	52.18
30.6	0.19	68.28	660.8	0.39	60.14	1308.4	0.47	80.58	1929.8	0.19	49.20	2550.4	0.44	51.60
30.8	0.24	67.79	661.0	0.44	60.87	1308.6	0.53	80.52	1930.0	0.18	49.70	2550.6	0.40	51.10
31.0	0.20	67.70	661.2	0.41	61.46	1308.8	0.53	79.66	1930.2	0.17	50.29	2550.8	0.36	50.65
31.2	0.17	67.95	661.4	0.45	61.75	1309.0	0.69	78.08	1930.4	0.19	50.81	2551.0	0.38	50.38
31.4	0.19	68.41	661.6	0.46	61.60	1309.2	0.61	75.97	1930.6	0.17	51.12	2551.2	0.47	50.34
31.6	0.16	68.78	661.8	0.43	61.00	1309.4	0.55	73.78	1930.8	0.21	51.12	2551.4	0.48	50.49
31.8	0.20	68.93	662.0	0.41	60.04	1309.6	0.42	72.20	1931.0	0.16	50.78	2551.6	0.45	50.74
32.0	0.20	69.17	662.2	0.44	58.92	1309.8	0.47	71.83	1931.2	0.20	50.19	2551.8	0.48	50.97
32.2	0.17	70.06	662.4	0.48	57.83	1310.0	0.58	72.73	1931.4	0.18	49.55	2552.0	0.44	51.07
32.4	0.19	71.99	662.6	0.46	56.94	1310.2	0.61	74.41	1931.6	0.17	49.04	2552.2	0.45	51.06
32.6	0.15	74.74	662.8	0.44	56.36	1310.4	0.65	76.09	1931.8	0.16	48.74	2552.4	0.45	50.99
32.8	0.19	77.28	663.0	0.43	56.07	1310.6	0.78	76.98	1932.0	0.15	48.62	2552.6	0.45	50.86
33.0	0.21	78.14	663.2	0.46	56.04	1310.8	0.69	76.64	1932.2	0.17	48.55	2552.8	0.49	50.75
33.2	0.17	76.42	663.4	0.43	56.20	1311.0	0.61	75.15	1932.4	0.20	48.50	2553.0	0.45	50.72
33.4	0.15	72.37	663.6	0.55	56.52	1311.2	0.60	72.90	1932.6	0.16	48.48	2553.2	0.58	50.86
33.6	0.19	67.38	663.8	0.48	56.95	1311.4	0.75	70.41	1932.8	0.14	48.62	2553.4	0.49	51.24
33.8	0.19	63.34	664.0	0.45	57.38	1311.6	0.58	68.16	1933.0	0.14	49.09	2553.6	0.50	51.81
34.0	0.18	61.67	664.2	0.40	57.74	1311.8	0.44	66.47	1933.2	0.16	49.95	2553.8	0.58	52.44
34.2	0.22	62.70	664.4	0.49	57.97	1312.0	0.53	65.39	1933.4	0.22	51.11	2554.0	0.51	52.93
34.4	0.17	65.66	664.6	0.49	58.01	1312.2	0.49	64.76	1933.6	0.17	52.29	2554.2	0.57	53.17
34.6	0.18	69.32	664.8	0.51	57.84	1312.4	0.45	64.36	1935.2	0.23	53.15	2554.4	0.62	53.25
34.8	0.23	72.56	665.0	0.44	57.52	1312.6	0.52	63.98	1935.4	0.17	53.44	2554.6	0.63	53.55
35.0	0.24	74.69	665.2	0.41	57.14	1312.8	0.52	63.62	1935.6	0.19	53.12	2554.8	0.60	54.47
35.2	0.25	75.75	665.4	0.44	56.77	1313.0	0.48	63.59	1935.8	0.19	52.40	2555.0	0.74	56.21
35.4	0.26	76.25	665.6	0.44	56.48	1313.2	0.53	64.32	1936.0	0.18	51.56	2555.2	0.80	58.58
35.6	0.27	76.89	665.8	0.45	56.32	1313.4	0.51	65.85	1936.2	0.20	50.83	2555.4	0.98	61.00
35.8	0.12	78.22	666.0	0.41	56.33	1313.6	0.53	67.78	1936.4	0.18				

37.6	0.20	78.85	667.8	0.46	56.30	1315.4	0.43	60.93	1938.2	0.18	49.26	2557.4	0.73	58.51
37.8	0.19	75.69	668.0	0.58	56.52	1315.6	0.44	61.21	1938.4	0.17	49.33	2557.6	0.69	58.98
38.0	0.21	74.10	668.2	0.54	56.98	1315.8	0.35	61.42	1938.6	0.15	49.38	2557.8	0.86	59.38
38.2	0.21	74.32	668.4	0.54	57.76	1316.0	0.36	61.47	1938.8	0.17	49.37	2558.0	0.75	59.73
38.4	0.26	75.84	668.6	0.56	58.91	1316.2	0.41	61.41	1939.0	0.19	49.27	2558.2	0.83	60.11
38.6	0.26	77.74	668.8	0.49	60.37	1316.4	0.39	61.29	1939.2	0.17	49.03	2558.4	0.77	60.62
38.8	0.24	79.04	669.0	0.39	61.87	1316.6	0.29	61.22	1939.4	0.17	48.68	2558.6	0.70	61.34
39.0	0.29	79.17	669.2	0.47	62.99	1316.8	0.35	61.28	1939.6	0.19	48.27	2558.8	0.71	62.26
39.2	0.27	78.10	669.4	0.50	63.33	1317.0	0.33	61.52	1939.8	0.18	47.88	2559.0	0.78	63.24
39.4	0.25	76.32	669.6	0.55	62.74	1317.2	0.34	61.89	1940.0	0.18	47.50	2559.2	0.87	64.10
39.6	0.30	74.61	669.8	0.69	61.46	1317.4	0.34	62.20	1940.2	0.16	47.15	2559.4	1.07	64.63
39.8	0.25	73.54	670.0	0.56	59.98	1317.6	0.42	62.25	1940.4	0.17	46.81	2559.6	0.86	64.75
40.0	0.31	73.41	670.2	0.49	58.71	1317.8	0.43	61.84	1940.6	0.17	46.57	2559.8	0.80	64.52
40.2	0.25	74.23	670.4	0.63	57.95	1318.0	0.50	60.91	1940.8	0.17	46.54	2560.0	0.73	64.16
40.4	0.31	75.78	670.6	0.66	57.71	1318.2	0.38	59.59	1941.0	0.16	46.85	2560.2	0.68	63.85
40.6	0.26	77.69	670.8	0.55	58.02	1318.4	0.41	58.08	1941.2	0.20	47.51	2560.4	0.68	63.62
40.8	0.27	79.65	671.0	0.52	59.29	1318.6	0.39	56.64	1941.4	0.21	48.35	2560.6	0.66	63.41
41.0	0.31	81.31	671.2	0.58	61.80	1318.8	0.41	55.54	1941.6	0.19	49.12	2560.8	0.56	63.13
41.2	0.29	82.23	671.4	0.67	65.22	1319.0	0.42	55.02	1941.8	0.22	49.61	2561.0	0.70	62.74
41.4	0.22	82.13	671.6	0.65	68.63	1319.2	0.36	55.18	1942.0	0.19	49.73	2561.2	0.78	62.37
41.6	0.27	80.98	671.8	0.58	70.85	1319.4	0.37	56.04	1942.2	0.21	49.52	2561.4	0.78	62.36
41.8	0.24	78.94	672.0	0.70	70.97	1319.6	0.37	57.43	1942.4	0.20	49.16	2561.6	0.85	63.05
42.0	0.21	76.31	672.2	0.62	68.97	1321.8	0.39	59.06	1942.6	0.20	48.78	2561.8	0.81	64.68
42.2	0.27	73.49	672.4	0.59	65.79	1322.0	0.34	60.55	1942.8	0.15	48.44	2562.0	0.68	67.13
42.4	0.23	70.88	672.6	0.60	62.67	1322.2	0.42	61.60	1943.0	0.16	48.11	2562.2	0.70	69.84
42.6	0.28	68.72	672.8	0.64	60.72	1322.4	0.37	62.14	1943.2	0.18	47.78	2562.4	0.30	72.02
42.8	0.23	67.35	673.0	0.65	60.37	1322.6	0.42	62.38	1943.4	0.14	47.44	2562.6	0.81	72.89
43.0	0.23	67.08	673.2	0.47	61.44	1322.8	0.38	62.61	1943.6	0.15	47.13	2562.8	1.01	72.08
43.2	0.21	68.09	673.4	0.67	63.29	1323.0	0.36	63.10	1943.8	0.14	46.92	2563.0	1.10	69.81
43.4	0.23	70.61	673.6	0.81	65.34	1323.2	0.44	63.94	1944.0	0.17	46.85	2563.2	1.41	66.80
43.6	0.41	74.84	673.8	0.88	67.15	1323.4	0.45	65.08	1944.2	0.17	46.88	2563.4	0.60	63.94
43.8	0.54	81.09	674.0	0.77	68.25	1323.6	0.43	66.32	1944.4	0.15	46.94	2563.6	0.80	61.94
44.0	0.58	89.81	674.2	0.73	68.29	1323.8	0.52	67.40	1944.6	0.15	46.96	2563.8	0.54	61.02
44.2	0.94	101.37	674.4	0.58	67.26	1324.0	0.42	68.07	1944.8	0.16	46.87	2564.0	0.65	60.98
44.4	0.99	115.37	674.6	0.55	65.45	1324.2	0.44	68.21	1945.0	0.16	46.64	2564.2	0.61	61.43
44.6	1.79	130.03	674.8	0.57	63.38	1324.4	0.48	67.82	1945.2	0.16	46.31	2564.4	0.55	61.91
44.8	1.44	142.39	675.0	0.58	61.55	1324.6	0.47	66.98	1945.4	0.16	45.93	2564.6	0.61	62.14
45.0	1.37	149.09	675.2	0.53	60.28	1324.8	0.40	65.82	1945.6	0.15	45.58	2564.8	0.59	61.95
45.2	1.20	147.90	675.4	0.51	59.64	1325.0	0.36	64.51	1945.8	0.15	45.31	2565.0	0.66	61.33
45.4	1.44	138.81	675.6	0.44	59.49	1325.2	0.44	63.27	1946.0	0.14	45.17	2565.2	0.57	60.45
45.6	1.11	124.42	675.8	0.49	59.58	1325.4	0.46	62.33	1946.2	0.14	45.18	2565.4	0.62	59.52
45.8	1.07	108.48	676.0	0.50	59.71	1325.6	0.42	61.91	1946.4	0.15	45.32	2565.6	0.50	58.66
46.0	0.97	94.43	676.2	0.48	59.74	1325.8	0.48	62.15	1946.6	0.15	45.55	2565.8	0.47	57.98
46.2	0.61	84.04	676.4	0.48	59.66	1326.0	0.42	63.11	1946.8	0.16	45.86	2566.0	0.50	57.52
46.4	0.81	77.19	676.6	0.33	59.55	1326.2	0.37	64.71	1947.0	0.18	46.27	2566.2	0.55	57.27
46.6	0.62	72.79	676.8	0.49	59.49	1326.4	0.45	66.63	1947.2	0.17	46.79	2566.4	0.48	57.22
46.8	0.67	69.89	677.0	0.44	59.52	1326.6	0.49	68.39	1947.4	0.15	47.47	2566.6	0.20	57.38
47.0	0.53	68.32	677.2	0.37	59.68	1326.8	0.49	69.52	1947.6	0.14	48.23	2566.8	0.45	57.81
47.2	0.47	68.06	677.4	0.48	59.97	1327.0	0.53	69.69	1947.8	0.19	48.94	2567.0	0.57	58.49
47.4	0.32	68.87	677.6	0.46	60.37	1327.2	0.35	68.87	1948.0	0.17	49.40	2567.2	0.56	59.38
47.6	0.30	70.05	677.8	0.54	60.89	1327.4	0.46	67.40	1948.2	0.16	49.50	2567.4	0.50	60.38
47.8	0.33	70.86	678.0	0.38	61.57	1327.6	0.47	65.84	1948.4	0.16	49.23	2567.6	0.46	61.34
48.0	0.41	70.84	678.2	0.46	62.38	1327.8	0.43	64.75	1948.6	0.14	48.78	2567.8	0.60	62.13
48.2	0.24	70.15	678.4	0.50	63.29	1328.0	0.42	64.41	1948.8	0.16	48.37	2568.0	0.45	62.70
48.4	0.19	69.38	678.6	0.52	64.24	1328.2	0.46	64.71	1949.0	0.16	48.16	2568.2	0.93	63.21
48.6	0.23	68.99	678.8	0.35	65.12	1328.4	0.42	65.19	1949.2	0.15	48.17	2568.4	0.62	63.93
48.8	0.28	69.09	679.0	0.44	65.80	1328.6	0.39	65.37	1949.4	0.17	48.24	2568.6	0.80	65.00
49.0	0.40	69.48	679.2	0.39	66.15	1328.8	0.42	65.10	1949.6	0.17	48.20	2568.8	0.92	66.31
49.2	0.27	69.98	679.4	0.58	66.07	1329.0	0.44	64.54	1949.8	0.14	47.97	2569.0	0.88	67.44
49.4	0.61	70.61	679.6	0.46	65.56	1329.2	0.37	64.06	1950.0	0.15	47.65	2569.2	1.12	67.84
49.6	0.93	71.54	679.8	0.41	64.73	1329.4	0.39	63.94	1950.2	0.15	47.39	2569.4	0.84	67.09
49.8	0.59	72.96	680.0	0.57	63.76	1329.6	0.38	64.17	1950.4	0.16	47.37	2569.6	0.62	65.29
50.0	0.57	74.68	680.2	0.57	62.83	1329.8	0.40	64.40	1950.6	0.17	47.62	2569.8	0.60	62.97
50.2	0.58	76.24	680.4	0.49	62.04	1330.0	0.46	64.27	1950.8	0.15	48.08	2570.0	0.64	61.15
50.4	0.70	77.13	680.6	0.43	61.44	1330.2	0.37	63.63	1951.0	0.15	48.55	2570.2	0.72	61.17
50.6	0.88	77.11	680.8	0.55	61.09	1330.4	0.39	62.69	1951.2	0.16	48.87	2570.4	0.59	63.81
50.8	0.57	76.22	681.0	0.41	61.04	1330.6	0.43	61.90	1951.4	0.14	48.95	2570.6	0.96	68.58
51.0	0.73	74.92	681.2	0.39	61.30	1330.8	0.41	61.68	1951.6	0.13	48.85	2570.8	1.25	73.98
51.2	0.93	74.32	681.4	0.46	61.80	1331.0	0.39	62.20	1951.8	0.13	48.67	2571.0	1.59	78.08
51.4	0.78	75.50	681.6	0.43	62.38	1331.2	0.41	63.47	1952.0	0.16	48.57	2571.2	1.22	79.37
51.6	1.32	78.88	681.8	0.52	62.79	1331.4	0.43	65.37	1952.2	0.15	48.64	2571.4	0.88	77.52
51.8	0.93	84.07	682.0	0.51	62.81	1331.6	0.35	67.67	1952.4	0.15	48.86	2571.6	0.76	73.59
52.0	0.95	89.93	682.2	0.44	62.33	1331.8	0.42	70.05	1952.6	0.16	49.15	2571.8	0.8	

53.8	1.59	107.07	684.0	0.32	55.38	1333.6	0.42	64.09	1954.4	0.16	49.75	2573.6	0.62	59.90
54.0	2.87	107.53	684.2	0.34	56.54	1333.8	0.29	63.54	1954.6	0.16	49.31	2573.8	0.68	59.17
54.2	1.66	108.27	684.4	0.49	57.60	1334.0	0.34	62.74	1954.8	0.15	48.70	2574.0	0.64	58.65
54.4	2.18	108.71	684.6	0.40	58.41	1334.2	0.42	61.74	1955.0	0.16	47.96	2574.2	0.64	58.34
54.6	2.24	108.26	684.8	0.41	58.96	1334.4	0.37	60.75	1955.2	0.16	47.20	2574.4	0.48	58.18
54.8	1.59	106.89	685.0	0.36	59.35	1334.6	0.40	59.95	1955.4	0.15	46.61	2574.6	0.61	58.05
55.0	1.38	105.00	685.2	0.42	59.65	1334.8	0.38	59.47	1955.6	0.11	46.31	2574.8	0.60	57.85
55.2	1.54	102.74	685.4	0.50	59.89	1335.0	0.38	59.38	1955.8	0.13	46.32	2575.0	0.65	57.48
55.4	1.59	100.11	685.6	0.43	60.07	1335.2	0.45	59.75	1956.0	0.15	46.54	2575.2	0.66	56.99
55.6	0.85	97.21	685.8	0.48	60.28	1335.4	0.39	60.71	1956.2	0.15	46.81	2575.4	0.58	56.54
55.8	1.41	94.32	686.0	0.42	60.85	1335.6	0.38	62.33	1956.4	0.15	47.02	2575.6	0.42	56.36
56.0	0.97	91.95	686.2	0.37	62.05	1335.8	0.43	64.52	1956.6	0.15	47.14	2575.8	0.57	56.59
56.2	1.23	90.88	686.4	0.50	63.83	1336.0	0.44	66.88	1956.8	0.14	47.19	2576.0	0.58	57.22
56.4	1.34	91.25	686.6	0.42	65.72	1336.2	0.48	68.81	1957.0	0.14	47.21	2576.2	0.58	58.06
56.6	1.25	92.64	686.8	0.31	67.06	1336.4	0.43	69.71	1957.2	0.14	47.19	2576.4	0.56	58.90
56.8	1.31	94.48	687.0	0.39	67.32	1336.6	0.39	69.32	1957.4	0.14	47.09	2576.6	0.55	59.57
57.0	1.02	96.26	687.2	0.42	66.48	1336.8	0.41	67.93	1957.6	0.13	46.93	2576.8	0.50	59.98
57.2	0.93	97.98	687.4	0.39	65.16	1337.0	0.45	66.33	1957.8	0.11	46.81	2577.0	0.56	60.12
57.4	1.35	99.79	687.6	0.38	64.22	1337.2	0.43	65.41	1958.0	0.14	46.79	2577.2	0.47	60.05
57.6	1.67	101.52	687.8	0.40	64.40	1337.4	0.42	65.78	1958.2	0.12	46.86	2577.4	0.51	59.78
57.8	1.38	102.41	688.0	0.42	65.95	1337.6	0.41	67.35	1958.4	0.13	46.92	2577.6	0.64	59.35
58.0	1.32	101.49	688.2	0.44	68.50	1337.8	0.53	69.30	1958.6	0.16	46.82	2577.8	0.57	58.88
58.2	1.47	98.26	688.4	0.42	71.18	1338.0	0.48	70.58	1958.8	0.14	46.47	2578.0	0.57	58.51
58.4	1.34	93.10	688.6	0.45	73.13	1338.2	0.35	70.45	1959.0	0.12	45.93	2578.2	0.58	58.39
58.6	1.18	87.36	688.8	0.48	73.81	1338.4	0.43	68.82	1959.2	0.11	45.40	2578.4	0.45	58.59
58.8	1.24	82.52	689.0	0.46	73.08	1338.6	0.32	66.26	1959.4	0.10	45.07	2578.6	0.48	59.04
59.0	0.92	79.53	689.2	0.44	71.17	1338.8	0.39	63.72	1959.6	0.12	45.01	2578.8	0.53	59.53
59.2	1.45	78.48	689.4	0.53	68.53	1339.0	0.35	62.04	1959.8	0.09	45.16	2579.0	0.44	59.80
59.4	1.36	78.90	689.6	0.40	65.70	1339.2	0.38	61.57	1960.0	0.11	45.29	2579.2	0.55	59.62
59.6	1.65	79.99	689.8	0.50	63.05	1339.4	0.41	62.15	1960.2	0.09	45.19	2579.4	0.54	58.93
59.8	1.42	81.07	690.0	0.39	60.82	1339.6	0.38	63.23	1960.4	0.10	44.79	2579.6	0.51	57.81
60.0	1.78	81.92	690.2	0.36	59.12	1339.8	0.46	64.14	1960.6	0.10	44.16	2579.8	0.44	56.50
60.2	1.49	82.40	690.4	0.36	57.96	1340.0	0.37	64.39	1960.8	0.09	43.47	2580.0	0.39	55.24
60.4	1.53	82.42	690.6	0.48	57.37	1340.2	0.37	63.84	1961.0	0.09	42.96	2580.2	0.48	54.18
60.6	1.40	82.00	690.8	0.39	57.27	1340.4	0.44	62.63	1961.2	0.11	42.75	2580.4	0.45	53.37
60.8	1.60	81.29	691.0	0.36	57.49	1340.6	0.41	61.07	1961.4	0.08	42.85	2580.6	0.47	52.81
61.0	1.94	80.50	691.2	0.41	57.83	1340.8	0.46	59.55	1961.6	0.09	43.23	2580.8	0.40	52.46
61.2	1.58	79.83	691.4	0.39	58.10	1341.0	0.44	58.34	1961.8	0.10	43.81	2581.0	0.35	52.25
61.4	1.54	79.36	691.6	0.34	58.27	1341.2	0.38	57.58	1962.0	0.12	44.48	2581.2	0.45	52.17
61.6	1.47	79.05	691.8	0.31	58.36	1341.4	0.47	57.26	1962.2	0.11	45.11	2581.4	0.40	52.15
61.8	2.00	78.83	692.0	0.28	58.39	1341.6	0.42	57.36	1962.4	0.11	45.66	2581.6	0.38	52.06
62.0	1.90	78.66	692.2	0.29	58.38	1341.8	0.44	57.82	1962.6	0.11	46.11	2581.8	0.42	51.77
62.2	1.99	78.69	692.4	0.35	58.38	1342.0	0.49	58.51	1962.8	0.12	46.51	2582.0	0.42	51.28
62.4	1.38	78.99	692.6	0.27	58.40	1342.2	0.48	59.26	1963.0	0.10	46.94	2582.2	0.45	50.68
62.6	1.96	79.60	692.8	0.30	58.48	1342.4	0.42	59.92	1963.2	0.10	47.39	2582.4	0.36	50.18
62.8	1.82	80.38	693.0	0.35	58.66	1342.6	0.46	60.53	1963.4	0.12	47.76	2582.6	0.36	49.99
63.0	1.93	81.20	693.2	0.35	59.04	1342.8	0.47	61.27	1963.6	0.13	47.92	2582.8	0.42	50.14
63.2	2.14	81.99	693.4	0.30	59.66	1343.0	0.44	62.34	1963.8	0.11	47.81	2583.0	0.41	50.45
63.4	1.50	82.70	693.6	0.34	60.53	1343.2	0.47	63.85	1964.0	0.11	47.46	2583.2	0.34	50.81
63.6	1.66	83.36	693.8	0.30	61.51	1343.4	0.51	65.65	1964.2	0.12	46.99	2583.4	0.40	51.26
63.8	2.17	83.92	694.0	0.33	62.40	1343.6	0.56	67.40	1964.4	0.13	46.62	2583.6	0.30	51.95
64.0	1.52	84.16	694.2	0.35	63.01	1343.8	0.58	68.78	1964.6	0.14	46.46	2583.8	0.36	53.10
64.2	1.55	83.79	694.4	0.34	63.29	1344.0	0.49	69.66	1964.8	0.13	46.51	2584.0	0.30	54.76
64.4	1.16	82.59	694.6	0.32	63.25	1344.2	0.61	70.06	1965.0	0.14	46.68	2584.2	0.39	56.64
64.6	1.68	80.61	694.8	0.29	63.00	1344.4	0.53	70.08	1965.2	0.12	46.86	2584.4	0.44	58.22
64.8	1.46	78.33	695.0	0.31	62.77	1344.6	0.59	69.72	1965.4	0.12	47.02	2584.6	0.43	59.01
65.0	1.11	76.64	695.2	0.34	62.70	1344.8	0.56	69.00	1965.6	0.14	47.21	2584.8	0.42	58.83
65.2	1.36	76.41	695.4	0.26	62.83	1345.0	0.53	67.94	1965.8	0.11	47.51	2585.0	0.38	57.79
65.4	1.15	78.03	695.6	0.28	63.11	1345.2	0.52	66.72	1966.0	0.11	48.01	2585.2	0.41	56.27
65.6	1.14	81.26	695.8	0.32	63.50	1345.4	0.53	65.55	1966.2	0.11	48.72	2585.4	0.36	54.65
65.8	1.37	85.51	696.0	0.34	63.96	1345.6	0.51	64.49	1966.4	0.09	49.60	2585.6	0.39	53.19
66.0	1.43	90.07	696.2	0.35	64.37	1345.8	0.55	63.43	1966.6	0.11	50.53	2585.8	0.38	52.02
66.2	1.25	94.27	696.4	0.38	64.64	1346.0	0.46	62.24	1966.8	0.11	51.33	2586.0	0.32	51.24
66.4	0.99	97.76	696.6	0.27	64.62	1346.2	0.54	60.93	1967.0	0.11	51.86	2586.2	0.35	50.93
66.6	0.47	100.31	696.8	0.25	64.20	1346.4	0.42	59.71	1967.2	0.11	52.02	2586.4	0.36	51.16
66.8	1.33	101.82	697.0	0.32	63.35	1346.6	0.46	58.87	1967.4	0.11	51.85	2586.6	0.42	51.90
67.0	1.53	102.48	697.2	0.33	62.20	1346.8	0.48	58.56	1967.6	0.10	51.50	2586.8	0.32	52.99
67.2	0.97	102.68	697.4	0.28	60.90	1347.0	0.52	58.71	1967.8	0.10	51.09	2587.0	0.38	54.12
67.4	1.45	102.77	697.6	0.28	59.62	1347.2	0.48	59.05	1968.0	0.11	50.70	2587.2	0.38	54.87
67.6	1.43	102.95	697.8	0.27	58.48	1347.4	0.50	59.32	1968.2	0.10	50.30	2587.4	0.42	54.94
67.8	1.36	103.14	698.0	0.30	57.51	1347.6	0.52	59.39	1968.4	0.11	49.85	2587.6	0.44	54.26
68.0	1.70	103.06	698.2	0.31	56.70	1347.8	0.49	59.32	1968.6	0.11	49.34	2587.8	0.36	53.01
68.2	1.18	102.55	698.4	0.34	56.08	1348.0	0.52	59.39	1968.8	0.10	48.81	2		

70.0	0.95	106.35	700.2	0.25	56.99	1349.8	0.74	71.18	1970.6	0.10	45.26	2589.8	0.35	67.84
70.2	1.60	106.40	700.4	0.25	57.16	1350.0	0.56	67.57	1970.8	0.11	45.26	2590.0	0.34	60.51
70.4	1.98	106.59	700.6	0.23	57.56	1350.2	0.66	64.84	1971.0	0.11	45.43	2590.2	0.40	54.61
70.6	1.82	106.59	700.8	0.24	58.18	1350.4	0.60	63.35	1971.2	0.10	45.73	2590.4	0.43	51.12
70.8	1.94	106.11	701.0	0.26	58.90	1350.6	0.48	62.96	1971.4	0.09	46.08	2590.6	0.39	49.74
71.0	1.84	105.15	701.2	0.27	59.60	1350.8	0.54	63.28	1971.6	0.11	46.42	2590.8	0.51	49.38
71.2	2.15	103.73	701.4	0.30	60.18	1351.0	0.52	64.07	1971.8	0.10	46.71	2591.0	0.46	49.26
71.4	2.24	101.86	701.6	0.28	60.59	1351.2	0.55	65.19	1972.0	0.08	46.92	2591.2	0.57	49.17
71.6	2.48	100.02	701.8	0.28	60.84	1351.4	0.56	66.52	1972.2	0.10	47.04	2591.4	0.67	49.13
71.8	2.51	98.84	702.0	0.28	60.89	1351.6	0.56	67.85	1972.4	0.09	47.05	2591.6	0.49	49.15
72.0	1.56	99.21	702.2	0.24	60.69	1351.8	0.54	68.92	1972.6	0.11	46.96	2591.8	0.54	49.20
72.2	1.87	101.75	702.4	0.26	60.13	1352.0	0.40	69.57	1972.8	0.10	46.76	2592.0	0.43	49.29
72.4	1.63	106.05	702.6	0.25	59.25	1352.2	0.54	69.77	1973.0	0.11	46.47	2592.2	0.36	49.41
72.6	1.74	110.74	702.8	0.22	58.19	1352.4	0.41	69.57	1973.2	0.09	46.08	2592.4	0.43	49.53
72.8	2.09	113.97	703.0	0.26	57.14	1352.6	0.50	69.11	1973.4	0.09	45.59	2592.6	0.42	49.65
73.0	1.97	114.58	703.2	0.23	56.24	1352.8	0.58	68.65	1973.6	0.10	45.02	2592.8	0.33	49.75
73.2	1.24	112.63	703.4	0.23	55.52	1353.0	0.60	68.41	1973.8	0.07	44.39	2593.0	0.45	49.78
73.4	1.48	109.38	703.6	0.22	54.94	1353.2	0.54	68.44	1974.0	0.07	43.77	2593.2	0.43	49.71
73.6	1.50	106.48	703.8	0.25	54.43	1353.4	0.59	68.57	1974.2	0.08	43.25	2593.4	0.52	49.57
73.8	1.77	105.24	704.0	0.24	54.02	1353.6	0.56	68.42	1974.4	0.09	42.89	2593.6	0.49	49.45
74.0	1.30	105.80	704.2	0.21	53.76	1353.8	0.51	67.62	1974.6	0.09	42.74	2593.8	0.48	49.44
74.2	1.90	107.64	704.4	0.21	53.74	1354.0	0.51	66.00	1974.8	0.08	42.76	2594.0	0.46	49.61
74.4	2.08	110.05	704.6	0.23	53.99	1354.2	0.50	63.78	1975.0	0.08	42.90	2594.2	0.49	49.94
74.6	2.02	112.33	704.8	0.22	54.48	1354.4	0.42	61.47	1975.2	0.08	43.09	2594.4	0.50	50.31
74.8	1.84	114.31	705.0	0.20	55.11	1354.6	0.33	59.66	1975.4	0.09	43.31	2594.6	0.52	50.60
75.0	1.77	116.08	705.2	0.21	55.77	1354.8	0.41	58.77	1975.6	0.09	43.54	2594.8	0.57	50.79
75.2	1.67	117.69	705.4	0.20	56.33	1355.0	0.39	58.95	1975.8	0.08	43.76	2595.0	0.40	50.95
75.4	1.53	119.12	705.6	0.21	56.65	1355.2	0.48	60.03	1976.0	0.08	43.90	2595.2	0.46	51.22
75.6	0.99	120.25	705.8	0.27	56.63	1355.4	0.51	61.66	1976.2	0.08	43.93	2595.4	0.50	51.67
75.8	1.66	120.78	706.0	0.25	56.35	1355.6	0.51	63.49	1976.4	0.08	43.84	2595.6	0.40	52.21
76.0	2.07	120.38	706.2	0.22	55.96	1355.8	0.69	65.29	1976.6	0.09	43.69	2595.8	0.43	52.58
76.2	1.39	119.04	706.4	0.20	55.67	1356.0	0.63	66.87	1976.8	0.09	43.57	2596.0	0.40	52.56
76.4	2.45	117.06	706.6	0.23	55.59	1356.2	0.63	68.13	1977.0	0.06	43.54	2596.2	0.41	52.07
76.6	2.42	114.87	706.8	0.21	55.72	1356.4	0.58	69.04	1977.2	0.06	43.59	2596.4	0.35	51.26
76.8	1.99	112.88	707.0	0.28	55.88	1356.6	0.63	69.56	1977.4	0.08	43.66	2596.6	0.39	50.51
77.0	2.66	111.46	707.2	0.25	55.90	1356.8	0.62	69.65	1977.6	0.07	43.62	2596.8	0.34	50.22
77.2	2.26	110.67	707.4	0.24	55.68	1357.0	0.69	69.36	1977.8	0.08	43.62	2597.0	0.43	50.53
77.4	2.10	110.17	707.6	0.24	55.28	1357.2	0.74	68.76	1978.0	0.05	43.91	2597.2	0.38	51.25
77.6	2.29	109.73	707.8	0.25	54.82	1357.4	0.58	67.96	1978.2	0.07	44.67	2597.4	0.39	51.99
77.8	2.60	109.29	708.0	0.23	54.42	1357.6	0.61	67.06	1978.4	0.06	45.82	2597.6	0.41	52.34
78.0	2.25	108.83	708.2	0.22	54.16	1357.8	0.58	66.14	1978.6	0.06	46.99	2597.8	0.40	52.19
78.2	1.13	108.45	708.4	0.27	54.16	1358.0	0.48	65.20	1978.8	0.06	47.65	2598.0	0.33	51.70
78.4	1.47	108.11	708.6	0.35	54.56	1358.2	0.40	64.28	1979.0	0.06	47.43	2598.2	0.34	51.19
78.6	1.71	107.62	708.8	0.28	55.43	1358.4	0.48	63.53	1979.2	0.07	46.40	2598.4	0.30	50.93
78.8	1.76	106.98	709.0	0.29	56.66	1358.6	0.54	63.15	1979.4	0.08	44.99	2598.6	0.31	51.00
79.0	1.69	106.36	709.2	0.36	58.00	1358.8	0.55	63.23	1979.6	0.07	43.72	2598.8	0.33	51.31
79.2	0.95	106.06	709.4	0.34	59.08	1359.0	0.61	63.84	1979.8	0.06	42.95	2599.0	0.29	51.72
79.4	0.43	106.42	709.6	0.37	59.60	1359.2	0.52	64.88	1980.0	0.06	42.80	2599.2	0.29	52.08
79.6	0.71	107.41	713.2	0.29	59.55	1359.4	0.47	66.08	1980.2	0.06	43.03	2599.4	0.26	52.30
79.8	1.25	108.51	713.4	0.29	59.17	1359.6	0.49	67.15	1980.4	0.06	43.34	2599.6	0.33	52.31
80.0	1.43	109.04	713.6	0.35	58.76	1359.8	0.55	67.93	1980.6	0.07	43.58	2599.8	0.33	52.09
80.2	1.91	108.62	713.8	0.36	58.57	1360.0	0.52	68.43	1980.8	0.08	43.65	2600.0	0.31	51.74
80.4	1.72	107.40	714.0	0.33	58.68	1360.2	0.52	68.79	1981.0	0.07	43.50	2600.2	0.32	51.67
80.6	1.54	105.85	714.2	0.36	58.97	1360.4	0.49	69.19	1981.2	0.07	43.15	2600.4	0.31	52.26
80.8	2.26	104.56	714.4	0.36	59.21	1360.6	0.46	69.83	1981.4	0.05	42.66	2600.6	0.23	53.57
81.0	2.14	103.81	714.6	0.39	59.38	1360.8	0.48	70.82	1981.6	0.05	42.13	2600.8	0.25	55.17
81.2	2.05	103.40	714.8	0.35	59.47	1361.0	0.56	72.03	1981.8	0.05	41.67	2601.0	0.27	56.32
81.4	2.76	103.13	715.0	0.42	59.46	1361.2	0.52	73.18	1982.0	0.04	41.36	2601.2	0.20	56.33
81.6	1.91	103.03	715.2	0.38	59.35	1361.4	0.49	73.91	1982.2	0.05	41.28	2601.4	0.30	54.99
81.8	2.62	102.98	715.4	0.37	59.11	1361.6	0.46	74.02	1982.4	0.05	41.46	2601.6	0.23	52.75
82.0	2.68	102.82	715.6	0.22	58.70	1361.8	0.49	73.50	1982.6	0.04	41.83	2601.8	0.20	50.40
82.2	2.77	102.40	715.8	0.36	58.08	1362.0	0.52	72.65	1982.8	0.05	42.29	2602.0	0.27	48.61
82.4	2.18	101.52	716.0	0.36	57.37	1362.2	0.52	71.86	1983.0	0.05	42.67	2602.2	0.25	47.84
82.6	1.71	100.19	716.2	0.34	56.70	1362.4	0.42	71.34	1983.2	0.05	42.87	2602.4	0.25	48.18
82.8	0.67	98.74	716.4	0.28	56.21	1362.6	0.47	71.09	1983.4	0.05	42.87	2602.6	0.24	49.27
83.0	0.42	97.62	716.6	0.22	56.10	1362.8	0.40	70.84	1983.6	0.05	42.78	2602.8	0.23	50.59
83.2	0.69	97.11	716.8	0.40	56.46	1363.0	0.40	70.26	1983.8	0.05	42.73	2603.0	0.19	51.65
83.4	0.39	97.20	717.0	0.32	57.22	1363.2	0.46	69.12	1984.0	0.06	42.76	2603.2	0.16	52.38
83.6	0.68	97.65	717.2	0.36	58.14	1363.4	0.42	67.42	1984.2	0.05	42.84	2603.4	0.22	53.33
83.8	0.75	98.06	717.4	0.33	59.02	1363.6	0.38	65.36	1984.4	0.05	42.86	2603.6	0.21	55.25
84.0	0.70	98.21	717.6	0.36	59.80	1363.8	0.36	63.19	1984.6	0.05	42.75	2603.8	0.21	58.40
84.2	1.14	98.11	717.8	0.32	60.46	1364.0	0.37	61.22	1984.8	0.05	42.49	2604.0	0.22	62.17
84.4	2.53	97.88	718.0	0.35	61.11	1364.2	0.32							

86.2	2.37	99.85	719.8	0.35	67.59	1366.0	0.34	61.67	1986.8	0.04	44.37	2606.0	0.12	45.87
86.4	2.29	98.04	720.0	0.41	68.24	1366.2	0.34	61.81	1987.0	0.04	45.12	2606.2	0.13	45.83
86.6	2.26	96.42	720.2	0.31	68.26	1366.4	0.39	62.36	1987.2	0.04	45.68	2606.4	0.15	45.60
86.8	1.98	95.53	720.4	0.35	67.70	1366.6	0.42	63.09	1987.4	0.03	45.98	2606.6	0.15	45.12
87.0	1.49	95.57	720.6	0.30	66.77	1366.8	0.37	63.71	1987.6	0.05	45.99	2606.8	0.14	44.45
87.2	1.46	96.34	720.8	0.36	65.88	1367.0	0.41	63.92	1987.8	0.04	45.73	2607.0	0.14	43.73
87.4	1.37	97.41	721.0	0.35	65.38	1367.2	0.38	63.85	1988.0	0.04	45.22	2607.2	0.13	43.15
87.6	2.08	98.15	721.2	0.36	65.48	1367.4	0.37	64.08	1988.2	0.03	44.49	2607.4	0.10	42.84
87.8	1.42	98.03	721.4	0.34	66.13	1367.6	0.37	65.16	1988.4	0.03	43.61	2607.6	0.12	42.80
88.0	2.32	96.86	721.6	0.35	66.95	1367.8	0.34	67.23	1988.6	0.04	42.64	2607.8	0.11	42.90
88.2	2.12	94.88	721.8	0.30	67.41	1368.0	0.38	70.16	1988.8	0.04	41.65	2608.0	0.11	42.96
88.4	2.03	92.79	722.0	0.31	67.02	1368.2	0.27	73.55	1989.0	0.04	40.77	2608.2	0.15	42.87
88.6	1.47	91.40	722.2	0.35	65.67	1368.4	0.32	76.62	1989.2	0.04	40.07	2608.4	0.16	42.61
88.8	1.14	91.26	722.4	0.33	63.58	1368.6	0.36	78.54	1989.4	0.04	39.58	2608.6	0.10	42.24
89.0	2.12	92.27	722.6	0.33	61.20	1368.8	0.46	78.77	1989.6	0.03	39.31	2608.8	0.10	41.89
89.2	2.74	93.89	722.8	0.38	59.04	1369.0	0.37	77.14	1989.8	0.03	39.23	2609.0	0.10	41.65
89.4	1.81	95.38	723.0	0.34	57.44	1369.2	0.53	73.88	1990.0	0.04	39.33	2609.2	0.11	41.55
89.6	2.78	96.27	723.2	0.38	56.52	1369.4	0.38	69.72	1990.2	0.04	39.61	2609.4	0.12	41.57
89.8	3.08	96.45	723.4	0.32	56.18	1369.6	0.42	65.66	1990.4	0.04	40.06	2609.6	0.11	41.68
90.0	2.75	96.22	723.6	0.33	56.19	1369.8	0.41	62.49	1990.6	0.04	40.62	2609.8	0.11	41.87
90.2	2.66	95.93	723.8	0.34	56.29	1370.0	0.53	60.74	1990.8	0.04	41.21	2610.0	0.12	42.17
90.4	2.96	95.84	724.0	0.36	56.31	1370.2	0.41	60.52	1991.0	0.04	41.75	2610.2	0.11	42.56
90.6	2.70	96.07	724.2	0.39	56.21	1370.4	0.50	61.31	1991.2	0.03	42.25	2610.4	0.11	42.95
90.8	2.92	96.49	724.4	0.36	56.11	1370.6	0.56	62.29	1991.4	0.04	42.74	2610.6	0.13	43.19
91.0	3.04	96.83	724.6	0.32	56.20	1370.8	0.58	62.95	1991.6	0.04	43.26	2610.8	0.13	43.35
91.2	2.95	96.83	724.8	0.35	56.62	1371.0	0.52	63.12	1991.8	0.05	43.80	2611.0	0.13	43.74
91.4	3.03	96.42	725.0	0.34	57.31	1371.2	0.53	62.78	1992.0	0.04	44.33	2611.2	0.12	44.67
91.6	3.13	95.68	725.2	0.36	58.00	1371.4	0.66	62.04	1992.2	0.04	44.78	2611.4	0.14	46.26
91.8	3.13	94.81	725.4	0.35	58.36	1371.6	0.51	61.11	1992.4	0.05	45.06	2611.6	0.11	48.21
92.0	2.70	94.05	725.6	0.39	58.19	1371.8	0.59	60.17	1992.6	0.05	45.16	2611.8	0.14	49.97
92.2	3.09	93.48	725.8	0.34	57.60	1372.0	0.55	59.29	1992.8	0.04	45.09	2612.0	0.17	50.99
92.4	3.06	93.07	726.0	0.34	56.87	1372.2	0.47	58.59	1993.0	0.05	44.91	2612.2	0.16	51.03
92.6	2.61	92.73	726.2	0.41	56.39	1372.4	0.46	58.25	1993.2	0.05	44.72	2612.4	0.13	50.27
92.8	2.64	92.38	726.4	0.35	56.32	1372.6	0.46	58.33	1993.4	0.04	44.65	2612.6	0.14	49.18
93.0	2.81	92.04	726.6	0.41	56.63	1372.8	0.52	58.83	1993.6	0.05	44.83	2612.8	0.16	48.19
93.2	3.10	91.86	726.8	0.40	57.10	1373.0	0.62	59.57	1993.8	0.06	45.37	2613.0	0.12	47.62
93.4	2.64	91.92	727.0	0.43	57.49	1373.2	0.58	60.32	1994.0	0.05	46.28	2613.2	0.15	47.61
93.6	2.48	92.15	727.2	0.39	57.70	1373.4	0.66	60.97	1994.2	0.06	47.49	2613.4	0.15	48.19
93.8	3.57	92.43	727.4	0.40	57.79	1373.6	0.58	61.56	1994.4	0.08	48.83	2613.6	0.18	49.31
94.0	3.46	92.57	727.6	0.45	57.95	1373.8	0.55	62.27	1994.6	0.09	50.17	2613.8	0.17	50.81
94.2	2.66	92.41	727.8	0.42	58.32	1374.0	0.63	63.29	1994.8	0.10	51.37	2614.0	0.31	52.43
94.4	2.96	91.97	728.0	0.43	59.20	1374.2	0.56	64.62	1995.0	0.10	52.29	2614.2	0.30	53.84
94.6	2.72	91.48	728.2	0.45	60.96	1374.4	0.56	66.08	1995.2	0.12	52.75	2614.4	0.28	54.85
94.8	2.78	91.24	728.4	0.48	63.83	1374.6	0.64	67.28	1995.4	0.13	52.66	2614.6	0.27	55.42
95.0	2.54	91.49	728.6	0.45	67.70	1374.8	0.65	67.82	1995.6	0.11	52.09	2614.8	0.31	55.56
95.2	2.31	92.30	728.8	0.48	72.00	1375.0	0.73	67.56	1995.8	0.13	51.34	2615.0	0.34	55.25
95.4	2.67	93.47	729.0	0.49	75.87	1375.2	0.65	66.65	1996.0	0.07	50.86	2615.2	0.30	54.41
95.6	2.74	94.60	729.2	0.42	78.62	1375.4	0.55	65.65	1996.2	0.07	50.99	2615.4	0.31	53.06
95.8	2.26	95.31	729.4	0.57	80.00	1375.6	0.53	65.17	1996.4	0.09	51.84	2615.6	0.30	51.40
96.0	2.69	95.53	729.6	0.62	80.24	1375.8	0.60	65.52	1996.6	0.13	53.24	2615.8	0.29	49.80
96.2	2.61	95.31	729.8	0.68	79.74	1376.0	0.67	66.54	1996.8	0.15	54.87	2616.0	0.23	48.67
96.4	2.47	94.82	730.0	0.60	78.81	1376.2	0.56	67.62	1997.0	0.14	56.48	2616.2	0.23	48.18
96.6	1.90	94.22	730.2	0.78	77.58	1376.4	0.70	67.99	1997.2	0.15	58.03	2616.4	0.27	48.23
96.8	2.72	93.68	730.4	0.67	75.97	1376.6	0.75	67.27	1997.4	0.14	59.72	2616.6	0.23	48.54
97.0	2.44	93.21	730.6	0.64	73.96	1376.8	0.72	65.66	1997.6	0.15	61.73	2616.8	0.27	48.80
97.2	2.60	92.85	730.8	0.43	71.71	1377.0	0.61	63.90	1997.8	0.14	63.96	2617.0	0.34	48.87
97.4	2.38	92.66	731.0	0.42	69.40	1377.2	0.52	62.85	1998.0	0.15	66.00	2617.2	0.33	48.88
97.6	2.47	92.68	731.2	0.50	67.18	1377.4	0.53	63.02	1998.2	0.13	67.29	2617.4	0.35	48.98
97.8	2.67	93.02	731.4	0.56	65.09	1377.6	0.57	64.47	1998.4	0.11	67.39	2617.6	0.26	49.21
98.0	2.36	93.95	731.6	0.60	63.20	1377.8	0.57	66.81	1998.6	0.14	66.29	2617.8	0.28	49.53
98.2	2.23	95.68	731.8	0.46	61.70	1378.0	0.77	69.44	1998.8	0.14	64.39	2618.0	0.34	49.78
98.4	1.59	98.03	732.0	0.52	60.83	1378.2	1.22	71.81	1999.0	0.14	62.36	2618.2	0.37	49.82
98.6	2.03	100.36	732.2	0.53	60.68	1378.4	1.37	73.54	1999.2	0.13	60.80	2618.4	0.34	49.70
98.8	1.81	101.91	732.4	0.46	61.15	1378.6	1.72	74.34	1999.4	0.15	60.05	2618.6	0.34	49.57
99.0	2.48	102.15	732.6	0.52	61.95	1378.8	1.68	74.04	1999.6	0.14	60.05	2618.8	0.36	49.59
99.2	2.47	100.74	732.8	0.56	62.78	1379.0	1.61	72.69	1999.8	0.14	60.46	2619.0	0.36	49.82
99.4	2.29	97.64	733.0	0.49	63.59	1379.2	1.00	70.55	2000.0	0.12	61.03	2619.2	0.34	50.27
99.6	2.29	93.01	733.2	0.49	64.54	1379.4	1.01	68.03	2000.2	0.11	61.56	2619.4	0.37	50.89
99.8	2.06	87.06	733.4	0.60	65.81	1379.6	1.02	65.57	2000.4	0.12	61.86	2619.6	0.28	51.53
100.0	2.39	80.23	733.6	0.52	67.55	1379.8	0.91	63.52	2000.6	0.11	61.67	2619.8	0.32	52.02
101.4	0.58	73.21	733.8	0.49	69.61	1380.0	0.96	62.04	2000.8	0.10	60.76	2620.0	0.33	52.25
101.6	0.63	66.91	734.0	0.62	71.57	1380.2	0.52	61.17	2001.0	0.14	59.03	2620.2	0.29	52.10
101.8	0.70	62.11	734.2	0.56	72.91	1380.4	0.53	60.98	2001.2	0.11	56.62	2620.4	0.34	

103.6	0.52	54.61	736.0	0.53	63.86	1382.2	0.74	82.83	2003.0	0.09	49.43	2622.2	0.30	52.12
103.8	0.39	54.06	736.2	0.57	65.68	1382.4	1.22	83.08	2003.2	0.08	50.04	2622.4	0.36	52.85
104.0	0.52	54.01	736.4	0.87	68.93	1382.6	1.76	82.65	2003.4	0.09	50.31	2622.6	0.39	53.23
104.2	0.59	54.50	736.6	1.06	73.05	1382.8	2.16	81.99	2003.6	0.07	49.94	2622.8	0.36	53.25
104.4	0.58	55.47	736.8	1.47	77.05	1383.0	1.39	81.41	2003.8	0.06	48.86	2623.0	0.29	53.16
104.6	0.70	56.66	737.0	1.33	79.79	1383.2	3.16	81.03	2004.0	0.06	47.27	2623.2	0.34	53.39
104.8	0.47	57.75	737.2	1.17	80.47	1383.4	3.07	80.66	2004.2	0.05	45.50	2623.4	0.34	54.16
105.0	0.59	58.51	737.4	1.15	78.83	1383.6	4.00	80.07	2004.4	0.06	43.92	2623.6	0.33	55.43
105.2	0.61	58.76	737.6	0.78	75.25	1383.8	3.74	79.00	2004.6	0.05	42.77	2623.8	0.33	56.77
105.4	0.70	58.38	737.8	0.72	70.67	1384.0	1.51	77.41	2004.8	0.06	42.13	2624.0	0.31	57.70
105.6	0.53	57.47	738.0	0.61	66.16	1384.2	1.35	75.58	2005.0	0.06	41.96	2624.2	0.29	57.86
105.8	0.55	56.33	738.2	0.59	62.51	1384.4	1.31	73.91	2005.2	0.06	42.13	2624.4	0.33	57.24
106.0	0.69	55.34	738.4	0.66	60.05	1384.6	1.21	72.67	2005.4	0.07	42.48	2624.6	0.28	56.12
106.2	0.55	54.80	738.6	0.60	58.72	1384.8	0.99	71.85	2005.6	0.08	42.83	2624.8	0.25	54.86
106.4	0.62	54.86	738.8	0.64	58.14	1385.0	0.93	71.30	2005.8	0.07	43.05	2625.0	0.33	53.73
106.6	0.74	55.44	739.0	0.64	57.92	1385.2	0.94	70.85	2006.0	0.06	43.08	2625.2	0.33	52.82
106.8	0.63	56.22	739.2	0.55	57.87	1385.4	0.90	70.55	2006.2	0.08	42.93	2625.4	0.36	52.08
107.0	0.78	56.86	739.4	0.55	57.92	1385.6	0.94	70.57	2006.4	0.08	42.70	2625.6	0.34	51.37
107.2	0.72	57.16	739.6	0.58	58.05	1385.8	0.65	71.07	2006.6	0.08	42.49	2625.8	0.34	50.61
107.4	0.72	57.06	739.8	0.54	58.25	1386.0	0.89	72.00	2006.8	0.08	42.39	2626.0	0.33	49.74
107.6	0.65	56.68	740.0	0.61	58.57	1386.2	0.98	73.09	2007.0	0.06	42.38	2626.2	0.35	48.82
107.8	0.58	56.24	740.2	0.65	59.03	1386.4	1.16	73.97	2007.2	0.07	42.42	2626.4	0.27	48.00
108.0	0.64	55.90	740.4	0.62	59.58	1386.6	0.97	74.38	2007.4	0.08	42.47	2626.6	0.25	47.54
108.2	0.72	55.76	740.6	0.57	60.19	1386.8	0.84	74.29	2007.6	0.08	42.60	2626.8	0.22	47.69
108.4	0.66	55.91	740.8	0.59	60.84	1387.0	1.33	73.96	2007.8	0.09	42.90	2627.0	0.23	48.52
108.6	0.61	56.31	741.0	0.62	61.59	1387.2	0.73	73.68	2008.0	0.08	43.47	2627.2	0.35	49.82
108.8	0.52	56.86	741.2	0.57	62.62	1387.4	0.60	73.62	2008.2	0.09	44.32	2627.4	0.35	51.25
109.0	0.72	57.39	741.4	0.51	64.10	1387.6	1.60	73.76	2008.4	0.09	45.38	2627.6	0.30	52.42
109.2	0.69	57.73	741.6	0.67	66.06	1387.8	1.47	73.95	2008.6	0.09	46.50	2627.8	0.36	53.11
109.4	0.69	57.81	741.8	0.67	68.26	1388.0	0.60	74.11	2008.8	0.09	47.53	2628.0	0.37	53.29
109.6	0.61	57.62	742.0	0.57	70.25	1388.2	1.06	74.26	2009.0	0.11	48.40	2628.2	0.33	53.09
109.8	0.66	57.39	742.2	0.65	71.59	1388.4	0.98	74.55	2009.2	0.13	49.08	2628.4	0.35	52.68
110.0	0.62	57.41	742.4	0.47	72.02	1388.6	1.39	75.11	2009.4	0.13	49.58	2628.6	0.33	52.20
110.2	0.67	57.90	742.6	0.48	71.61	1388.8	0.98	76.11	2009.6	0.13	49.93	2628.8	0.35	51.70
110.4	0.78	58.90	742.8	0.57	70.71	1389.0	1.35	77.66	2009.8	0.13	50.10	2629.0	0.30	51.22
110.6	0.71	60.18	743.0	0.55	69.76	1389.2	2.41	79.62	2010.0	0.12	50.06	2629.2	0.25	50.81
110.8	0.77	61.38	743.2	0.58	69.02	1389.4	1.43	81.64	2010.2	0.13	49.85	2629.4	0.33	50.60
111.0	0.68	62.16	743.4	0.49	68.54	1389.6	1.63	83.31	2010.4	0.14	49.48	2629.6	0.30	51.00
111.2	0.75	62.36	743.6	0.56	68.38	1389.8	0.70	84.22	2010.6	0.13	49.02	2629.8	0.34	52.37
111.4	0.65	62.07	743.8	0.61	68.76	1390.0	0.78	84.14	2010.8	0.10	48.51	2630.0	0.35	54.64
111.6	0.63	61.50	744.0	0.62	69.93	1390.2	1.72	83.23	2011.0	0.13	47.99	2630.2	0.45	57.31
111.8	0.67	60.88	744.2	0.47	71.94	1390.4	1.67	82.02	2011.2	0.11	47.54	2630.4	0.40	59.51
112.0	0.62	60.40	744.4	0.64	74.48	1390.6	1.47	81.04	2011.4	0.15	47.32	2630.6	0.26	60.47
112.2	0.65	60.10	744.6	0.69	76.80	1390.8	1.69	80.58	2011.6	0.14	47.54	2630.8	0.40	59.85
112.4	0.49	59.94	744.8	0.70	77.97	1391.0	1.67	80.68	2011.8	0.11	48.37	2631.0	0.38	58.03
112.6	0.64	59.89	745.0	0.66	77.35	1391.2	1.81	81.07	2012.0	0.13	49.87	2631.2	0.41	55.81
112.8	0.47	60.07	745.2	0.56	74.91	1391.4	1.70	81.40	2012.2	0.15	51.93	2631.4	0.43	53.94
113.0	0.53	60.60	745.4	0.57	71.24	1391.6	1.67	81.45	2012.4	0.16	54.29	2631.6	0.50	52.79
113.2	0.74	61.53	745.6	0.64	67.34	1391.8	2.76	81.27	2012.6	0.16	56.72	2631.8	0.49	52.29
113.4	0.82	62.77	745.8	0.46	64.24	1392.0	3.03	80.88	2012.8	0.17	59.07	2632.0	0.48	52.09
113.6	0.77	63.99	746.0	0.41	62.58	1392.2	3.14	80.48	2013.0	0.19	61.19	2632.2	0.49	51.86
113.8	0.79	64.69	746.2	0.50	62.40	1392.4	2.53	80.44	2013.2	0.19	62.94	2632.4	0.53	51.59
114.0	0.57	64.53	746.4	0.48	63.34	1392.6	2.50	81.05	2013.4	0.19	64.10	2632.6	0.45	51.34
114.2	0.63	63.51	746.6	0.57	64.83	1392.8	2.20	82.37	2013.6	0.20	64.47	2632.8	0.57	51.13
114.4	0.63	61.93	746.8	0.56	66.34	1393.0	2.24	84.21	2013.8	0.17	63.86	2633.0	0.36	50.93
114.6	0.64	60.30	747.0	0.56	67.50	1393.2	1.15	86.15	2014.0	0.15	62.33	2633.2	0.48	50.73
114.8	0.54	59.08	747.2	0.55	68.20	1393.4	1.04	87.58	2014.2	0.15	60.22	2633.4	0.53	50.56
115.0	0.66	58.48	747.4	0.57	68.50	1393.6	0.99	88.01	2014.4	0.17	57.95	2633.6	0.40	50.51
115.2	0.61	58.43	747.6	0.62	68.52	1393.8	1.24	87.34	2014.6	0.17	55.92	2633.8	0.46	50.67
115.4	0.78	58.74	747.8	0.62	68.40	1394.0	2.76	85.79	2014.8	0.16	54.40	2634.0	0.48	51.09
115.6	0.64	59.24	748.0	0.60	68.34	1394.2	2.00	83.85	2015.0	0.16	53.45	2634.2	0.52	51.78
115.8	0.71	59.84	748.2	0.61	68.56	1394.4	2.80	82.12	2015.2	0.16	52.90	2634.4	0.46	52.64
116.0	0.66	60.53	748.4	0.63	69.12	1394.6	2.96	81.08	2015.4	0.17	52.49	2634.6	0.58	53.49
116.2	0.65	61.21	748.6	0.52	69.94	1394.8	1.86	80.83	2015.6	0.17	51.98	2634.8	0.48	54.16
116.4	0.78	61.69	748.8	0.56	70.87	1395.0	2.74	81.20	2015.8	0.15	51.25	2635.0	0.54	54.62
116.6	0.58	61.79	749.0	0.57	71.62	1395.2	3.48	81.86	2016.0	0.16	50.37	2635.2	0.60	54.95
116.8	0.87	61.44	749.2	0.57	71.91	1395.4	2.93	82.41	2016.2	0.14	49.54	2635.4	0.47	55.35
117.0	0.63	60.72	749.4	0.60	71.65	1395.6	3.72	82.57	2016.4	0.14	48.89	2635.6	0.53	56.02
117.2	0.66	59.82	749.6	0.60	71.00	1395.8	3.86	82.35	2016.6	0.13	48.51	2635.8	0.72	57.00
117.4	0.75	58.92	749.8	0.60	70.22	1396.0	3.58	81.87	2016.8	0.15	48.41	2636.0	0.92	58.12
117.6	0.68	58.14	750.0	0.52	69.54	1396.2	3.86	81.27	2017.0	0.15	48.52	2636.2	0.87	59.09
117.8	0.66	57.65	750.2	0.65	69.07	1396.4	3.97	80.69	2017.2	0.16	48.77	2636.4	0.74	59.66
118.0	0.77	57.63	750.4	0.58	68.71	1396.6								

119.8	0.68	60.30	752.2	0.51	67.82	1398.4	3.88	82.29	2019.2	0.14	48.83	2638.4	0.61	57.37
120.0	0.52	60.44	752.4	0.53	68.61	1398.6	4.47	82.12	2019.4	0.19	49.78	2638.6	1.06	56.84
120.2	0.58	60.36	752.6	0.57	69.13	1398.8	4.27	81.54	2019.6	0.20	50.40	2638.8	0.84	56.40
120.4	0.56	60.08	752.8	0.54	69.28	1399.0	4.18	80.65	2019.8	0.19	50.59	2639.0	0.98	56.15
120.6	0.61	59.88	753.0	0.48	69.04	1399.2	5.01	79.75	2020.0	0.18	50.36	2639.2	0.79	56.11
120.8	0.62	60.03	753.2	0.60	68.43	1399.4	4.86	79.14	2020.2	0.20	49.85	2639.4	0.82	56.24
121.0	0.61	60.64	753.4	0.47	67.56	1399.6	4.27	78.97	2020.4	0.19	49.22	2639.6	0.81	56.43
121.2	0.54	61.62	753.6	0.46	66.65	1399.8	3.84	79.24	2020.6	0.18	48.59	2639.8	0.94	56.63
121.4	0.60	62.63	753.8	0.54	65.94	1400.0	1.71	79.83	2020.8	0.15	48.05	2640.0	0.79	56.74
121.6	0.60	63.27	754.0	0.57	65.55	1400.2	2.30	80.69	2021.0	0.16	47.65	2640.2	0.67	56.73
121.8	0.57	63.30	754.2	0.49	65.50	1400.4	1.57	82.29	2021.2	0.17	47.43	2640.4	1.02	56.67
122.0	0.53	62.63	754.4	0.54	65.78	1400.6	2.10	85.14	2021.4	0.16	47.39	2640.6	0.83	56.63
122.2	0.64	61.36	754.6	0.62	66.29	1400.8	2.00	89.21	2021.6	0.17	47.53	2640.8	1.05	56.70
122.4	0.60	59.82	754.8	0.42	66.80	1401.0	3.44	94.02	2021.8	0.18	47.85	2641.0	0.94	56.90
122.6	0.63	58.43	755.0	0.56	67.15	1401.2	0.81	98.44	2022.0	0.18	48.40	2641.2	0.85	57.14
122.8	0.61	57.55	755.2	0.42	67.28	1401.4	3.34	101.14	2022.2	0.25	49.18	2641.4	0.94	57.30
123.0	0.63	57.38	755.4	0.55	67.27	1401.6	3.43	101.26	2022.4	0.25	50.13	2641.6	0.94	57.27
123.2	0.41	57.92	755.6	0.45	67.27	1401.8	3.00	98.96	2022.6	0.22	51.09	2641.8	0.76	57.03
123.4	0.49	58.93	755.8	0.45	67.41	1402.0	0.86	95.12	2022.8	0.29	51.83	2642.0	0.81	56.64
123.6	0.52	60.05	756.0	0.56	67.88	1402.2	2.88	90.81	2023.0	0.25	52.20	2642.2	0.88	56.21
123.8	0.49	60.90	756.2	0.46	68.74	1402.4	1.85	87.03	2023.2	0.19	52.32	2642.4	0.85	55.89
124.0	0.61	61.21	756.4	0.48	69.83	1402.6	2.84	84.33	2023.4	0.21	52.52	2642.6	0.81	55.83
124.2	0.63	61.00	756.6	0.70	70.88	1402.8	2.79	82.66	2023.6	0.14	53.19	2642.8	0.77	56.07
124.4	0.67	60.46	756.8	0.61	71.58	1403.0	1.97	81.70	2023.8	0.22	54.67	2643.0	0.70	56.69
124.6	0.65	59.82	757.0	0.58	71.76	1403.2	2.87	81.27	2024.0	0.17	57.05	2643.2	0.70	57.69
124.8	0.58	59.38	757.2	0.49	71.43	1403.4	2.58	81.06	2024.2	0.63	60.12	2643.4	0.49	58.89
125.0	0.63	59.26	757.4	0.66	70.79	1403.6	3.10	80.82	2024.4	0.86	63.44	2643.6	0.56	60.03
125.2	0.64	59.36	757.6	0.47	70.00	1403.8	3.00	80.58	2024.6	0.70	66.55	2643.8	0.53	60.87
125.4	0.60	59.51	757.8	0.54	69.12	1404.0	2.97	80.39	2024.8	1.01	69.06	2644.0	0.53	61.32
125.6	0.54	59.54	758.0	0.58	68.21	1404.2	2.88	80.35	2025.0	0.90	70.70	2644.2	0.59	61.42
125.8	0.62	59.34	758.2	0.55	67.26	1404.4	2.60	80.51	2025.2	1.28	71.34	2644.4	0.72	61.32
126.0	0.60	58.95	758.4	0.54	66.32	1404.6	2.61	80.91	2025.4	0.95	71.08	2644.6	0.69	61.11
126.2	0.52	58.59	758.6	0.54	65.54	1404.8	2.87	81.49	2025.6	0.97	70.13	2644.8	0.42	60.75
126.4	0.70	58.44	758.8	0.53	65.15	1405.0	2.30	82.26	2025.8	1.34	68.80	2645.0	0.55	60.09
126.6	0.54	58.53	759.0	0.47	65.27	1405.2	3.47	83.55	2026.0	0.80	67.40	2645.2	0.58	59.18
126.8	0.47	58.79	759.2	0.49	65.78	1405.4	5.03	85.57	2026.2	1.43	66.14	2645.4	0.77	58.20
127.0	0.65	59.15	759.4	0.51	66.47	1405.6	6.01	88.21	2026.4	1.44	65.03	2645.6	0.65	57.35
127.2	0.63	59.44	759.6	0.46	67.10	1405.8	6.05	90.91	2026.6	1.37	64.03	2645.8	0.58	56.84
127.4	0.60	59.50	759.8	0.55	67.53	1406.0	5.49	92.97	2026.8	1.34	63.09	2646.0	0.64	56.74
127.6	0.34	59.36	760.0	0.54	67.71	1406.2	5.12	93.89	2027.0	1.25	62.21	2646.2	0.74	56.90
127.8	0.64	59.03	760.2	0.49	67.71	1406.4	2.25	93.63	2027.2	1.62	61.42	2646.4	0.62	57.16
128.0	0.61	58.54	760.4	0.54	67.62	1406.6	5.49	92.67	2027.4	1.41	60.81	2646.6	0.53	57.46
128.2	0.64	57.98	760.6	0.51	67.61	1406.8	5.20	91.65	2027.6	1.23	60.39	2646.8	0.54	57.89
128.4	0.69	57.50	760.8	0.40	67.82	1407.0	2.77	90.91	2027.8	0.99	60.11	2647.0	0.51	58.52
128.6	0.62	57.22	761.0	0.55	68.24	1407.2	4.98	90.22	2028.0	1.04	59.88	2647.2	0.50	59.26
128.8	0.61	57.18	761.2	0.54	68.76	1407.4	6.20	89.33	2028.2	0.92	59.70	2647.4	0.53	59.87
129.0	0.61	57.30	761.4	0.38	69.21	1407.6	4.87	88.20	2028.4	0.77	59.66	2647.6	0.57	59.99
129.2	0.64	57.36	761.6	0.50	69.39	1407.8	5.41	87.25	2028.6	0.80	59.82	2647.8	0.59	59.34
129.4	0.67	57.17	761.8	0.45	69.20	1408.0	2.33	87.26	2028.8	0.63	60.20	2648.0	0.54	57.92
129.6	0.68	56.71	762.0	0.47	68.65	1408.2	2.94	88.70	2029.0	0.89	60.71	2648.2	0.48	56.14
129.8	0.66	56.14	762.2	0.44	67.85	1408.4	2.98	91.17	2029.2	0.95	61.15	2648.4	0.57	54.57
130.0	0.56	55.75	762.4	0.46	66.98	1408.6	4.79	93.59	2029.4	0.89	61.35	2648.6	0.53	53.88
130.2	0.69	55.82	762.6	0.53	66.31	1408.8	5.12	94.96	2029.6	1.02	61.22	2648.8	0.49	54.46
130.4	0.41	56.41	762.8	0.42	66.04	1409.0	4.43	94.93	2029.8	0.95	60.82	2649.0	0.52	56.13
130.6	0.65	57.26	763.0	0.47	66.21	1409.2	4.99	93.86	2030.0	0.83	60.33	2649.2	0.53	58.23
130.8	0.64	57.95	763.2	0.50	66.70	1409.4	4.51	92.39	2030.2	0.92	59.92	2649.4	0.69	60.04
131.0	0.70	58.16	763.4	0.59	67.29	1409.6	3.93	90.98	2030.4	0.87	59.70	2649.6	0.46	61.21
131.2	0.58	57.85	763.6	0.45	67.73	1409.8	4.50	89.57	2030.6	0.94	59.78	2649.8	0.40	61.87
131.4	0.64	57.28	763.8	0.39	67.87	1410.0	3.56	87.99	2030.8	0.92	60.22	2650.0	0.61	62.52
131.6	0.61	56.87	764.0	0.42	67.72	1410.2	4.88	86.53	2031.0	0.87	61.02	2650.2	0.59	63.56
131.8	0.63	56.87	764.2	0.48	67.38	1410.4	5.73	86.17	2031.2	0.86	62.12	2650.4	0.73	64.91
132.0	0.59	57.20	764.4	0.47	66.94	1410.6	4.71	87.79	2031.4	1.15	63.34	2650.6	0.86	66.08
132.2	0.55	57.51	764.6	0.50	66.53	1410.8	5.26	91.35	2031.6	1.16	64.41	2650.8	0.88	66.45
132.4	0.37	57.45	764.8	0.43	66.22	1411.0	4.29	95.57	2031.8	1.16	65.13	2651.0	0.83	65.65
132.6	0.66	56.86	765.0	0.44	66.02	1411.2	4.40	98.44	2032.0	0.98	65.45	2651.2	0.73	63.78
132.8	0.67	55.82	765.2	0.47	65.95	1411.4	3.50	98.39	2032.2	1.14	65.44	2651.4	0.89	61.42
133.0	0.58	54.66	765.4	0.42	65.98	1411.6	5.30	95.28	2032.4	1.14	65.25	2651.6	0.79	59.17
133.2	0.60	53.76	765.6	0.44	66.01	1411.8	4.48	90.53	2032.6	1.32	65.00	2651.8	0.48	57.38
133.4	0.48	53.37	765.8	0.43	65.97	1412.0	1.82	86.46	2032.8	1.34	64.80	2652.0	0.67	56.11
133.6	0.61	53.63	766.0	0.38	65.92	1412.2	1.93	84.75	2033.0	1.24	64.64	2652.2	0.70	55.31
133.8	0.62	54.53	766.2	0.53	65.97	1412.4	2.38	85.62	2033.2	0.72	64.54	2652.4	0.53	54.93
134.0	0.71	55.78	766.4	0.39	66.18	1412.6	1.57	88.00	2033.4	1.03	64.53	2652.6	0.85	54.94
134.2	0.64	56.87	766.6	0.38	66.47	1412.8</								

136.0	0.45	56.20	768.4	0.41	59.38	1414.6	1.24	79.54	2035.4	1.07	64.01	2654.6	0.67	57.95
136.2	0.48	58.56	768.6	0.34	59.00	1414.8	1.08	81.05	2035.6	1.12	63.82	2654.8	0.52	59.02
136.4	0.53	60.44	768.8	0.36	58.70	1415.0	1.29	82.47	2035.8	1.05	63.52	2655.0	0.68	61.35
136.6	0.68	61.30	769.0	0.35	58.47	1415.2	1.32	83.70	2036.0	0.95	63.26	2655.2	0.90	64.79
136.8	0.60	61.08	769.2	0.31	58.35	1415.4	1.13	84.64	2036.2	1.00	63.13	2655.4	1.01	68.84
137.0	0.63	60.22	769.4	0.36	58.40	1415.6	1.62	85.11	2036.4	1.11	63.15	2655.6	1.79	72.68
137.2	0.66	59.36	769.6	0.27	58.65	1415.8	1.39	84.98	2036.6	1.14	63.23	2655.8	1.59	75.41
137.4	0.62	58.97	769.8	0.35	59.19	1416.0	2.19	84.22	2036.8	0.92	63.27	2656.0	2.02	76.35
137.6	0.66	59.11	770.0	0.29	59.99	1416.2	2.19	83.03	2037.0	0.96	63.24	2656.2	1.13	75.27
137.8	0.62	59.55	770.2	0.27	60.87	1416.4	2.77	81.85	2037.2	0.90	63.19	2656.4	1.85	72.45
138.0	0.74	59.87	770.4	0.31	61.63	1416.6	2.03	81.16	2037.4	0.96	63.16	2656.6	1.42	68.63
138.2	0.80	59.94	770.6	0.31	62.12	1416.8	1.90	81.25	2037.6	1.01	63.12	2656.8	0.98	64.70
138.4	0.89	59.78	770.8	0.27	62.39	1417.0	2.26	82.08	2037.8	1.03	63.00	2657.0	0.91	61.40
138.6	0.89	59.44	771.0	0.30	62.65	1417.2	2.35	83.22	2038.0	1.08	62.72	2657.2	0.93	59.07
138.8	0.75	58.96	771.2	0.28	63.25	1417.4	1.65	84.14	2038.2	1.10	62.36	2657.4	0.95	57.64
139.0	0.72	58.37	771.4	0.25	64.43	1417.6	1.78	84.47	2038.4	1.21	62.10	2657.6	0.94	56.81
139.2	0.78	57.67	771.6	0.27	66.17	1417.8	2.20	84.18	2038.6	0.91	62.20	2657.8	0.83	56.24
139.4	0.69	56.99	771.8	0.27	68.20	1418.0	2.20	83.64	2038.8	0.97	62.78	2658.0	0.73	55.77
139.6	0.61	56.49	772.0	0.28	70.04	1418.2	2.19	83.33	2039.0	1.24	63.80	2658.2	0.76	55.52
139.8	0.71	56.35	772.2	0.21	71.22	1418.4	2.42	83.44	2039.2	1.50	64.98	2658.4	0.87	55.56
140.0	0.71	56.73	772.4	0.27	71.51	1418.6	2.00	83.74	2039.4	1.53	66.11	2658.6	0.71	55.87
140.2	0.74	57.58	772.6	0.30	70.99	1418.8	1.71	83.79	2039.6	1.62	67.18	2658.8	0.70	56.35
140.4	0.70	58.66	772.8	0.27	69.93	1419.0	2.21	83.24	2039.8	1.35	68.47	2659.0	0.68	56.85
140.6	0.70	59.58	773.0	0.28	68.68	1419.2	1.97	82.05	2040.0	1.49	70.36	2659.2	0.56	57.26
140.8	0.75	60.06	773.2	0.32	67.60	1419.4	1.62	80.71	2040.2	1.38	72.87	2659.4	0.68	57.53
141.0	0.67	59.99	773.4	0.26	66.94	1419.6	1.98	79.85	2040.4	1.31	75.52	2659.6	0.55	57.62
141.2	0.67	59.39	773.6	0.29	66.78	1419.8	1.15	79.81	2040.6	0.50	77.45	2659.8	0.66	57.53
141.4	0.69	58.42	773.8	0.38	66.93	1420.0	1.24	80.47	2040.8	1.31	77.86	2660.0	0.74	57.30
141.6	0.56	57.28	774.0	0.34	67.01	1420.2	1.34	81.43	2041.0	1.18	76.47	2660.2	0.64	57.05
141.8	0.63	56.18	774.2	0.31	66.61	1420.4	1.87	82.17	2041.2	2.73	73.72	2660.4	0.57	56.83
142.0	0.53	55.38	774.4	0.29	65.50	1420.6	1.32	82.38	2041.4	2.70	70.58	2660.6	0.44	56.68
142.2	0.53	55.06	774.6	0.29	63.72	1420.8	1.54	82.17	2041.6	1.85	67.99	2660.8	0.51	56.62
142.4	0.64	55.23	774.8	0.28	61.56	1421.0	1.45	82.05	2041.8	1.48	66.44	2661.0	0.49	56.58
142.6	0.51	55.88	775.0	0.31	59.46	1421.2	1.73	82.60	2042.0	1.45	65.84	2661.2	0.58	56.53
142.8	0.63	56.84	775.2	0.32	57.78	1421.4	3.99	84.00	2042.2	1.74	65.68	2661.4	0.52	56.46
143.0	0.55	57.82	775.4	0.32	56.75	1421.6	3.72	86.03	2042.4	1.75	65.38	2661.6	0.54	56.38
143.2	0.46	58.49	775.6	0.31	56.39	1421.8	2.92	87.95	2042.6	1.61	64.66	2661.8	0.57	56.32
143.4	0.73	58.64	775.8	0.30	56.51	1422.0	2.05	88.86	2042.8	1.30	63.57	2662.0	0.55	56.37
143.6	0.69	58.21	776.0	0.28	56.89	1422.2	3.30	88.23	2043.0	1.19	62.32	2662.2	0.50	56.64
143.8	0.75	57.24	776.2	0.30	57.34	1422.4	3.46	86.24	2043.2	1.11	61.14	2662.4	0.37	57.34
144.0	0.70	56.01	776.4	0.31	57.75	1422.6	2.53	83.67	2043.4	1.07	60.21	2662.6	0.46	58.67
144.2	0.62	54.91	776.6	0.27	58.07	1422.8	2.67	81.46	2043.6	1.25	59.59	2662.8	0.56	60.53
144.4	0.55	54.28	776.8	0.27	58.34	1423.0	2.17	80.18	2043.8	1.18	59.28	2663.0	0.50	62.53
144.6	0.64	54.28	777.0	0.31	58.59	1423.2	2.65	79.82	2044.0	1.11	59.20	2663.2	0.45	64.02
144.8	0.61	54.85	777.2	0.29	58.83	1423.4	3.63	79.91	2044.2	1.14	59.30	2663.4	0.43	64.39
145.0	0.67	55.60	777.4	0.28	58.99	1423.6	3.63	79.92	2044.4	1.12	59.61	2663.6	0.53	63.39
145.2	0.66	56.17	777.6	0.28	58.99	1423.8	3.11	79.76	2044.6	1.33	60.21	2663.8	0.41	61.29
145.4	0.62	56.49	777.8	0.27	58.73	1424.0	3.15	79.71	2044.8	1.12	61.12	2664.0	0.37	58.77
145.6	0.71	56.61	778.0	0.27	58.28	1424.2	3.23	80.29	2045.0	0.92	62.21	2664.2	0.36	56.51
145.8	0.53	56.67	778.2	0.29	57.80	1424.4	2.87	81.98	2045.2	1.78	63.24	2664.4	0.33	54.93
146.0	0.53	56.76	778.4	0.29	57.51	1424.6	3.21	84.75	2045.4	2.30	63.86	2664.6	0.34	54.11
146.2	0.70	56.83	778.6	0.26	57.67	1424.8	3.45	88.01	2045.6	1.67	63.81	2664.8	0.36	53.82
146.4	0.59	56.88	778.8	0.23	58.35	1425.0	2.93	90.76	2045.8	1.46	63.07	2665.0	0.37	53.77
146.6	0.70	56.90	779.0	0.30	59.49	1425.2	0.67	92.10	2046.0	1.64	61.84	2665.2	0.39	53.76
146.8	0.70	57.00	779.2	0.28	60.80	1425.4	3.20	91.67	2046.2	1.07	60.46	2665.4	0.39	53.70
147.0	0.68	57.29	779.4	0.32	61.89	1425.6	2.99	89.77	2046.4	1.90	59.23	2665.6	0.38	53.49
147.2	0.69	57.85	779.6	0.26	62.42	1425.8	2.33	87.22	2046.6	1.16	58.35	2665.8	0.44	53.16
147.4	0.71	58.67	779.8	0.30	62.32	1426.0	3.16	84.97	2046.8	0.68	57.82	2666.0	0.51	52.84
147.6	0.79	59.57	780.0	0.27	61.79	1426.2	3.22	83.78	2047.0	0.51	57.60	2666.2	0.40	52.69
147.8	0.77	60.41	780.2	0.32	61.18	1426.4	3.22	83.99	2047.2	0.54	57.66	2666.4	0.46	52.82
148.0	0.60	61.07	780.4	0.31	60.82	1426.6	2.80	85.48	2047.4	1.13	57.94	2666.6	0.36	53.18
148.2	0.79	61.48	780.6	0.30	60.75	1426.8	3.66	87.71	2047.6	0.90	58.39	2666.8	0.48	53.62
148.4	0.57	61.62	780.8	0.27	60.77	1427.0	2.68	89.93	2047.8	1.32	58.89	2667.0	0.41	53.93
148.6	0.61	61.49	781.0	0.31	60.57	1427.2	3.02	91.43	2048.0	1.30	59.39	2667.2	0.49	53.97
148.8	0.65	61.18	781.2	0.31	59.98	1427.4	2.16	91.72	2048.2	1.23	59.81	2667.4	0.46	53.76
149.0	0.69	60.93	781.4	0.28	59.09	1427.6	1.97	90.81	2048.4	1.15	60.17	2667.6	0.50	53.46
149.2	0.66	61.00	781.6	0.32	58.11	1427.8	3.21	89.22	2048.6	1.48	60.45	2667.8	0.43	53.44
149.4	0.65	61.49	781.8	0.30	57.26	1428.0	3.51	87.75	2048.8	1.52	60.65	2668.0	0.39	54.02
149.6	0.76	62.25	782.0	0.33	56.68	1428.2	3.84	86.98	2049.0	1.35	60.80	2668.2	0.44	55.33
149.8	0.81	62.95	782.2	0.33	56.75	1428.4	3.51	86.99	2049.2	1.62	60.93	2668.4	0.53	57.12
150.0	0.75	63.24	782.4	0.29	57.85	1428.6	3.95	87.44	2049.4	1.41	61.10	2668.6	0.52	58.84
150.2	0.66	63.02	782.6	0.27	60.02	1428.8	3.81	87.89	2049.6	1.47	61.33	2668.8	0.52	59.92
150.4	0.79	62.44	782.8	0.26	62.89	1429.0								

152.2	0.81	67.87	784.6	0.30	90.67	1430.8	3.00	86.62	2051.6	0.82	59.30	2670.8	0.43	59.89
152.4	0.59	67.05	784.8	0.24	92.00	1431.0	2.98	86.67	2051.8	0.83	58.93	2671.0	0.35	58.80
152.6	0.70	66.00	785.0	0.29	89.44	1431.2	2.56	87.12	2052.0	0.96	58.44	2671.2	0.39	57.56
152.8	0.57	65.11	785.2	0.28	84.11	1431.4	3.33	88.13	2052.2	0.68	57.90	2671.4	0.36	56.50
153.0	0.55	64.60	785.4	0.27	78.18	1431.6	3.55	89.54	2052.4	0.81	57.41	2671.6	0.36	55.93
153.2	0.78	64.37	785.6	0.25	73.55	1431.8	3.71	90.96	2052.6	0.78	56.99	2671.8	0.37	55.94
153.4	0.67	64.20	785.8	0.22	71.17	1432.0	1.90	91.82	2052.8	0.64	56.60	2672.0	0.39	56.43
153.6	0.57	63.84	786.0	0.25	70.68	1432.2	2.59	91.58	2053.0	0.63	56.17	2672.2	0.36	57.18
153.8	0.70	63.28	786.2	0.26	71.10	1432.4	3.83	90.15	2053.2	0.58	55.64	2672.4	0.35	57.80
154.0	0.75	62.89	786.4	0.33	71.43	1432.6	3.45	88.11	2053.4	0.55	55.08	2672.6	0.23	57.92
154.2	0.75	63.08	786.6	0.30	71.00	1432.8	3.38	86.44	2053.6	0.60	54.58	2672.8	0.18	57.38
154.4	0.64	63.95	786.8	0.26	69.88	1433.0	3.37	85.97	2053.8	0.63	54.22	2673.0	0.20	56.37
154.6	0.76	65.16	787.0	0.24	68.21	1433.2	3.68	86.84	2054.0	0.61	53.99	2673.2	0.17	55.31
154.8	0.70	66.09	787.2	0.28	66.27	1433.4	4.34	88.40	2054.2	0.56	53.82	2673.4	0.19	54.67
155.0	0.77	66.21	787.4	0.20	64.23	1433.6	4.38	89.44	2054.4	0.60	53.63	2673.6	0.14	54.63
155.2	0.79	65.39	787.6	0.27	62.20	1433.8	2.78	89.05	2054.6	0.58	53.39	2673.8	0.17	55.05
155.4	0.79	63.96	787.8	0.26	60.22	1434.0	3.46	87.14	2054.8	0.49	53.15	2674.0	0.19	55.50
155.6	0.76	62.56	788.0	0.26	58.61	1434.2	2.96	84.36	2055.0	0.52	53.00	2674.2	0.13	55.64
155.8	0.85	61.84	788.2	0.28	57.76	1434.4	2.40	81.85	2055.2	0.55	52.99	2674.4	0.17	55.36
156.0	0.61	61.99	788.4	0.23	57.88	1434.6	1.99	80.63	2055.4	0.47	53.12	2674.6	0.14	54.82
156.2	0.71	62.82	788.6	0.26	58.90	1434.8	2.48	80.99	2055.6	0.46	53.32	2674.8	0.14	54.30
156.4	0.72	63.75	788.8	0.24	60.38	1435.0	2.54	82.49	2055.8	0.44	53.48	2675.0	0.10	54.00
156.6	0.77	64.25	789.0	0.32	61.80	1435.2	2.16	84.36	2056.0	0.43	53.50	2675.2	0.11	54.04
156.8	0.71	64.12	789.2	0.25	62.70	1435.4	1.93	85.82	2056.2	0.37	53.34	2675.4	0.11	54.39
157.0	0.91	63.51	789.4	0.31	63.18	1435.6	2.09	86.56	2056.4	0.40	53.08	2675.6	0.15	54.83
157.2	0.93	62.77	789.6	0.29	63.74	1435.8	2.13	86.71	2056.6	0.43	52.87	2675.8	0.19	55.07
157.4	0.93	62.28	789.8	0.28	64.98	1436.0	2.06	86.63	2056.8	0.37	52.94	2676.0	0.10	54.85
157.6	0.96	62.30	790.0	0.26	66.98	1436.2	2.28	86.64	2057.0	0.44	53.36	2676.2	0.10	53.91
157.8	1.05	62.99	790.2	0.26	69.29	1436.4	2.35	86.82	2057.2	0.46	54.07	2676.4	0.14	52.21
158.0	0.97	64.18	790.4	0.26	71.01	1436.6	2.30	87.12	2057.4	0.41	54.78	2676.6	0.11	50.01
158.2	0.77	65.55	790.6	0.25	71.33	1436.8	2.58	87.31	2057.6	0.42	55.23	2676.8	0.10	47.99
158.4	0.85	66.75	790.8	0.27	70.16	1437.0	3.73	87.21	2057.8	0.43	55.27	2677.0	0.11	46.94
158.6	0.99	67.46	791.0	0.27	68.06	1437.2	3.03	86.83	2058.0	0.34	54.94	2677.2	0.08	47.26
158.8	1.00	67.53	791.2	0.29	65.82	1437.4	2.14	86.36	2058.2	0.39	54.41	2677.4	0.08	48.76
159.0	0.96	67.17	791.4	0.24	63.93	1437.6	2.31	85.90	2058.4	0.47	53.86	2677.6	0.07	50.78
159.2	1.12	66.90	791.6	0.24	62.51	1437.8	2.70	85.59	2058.6	0.37	53.37	2677.8	0.08	52.46
159.4	1.15	67.23	791.8	0.24	61.36	1438.0	2.47	85.55	2058.8	0.38	52.92	2678.0	0.11	53.17
159.6	1.00	68.29	792.0	0.30	60.31	1438.2	2.24	85.86	2059.0	0.35	52.48	2678.2	0.08	52.82
159.8	0.94	69.72	792.2	0.27	59.55	1438.4	2.98	86.53	2059.2	0.34	52.02	2678.4	0.06	51.78
160.0	0.92	70.84	792.4	0.25	59.47	1438.6	2.70	87.50	2059.4	0.39	51.61	2678.6	0.09	50.63
160.2	1.04	70.96	792.6	0.28	60.27	1438.8	2.05	88.59	2059.6	0.34	51.31	2678.8	0.09	49.72
160.4	0.98	69.81	792.8	0.32	61.89	1439.0	2.94	89.68	2059.8	0.35	51.12	2679.0	0.07	49.21
160.6	0.66	67.66	793.0	0.31	64.09	1439.2	2.69	90.87	2060.0	0.36	50.97	2679.2	0.08	48.93
160.8	0.89	65.17	793.2	0.27	66.49	1439.4	2.41	92.24	2060.2	0.29	50.77	2679.4	0.07	48.55
161.0	0.68	63.01	793.4	0.27	68.63	1439.6	2.60	93.67	2060.4	0.37	50.48	2679.6	0.06	47.91
161.2	0.71	61.61	793.6	0.35	70.11	1439.8	1.74	94.85	2060.6	0.32	50.13	2679.8	0.09	47.08
161.4	0.76	61.01	793.8	0.27	70.60	1440.0	1.98	95.56	2060.8	0.33	49.82	2680.0	0.09	46.21
161.6	0.74	60.96	794.0	0.31	69.98	1440.2	2.35	95.81	2061.0	0.34	49.65	2680.2	0.09	45.47
161.8	0.62	61.10	794.2	0.31	68.37	1440.4	2.25	95.80	2061.2	0.29	49.69	2680.4	0.08	45.20
162.0	0.59	61.18	794.4	0.28	66.17	1440.6	1.56	95.84	2061.4	0.32	49.95	2680.6	0.09	45.80
162.2	0.77	61.06	794.6	0.31	63.93	1440.8	2.19	95.85	2061.6	0.28	50.41	2680.8	0.08	47.44
162.4	0.60	60.65	794.8	0.28	62.06	1441.0	1.09	95.47	2061.8	0.37	50.97	2681.0	0.07	49.92
162.6	0.48	60.00	795.0	0.30	60.74	1441.2	2.58	94.26	2062.0	0.32	51.47	2681.2	0.09	52.78
162.8	0.70	59.39	795.2	0.32	59.85	1441.4	2.48	92.13	2062.2	0.36	51.82	2681.4	0.06	55.30
163.0	0.59	59.21	795.4	0.34	59.20	1441.6	2.37	89.42	2062.4	0.33	51.98	2681.6	0.12	56.70
163.2	0.66	59.70	795.6	0.39	58.62	1441.8	2.51	86.92	2062.6	0.35	51.96	2681.8	0.13	56.63
163.4	0.75	60.93	795.8	0.34	58.08	1442.0	2.00	85.30	2062.8	0.28	51.83	2682.0	0.12	55.42
163.6	0.75	62.59	796.0	0.34	57.60	1442.2	2.68	84.95	2063.0	0.31	51.70	2682.2	0.12	53.99
163.8	0.78	64.19	796.2	0.34	57.22	1442.4	2.42	85.75	2063.2	0.33	51.63	2682.4	0.12	53.27
164.0	0.64	65.20	796.4	0.37	57.01	1442.6	2.12	87.22	2063.4	0.36	51.67	2682.6	0.11	53.76
164.2	0.55	65.37	796.6	0.30	56.96	1442.8	3.09	88.92	2063.6	0.30	51.80	2682.8	0.10	55.21
164.4	0.69	64.83	796.8	0.34	57.02	1443.0	2.36	90.60	2063.8	0.36	52.01	2683.0	0.14	56.79
164.6	0.61	64.01	797.0	0.36	57.11	1443.2	2.16	92.11	2064.0	0.29	52.24	2683.2	0.13	57.59
164.8	0.75	63.34	797.2	0.34	57.19	1443.4	2.75	93.19	2064.2	0.38	52.48	2683.4	0.11	57.14
165.0	0.72	63.09	797.4	0.32	57.39	1443.6	2.85	93.69	2064.4	0.40	52.71	2683.6	0.17	55.61
165.2	0.84	63.19	797.6	0.32	57.91	1443.8	2.50	93.46	2064.6	0.40	52.96	2683.8	0.18	53.56
165.4	0.75	63.33	797.8	0.35	58.87	1444.0	2.32	92.41	2064.8	0.43	53.22	2684.0	0.23	51.68
165.6	0.68	63.28	798.0	0.39	60.20	1444.2	1.83	90.44	2065.0	0.39	53.48	2684.2	0.19	50.38
165.8	0.65	62.98	798.2	0.33	61.63	1444.4	2.73	87.84	2065.2	0.35	53.71	2684.4	0.20	49.75
166.0	0.68	62.58	798.4	0.39	62.79	1444.6	2.63	85.04	2065.4	0.35	53.83	2684.6	0.20	49.58
166.2	0.68	62.34	798.6	0.37	63.42	1444.8	2.26	83.08	2065.6	0.32	53.78	2684.8	0.20	49.76
166.4	0.69	62.43	798.8	0.38	63.56	1445.0	2.21	83.32	2065.8	0.31	53.59	2685.0	0.20	50.41
166.6	0.72	62.84	799.0	0.37	63.50	1445.2								

168.4	0.64	59.77	800.8	0.46	61.86	1447.0	2.27	87.12	2067.8	0.37	52.40	2687.0	0.42	55.62
168.6	0.71	59.64	801.0	0.42	61.61	1447.2	2.28	85.91	2068.0	0.33	53.02	2687.2	0.40	56.18
168.8	0.77	59.97	801.2	0.38	61.56	1447.4	2.18	85.61	2068.2	0.33	54.02	2687.4	0.37	56.33
169.0	0.72	60.65	801.4	0.43	61.72	1447.6	1.95	86.46	2068.4	0.32	55.27	2687.6	0.45	56.11
169.2	0.82	61.40	801.6	0.44	62.15	1447.8	2.40	88.60	2068.6	0.35	56.46	2687.8	0.47	55.66
169.4	0.81	61.93	801.8	0.43	62.93	1448.0	1.59	91.77	2068.8	0.37	57.13	2688.0	0.51	55.13
169.6	0.71	61.97	802.0	0.41	63.97	1448.2	2.53	95.10	2069.0	0.42	56.94	2688.2	0.46	54.61
169.8	0.81	61.64	802.2	0.41	65.01	1448.4	2.98	97.52	2069.2	0.34	55.89	2688.4	0.52	54.19
170.0	0.82	61.30	802.4	0.46	65.64	1448.6	1.06	98.00	2069.4	0.32	54.33	2688.6	0.55	53.88
170.2	0.71	61.35	802.6	0.49	65.61	1448.8	3.05	96.44	2069.6	0.36	52.75	2688.8	0.55	53.65
170.4	0.82	62.27	802.8	0.51	64.96	1449.0	3.16	93.64	2069.8	0.30	51.55	2689.0	0.47	53.46
170.6	0.81	64.29	803.0	0.46	63.99	1449.2	2.90	90.76	2070.0	0.32	50.92	2689.2	0.49	53.22
170.8	0.76	67.17	803.2	0.46	63.12	1449.4	3.20	88.88	2070.2	0.28	50.71	2689.4	0.47	52.97
171.0	0.63	70.28	803.4	0.41	62.61	1449.6	3.41	88.32	2070.4	0.28	50.62	2689.6	0.51	52.77
171.2	0.71	72.87	803.6	0.43	62.52	1449.8	2.70	88.62	2070.6	0.32	50.50	2689.8	0.45	52.66
171.4	0.89	74.42	803.8	0.48	62.70	1450.0	2.52	88.90	2070.8	0.27	50.34	2690.0	0.52	52.62
171.6	0.88	74.68	804.0	0.37	62.99	1450.2	2.76	88.66	2071.0	0.26	50.20	2690.2	0.48	52.62
171.8	0.80	73.76	804.2	0.50	63.27	1450.4	2.30	87.92	2071.2	0.30	50.15	2690.4	0.38	52.52
172.0	0.77	72.03	804.4	0.45	63.45	1450.6	2.19	86.87	2071.4	0.21	50.28	2690.6	0.43	52.27
172.2	0.84	69.86	804.6	0.47	63.58	1450.8	2.29	85.80	2071.6	0.30	50.54	2690.8	0.37	51.88
172.4	0.77	67.54	804.8	0.40	63.77	1451.0	2.52	85.07	2071.8	0.31	50.84	2691.0	0.40	51.52
172.6	0.73	65.38	805.0	0.37	64.15	1451.2	2.66	84.90	2072.0	0.31	51.07	2691.2	0.36	51.32
172.8	0.79	63.57	805.2	0.46	64.73	1451.4	2.74	85.20	2072.2	0.38	51.22	2691.4	0.37	51.35
173.0	0.80	62.12	805.4	0.48	65.41	1451.6	2.18	85.81	2072.4	0.30	51.31	2691.6	0.41	51.61
173.2	0.75	61.08	805.6	0.50	65.98	1451.8	2.56	86.40	2072.6	0.22	51.42	2691.8	0.35	52.00
173.4	0.79	60.44	805.8	0.53	66.26	1452.0	2.28	86.61	2072.8	0.32	51.56	2692.0	0.36	52.41
173.6	0.81	60.15	806.0	0.45	66.20	1452.2	2.53	86.23	2073.0	0.32	51.75	2692.2	0.24	52.81
173.8	0.81	60.17	806.2	0.50	65.85	1452.4	2.17	85.33	2073.2	0.33	51.94	2692.4	0.39	53.17
174.0	0.87	60.48	806.4	0.47	65.35	1452.6	1.84	84.24	2073.4	0.29	52.07	2692.6	0.38	53.45
174.2	0.85	61.09	806.6	0.43	64.84	1452.8	1.79	83.18	2073.6	0.27	52.10	2692.8	0.41	53.64
174.4	0.86	61.94	806.8	0.50	64.39	1453.0	2.18	82.35	2073.8	0.34	52.01	2693.0	0.56	53.77
174.6	0.75	62.92	807.0	0.42	63.97	1453.2	2.29	81.77	2074.0	0.31	51.79	2693.2	0.55	54.02
174.8	0.71	63.92	807.2	0.48	63.56	1453.4	2.12	81.39	2074.2	0.30	51.45	2693.4	0.58	54.59
175.0	0.79	64.73	807.4	0.46	63.20	1453.6	2.04	81.22	2074.4	0.34	51.06	2693.6	0.53	55.65
175.2	0.92	65.17	807.6	0.48	62.92	1453.8	1.99	81.33	2074.6	0.27	50.71	2693.8	0.57	57.20
175.4	0.96	65.09	807.8	0.38	62.73	1454.0	2.27	81.63	2074.8	0.30	50.45	2694.0	0.71	59.03
175.6	0.93	64.46	808.0	0.50	62.63	1454.2	2.18	81.89	2075.0	0.31	50.36	2694.2	0.66	60.84
175.8	0.72	63.45	808.2	0.54	62.58	1454.4	2.07	82.01	2075.2	0.30	50.44	2694.4	0.56	62.33
176.0	0.78	62.32	808.4	0.46	62.55	1454.6	2.08	82.01	2075.4	0.32	50.63	2694.6	0.94	63.40
176.2	0.68	61.33	808.6	0.51	62.54	1454.8	1.55	81.93	2075.6	0.33	50.87	2694.8	0.69	64.11
176.4	0.73	60.51	808.8	0.52	62.57	1455.0	0.92	81.84	2075.8	0.33	51.12	2695.0	0.82	64.72
176.6	0.82	59.74	809.0	0.49	62.64	1455.2	0.82	81.84	2076.0	0.29	51.37	2695.2	0.68	65.72
176.8	0.91	58.86	809.2	0.49	62.72	1455.4	0.55	81.98	2076.2	0.30	51.68	2695.4	0.84	67.41
177.0	0.87	57.84	809.4	0.49	62.75	1455.6	0.82	82.42	2076.4	0.33	52.04	2695.6	0.81	69.62
177.2	0.81	56.84	809.6	0.50	62.63	1455.8	1.01	83.35	2076.6	0.32	52.41	2695.8	0.93	71.62
177.4	0.74	56.15	809.8	0.52	62.29	1456.0	1.49	85.01	2076.8	0.31	52.70	2696.0	1.04	72.42
177.6	0.68	55.97	810.0	0.48	61.71	1456.2	1.78	87.52	2077.0	0.35	52.82	2696.2	0.79	71.22
177.8	0.68	56.39	810.2	0.50	60.98	1456.4	1.09	90.74	2077.2	0.32	52.74	2696.4	0.95	68.00
178.0	0.90	57.41	810.4	0.52	60.28	1456.6	0.92	94.25	2077.4	0.28	52.53	2696.6	0.57	63.67
178.2	0.64	58.76	810.6	0.54	59.78	1456.8	2.38	97.17	2077.6	0.31	52.29	2696.8	0.41	59.59
178.4	0.79	60.09	810.8	0.51	59.59	1457.0	0.90	98.62	2077.8	0.37	52.08	2697.0	0.43	57.01
178.6	0.68	61.02	811.0	0.52	59.68	1457.2	1.90	98.09	2078.0	0.31	51.88	2697.2	0.39	56.44
178.8	0.82	61.29	811.2	0.53	59.98	1457.4	1.56	95.56	2078.2	0.39	51.63	2697.4	0.72	57.55
179.0	0.54	60.91	811.4	0.51	60.33	1457.6	1.74	91.72	2078.4	0.31	51.26	2697.6	0.49	59.32
179.2	0.65	60.22	811.6	0.48	60.59	1457.8	1.53	87.83	2078.6	0.29	50.77	2697.8	0.75	60.80
179.4	0.66	59.67	811.8	0.43	60.76	1458.0	0.61	85.22	2078.8	0.27	50.28	2698.0	0.53	61.51
179.6	0.62	59.66	812.0	0.45	60.97	1458.2	1.64	84.75	2079.0	0.30	49.95	2698.2	0.66	61.46
179.8	0.66	60.36	812.2	0.38	61.30	1458.4	1.73	86.32	2079.2	0.30	49.87	2698.4	0.70	60.99
180.0	0.78	61.65	812.4	0.43	61.79	1458.6	1.65	88.84	2079.4	0.32	50.04	2698.6	0.62	60.48
180.2	0.92	63.07	812.6	0.47	62.33	1458.8	1.00	90.85	2079.6	0.33	50.39	2698.8	0.53	60.15
180.4	0.88	64.05	812.8	0.55	62.75	1459.0	1.91	91.31	2079.8	0.30	50.81	2699.0	0.94	59.95
180.6	0.70	64.20	813.0	0.39	62.88	1459.2	1.69	90.09	2080.0	0.31	51.23	2699.2	0.66	59.79
180.8	0.89	63.45	813.2	0.48	62.71	1459.4	2.12	87.99	2080.2	0.34	51.58	2699.4	0.84	59.58
181.0	0.66	62.08	813.4	0.55	62.31	1459.6	2.10	86.19	2080.4	0.37	51.84	2699.6	0.67	59.26
181.2	0.52	60.72	813.6	0.50	61.79	1459.8	2.03	85.49	2080.6	0.32	51.98	2699.8	0.84	58.89
181.4	0.73	60.01	813.8	0.39	61.30	1460.0	2.25	85.90	2080.8	0.23	52.00	2700.0	1.01	58.51
181.6	0.66	60.24	814.0	0.46	61.05	1460.2	2.04	86.59	2081.0	0.32	51.90	2700.2	0.68	58.14
181.8	0.81	61.24	814.2	0.48	61.21	1460.4	0.92	86.64	2081.2	0.29	51.77	2700.4	0.94	57.94
182.0	0.87	62.53	814.4	0.44	61.89	1460.6	1.84	85.52	2081.4	0.41	51.68	2700.6	0.63	58.17
182.2	0.77	63.55	814.6	0.49	63.53	1460.8	2.19	83.54	2081.6	0.35	51.67	2702.2	0.72	59.05
182.4	0.76	63.89	814.8	0.52	66.34	1461.0	2.32	81.57	2081.8	0.25	51.71	2702.4	1.07	60.74
182.6	0.60	63.54	815.0	0.50	70.08	1461.2	1.54	80.51	2082.0	0.29	51.73	2702.6	1.27	63.15
182.8	0.69	62.75	815.2	0.49	74.12	1461.4								

184.6	0.71	57.26	817.0	0.52	75.42	1463.2	3.47	83.33	2084.0	0.40	52.13	2704.6	1.30	59.89
184.8	0.54	57.17	817.2	0.56	74.16	1463.4	3.28	84.56	2084.2	0.36	51.78	2704.8	1.24	60.21
185.0	0.57	57.73	817.4	0.48	72.37	1463.6	3.00	85.34	2084.4	0.45	51.51	2705.0	1.43	60.92
185.2	0.73	58.84	817.6	0.52	70.54	1463.8	3.02	85.47	2084.6	0.35	51.35	2705.2	1.06	61.74
185.4	0.74	60.18	817.8	0.51	69.16	1464.0	3.01	85.42	2084.8	0.39	51.27	2705.4	1.07	62.38
185.6	0.80	61.33	818.0	0.52	68.61	1464.2	2.69	86.24	2085.0	0.38	51.21	2705.6	1.24	62.65
185.8	0.62	62.01	818.2	0.58	68.91	1464.4	2.89	88.64	2085.2	0.34	51.18	2705.8	1.06	62.47
186.0	0.60	62.19	818.4	0.51	69.70	1464.6	2.22	92.21	2085.4	0.40	51.19	2706.0	0.94	61.94
186.2	0.70	62.04	818.6	0.47	70.52	1464.8	2.71	95.72	2085.6	0.37	51.27	2706.2	0.70	61.25
186.4	0.69	61.76	818.8	0.51	70.88	1465.0	1.25	97.66	2085.8	0.35	51.50	2706.4	0.85	60.56
186.6	0.50	61.40	819.0	0.44	70.36	1465.2	1.23	97.02	2086.0	0.40	51.98	2706.6	0.94	60.00
186.8	0.62	60.95	819.2	0.53	68.90	1465.4	2.25	93.92	2086.2	0.47	52.81	2706.8	0.71	59.60
187.0	0.55	60.31	819.4	0.42	66.75	1465.6	2.01	89.63	2086.4	0.41	54.12	2707.0	0.87	59.36
187.2	0.62	59.51	819.6	0.49	64.33	1465.8	2.30	85.67	2086.6	0.38	55.87	2707.2	0.83	59.30
187.4	0.66	58.67	819.8	0.47	62.05	1466.0	1.97	82.97	2086.8	0.38	57.78	2707.4	0.78	59.41
187.6	0.65	58.04	820.0	0.46	60.17	1466.2	2.11	81.62	2087.0	0.38	59.33	2707.6	0.80	59.71
187.8	0.62	57.77	820.2	0.44	58.78	1466.4	2.16	81.10	2087.2	0.41	60.05	2707.8	0.67	60.21
188.0	0.65	57.89	820.4	0.47	57.87	1466.6	2.67	80.75	2087.4	0.39	59.67	2708.0	0.96	60.88
188.2	0.56	58.36	820.6	0.44	57.41	1466.8	2.68	80.37	2087.6	0.41	58.34	2708.2	0.96	61.62
188.4	0.55	58.98	820.8	0.41	57.33	1467.0	1.55	80.33	2087.8	0.42	56.53	2708.4	1.08	62.41
188.6	0.50	59.50	821.0	0.45	57.51	1467.2	1.80	80.80	2088.0	0.31	54.79	2708.6	1.15	63.18
188.8	0.53	59.75	821.2	0.48	57.87	1467.4	3.47	81.72	2088.2	0.36	53.46	2708.8	0.69	63.80
189.0	0.54	59.66	821.4	0.45	58.40	1467.6	3.93	82.87	2089.2	0.46	52.59	2709.0	0.82	64.12
189.2	0.56	59.27	821.6	0.46	59.15	1467.8	4.08	83.98	2089.4	0.43	51.97	2709.2	0.49	64.04
189.4	0.58	58.77	821.8	0.49	60.22	1468.0	2.06	84.76	2089.6	0.41	51.42	2709.4	0.82	63.55
189.6	0.51	58.34	822.0	0.43	61.61	1468.2	3.33	85.04	2089.8	0.45	50.88	2709.6	0.63	62.78
189.8	0.70	58.05	822.2	0.46	63.14	1468.4	2.88	84.87	2090.0	0.44	50.48	2709.8	0.46	62.08
190.0	0.50	57.84	822.4	0.52	64.52	1468.6	2.75	84.57	2090.2	0.52	50.36	2710.0	0.83	61.86
190.2	0.50	57.59	822.6	0.42	65.52	1468.8	3.69	84.56	2090.4	0.52	50.58	2710.2	0.82	62.34
190.4	0.55	57.27	822.8	0.39	66.11	1469.0	3.99	85.05	2090.6	0.37	51.03	2710.4	1.19	63.46
190.6	0.63	56.90	823.0	0.43	66.44	1469.2	2.38	86.07	2090.8	0.48	51.53	2710.6	1.09	64.84
190.8	0.63	56.57	823.2	0.42	66.75	1469.4	1.83	87.26	2091.0	0.42	51.93	2710.8	1.56	65.93
191.0	0.68	56.40	823.4	0.41	67.11	1469.6	1.89	88.06	2091.2	0.47	52.14	2711.0	2.13	66.24
191.2	0.53	56.35	823.6	0.47	67.35	1469.8	1.35	88.21	2091.4	0.48	52.18	2711.2	1.62	65.66
191.4	0.66	56.33	823.8	0.48	67.15	1470.0	1.90	87.81	2091.6	0.46	52.11	2711.4	1.36	64.43
191.6	0.68	56.27	824.0	0.44	66.38	1470.2	1.99	87.16	2091.8	0.37	52.01	2711.6	1.11	63.00
191.8	0.57	56.16	824.2	0.44	65.13	1470.4	2.73	86.58	2092.0	0.43	51.94	2711.8	1.18	61.82
192.0	0.62	56.07	824.4	0.38	63.71	1470.6	2.36	86.16	2092.2	0.43	51.96	2712.0	1.00	61.14
192.2	0.63	56.11	824.6	0.47	62.45	1470.8	2.21	85.74	2092.4	0.42	52.08	2712.2	1.00	61.01
192.4	0.64	56.32	824.8	0.45	61.55	1471.0	2.10	85.01	2092.6	0.42	52.27	2712.4	0.95	61.27
192.6	0.59	56.68	825.0	0.48	61.02	1471.2	1.95	84.26	2092.8	0.38	52.49	2712.6	0.72	61.79
192.8	0.62	57.12	825.2	0.43	60.77	1471.4	2.37	84.21	2093.0	0.43	52.68	2712.8	1.05	62.40
193.0	0.67	57.58	825.4	0.49	60.84	1471.6	2.23	85.24	2093.2	0.48	52.81	2713.0	1.04	62.95
193.2	0.66	57.98	825.6	0.39	61.35	1471.8	2.46	87.19	2093.4	0.45	52.84	2713.2	1.31	63.30
193.4	0.71	58.29	825.8	0.44	62.51	1472.0	2.91	89.30	2093.6	0.44	52.81	2713.4	1.22	63.42
193.6	0.65	58.54	826.0	0.51	64.29	1472.2	2.54	90.48	2093.8	0.44	52.73	2713.6	1.21	63.37
193.8	0.51	58.87	826.2	0.47	66.37	1472.4	2.40	89.96	2094.0	0.46	52.62	2713.8	1.01	63.25
194.0	0.73	59.42	826.4	0.53	68.34	1472.6	2.10	87.83	2094.2	0.58	52.44	2714.0	1.01	63.15
194.2	0.67	60.29	826.6	0.46	69.90	1472.8	2.37	84.75	2094.4	0.47	52.20	2714.2	0.75	63.21
194.4	0.65	61.51	826.8	0.45	70.96	1473.0	2.14	81.56	2094.6	0.50	52.04	2714.4	1.17	63.57
194.6	0.65	62.95	827.0	0.50	71.50	1473.2	1.89	78.91	2094.8	0.43	52.13	2714.6	1.23	64.30
194.8	0.65	64.34	827.2	0.43	71.61	1473.4	1.93	77.08	2095.0	0.49	52.56	2714.8	1.10	65.33
195.0	0.62	65.40	827.4	0.46	71.16	1473.6	2.21	75.88	2095.2	0.41	53.24	2715.0	0.89	66.45
195.2	0.64	65.94	827.6	0.43	70.01	1473.8	1.41	75.02	2095.4	0.47	53.93	2715.2	0.94	67.46
195.4	0.69	65.95	827.8	0.48	68.12	1474.0	1.68	74.58	2095.6	0.53	54.35	2715.4	1.04	68.55
195.6	0.68	65.53	828.0	0.43	65.71	1474.2	1.60	74.73	2095.8	0.47	54.35	2715.6	1.08	70.09
195.8	0.68	64.95	828.2	0.45	63.19	1474.4	1.65	75.54	2096.0	0.51	53.98	2715.8	1.10	72.21
196.0	0.66	64.54	828.4	0.49	60.94	1474.6	1.89	76.87	2096.2	0.49	53.41	2716.0	0.87	74.70
196.2	0.73	64.50	828.6	0.48	59.24	1475.4	1.76	78.41	2096.4	0.42	52.87	2716.2	1.03	76.98
196.4	0.72	64.89	828.8	0.43	58.10	1475.6	1.83	79.78	2096.6	0.46	52.46	2716.4	0.94	78.17
196.6	0.75	65.55	829.0	0.47	57.40	1475.8	1.53	80.70	2096.8	0.50	52.21	2716.6	1.52	77.63
196.8	0.49	66.06	829.2	0.34	57.04	1476.0	1.30	81.07	2097.0	0.41	52.05	2716.8	1.29	75.38
197.0	0.81	66.05	829.4	0.42	56.98	1476.2	2.08	81.00	2097.2	0.41	51.90	2717.0	0.34	72.07
197.2	0.59	65.33	829.6	0.39	57.13	1476.4	2.22	80.77	2097.4	0.40	51.79	2717.2	0.47	68.54
197.4	0.69	64.04	829.8	0.48	57.40	1476.6	2.34	80.91	2097.6	0.43	51.72	2717.4	0.55	65.57
197.6	0.65	62.53	830.0	0.46	57.66	1476.8	1.41	81.80	2097.8	0.52	51.68	2717.6	0.76	63.61
197.8	0.58	61.26	830.2	0.47	57.91	1477.0	1.88	83.53	2098.0	0.49	51.67	2717.8	0.93	62.66
198.0	0.60	60.57	830.4	0.44	58.39	1477.2	1.92	85.96	2098.2	0.45	51.67	2718.0	1.01	62.50
198.2	0.73	60.81	830.6	0.47	59.31	1477.4	3.09	88.92	2098.4	0.44	51.71	2718.2	0.65	62.92
198.4	0.72	62.24	830.8	0.48	60.68	1477.6	1.74	92.10	2098.6	0.49	51.80	2718.4	0.80	63.51
198.6	0.82	64.78	831.0	0.45	62.21	1477.8	1.64	95.17	2098.8	0.48	51.89	2718.6	0.84	63.93
198.8	0.80	67.95	831.2	0.47	63.38	1478.0	1.53	97.80	2099.0	0.45	51.96	2718.8	0.79	64.04
199.0	0.77	70.82	831.4	0.47	63.72	1478.2								

200.8	0.90	72.19	833.2	0.54	57.49	1480.0	2.87	95.70	2101.0	0.49	51.70	2720.8	0.78	58.49
201.0	0.76	73.06	833.4	0.52	57.64	1480.2	3.04	95.79	2101.2	0.40	51.76	2721.0	0.68	59.55
201.2	0.91	73.40	833.6	0.48	58.04	1480.4	2.85	97.55	2101.4	0.48	51.86	2721.2	0.45	60.78
201.4	0.71	73.39	833.8	0.50	58.65	1480.6	2.23	102.10	2101.6	0.41	52.02	2721.4	0.46	61.76
201.6	0.81	73.16	834.0	0.49	59.33	1480.8	1.92	109.31	2101.8	0.49	52.22	2721.6	0.67	62.29
201.8	0.81	72.72	834.2	0.54	59.90	1481.0	3.49	117.58	2102.0	0.60	52.42	2721.8	0.67	62.57
202.0	0.73	71.88	834.4	0.45	60.21	1481.2	1.05	124.11	2102.2	0.53	52.56	2722.0	0.47	63.16
202.2	0.93	70.41	834.6	0.42	60.24	1481.4	2.88	126.15	2102.4	0.48	52.62	2722.2	0.65	64.59
202.4	0.72	68.36	834.8	0.56	60.25	1481.6	2.71	122.39	2102.6	0.55	52.64	2722.4	0.66	66.81
202.6	0.77	65.99	835.0	0.56	60.49	1481.8	2.77	113.91	2102.8	0.48	52.68	2722.6	0.50	69.15
202.8	0.76	63.75	835.2	0.46	61.06	1482.0	1.93	103.43	2103.0	0.49	52.79	2722.8	0.49	70.58
203.0	0.86	62.14	835.4	0.50	61.80	1482.2	1.56	93.91	2103.2	0.50	52.97	2723.0	0.65	70.38
203.2	0.78	61.45	835.6	0.60	62.38	1482.4	1.12	87.31	2103.4	0.57	53.16	2723.2	0.72	68.51
203.4	0.74	61.68	835.8	0.53	62.46	1482.6	1.53	83.95	2103.6	0.48	53.32	2723.4	0.67	65.72
203.6	0.87	62.58	836.0	0.56	61.93	1482.8	1.53	82.86	2103.8	0.50	53.49	2723.6	0.65	63.03
203.8	0.83	63.83	836.2	0.53	60.96	1483.0	1.71	83.14	2104.0	0.46	53.71	2723.8	0.72	61.18
204.0	0.87	65.12	836.4	0.56	59.88	1483.2	1.72	84.55	2104.2	0.46	53.97	2724.0	0.72	60.44
204.2	0.95	66.02	836.6	0.45	58.99	1483.4	1.62	87.16	2104.4	0.54	54.14	2724.2	0.74	60.57
204.4	0.88	66.22	836.8	0.50	58.44	1483.6	1.61	90.85	2104.6	0.49	54.05	2724.4	0.55	61.15
204.6	0.82	65.66	837.0	0.50	58.34	1483.8	1.50	94.93	2104.8	0.54	53.59	2724.6	0.81	61.81
204.8	0.90	64.64	837.2	0.50	58.81	1484.0	0.87	98.31	2105.0	0.34	52.78	2724.8	0.39	62.35
205.0	1.09	63.70	837.4	0.55	59.88	1484.2	1.53	99.88	2105.2	0.47	51.85	2725.0	0.72	62.61
205.2	0.94	63.27	837.6	0.55	61.45	1484.4	1.51	99.18	2105.4	0.45	51.00	2725.2	0.90	62.44
205.4	0.85	63.44	837.8	0.55	63.23	1484.6	1.27	96.55	2105.6	0.43	50.40	2725.4	0.84	61.71
205.6	1.04	64.15	838.0	0.70	64.76	1484.8	1.37	93.11	2105.8	0.40	50.05	2725.6	0.66	60.37
205.8	1.05	65.26	838.2	0.72	65.54	1485.0	1.52	89.87	2106.0	0.44	49.91	2725.8	0.57	58.58
206.0	0.89	66.61	838.4	0.57	65.41	1485.2	1.44	87.70	2106.2	0.43	49.91	2726.0	0.55	56.83
206.2	0.52	68.14	838.6	0.76	64.66	1485.4	1.07	86.88	2106.4	0.41	50.01	2726.2	0.50	55.69
206.4	0.67	69.65	838.8	0.63	63.72	1485.6	1.22	87.25	2106.6	0.42	50.21	2726.4	0.50	55.72
206.6	0.76	70.79	839.0	0.83	63.08	1485.8	0.83	88.50	2106.8	0.41	50.47	2726.6	0.60	57.05
206.8	0.84	71.15	839.2	0.82	63.03	1486.0	1.34	90.16	2107.0	0.35	50.71	2726.8	0.77	59.25
207.0	0.74	70.48	839.4	0.68	63.53	1486.4	1.38	91.93	2107.2	0.43	50.86	2727.0	0.77	61.49
207.2	0.76	68.84	839.6	0.77	64.22	1486.6	1.46	93.34	2107.4	0.40	50.93	2727.2	0.63	63.06
207.4	0.80	66.64	839.8	0.69	64.65	1486.8	1.30	93.99	2107.6	0.41	50.93	2727.4	0.92	63.87
207.6	0.69	64.51	840.0	0.76	64.54	1487.0	1.33	93.78	2107.8	0.35	50.89	2727.6	0.72	64.37
207.8	0.52	63.04	840.2	0.69	63.73	1487.2	1.14	93.06	2108.0	0.42	50.88	2727.8	0.53	65.16
208.0	0.46	62.39	840.4	0.79	62.35	1487.4	1.18	92.60	2108.2	0.26	50.91	2728.0	0.88	66.45
208.2	0.95	62.40	840.6	0.72	60.71	1487.6	1.29	93.17	2108.4	0.35	51.02	2728.2	1.10	67.82
208.4	0.80	62.82	840.8	0.69	59.14	1487.8	1.07	94.89	2108.6	0.37	51.18	2728.4	0.99	68.52
208.6	0.83	63.34	841.0	0.66	57.92	1488.0	1.35	97.04	2108.8	0.40	51.35	2728.6	0.96	68.04
208.8	1.12	63.89	841.2	0.63	57.16	1488.2	0.78	98.60	2109.0	0.44	51.46	2728.8	0.87	66.42
209.0	0.77	64.47	841.4	0.64	56.84	1488.4	1.05	98.71	2109.2	0.41	51.48	2729.0	0.76	64.14
209.2	1.02	65.06	841.6	0.56	56.81	1488.6	1.34	97.32	2109.4	0.40	51.40	2729.2	0.76	61.89
209.4	0.98	65.54	841.8	0.80	56.93	1488.8	1.40	95.14	2109.6	0.38	51.30	2729.4	0.83	60.11
209.6	0.93	65.82	842.0	0.64	57.06	1489.0	1.38	93.11	2109.8	0.36	51.28	2729.6	0.81	58.90
209.8	0.94	65.88	842.2	0.65	57.16	1489.2	1.22	91.85	2110.0	0.39	51.47	2729.8	0.58	58.05
210.0	1.15	65.72	842.4	0.69	57.34	1489.4	1.11	91.31	2110.2	0.36	51.87	2730.0	0.55	57.38
210.2	1.05	65.53	842.6	0.76	57.87	1489.6	1.27	91.10	2110.4	0.33	52.37	2730.2	0.47	56.90
210.4	0.89	65.55	842.8	0.65	58.96	1489.8	0.97	90.76	2110.6	0.34	52.78	2730.4	0.72	56.74
210.6	1.18	65.92	843.0	0.86	60.70	1490.0	1.03	90.21	2110.8	0.35	52.93	2730.6	0.76	57.01
210.8	1.13	66.67	843.2	0.77	62.88	1490.2	1.14	89.72	2111.0	0.41	52.71	2730.8	0.59	57.68
211.0	1.80	67.74	843.4	0.66	65.10	1490.4	1.22	89.40	2111.2	0.37	52.16	2731.0	0.67	58.52
211.2	2.17	68.90	843.6	0.49	66.94	1490.6	1.18	89.12	2111.4	0.33	51.45	2731.2	0.77	59.20
211.4	1.33	69.80	843.8	0.72	68.15	1490.8	1.23	88.58	2111.6	0.21	50.76	2731.4	0.84	59.47
211.6	1.57	70.17	844.0	0.79	68.68	1491.0	1.25	87.54	2111.8	0.29	50.26	2731.6	0.78	59.32
211.8	1.58	69.81	844.2	0.88	68.65	1491.2	1.04	86.02	2112.0	0.26	50.00	2731.8	0.63	59.12
212.0	1.43	68.70	844.4	0.84	68.15	1491.4	1.04	84.27	2112.2	0.26	49.97	2732.0	0.55	59.30
212.2	2.00	67.25	844.6	0.75	67.22	1491.6	0.83	82.69	2112.4	0.31	50.09	2732.2	0.53	60.05
212.4	1.14	65.97	844.8	0.87	65.94	1491.8	0.69	81.61	2112.6	0.29	50.26	2732.4	0.61	61.15
212.6	1.07	65.18	845.0	0.91	64.43	1492.0	0.75	81.17	2112.8	0.31	50.40	2732.6	0.59	62.06
212.8	0.92	64.85	845.2	0.77	62.97	1492.2	0.79	81.33	2113.0	0.30	50.48	2732.8	0.48	62.23
213.0	1.27	64.76	845.4	0.67	61.98	1492.4	0.72	81.86	2113.2	0.36	50.55	2733.0	0.39	61.54
213.2	1.33	64.77	845.6	0.74	61.70	1492.6	0.82	82.33	2113.4	0.28	50.68	2733.2	0.65	60.34
213.4	1.54	64.90	845.8	0.78	62.02	1492.8	0.76	82.42	2113.6	0.26	50.90	2733.4	0.78	59.16
213.6	1.30	65.35	846.0	0.84	62.65	1493.0	0.62	81.94	2113.8	0.31	51.17	2733.6	0.66	58.36
213.8	1.68	66.20	846.2	0.84	63.24	1493.2	0.84	80.96	2114.0	0.32	51.40	2733.8	0.49	57.97
214.0	1.38	67.22	846.4	0.76	63.58	1493.4	0.82	79.75	2114.2	0.30	51.50	2734.0	0.58	57.80
214.2	1.27	67.97	846.6	0.81	63.66	1493.6	0.72	79.20	2114.4	0.32	51.39	2734.2	0.48	57.56
214.4	1.43	68.07	846.8	0.66	63.66	1493.8	0.72	80.84	2114.6	0.30	51.08	2734.4	0.44	57.19
214.6	1.24	67.43	847.0	0.69	63.74	1494.0	0.68	85.91	2114.8	0.29	50.64	2734.6	0.47	56.82
214.8	1.35	66.26	847.2	0.56	63.94	1494.2	0.79	94.51	2115.0	0.29	50.20	2734.8	0.51	56.57
215.0	1.30	65.05	847.4	0.81	64.21	1494.4	0.74	104.99	2115.2	0.26	49.82	2735.0	0.57	56.45
215.2	1.30	64.18	847.6	0.70	64.42									

217.0	1.14	63.81	849.4	0.77	64.28	1496.4	0.54	86.00	2117.2	0.28	62.41	2737.0	0.54	55.48
217.2	1.08	63.72	849.6	0.73	63.45	1496.6	0.59	84.20	2117.4	0.25	59.65	2737.2	0.52	55.04
217.4	1.30	63.90	849.8	0.68	62.63	1496.8	0.55	82.41	2117.6	0.32	55.99	2737.4	0.51	54.79
217.6	1.15	64.35	850.0	0.68	62.06	1497.0	0.59	80.55	2117.8	0.23	52.61	2737.6	0.52	55.13
217.8	1.27	65.03	850.2	0.82	61.84	1497.2	0.49	78.63	2118.0	0.28	50.28	2737.8	0.43	56.23
218.0	1.28	65.86	850.4	0.66	61.82	1497.4	0.44	76.86	2118.2	0.27	49.22	2738.0	0.45	57.92
218.2	1.23	66.71	850.6	0.85	61.90	1497.6	0.43	75.50	2118.4	0.22	49.09	2738.2	0.50	59.69
218.4	1.28	67.44	850.8	0.79	62.22	1497.8	0.52	74.73	2118.6	0.29	49.38	2738.4	0.37	60.97
218.6	1.10	67.90	851.0	0.78	63.11	1498.0	0.50	74.66	2118.8	0.29	49.77	2738.6	0.41	61.35
218.8	0.85	68.00	851.2	0.71	64.88	1498.2	0.51	75.40	2119.0	0.23	50.13	2738.8	0.42	60.79
219.0	1.24	67.75	851.4	0.53	67.58	1498.4	0.45	77.11	2119.2	0.26	50.39	2739.0	0.48	59.65
219.2	1.19	67.28	851.6	1.05	70.74	1498.6	0.43	79.85	2119.4	0.30	50.53	2739.2	0.49	58.38
219.4	1.29	66.96	851.8	1.28	73.47	1498.8	0.51	83.43	2119.6	0.25	50.54	2739.4	0.48	57.33
219.6	1.43	67.25	852.0	1.18	74.97	1499.0	0.50	87.30	2119.8	0.27	50.36	2739.6	0.49	56.61
219.8	1.54	68.49	852.2	1.06	75.00	1499.2	0.52	90.65	2120.0	0.27	50.03	2739.8	0.48	56.10
220.0	1.44	70.57	852.4	1.27	73.96	1499.4	0.60	92.57	2120.2	0.26	49.66	2740.0	0.43	55.60
220.2	0.36	73.02	852.6	0.57	72.68	1499.6	0.52	92.46	2120.4	0.29	49.51	2740.2	0.38	55.04
220.4	1.29	75.18	852.8	0.64	71.92	1499.8	0.50	90.26	2120.6	0.32	49.79	2740.4	0.38	54.46
220.6	1.81	76.38	853.0	0.88	71.92	1500.0	0.52	86.43	2120.8	0.27	50.48	2740.6	0.45	53.91
220.8	2.09	76.37	853.2	0.83	72.34	1500.2	0.52	81.86	2121.0	0.33	51.38	2740.8	0.48	53.44
221.0	2.37	75.53	853.4	1.38	72.65	1500.4	0.52	77.53	2121.2	0.29	52.15	2741.0	0.45	53.07
221.2	1.55	74.69	853.6	1.17	72.43	1500.6	0.50	74.22	2121.4	0.31	52.46	2741.2	0.37	52.84
221.4	2.06	74.53	853.8	1.14	71.60	1500.8	0.34	72.33	2121.6	0.28	52.24	2741.4	0.37	52.75
221.6	1.36	75.23	854.0	1.31	70.37	1501.0	0.40	71.93	2121.8	0.25	51.63	2741.6	0.38	52.80
221.8	1.08	76.38	854.2	1.30	69.13	1501.2	0.43	72.82	2122.0	0.25	50.87	2741.8	0.39	52.92
222.0	1.48	77.34	854.4	1.28	68.25	1501.4	0.53	74.57	2122.2	0.26	50.19	2742.0	0.39	53.03
222.2	1.31	77.67	854.6	1.08	67.98	1501.6	0.48	76.61	2122.4	0.27	49.67	2742.2	0.37	53.06
222.4	1.00	77.38	854.8	1.20	68.33	1501.8	0.57	78.44	2122.6	0.22	49.29	2742.4	0.38	53.07
222.6	0.74	76.83	855.0	0.60	69.15	1502.0	0.69	79.71	2122.8	0.26	48.97	2742.6	0.34	53.11
222.8	1.65	76.31	855.2	1.20	70.16	1502.2	0.68	80.29	2123.0	0.27	48.73	2742.8	0.33	53.21
223.0	1.35	76.01	855.4	0.98	71.02	1502.4	0.65	80.18	2123.2	0.24	48.54	2743.0	0.39	53.36
223.2	0.83	75.95	855.6	1.24	71.43	1502.6	0.56	79.48	2123.4	0.24	48.40	2743.2	0.37	53.49
223.4	1.93	76.04	855.8	1.30	71.30	1502.8	0.51	78.38	2123.6	0.28	48.29	2743.4	0.45	53.54
223.6	1.50	76.34	856.0	1.29	70.72	1503.0	0.48	77.15	2123.8	0.28	48.24	2743.6	0.42	53.51
223.8	2.21	77.01	856.2	1.16	69.87	1503.2	0.40	76.10	2124.0	0.26	48.29	2743.8	0.42	53.46
224.0	2.24	78.36	856.4	1.19	68.93	1503.4	0.44	75.45	2124.2	0.22	48.50	2744.0	0.40	53.44
224.2	2.27	80.56	856.6	1.05	68.00	1503.6	0.57	75.29	2124.4	0.25	48.86	2744.2	0.52	53.49
224.4	2.26	83.43	856.8	0.98	67.14	1503.8	0.52	75.53	2124.6	0.24	49.32	2744.4	0.50	53.55
224.6	2.19	86.53	857.0	1.06	66.34	1504.0	0.67	75.92	2124.8	0.26	49.78	2744.6	0.43	53.60
224.8	2.60	89.10	857.2	1.09	65.67	1504.2	0.87	76.22	2125.0	0.22	50.09	2744.8	0.27	53.61
225.0	2.82	90.28	857.4	1.20	65.22	1504.4	0.62	76.29	2125.2	0.26	50.19	2745.0	0.33	53.60
225.2	1.96	89.49	857.6	0.90	65.02	1504.6	0.55	76.15	2125.4	0.23	50.08	2745.2	0.34	53.64
225.4	2.73	86.83	857.8	1.14	65.09	1504.8	0.63	75.88	2125.6	0.23	49.87	2745.4	0.32	53.75
225.6	1.17	83.07	858.0	0.97	65.38	1505.0	0.59	75.61	2125.8	0.19	49.72	2745.6	0.32	53.94
225.8	0.70	79.35	858.2	1.13	65.87	1505.2	0.59	75.40	2126.0	0.19	49.74	2745.8	0.37	54.13
226.0	1.22	76.60	858.4	1.16	66.61	1505.4	0.59	75.27	2126.2	0.20	49.97	2746.0	0.30	54.21
226.2	1.79	75.24	858.6	1.06	67.63	1505.6	0.59	75.23	2126.4	0.19	50.37	2746.2	0.33	54.10
226.4	1.72	74.98	858.8	1.47	68.84	1505.8	0.62	75.22	2126.6	0.16	50.86	2746.4	0.28	53.78
226.6	1.42	75.26	859.0	1.13	69.98	1506.0	0.83	75.08	2126.8	0.23	51.36	2746.6	0.27	53.31
226.8	1.68	75.58	859.2	1.19	70.70	1506.2	0.81	74.71	2127.0	0.23	51.87	2746.8	0.31	52.82
227.0	0.98	75.58	859.4	1.04	70.77	1506.4	0.89	74.07	2127.2	0.29	52.37	2747.0	0.36	52.47
227.2	1.84	75.09	859.6	0.57	70.17	1506.6	0.73	73.23	2127.4	0.31	52.89	2747.2	0.44	52.30
227.4	2.81	74.04	859.8	1.18	69.15	1506.8	0.48	72.31	2127.6	0.34	53.39	2747.4	0.40	52.30
227.6	2.22	72.44	860.0	1.28	68.32	1507.0	0.47	71.47	2127.8	0.43	53.77	2747.6	0.37	52.36
227.8	1.51	70.53	860.2	1.44	68.20	1507.2	0.51	70.79	2128.0	0.39	53.95	2747.8	0.31	52.39
228.0	0.95	68.76	860.4	0.76	68.94	1507.4	0.68	70.25	2128.2	0.38	53.90	2748.0	0.24	52.37
228.2	1.09	67.69	860.6	1.21	70.27	1507.6	0.64	69.82	2128.4	0.42	53.64	2748.2	0.28	52.32
228.4	1.09	67.72	860.8	1.17	71.61	1507.8	0.49	69.47	2128.6	0.39	53.27	2748.4	0.33	52.29
228.6	1.53	68.98	861.0	0.50	72.44	1508.0	0.58	69.26	2128.8	0.41	52.87	2748.6	0.34	52.25
228.8	1.79	71.26	861.2	1.11	72.60	1508.2	0.52	69.33	2129.0	0.25	52.48	2748.8	0.40	52.15
229.0	1.99	74.08	861.4	1.24	72.32	1508.4	0.47	69.84	2129.2	0.27	52.09	2749.0	0.42	51.95
229.2	1.80	76.79	861.6	1.03	71.97	1508.6	0.51	70.82	2129.4	0.30	51.70	2749.2	0.26	51.68
229.4	2.34	78.99	861.8	1.95	71.88	1508.8	0.48	72.26	2129.6	0.28	51.35	2749.4	0.31	51.38
229.6	2.45	80.72	862.0	1.46	72.12	1509.0	0.66	74.17	2129.8	0.31	51.10	2749.6	0.39	51.12
229.8	1.39	82.18	862.2	1.57	72.59	1509.2	0.74	76.33	2130.0	0.27	51.03	2749.8	0.38	50.92
230.0	1.55	83.49	862.4	1.93	73.08	1509.4	0.78	78.45	2130.2	0.28	51.17	2750.0	0.38	50.81
230.2	1.72	84.53	862.6	1.48	73.36	1509.6	0.78	80.27	2130.4	0.30	51.45	2750.2	0.43	50.81
230.4	1.62	84.92	862.8	2.02	73.46	1509.8	1.00	81.56	2130.6	0.27	51.65	2750.4	0.37	50.92
230.6	2.02	84.40	863.0	1.73	73.46	1510.0	0.86	82.14	2130.8	0.28	51.59	2750.6	0.47	51.13
230.8	2.78	83.03	863.2	1.33	73.59	1510.2	0.83	81.95	2131.0	0.26	51.15	2750.8	0.45	51.42
231.0	2.30	81.34	863.4	1.35	73.98	1510.4	0.81	81.11	2131.2	0.23	50.39	2751.0	0.60	51.96
231.2	1.45	80.02	863.6	1.21	74.83	1510.6	0.75	79.74	2131.4	0.19	49.49	2751.2	0.61	52.96
231.4	2.17	79.47	863.8	1.30	76.08	1510.8								

233.2	2.78	78.72	867.2	3.04	78.51	1512.6	0.56	76.64	2133.4	0.25	46.93	2753.2	0.43	56.90
233.4	2.98	77.63	867.4	3.56	77.26	1512.8	0.64	80.64	2133.6	0.22	47.05	2753.4	0.68	55.08
233.6	3.13	76.33	867.6	2.45	76.40	1513.0	0.94	83.66	2133.8	0.22	47.20	2753.6	0.70	54.28
233.8	3.16	75.01	867.8	3.28	76.49	1513.2	0.86	84.78	2134.0	0.21	47.37	2753.8	0.58	54.22
234.0	2.49	73.90	868.0	3.30	77.75	1513.4	0.65	83.89	2134.2	0.22	47.52	2754.0	0.51	54.47
234.2	0.96	73.20	868.2	3.30	79.79	1513.6	0.56	81.56	2134.4	0.22	47.61	2754.2	0.76	54.99
234.4	2.13	72.94	868.4	3.74	81.81	1513.8	0.70	78.79	2134.6	0.18	47.68	2754.4	0.61	56.06
234.6	2.49	73.20	868.6	3.60	82.94	1514.0	0.62	76.35	2134.8	0.21	47.78	2754.6	0.63	57.92
234.8	1.49	74.15	868.8	3.43	82.71	1514.2	0.65	74.63	2135.0	0.20	47.97	2754.8	0.56	60.50
235.0	1.35	75.95	869.0	2.98	81.33	1514.4	0.62	73.51	2135.2	0.21	48.30	2755.0	0.84	63.32
235.2	1.12	78.67	869.2	3.68	79.53	1514.6	0.51	72.65	2135.4	0.20	48.72	2755.2	1.18	65.57
235.4	0.93	82.28	869.4	3.87	78.09	1514.8	0.54	71.91	2135.6	0.18	49.04	2755.4	1.73	66.52
235.6	1.14	86.65	869.6	4.19	77.42	1515.0	0.38	71.63	2135.8	0.19	49.09	2755.6	1.14	65.87
235.8	2.18	91.76	869.8	3.42	77.42	1515.2	0.56	72.24	2136.0	0.15	48.80	2755.8	0.99	63.99
236.0	2.15	97.85	870.0	3.61	77.72	1515.4	0.63	74.06	2136.2	0.21	48.25	2756.0	0.76	61.87
236.2	2.04	104.88	870.2	3.14	77.95	1515.6	0.65	77.11	2136.4	0.16	47.59	2756.2	0.68	60.65
236.4	2.62	112.10	870.4	3.10	78.17	1515.8	0.75	80.92	2136.6	0.15	47.00	2756.4	0.76	61.09
236.6	2.63	118.25	870.6	2.51	78.52	1516.0	0.88	84.80	2136.8	0.16	46.65	2756.6	0.78	63.03
236.8	2.50	122.24	870.8	3.15	79.04	1516.2	0.98	88.05	2137.0	0.16	46.61	2756.8	0.73	65.45
237.0	2.34	123.73	871.0	4.45	79.63	1516.4	1.13	90.21	2137.2	0.15	46.78	2757.0	1.05	67.05
237.2	2.29	123.20	871.2	4.25	80.06	1516.6	1.32	91.08	2137.4	0.14	47.04	2757.2	0.87	66.97
237.4	2.39	121.76	871.4	2.78	80.03	1516.8	1.12	90.76	2137.6	0.15	47.18	2757.4	0.68	65.22
237.6	2.52	120.29	871.6	2.58	79.38	1517.0	1.09	89.49	2137.8	0.16	47.05	2757.6	0.53	62.64
237.8	2.31	118.89	871.8	1.97	78.17	1517.2	0.75	87.57	2138.0	0.14	46.63	2757.8	0.49	60.34
238.0	1.86	117.20	872.0	3.70	76.64	1517.4	0.71	85.20	2138.2	0.12	46.07	2758.0	0.49	59.03
238.2	1.55	114.86	872.2	3.47	75.12	1517.6	0.65	82.64	2138.4	0.09	45.53	2758.2	0.89	58.67
238.4	1.50	111.83	872.4	3.37	73.90	1517.8	0.69	80.14	2138.6	0.12	45.19	2758.4	0.77	58.64
238.6	1.79	108.48	872.6	3.88	73.11	1518.0	0.67	77.81	2138.8	0.13	45.08	2758.6	0.74	58.33
238.8	2.47	105.38	872.8	3.74	72.75	1518.2	0.55	75.70	2139.0	0.15	45.11	2758.8	0.55	57.55
239.0	2.54	103.11	873.0	3.68	72.72	1518.4	0.50	73.77	2139.2	0.11	45.17	2759.0	0.47	56.60
239.2	2.56	101.91	873.2	3.47	72.93	1518.6	0.60	72.02	2139.4	0.12	45.18	2759.2	0.42	55.92
239.4	2.44	101.94	873.4	2.10	73.25	1518.8	0.56	70.61	2139.6	0.10	45.16	2759.4	0.49	55.66
239.6	1.66	103.05	873.6	2.04	73.62	1519.0	0.57	69.76	2139.8	0.11	45.17	2759.6	0.68	55.65
239.8	2.78	104.61	873.8	1.62	74.17	1519.2	0.54	69.76	2140.0	0.11	45.19	2759.8	0.81	55.63
240.0	3.19	105.56	874.0	1.37	75.24	1519.4	0.50	70.70	2140.2	0.11	45.19	2760.0	0.74	55.73
240.2	3.54	105.04	874.2	1.78	77.28	1519.6	0.55	72.34	2140.4	0.11	45.19	2760.2	0.48	56.20
240.4	3.22	102.85	874.4	1.89	80.38	1519.8	0.56	74.16	2140.6	0.10	45.29	2760.4	0.43	57.25
240.6	2.99	99.58	874.6	1.95	84.05	1520.0	0.60	75.52	2140.8	0.09	45.74	2760.6	0.46	58.73
240.8	2.92	96.25	874.8	2.40	87.37	1520.2	0.82	76.02	2141.0	0.10	46.69	2760.8	0.65	60.12
241.0	3.43	93.71	875.0	1.45	89.42	1520.4	0.64	75.76	2141.2	0.10	48.10	2761.0	0.93	60.81
241.2	3.16	92.31	875.2	1.48	89.75	1520.6	0.64	75.21	2141.4	0.10	49.80	2761.2	0.64	60.54
241.4	3.60	91.87	875.6	1.01	88.62	1520.8	0.59	74.97	2141.6	0.11	51.62	2761.4	0.58	59.65
241.6	4.06	92.11	875.8	1.21	86.93	1521.0	0.62	75.38	2141.8	0.13	53.62	2761.6	0.38	58.78
241.8	3.97	92.91	876.0	1.15	85.62	1521.2	0.70	76.32	2142.0	0.14	55.78	2761.8	0.66	58.55
242.0	3.13	94.06	876.2	1.17	85.26	1521.4	0.60	77.32	2142.2	0.15	57.83	2762.0	0.72	59.21
242.2	2.60	95.30	876.4	1.17	85.88	1521.6	0.72	77.83	2142.4	0.10	59.25	2762.2	0.83	60.64
242.4	3.89	96.35	876.6	1.20	87.22	1521.8	0.80	77.44	2142.6	0.09	59.36	2762.4	0.86	62.68
242.6	3.62	97.00	876.8	1.19	88.84	1522.0	0.68	76.15	2142.8	0.10	57.76	2762.6	1.27	65.34
242.8	3.97	97.25	877.0	1.41	90.37	1522.2	0.51	74.45	2143.0	0.07	54.67	2762.8	0.92	68.65
243.0	3.26	97.23	877.2	1.44	91.44	1522.4	0.44	73.14	2143.2	0.08	50.88	2763.0	0.95	72.21
243.2	3.24	97.02	877.4	1.79	91.53	1522.6	0.57	72.97	2143.4	0.08	47.36	2763.2	1.54	75.14
243.4	3.47	96.55	877.6	2.34	90.33	1522.8	0.49	74.21	2143.6	0.06	44.78	2763.4	0.56	76.55
243.6	3.43	95.73	877.8	2.68	87.95	1523.0	0.84	76.52	2143.8	0.06	43.30	2763.6	1.54	76.00
243.8	3.14	94.71	878.0	2.23	85.12	1523.2	1.31	78.99	2144.0	0.08	42.63	2763.8	1.03	73.83
244.0	2.66	93.70	878.2	2.29	82.95	1523.4	1.65	80.62	2144.2	0.07	42.28	2764.0	0.65	70.97
244.2	2.92	92.88	878.4	2.56	82.42	1523.6	1.27	80.90	2144.4	0.08	41.97	2764.2	1.24	68.47
244.4	3.07	92.17	878.6	1.97	83.80	1523.8	0.81	80.00	2144.6	0.08	41.64	2764.4	0.97	66.77
244.6	2.64	91.26	878.8	2.65	86.48	1524.0	0.65	78.64	2144.8	0.08	41.27	2764.6	1.04	65.75
244.8	3.44	89.73	879.0	2.24	89.34	1524.2	0.62	77.56	2145.0	0.07	40.86	2764.8	0.59	64.82
245.0	1.92	87.47	879.2	2.87	91.28	1524.4	0.69	77.09	2145.2	0.06	40.49	2765.0	1.20	63.53
245.2	2.36	84.77	879.4	2.70	91.78	1524.6	0.65	76.96	2145.4	0.06	40.23	2765.2	0.67	61.81
245.4	1.60	82.16	879.6	2.16	91.19	1524.8	0.88	76.55	2145.6	0.06	40.11	2765.4	0.31	59.95
245.6	1.54	80.02	879.8	1.82	90.30	1525.0	0.72	75.43	2145.8	0.06	40.13	2765.6	0.37	58.34
245.8	1.39	78.45	880.0	1.79	89.67	1525.2	0.68	73.66	2146.0	0.07	40.20	2765.8	0.23	57.17
246.0	1.50	77.33	880.2	2.28	89.37	1525.4	0.50	71.75	2146.2	0.06	40.23	2766.0	0.39	56.53
246.2	1.17	76.38	880.4	2.66	89.08	1525.6	0.57	70.41	2146.4	0.06	40.21	2766.2	0.37	56.64
246.4	0.79	75.45	880.6	2.05	88.34	1525.8	0.55	70.15	2146.6	0.06	40.16	2766.4	0.41	57.71
246.6	1.51	74.65	880.8	3.06	86.93	1526.0	0.61	71.15	2146.8	0.06	40.15	2766.6	0.47	59.57
246.8	1.47	74.14	881.0	1.64	85.12	1526.2	0.78	73.27	2147.0	0.06	40.22	2766.8	0.67	61.79
247.0	0.95	73.97	881.2	2.36	83.61	1526.4	0.88	76.13	2147.2	0.06	40.38	2767.0	0.68	63.72
247.2	1.11	73.98	881.4	3.01	82.92	1526.6	1.08	79.26	2147.4	0.06	40.58	2767.2	0.45	64.72
247.4	1.17	73.89	881.6	3.72	83.11	1526.8	0.95	82.20	2147.6	0.06	40.72	2767.4	0.72	64.50
247.6	1.05	73.46	881.8	3.57</td										

249.4	0.96	65.64	883.6	2.10	85.40	1528.8	0.99	83.83	2149.6	0.05	39.33	2769.4	0.43	65.23
249.6	0.75	64.73	883.8	2.80	90.43	1529.0	0.89	83.78	2149.8	0.05	39.32	2769.6	0.60	64.42
249.8	0.81	64.01	884.0	2.88	95.36	1529.2	1.14	83.81	2150.0	0.05	39.35	2769.8	0.61	63.76
250.0	0.79	63.59	884.2	2.34	98.46	1529.4	1.02	83.91	2150.2	0.04	39.41	2770.0	0.49	63.49
250.2	1.00	63.86	884.4	2.77	98.55	1529.6	0.75	84.10	2150.4	0.04	39.45	2770.2	0.58	63.70
250.4	0.95	65.15	884.6	2.75	95.75	1529.8	0.80	84.33	2150.6	0.05	39.41	2770.4	0.53	64.36
250.6	0.81	67.37	884.8	2.05	91.29	1530.0	0.89	84.83	2150.8	0.05	39.27	2770.6	0.45	65.28
250.8	0.80	69.85	885.0	2.13	86.75	1530.2	0.88	86.03	2151.0	0.04	39.07	2770.8	0.48	66.11
251.0	0.88	71.65	885.2	2.53	83.26	1530.4	0.84	88.13	2151.2	0.04	38.87	2771.0	0.46	66.49
251.2	0.90	71.88	885.4	2.27	81.54	1530.6	0.95	90.91	2151.4	0.04	38.78	2771.2	0.59	66.21
251.4	0.73	70.38	885.6	2.20	81.97	1530.8	0.97	93.63	2151.6	0.04	38.79	2771.4	0.60	65.32
251.6	0.77	68.00	885.8	1.21	84.39	1531.0	1.11	95.30	2151.8	0.04	38.87	2771.6	0.62	64.10
251.8	0.71	65.92	886.0	1.97	88.44	1531.2	0.82	95.27	2152.0	0.04	38.97	2771.8	0.51	62.88
252.0	0.82	64.97	886.2	1.85	93.36	1531.4	1.02	93.61	2152.2	0.04	39.07	2772.0	0.53	61.84
252.2	0.54	65.13	886.4	2.48	97.89	1531.6	0.85	91.10	2152.4	0.04	39.13	2772.2	0.47	60.93
255.6	0.91	65.72	886.6	2.17	100.87	1531.8	0.85	88.67	2152.6	0.04	39.12	2772.4	0.55	60.05
255.8	0.74	65.79	886.8	1.88	101.94	1532.0	0.75	86.88	2152.8	0.04	39.03	2772.6	0.47	59.09
256.0	0.80	64.87	887.0	2.26	101.66	1532.2	0.85	85.73	2153.0	0.04	38.85	2772.8	0.51	58.18
256.2	0.76	63.29	887.2	2.55	101.10	1532.4	0.64	84.81	2153.2	0.04	38.60	2773.0	0.49	57.61
256.4	0.77	61.69	887.4	2.61	101.25	1532.6	0.79	83.77	2153.4	0.03	38.37	2773.2	0.53	57.63
256.6	0.91	60.63	887.6	2.74	102.41	1532.8	0.65	82.65	2153.6	0.03	38.27	2773.4	0.47	58.14
256.8	0.77	60.34	887.8	2.77	104.07	1533.0	0.67	81.77	2153.8	0.04	38.37	2773.6	0.44	58.78
257.0	0.78	60.63	888.0	2.62	105.14	1533.2	0.79	81.29	2154.0	0.03	38.62	2773.8	0.46	59.13
257.2	0.73	61.04	888.2	2.61	104.76	1533.4	0.84	81.09	2154.2	0.03	38.97	2774.0	0.42	58.92
257.4	0.77	61.28	888.4	2.59	102.57	1533.6	0.66	80.93	2154.4	0.04	39.28	2774.2	0.35	58.18
257.6	0.76	61.26	888.6	2.06	98.80	1533.8	0.78	80.63	2154.6	0.04	39.41	2774.4	0.35	57.19
257.8	0.70	61.04	888.8	1.38	94.18	1534.0	0.57	80.17	2154.8	0.04	39.34	2774.6	0.27	56.28
258.0	0.78	60.93	889.0	1.64	89.61	1534.2	0.56	79.65	2155.0	0.03	39.09	2774.8	0.36	55.61
258.2	0.70	61.20	889.2	0.88	85.79	1534.4	0.52	79.17	2155.2	0.04	38.78	2775.0	0.31	55.17
258.4	0.79	61.99	889.4	1.48	82.92	1534.6	0.62	78.76	2155.4	0.03	38.53	2775.2	0.29	54.81
258.6	0.55	63.13	889.6	1.12	80.88	1534.8	0.57	78.36	2155.6	0.03	38.42	2775.4	0.41	54.37
258.8	0.67	64.25	889.8	1.03	79.58	1535.0	0.69	77.91	2155.8	0.04	38.50	2775.6	0.36	53.88
259.0	0.84	64.84	890.0	1.38	79.13	1535.2	0.66	77.42	2156.0	0.04	38.75	2775.8	0.40	53.47
259.2	0.75	64.60	890.2	1.23	79.65	1535.4	0.55	77.02	2156.2	0.03	39.18	2776.0	0.34	53.23
259.4	0.74	63.58	890.4	0.76	81.00	1535.6	0.59	76.81	2156.4	0.04	39.78	2776.2	0.38	53.22
259.6	0.66	62.07	890.6	1.05	82.65	1535.8	0.58	76.80	2156.6	0.03	40.46	2776.4	0.40	53.42
259.8	0.64	60.50	890.8	1.24	83.78	1536.0	0.56	76.89	2156.8	0.04	41.10	2776.6	0.40	53.74
260.0	0.66	59.23	891.0	1.39	83.75	1536.2	0.49	76.91	2157.0	0.04	41.58	2776.8	0.40	53.99
260.2	0.65	58.49	891.2	1.10	82.35	1536.4	0.59	76.83	2157.2	0.05	41.86	2777.0	0.34	54.00
260.4	0.64	58.24	891.4	0.44	79.98	1536.6	0.53	76.72	2157.4	0.05	41.94	2777.2	0.36	53.71
260.6	0.65	58.22	891.6	0.56	77.29	1536.8	0.63	76.76	2157.6	0.04	41.94	2777.4	0.35	53.17
260.8	0.57	58.19	891.8	0.87	74.95	1537.0	0.70	77.03	2157.8	0.05	41.97	2777.6	0.29	52.50
261.0	0.63	57.99	892.0	0.87	73.34	1537.2	0.44	77.60	2158.0	0.05	42.11	2777.8	0.26	51.82
261.2	0.66	57.65	892.2	1.12	72.44	1537.4	0.60	78.56	2158.2	0.05	42.40	2778.0	0.32	51.40
261.4	0.57	57.31	892.4	1.07	72.07	1537.6	0.57	79.81	2158.4	0.05	42.82	2778.2	0.36	51.46
261.6	0.68	57.13	892.6	0.87	72.04	1537.8	0.59	81.11	2158.6	0.05	43.33	2778.4	0.35	52.11
261.8	0.56	57.23	892.8	0.98	72.32	1538.0	0.57	82.16	2158.8	0.05	43.88	2778.6	0.23	53.23
262.0	0.63	57.63	893.0	1.07	72.93	1538.2	0.89	82.76	2159.0	0.06	44.43	2778.8	0.30	54.59
262.2	0.53	58.21	893.2	0.89	73.88	1538.4	1.00	82.89	2159.2	0.07	44.94	2779.0	0.34	55.97
262.4	0.37	58.83	893.4	0.81	75.01	1538.6	0.56	82.81	2159.4	0.06	45.40	2779.2	0.36	57.31
262.6	0.64	59.29	893.6	0.59	76.08	1538.8	0.68	82.93	2159.6	0.08	45.87	2779.4	0.34	58.66
262.8	0.68	59.43	893.8	0.62	76.74	1539.0	0.75	83.50	2159.8	0.07	46.36	2779.6	0.26	60.00
263.0	0.60	59.19	894.0	0.89	76.78	1539.2	0.72	84.41	2160.0	0.09	46.93	2779.8	0.35	61.11
263.2	0.70	58.62	894.2	0.72	76.19	1539.4	0.89	85.20	2160.2	0.08	47.66	2780.0	0.38	61.65
263.4	0.60	57.95	894.4	0.78	75.15	1539.6	0.81	85.27	2160.4	0.10	48.60	2780.2	0.34	61.30
263.6	0.63	57.46	894.6	0.63	73.88	1539.8	0.79	84.13	2160.6	0.10	49.80	2780.4	0.32	59.91
263.8	0.62	57.37	894.8	0.62	72.65	1540.0	0.93	81.76	2160.8	0.10	51.34	2780.6	0.38	57.68
264.0	0.68	57.67	895.0	0.83	71.66	1540.2	0.93	78.66	2161.0	0.11	53.16	2780.8	0.30	55.16
264.2	0.75	58.09	895.2	0.76	71.03	1540.4	0.64	75.55	2161.2	0.15	55.07	2781.0	0.34	52.91
264.4	0.85	58.27	895.4	0.68	70.92	1540.6	0.46	73.19	2161.4	0.18	56.91	2781.2	0.27	51.30
264.6	0.77	58.01	895.6	0.70	71.48	1540.8	0.40	72.05	2161.6	0.45	58.55	2781.4	0.24	50.44
264.8	0.68	57.28	895.8	0.69	72.64	1541.0	0.45	72.10	2161.8	0.31	59.96	2781.6	0.21	50.42
265.0	0.59	56.32	896.0	0.75	74.11	1541.2	0.42	72.94	2162.0	0.23	61.20	2781.8	0.24	51.11
265.2	0.64	55.49	896.2	0.68	75.49	1541.4	0.59	74.02	2162.2	0.33	62.36	2782.0	0.26	52.25
265.4	0.63	55.13	896.4	0.68	76.35	1541.6	0.56	74.92	2162.4	0.36	63.46	2782.2	0.20	53.45
265.6	0.63	55.41	896.6	0.75	76.51	1541.8	0.50	75.62	2162.6	0.32	64.38	2782.4	0.30	54.37
265.8	0.69	56.29	896.8	0.88	76.11	1542.0	0.54	76.34	2162.8	0.43	65.04	2782.6	0.23	54.92
266.0	0.64	57.55	897.0	0.56	75.55	1542.2	0.52	77.28	2163.0	0.45	65.42	2782.8	0.29	55.47
266.2	0.72	58.84	897.2	0.75	75.17	1542.4	0.49	78.47	2163.2	0.36	65.53	2783.0	0.29	56.50
266.4	0.81	59.78	897.4	0.80	75.13	1542.6	0.59	79.62	2163.4	0.30	65.56	2783.2	0.23	58.11
266.6	0.82	60.10	897.6	0.66	75.33	1542.8	0.61	80.36	2163.6	0.31	65.71	2783.4	0.32	59.94
266.8	0.81	59.78	897.8	0.51	75.40	1543.0	0.54	80.40	2163.8	0.38	66.08	2783.6	0.34	61.24
267.0	0.67	58.99	898.0	0.38	75.02									

268.8	0.64	58.29	899.8	0.63	69.18	1545.0	0.73	78.25	2165.8	0.46	68.01	2785.6	0.32	49.78
269.0	0.87	59.67	900.0	0.66	68.74	1545.2	0.87	78.25	2166.0	0.41	67.61	2785.8	0.24	49.58
269.2	0.83	61.23	900.2	0.57	67.98	1545.4	0.66	78.28	2166.2	0.42	67.29	2786.0	0.29	49.59
269.4	0.94	62.71	900.4	0.76	67.09	1545.6	0.70	78.23	2166.4	0.62	67.08	2786.2	0.32	49.81
269.6	0.83	63.82	900.6	0.64	66.33	1545.8	0.69	77.97	2166.6	0.51	67.02	2786.4	0.28	50.21
269.8	0.82	64.35	900.8	0.62	65.93	1546.0	0.82	77.42	2166.8	0.49	67.20	2786.6	0.30	50.69
270.0	0.68	64.23	901.0	0.54	65.94	1546.2	0.60	76.65	2167.0	0.62	67.71	2786.8	0.34	51.12
270.2	0.63	63.49	901.2	0.63	66.17	1546.4	0.61	75.81	2167.2	0.63	68.69	2787.0	0.24	51.40
270.4	0.82	62.33	901.4	0.60	66.37	1546.6	0.61	75.04	2167.4	0.44	70.08	2787.2	0.36	51.57
270.6	0.70	61.00	901.6	0.57	66.33	1546.8	0.73	74.47	2167.6	0.44	71.56	2787.4	0.37	51.69
270.8	0.62	59.77	901.8	0.51	66.05	1547.0	0.71	74.14	2167.8	0.82	72.63	2787.6	0.38	51.80
271.0	0.69	58.84	902.0	0.39	65.64	1547.2	0.72	74.12	2168.0	0.52	72.91	2787.8	0.39	51.89
271.2	0.83	58.29	902.2	0.52	65.26	1547.4	0.65	74.48	2168.2	0.56	72.29	2788.0	0.39	51.92
271.4	0.80	58.06	902.4	0.50	64.99	1547.6	0.62	75.22	2168.4	0.54	71.00	2788.2	0.39	52.32
271.6	0.66	57.99	902.6	0.49	64.88	1547.8	0.74	76.19	2168.6	0.75	69.55	2788.4	0.37	53.60
271.8	0.63	57.94	902.8	0.49	64.87	1548.0	1.41	77.29	2168.8	0.47	68.45	2788.6	0.35	55.81
272.0	0.67	57.87	903.0	0.45	64.91	1548.2	0.98	78.42	2169.0	0.62	67.96	2788.8	0.41	58.52
272.2	0.71	57.83	903.2	0.45	64.90	1548.4	0.66	79.48	2169.2	0.70	68.01	2789.0	0.40	60.89
272.4	0.64	57.88	903.4	0.50	64.79	1548.6	0.79	80.38	2169.4	0.64	68.28	2789.2	0.38	62.16
272.6	0.66	58.06	903.6	0.45	64.56	1548.8	0.88	80.87	2169.6	0.72	68.38	2789.4	0.42	62.06
272.8	0.60	58.27	903.8	0.50	64.25	1549.0	0.78	80.65	2169.8	0.73	68.15	2789.6	0.38	61.10
273.0	0.76	58.40	904.0	0.40	63.95	1549.2	0.90	79.47	2170.0	0.51	67.75	2789.8	0.46	59.98
273.2	0.84	58.35	904.2	0.49	63.72	1549.4	0.92	77.37	2170.2	0.69	67.49	2790.0	0.58	59.19
273.4	0.64	58.15	904.4	0.42	63.54	1549.6	0.93	74.70	2170.4	0.68	67.62	2790.2	0.67	58.71
273.6	0.61	57.94	904.6	0.34	63.37	1549.8	0.67	71.94	2170.6	0.68	68.27	2790.4	0.45	58.29
273.8	0.71	57.89	904.8	0.35	63.19	1550.0	0.60	69.55	2170.8	0.77	69.34	2790.6	0.35	57.62
274.0	0.68	58.12	905.0	0.35	63.05	1550.2	0.58	67.75	2171.0	0.86	70.52	2790.8	0.42	56.71
274.2	0.78	58.63	905.2	0.38	63.01	1550.4	0.57	66.62	2171.2	0.60	71.41	2791.0	0.48	55.98
274.4	0.84	59.35	905.4	0.42	63.07	1550.6	0.55	66.24	2171.4	0.95	71.77	2791.2	0.32	55.58
274.6	0.74	60.08	905.6	0.38	63.21	1550.8	0.55	66.66	2171.6	1.27	71.56	2791.4	0.37	55.35
274.8	0.83	60.63	905.8	0.41	63.38	1551.0	0.57	67.87	2171.8	0.98	71.02	2791.6	0.42	54.97
275.0	0.76	60.83	906.0	0.40	63.50	1551.2	0.69	69.63	2172.0	0.76	70.50	2791.8	0.47	54.29
275.2	0.84	60.66	906.2	0.42	63.57	1551.4	0.87	71.41	2172.2	0.72	70.33	2792.0	0.45	53.42
275.4	0.83	60.16	906.4	0.43	63.60	1551.6	1.00	72.69	2172.4	0.65	70.58	2792.2	0.39	52.64
275.6	0.73	59.47	906.6	0.45	63.55	1551.8	1.19	73.23	2172.6	0.88	71.15	2792.4	0.44	52.16
275.8	0.63	58.71	906.8	0.43	63.40	1552.0	0.92	73.16	2172.8	1.04	71.74	2792.6	0.50	52.11
276.0	0.76	58.02	907.0	0.51	63.15	1552.2	0.58	72.89	2173.0	1.27	72.07	2792.8	0.43	52.49
276.2	0.82	57.50	907.2	0.45	62.81	1552.4	0.44	72.83	2173.2	1.27	72.02	2793.0	0.55	53.15
276.4	0.84	57.28	907.4	0.46	62.35	1552.6	0.63	73.11	2173.4	1.24	71.65	2793.2	0.53	53.81
276.6	0.76	57.48	907.6	0.43	61.84	1552.8	0.80	73.54	2173.6	1.16	71.10	2793.4	0.45	54.24
276.8	0.83	58.11	907.8	0.44	61.28	1553.0	0.77	73.84	2173.8	1.14	70.47	2793.6	0.51	54.30
277.0	0.90	59.07	908.0	0.44	60.63	1553.2	0.71	73.87	2174.0	1.01	69.83	2793.8	0.61	53.98
277.2	0.67	60.13	908.2	0.45	59.94	1553.4	0.74	73.63	2174.2	0.73	69.17	2794.0	0.42	53.46
277.4	1.00	60.90	908.4	0.39	59.46	1553.6	0.76	73.23	2174.4	1.12	68.49	2794.2	0.51	52.97
277.6	0.96	61.02	908.6	0.43	59.57	1553.8	0.92	72.82	2174.6	1.11	67.85	2794.4	0.54	52.65
277.8	0.82	60.43	908.8	0.35	60.64	1554.0	1.10	72.45	2174.8	1.12	67.35	2794.6	0.59	52.52
278.0	0.64	59.38	909.0	0.43	62.73	1554.2	0.87	72.08	2175.0	1.32	67.08	2794.8	0.57	52.49
278.2	0.76	58.27	909.2	0.43	65.47	1554.4	0.70	71.67	2175.2	1.01	67.09	2795.0	0.56	52.44
278.4	0.59	57.53	909.4	0.39	68.12	1554.6	0.66	71.21	2175.4	1.08	67.31	2795.2	0.67	52.30
278.6	0.67	57.32	909.6	0.41	69.87	1554.8	0.80	70.74	2175.6	1.15	67.57	2795.4	0.53	52.08
278.8	0.75	57.54	909.8	0.45	70.25	1555.0	0.83	70.34	2175.8	1.19	67.65	2795.6	0.49	51.85
279.0	0.77	57.87	910.0	0.40	69.24	1555.2	0.77	70.11	2176.0	1.04	67.50	2795.8	0.44	51.58
279.2	0.69	58.05	910.2	0.43	67.25	1555.4	0.73	70.22	2176.2	0.98	67.18	2796.0	0.41	51.28
279.4	0.72	57.99	910.4	0.46	64.85	1555.6	0.72	70.83	2176.4	1.03	66.86	2796.2	0.46	50.96
279.6	0.64	57.80	910.6	0.48	62.52	1555.8	0.60	71.89	2176.6	0.93	66.75	2796.4	0.44	50.69
279.8	0.49	57.64	910.8	0.42	60.53	1556.0	0.75	73.09	2176.8	0.90	66.96	2796.6	0.47	50.56
280.0	0.44	57.59	911.0	0.48	59.00	1556.2	0.88	73.92	2177.0	1.19	67.40	2796.8	0.42	50.64
280.2	0.74	57.62	911.2	0.54	58.00	1556.4	0.95	73.92	2177.2	1.10	67.83	2797.0	0.60	50.93
280.4	0.76	57.65	911.4	0.49	57.56	1556.6	0.97	73.00	2177.4	1.13	67.94	2797.2	0.64	51.33
280.6	0.77	57.69	911.6	0.43	57.67	1556.8	0.68	71.44	2177.6	1.05	67.59	2797.4	0.62	51.77
280.8	0.60	57.79	911.8	0.41	58.20	1557.0	0.56	69.81	2177.8	0.93	66.86	2797.6	0.61	52.22
281.0	0.83	57.97	912.0	0.48	58.95	1557.2	0.55	68.61	2178.0	0.70	65.99	2797.8	0.71	52.71
281.2	0.80	58.18	912.2	0.43	59.71	1557.4	0.51	68.07	2178.2	0.60	65.29	2798.0	0.75	53.26
281.4	0.78	58.34	912.4	0.47	60.23	1557.6	0.56	68.14	2178.4	0.63	64.94	2798.2	0.60	53.89
281.6	0.89	58.39	912.6	0.41	60.35	1557.8	0.55	68.58	2178.6	0.72	64.93	2798.4	0.74	54.49
281.8	0.77	58.32	912.8	0.36	59.99	1558.0	0.77	69.41	2178.8	0.79	65.15	2798.6	0.66	54.95
282.0	0.75	58.19	913.0	0.47	59.25	1558.2	0.58	70.93	2179.0	0.87	65.39	2798.8	0.75	55.23
282.2	0.91	58.08	913.2	0.46	58.37	1558.4	0.65	73.37	2179.2	0.87	65.41	2799.0	0.76	55.37
282.4	0.86	58.03	913.4	0.41	57.64	1558.6	0.68	76.50	2179.4	0.89	65.13	2799.2	0.75	55.49
282.6	0.80	58.01	913.6	0.37	57.31	1558.8	0.71	79.64	2179.6	1.00	64.60	2799.4	0.68	55.68
282.8	0.74	58.00	913.8	0.47	57.45	1559.0	0.63	81.83	2179.8	0.78	63.96	2799.6	0.63	55.95
283.0	0.78	57.94	914.0	0.49	58.00	1559.2	0.77	82.29	2180.0	0.49	63.34	2799.8	0.68	56.22
283.2	0.83	57.82	914.2	0.42	58.73	1559.4								

285.0	0.59	56.15	916.0	0.48	54.58	1561.2	0.73	72.18	2182.0	0.72	71.45	2801.8	0.35	82.48
285.2	0.68	56.55	916.2	0.43	54.54	1561.4	0.67	72.54	2182.2	0.71	70.72	2802.0	0.33	90.70
285.4	0.80	56.86	916.4	0.37	54.76	1561.6	0.66	72.58	2182.4	0.63	69.08	2802.2	0.16	94.37
285.6	0.82	56.92	916.6	0.43	55.10	1561.8	0.61	72.35	2182.6	0.63	67.10	2802.4	0.23	91.92
285.8	0.72	56.70	916.8	0.44	55.43	1562.0	0.63	71.94	2182.8	0.55	65.31	2802.6	0.55	84.33
286.0	0.75	56.29	917.0	0.48	55.61	1562.2	0.70	71.39	2183.0	0.61	64.05	2802.8	0.55	74.48
286.2	0.93	55.88	917.2	0.41	55.56	1562.4	0.71	70.68	2183.2	0.53	63.38	2803.0	0.61	65.56
286.4	0.82	55.66	917.4	0.45	55.28	1562.6	0.64	69.79	2183.4	0.55	63.20	2803.2	0.60	59.58
286.6	0.70	55.70	917.6	0.34	54.89	1562.8	0.60	68.82	2183.6	0.59	63.33	2803.4	0.58	56.85
286.8	0.80	56.00	917.8	0.39	54.53	1563.0	0.65	67.89	2183.8	0.64	63.70	2803.6	0.65	56.45
287.0	0.85	56.52	918.0	0.41	54.30	1563.2	0.62	67.19	2184.0	0.54	64.25	2803.8	0.63	56.99
287.2	0.89	57.20	918.2	0.36	54.29	1563.4	0.60	66.82	2184.2	0.60	64.92	2804.0	0.60	57.80
287.4	0.84	58.00	918.4	0.31	54.57	1563.6	0.71	66.79	2184.4	0.52	65.64	2804.2	0.81	58.74
287.6	0.70	58.87	918.6	0.35	55.31	1563.8	0.58	67.01	2184.6	0.63	66.30	2804.4	0.74	59.62
287.8	0.80	59.96	918.8	0.38	56.82	1564.0	0.70	67.41	2184.8	0.60	66.78	2804.6	0.84	60.30
288.0	0.99	61.40	919.0	0.34	59.34	1564.2	0.57	68.02	2185.0	0.60	66.97	2804.8	0.81	60.77
288.2	0.91	63.14	919.2	0.37	62.77	1564.4	0.66	68.94	2185.2	0.50	66.80	2805.0	0.77	61.19
288.4	0.81	64.99	919.4	0.37	66.63	1564.6	0.75	70.23	2185.4	0.55	66.39	2805.2	0.79	61.77
288.6	0.79	66.63	919.6	0.23	70.19	1564.8	0.56	71.79	2185.6	0.49	65.89	2805.4	0.60	62.65
288.8	0.90	67.66	919.8	0.22	72.62	1565.0	0.78	73.36	2185.8	0.47	65.45	2805.6	0.82	63.77
289.0	0.94	67.85	920.0	0.38	73.42	1565.2	0.83	74.61	2186.0	0.53	65.20	2805.8	0.81	64.88
289.2	0.83	67.31	920.2	0.30	72.59	1565.4	0.85	75.38	2186.2	0.63	65.15	2806.0	0.79	65.64
289.4	0.81	66.39	920.4	0.27	70.52	1565.6	0.83	75.72	2186.4	0.64	65.24	2806.2	0.68	65.88
289.6	0.98	65.50	920.6	0.30	67.76	1565.8	0.78	75.77	2186.6	0.38	65.38	2806.4	0.81	65.63
289.8	0.98	64.94	920.8	0.33	64.86	1566.0	0.63	75.63	2186.8	0.45	65.53	2806.6	0.83	65.07
290.0	0.76	64.81	921.0	0.32	62.25	1566.2	0.62	75.25	2187.0	0.60	65.59	2806.8	0.72	64.41
290.2	1.00	64.97	921.2	0.28	60.10	1566.4	0.36	74.43	2187.2	0.64	65.48	2807.0	0.74	63.78
290.4	1.07	65.15	921.4	0.27	58.51	1566.6	0.49	72.97	2187.4	0.63	65.16	2807.2	0.74	63.22
290.6	1.08	65.20	921.6	0.30	57.50	1566.8	0.46	70.90	2187.6	0.59	64.68	2807.4	0.74	62.77
290.8	0.98	64.96	921.8	0.33	56.95	1567.0	0.45	68.56	2187.8	0.46	64.26	2807.6	0.78	62.47
291.0	1.33	64.35	922.0	0.35	56.68	1567.2	0.47	66.52	2188.0	0.63	64.16	2807.8	0.71	62.34
291.2	1.07	63.44	922.2	0.36	56.56	1567.4	0.41	65.34	2188.2	0.64	64.55	2808.0	0.59	62.39
291.4	1.01	62.45	922.4	0.33	56.49	1567.6	0.41	65.38	2188.4	0.58	65.32	2808.2	0.63	62.57
291.6	1.03	61.64	922.6	0.31	56.39	1567.8	0.50	66.63	2188.6	0.52	66.19	2808.4	0.77	62.81
291.8	0.94	61.15	922.8	0.34	56.22	1568.0	0.56	68.70	2188.8	0.57	66.84	2808.6	0.66	63.01
292.0	1.04	60.96	923.0	0.24	55.98	1568.2	0.58	70.99	2189.0	0.55	67.14	2808.8	0.63	63.12
292.2	1.01	60.98	923.2	0.31	55.70	1568.4	0.63	72.84	2189.2	0.54	67.17	2809.0	0.33	63.15
292.4	1.09	61.06	923.4	0.30	55.37	1568.6	0.52	73.81	2189.4	0.51	67.13	2809.2	0.40	63.12
292.6	0.98	61.01	923.6	0.27	55.02	1568.8	0.51	73.86	2189.6	0.57	67.32	2809.4	0.60	63.04
292.8	0.94	60.73	923.8	0.29	54.63	1569.0	0.44	73.35	2189.8	0.48	67.93	2809.6	0.59	62.89
293.0	1.10	60.25	924.0	0.30	54.22	1569.2	0.42	72.73	2190.0	0.57	68.90	2809.8	0.62	62.69
293.2	1.14	59.61	924.2	0.34	53.88	1569.4	0.48	72.33	2190.2	0.55	69.90	2810.0	0.71	62.44
293.4	1.01	58.88	924.4	0.29	53.78	1569.6	0.52	72.16	2190.4	0.61	70.52	2810.2	0.32	62.20
293.6	0.89	58.13	924.6	0.33	54.23	1569.8	0.55	71.93	2190.6	0.60	70.49	2810.4	0.53	61.96
293.8	0.95	57.41	924.8	0.34	55.52	1570.0	0.45	71.30	2190.8	0.72	69.83	2810.6	0.66	61.71
294.0	0.82	56.75	925.0	0.30	57.80	1570.2	0.36	70.18	2191.0	0.66	68.89	2810.8	0.66	61.39
294.2	0.75	56.13	925.2	0.28	60.94	1570.4	0.36	68.72	2191.2	0.65	68.10	2811.0	0.45	60.97
294.4	0.74	55.53	925.4	0.34	64.58	1570.6	0.40	67.30	2191.4	0.68	67.75	2811.2	0.60	60.40
294.6	0.69	54.92	925.6	0.36	68.24	1570.8	0.36	66.25	2191.6	0.65	67.81	2811.4	0.53	59.61
294.8	0.75	54.32	925.8	0.32	71.36	1571.0	0.44	65.66	2191.8	0.72	68.16	2811.6	0.63	58.64
295.0	0.78	54.01	926.0	0.35	73.45	1571.2	0.49	65.40	2192.0	0.82	68.66	2811.8	0.64	57.58
295.2	0.56	54.36	926.2	0.38	74.13	1571.4	0.46	65.27	2192.2	0.81	69.25	2812.0	0.61	56.56
295.4	0.53	55.70	926.4	0.43	73.23	1571.6	0.39	65.17	2192.4	0.89	69.98	2812.2	0.59	55.85
295.6	0.55	58.12	926.6	0.41	70.91	1571.8	0.45	65.20	2192.6	0.89	70.80	2812.4	0.44	55.80
295.8	0.87	61.27	926.8	0.36	67.71	1572.0	0.40	65.53	2192.8	0.89	71.49	2812.6	0.62	56.59
296.0	1.31	64.51	927.0	0.35	64.47	1572.2	0.45	66.33	2193.0	0.73	71.75	2812.8	0.63	58.01
296.2	1.17	67.11	927.2	0.36	62.03	1572.4	0.46	67.64	2193.2	0.75	71.37	2813.0	0.57	59.52
296.4	1.22	68.62	927.4	0.28	60.97	1572.6	0.53	69.26	2193.4	0.61	70.42	2813.2	0.55	60.44
296.6	1.16	69.09	927.6	0.31	61.34	1572.8	0.51	70.87	2193.6	0.76	69.29	2813.4	0.66	60.25
296.8	1.19	68.97	927.8	0.36	62.69	1573.0	0.54	72.19	2193.8	0.87	68.31	2813.6	0.60	58.91
297.0	1.04	68.71	928.0	0.38	64.31	1573.2	0.48	73.02	2194.0	0.73	67.68	2813.8	0.61	56.94
297.2	0.85	68.61	928.2	0.32	65.55	1573.4	0.56	73.34	2194.2	0.63	67.35	2814.0	0.50	55.02
297.4	0.62	68.68	928.4	0.40	66.12	1573.6	0.46	73.28	2194.4	0.63	67.08	2814.2	0.68	53.73
297.6	0.73	68.77	928.6	0.33	66.09	1573.8	0.44	73.03	2194.6	0.49	66.57	2814.4	0.53	53.30
297.8	0.85	68.77	928.8	0.37	65.69	1574.0	0.50	72.68	2194.8	0.44	65.73	2814.6	0.69	53.54
298.0	0.65	68.68	929.0	0.33	65.14	1574.2	0.45	72.30	2195.0	0.55	64.65	2814.8	0.59	54.04
298.2	0.64	68.61	929.2	0.33	64.51	1574.4	0.46	71.97	2195.2	0.46	63.52	2815.0	0.52	54.45
298.4	0.64	68.64	929.4	0.37	63.74	1574.6	0.56	71.69	2195.4	0.41	62.63	2815.2	0.53	54.59
298.6	0.67	68.73	929.6	0.33	62.78	1574.8	0.57	71.41	2195.6	0.40	62.14	2815.4	0.77	54.45
298.8	0.84	68.87	929.8	0.35	61.65	1575.0	0.66	71.05	2195.8	0.33	62.08	2815.6	0.49	54.11
299.0	0.92	68.98	930.0	0.33	60.57	1575.2	0.63	70.61	2196.0	0.44	62.30	2815.8	0.61	53.79
299.2	0.91	68.94	930.2	0.32	59.71	1575.4	0.58	70.11	2196.2	0.39	62.58	2816.0	0.55	53.62
299.4	1.11	68.74	930.4	0.37	59.14	1575.6								

301.2	0.99	71.62	932.2	0.32	58.28	1577.4	1.79	76.18	2198.2	0.37	57.33	2818.0	0.54	53.54
301.4	1.02	71.10	932.4	0.36	58.56	1577.6	2.24	74.21	2198.4	0.36	57.37	2818.2	0.27	53.80
301.6	0.94	70.11	932.6	0.33	59.05	1577.8	2.46	71.30	2198.6	0.41	57.47	2818.4	0.76	53.92
301.8	0.96	68.81	932.8	0.38	59.86	1578.0	0.73	68.07	2198.8	0.38	57.53	2818.6	0.81	53.94
302.0	1.09	67.43	933.0	0.32	60.90	1578.2	0.48	65.23	2199.0	0.39	57.50	2818.8	0.65	53.97
302.2	1.08	66.15	933.2	0.33	61.83	1578.4	0.35	63.47	2199.2	0.35	57.37	2819.0	0.76	54.16
302.4	1.11	65.07	933.4	0.37	62.29	1578.6	0.37	63.21	2199.4	0.33	57.17	2819.2	0.74	54.57
302.6	1.00	64.29	933.6	0.34	62.14	1578.8	0.34	64.44	2199.6	0.29	56.92	2819.4	0.82	55.13
302.8	1.07	63.90	933.8	0.36	61.54	1579.0	0.55	66.67	2199.8	0.29	56.59	2819.6	0.85	55.72
303.0	0.97	63.88	934.0	0.35	61.00	1579.2	1.02	69.12	2200.0	0.36	56.12	2819.8	0.90	56.18
303.2	1.16	64.20	934.2	0.32	60.97	1579.4	1.35	71.01	2200.2	0.39	55.51	2820.0	1.01	56.45
303.4	0.96	64.77	934.4	0.32	61.61	1579.6	1.66	71.76	2200.4	0.34	54.80	2820.2	1.01	56.60
303.6	1.14	65.46	934.6	0.33	62.72	1579.8	1.43	71.27	2200.6	0.36	54.12	2820.4	0.96	56.79
303.8	1.37	66.21	934.8	0.34	63.96	1580.0	1.40	69.86	2200.8	0.35	53.62	2820.6	1.00	57.07
304.0	1.26	67.04	935.0	0.34	65.04	1580.2	1.30	68.10	2201.0	0.40	53.40	2820.8	0.96	57.38
304.2	1.15	68.01	935.2	0.35	65.81	1580.4	1.19	66.49	2201.2	0.38	53.47	2821.0	1.02	57.51
304.4	1.22	69.13	935.4	0.32	66.28	1580.6	1.37	65.28	2201.4	0.34	53.79	2821.2	1.07	57.32
304.6	1.31	70.49	935.6	0.34	66.47	1580.8	1.09	64.50	2201.6	0.40	54.31	2821.4	0.83	56.79
304.8	1.12	72.10	935.8	0.32	66.34	1581.0	1.20	64.07	2201.8	0.34	55.18	2821.6	1.00	56.07
305.0	1.16	73.76	936.0	0.37	65.80	1581.2	1.26	63.98	2202.0	0.36	56.85	2821.8	0.92	55.43
305.2	1.08	75.14	936.2	0.33	64.88	1581.4	0.45	64.29	2202.2	0.37	59.75	2822.0	0.87	55.02
305.4	1.32	75.93	936.4	0.31	63.78	1581.6	0.51	65.02	2202.4	0.41	63.84	2822.2	0.87	54.85
305.6	1.18	75.92	936.6	0.33	62.88	1581.8	0.81	66.10	2202.6	0.44	68.36	2822.4	0.83	54.82
305.8	1.21	75.05	936.8	0.31	62.60	1582.0	1.04	67.33	2202.8	0.70	72.03	2822.6	0.83	54.81
306.0	0.94	73.52	937.0	0.33	63.11	1582.2	1.16	68.41	2203.0	0.65	73.62	2822.8	0.91	54.72
306.2	1.24	71.65	937.2	0.31	64.27	1582.4	1.07	69.17	2203.2	0.72	72.66	2823.0	0.90	54.59
306.4	1.09	69.70	937.4	0.33	65.68	1582.6	0.80	69.54	2203.4	0.51	69.73	2823.2	0.97	54.53
306.6	1.24	67.86	937.6	0.33	66.78	1582.8	1.07	69.70	2203.6	0.45	66.09	2823.4	0.95	54.63
306.8	1.34	66.21	937.8	0.33	67.13	1583.0	0.84	69.86	2203.8	0.29	62.94	2823.6	0.83	54.90
307.0	0.98	64.76	938.0	0.29	66.56	1583.2	1.00	70.15	2204.0	0.32	60.91	2823.8	0.75	55.33
307.2	0.94	63.55	938.2	0.31	65.27	1583.4	1.23	70.50	2204.2	0.35	59.91	2824.0	0.89	55.95
307.4	0.97	62.76	938.4	0.33	63.65	1583.6	1.22	70.75	2204.4	0.51	59.39	2824.2	1.01	56.74
307.6	0.81	62.42	938.6	0.32	62.17	1583.8	1.21	70.78	2204.6	0.45	58.91	2824.4	0.98	57.68
307.8	0.85	62.43	938.8	0.32	61.14	1584.0	1.11	70.56	2204.8	0.50	58.44	2824.6	0.88	58.60
308.0	0.90	62.55	939.0	0.31	60.61	1584.2	0.89	70.26	2205.0	0.54	58.24	2824.8	0.98	59.18
308.2	0.92	62.57	939.2	0.33	60.41	1584.4	0.91	70.12	2205.2	0.54	58.59	2825.0	1.05	59.11
308.4	1.06	62.39	939.4	0.28	60.32	1584.6	1.06	70.24	2205.4	0.49	59.61	2825.2	1.05	58.28
308.6	0.95	62.03	939.6	0.32	60.18	1584.8	0.80	70.48	2205.6	0.54	61.22	2825.4	0.97	56.89
308.8	0.96	61.60	939.8	0.31	59.91	1585.0	0.80	70.59	2205.8	0.53	63.05	2825.6	1.04	55.41
309.0	1.31	61.35	940.0	0.26	59.51	1585.2	0.75	70.42	2206.0	0.51	64.64	2825.8	0.80	54.33
309.2	1.10	61.43	940.2	0.26	59.05	1585.4	0.81	70.05	2206.2	0.74	65.63	2826.0	1.00	53.99
309.4	1.17	61.89	940.4	0.31	58.57	1585.6	0.73	69.82	2206.4	0.88	65.89	2826.2	0.76	54.34
309.6	1.21	62.69	940.6	0.32	58.11	1585.8	0.68	70.04	2206.6	0.55	65.51	2826.4	0.59	55.02
309.8	0.94	63.68	940.8	0.31	57.66	1586.0	0.89	70.84	2206.8	0.51	64.79	2826.6	0.52	55.59
310.0	1.35	64.69	941.0	0.31	57.19	1586.2	0.98	71.96	2207.0	0.53	64.04	2826.8	0.56	55.79
310.2	1.34	65.63	941.2	0.33	56.70	1586.4	1.26	73.01	2207.2	0.59	63.37	2827.0	0.57	55.59
310.4	1.60	66.53	941.4	0.34	56.22	1586.6	0.96	73.57	2207.4	0.49	62.71	2827.2	0.79	55.18
310.6	1.46	67.38	941.6	0.29	55.76	1586.8	0.74	73.53	2207.6	0.55	61.99	2827.4	0.86	54.79
310.8	1.79	68.09	941.8	0.34	55.26	1587.0	0.85	73.17	2207.8	0.53	61.19	2827.6	0.94	54.62
312.4	1.81	68.46	942.0	0.29	54.76	1587.2	0.76	72.93	2208.0	0.55	60.35	2827.8	0.81	54.75
312.6	1.65	68.22	942.2	0.33	54.34	1587.4	0.75	73.13	2208.2	0.48	59.60	2828.0	0.77	55.24
312.8	1.44	67.27	942.4	0.35	54.11	1587.6	0.83	73.83	2208.4	0.47	59.02	2828.2	0.74	56.08
313.0	1.32	65.76	942.6	0.32	54.13	1587.8	0.94	74.74	2208.6	0.42	58.57	2828.4	0.86	57.35
313.2	0.81	64.07	942.8	0.30	54.33	1588.0	0.85	75.50	2208.8	0.47	58.17	2828.6	0.84	59.32
313.4	1.05	62.66	943.0	0.33	54.55	1588.2	0.93	75.87	2209.0	0.46	57.74	2828.8	0.73	62.03
313.6	1.06	61.84	943.2	0.30	54.65	1588.4	0.94	75.83	2209.2	0.48	57.26	2829.0	0.86	65.17
313.8	1.11	61.66	943.4	0.29	54.55	1588.6	0.79	75.59	2209.4	0.47	56.81	2829.2	0.84	68.07
314.0	0.85	62.00	943.6	0.35	54.36	1588.8	0.79	75.41	2209.6	0.41	56.48	2829.4	2.22	69.96
314.2	1.04	62.56	943.8	0.36	54.21	1589.0	0.89	75.33	2209.8	0.47	56.32	2829.6	2.30	70.30
314.4	1.01	63.13	944.0	0.35	54.18	1589.2	0.70	75.20	2210.0	0.47	56.29	2829.8	1.13	69.13
314.6	1.07	63.65	944.2	0.29	54.33	1589.4	0.84	74.79	2210.2	0.47	56.37	2830.0	1.22	67.05
314.8	1.04	64.07	944.4	0.29	54.53	1589.6	0.76	74.00	2210.4	0.44	56.48	2830.2	0.89	64.83
315.0	0.95	64.38	944.6	0.28	54.64	1589.8	0.67	73.00	2210.6	0.44	56.68	2830.4	1.20	63.09
315.2	0.88	64.58	944.8	0.31	54.56	1590.0	0.62	72.18	2210.8	0.45	57.14	2830.6	1.22	62.10
315.4	0.83	64.64	945.0	0.37	54.30	1590.2	0.59	72.03	2211.0	0.42	57.98	2830.8	1.62	61.77
315.6	0.90	64.57	945.2	0.39	53.86	1590.4	0.68	72.69	2211.2	0.44	59.13	2831.0	1.08	61.73
315.8	0.99	64.36	945.4	0.37	53.26	1590.6	0.82	73.86	2211.4	0.38	60.43	2831.2	1.74	61.73
316.0	0.82	64.10	945.6	0.33	52.54	1590.8	0.74	75.01	2211.6	0.43	61.77	2831.4	1.32	61.65
316.2	1.02	63.96	945.8	0.31	51.81	1591.0	0.91	75.54	2211.8	0.50	63.07	2831.6	1.72	61.42
316.4	1.16	64.11	946.0	0.31	51.12	1591.2	0.69	75.11	2212.0	0.48	64.31	2831.8	1.64	61.09
316.6	1.00	64.80	946.2	0.28	50.53	1591.4	0.53	73.87	2212.2	0.40	65.44	2832.0	1.55	60.79
316.8	0.80	66.18	946.4	0.31	50.18	1591.6	0.49	72.39	2212.4	0.61	66.33	2832.2	1.35	60.66
317.0	0.84	68.00	946.6	0.34	50.14	1591.8								

318.8	1.16	82.46	948.4	0.40	56.53	1593.6	0.53	68.40	2214.4	1.04	65.61	2834.2	2.14	67.97
319.0	1.01	82.02	948.6	0.43	56.20	1593.8	0.45	66.66	2214.6	0.68	65.47	2834.4	1.76	67.88
319.2	1.01	80.41	948.8	0.38	55.94	1594.0	0.53	66.07	2214.8	0.62	65.40	2834.6	1.89	67.76
319.4	1.06	78.40	949.0	0.33	55.76	1594.2	0.51	66.99	2215.0	0.65	65.41	2834.8	1.36	67.62
319.6	0.97	76.52	949.2	0.30	55.59	1594.4	0.49	69.32	2215.2	0.68	65.46	2835.0	0.81	67.34
319.8	0.82	75.03	949.4	0.41	55.32	1594.6	0.61	72.44	2215.4	0.68	65.44	2835.2	1.54	66.85
320.0	1.46	73.76	949.6	0.37	54.98	1594.8	0.65	75.31	2215.6	0.55	65.13	2835.4	1.39	66.18
320.2	1.22	72.41	949.8	0.45	54.78	1595.0	0.85	76.88	2215.8	0.42	64.38	2835.6	1.42	65.42
320.4	0.96	71.00	950.0	0.41	54.82	1595.2	0.66	76.53	2216.0	0.39	63.25	2835.8	0.85	64.74
320.6	0.93	69.67	950.2	0.37	55.08	1595.4	0.57	74.43	2216.2	0.54	62.01	2836.0	1.17	64.29
320.8	1.05	68.61	950.4	0.36	55.42	1595.6	0.47	71.29	2216.4	0.45	60.92	2836.2	1.37	64.22
321.0	0.92	67.99	950.6	0.36	55.65	1595.8	0.59	68.09	2216.6	0.63	60.13	2836.4	0.94	64.67
321.2	0.90	67.97	950.8	0.29	55.68	1596.0	0.50	65.56	2216.8	0.60	59.57	2836.6	1.29	65.62
321.4	0.82	68.50	951.0	0.37	55.62	1596.2	0.46	64.02	2217.0	0.60	59.08	2836.8	1.63	66.86
321.6	0.91	69.24	951.2	0.42	55.65	1596.4	0.54	63.37	2217.2	0.54	58.52	2837.0	1.12	68.02
321.8	1.32	69.75	951.4	0.44	55.84	1596.6	0.46	63.35	2217.4	0.60	57.97	2837.2	0.29	68.68
322.0	1.26	69.70	951.6	0.48	56.17	1596.8	0.45	63.88	2217.6	0.54	57.66	2837.4	0.44	68.58
322.2	1.17	68.96	951.8	0.49	56.52	1597.0	0.44	65.00	2217.8	0.52	57.71	2837.6	1.56	67.71
322.4	1.10	67.69	952.0	0.45	56.76	1597.2	0.48	66.81	2218.0	0.51	58.12	2837.8	0.63	66.33
322.6	0.87	66.42	952.2	0.53	56.83	1597.4	0.44	69.37	2218.2	0.58	58.72	2838.0	1.01	64.77
322.8	1.05	65.77	952.4	0.60	56.82	1597.6	0.45	72.71	2218.4	0.52	59.27	2838.2	1.22	63.42
323.0	1.20	66.08	952.6	0.55	56.94	1597.8	0.54	76.55	2218.6	0.60	59.56	2838.4	1.18	62.59
323.2	0.89	67.30	952.8	0.58	57.28	1598.0	0.53	80.30	2218.8	0.59	59.58	2838.6	1.16	62.53
323.4	1.06	69.10	953.0	0.50	57.87	1598.2	0.52	83.15	2219.0	0.60	59.40	2838.8	0.89	63.30
323.6	1.12	70.96	953.2	0.48	58.63	1598.4	0.59	84.33	2219.2	0.61	59.21	2839.0	1.18	64.78
323.8	1.18	72.31	953.4	0.51	59.42	1598.6	0.61	83.45	2219.4	0.56	59.18	2839.2	0.89	66.69
324.0	1.28	72.77	953.6	0.48	60.02	1598.8	0.54	80.66	2219.6	0.55	59.46	2839.4	1.64	68.52
324.2	1.04	72.22	953.8	0.49	60.30	1599.0	0.55	76.67	2219.8	0.65	60.02	2839.6	1.06	69.80
324.4	1.05	70.76	954.0	0.52	60.28	1599.2	0.54	72.41	2220.0	0.65	60.72	2839.8	2.07	70.24
324.6	0.92	68.69	954.2	0.50	60.14	1599.4	0.53	68.71	2220.2	0.62	61.34	2840.0	2.17	69.87
324.8	0.93	66.43	954.4	0.51	60.05	1599.6	0.49	66.03	2220.4	0.70	61.64	2840.2	1.94	68.88
325.0	0.90	64.40	954.6	0.52	60.10	1599.8	0.47	64.45	2220.6	0.53	61.46	2840.4	2.01	67.61
325.2	0.83	62.85	954.8	0.41	60.19	1600.0	0.46	63.76	2220.8	0.66	60.78	2840.6	1.64	66.29
325.4	0.79	61.84	955.0	0.57	60.21	1600.2	0.46	63.60	2221.0	0.60	59.66	2840.8	1.28	65.13
325.6	0.90	61.26	955.2	0.60	60.09	1600.4	0.56	63.70	2221.2	0.67	58.30	2841.0	1.10	64.22
325.8	1.05	60.88	955.4	0.63	59.88	1600.6	0.49	63.79	2221.4	0.58	56.93	2841.2	1.14	63.56
326.0	0.90	60.49	955.6	0.61	59.68	1600.8	0.48	63.70	2221.6	0.55	55.73	2841.4	1.24	63.20
326.2	0.98	60.12	955.8	0.64	59.55	1601.0	0.55	63.42	2221.8	0.38	54.77	2841.6	1.16	63.14
326.4	1.00	59.85	956.0	0.47	59.46	1601.2	0.53	63.09	2222.0	0.34	54.05	2841.8	1.31	63.37
326.6	0.83	59.75	956.2	0.64	59.28	1601.4	0.47	62.88	2222.2	0.37	53.51	2842.0	0.70	63.84
326.8	0.82	59.85	956.4	0.60	58.91	1601.6	0.49	62.87	2222.4	0.26	53.10	2842.2	1.07	64.55
327.0	0.88	60.10	956.6	0.61	58.31	1601.8	0.53	63.08	2222.6	0.32	52.74	2842.4	1.21	65.41
327.2	0.84	60.39	956.8	0.61	57.58	1602.0	0.48	63.49	2222.8	0.36	52.37	2842.6	2.02	66.36
327.4	0.78	60.62	957.0	0.54	56.88	1602.2	0.59	64.14	2223.0	0.35	51.92	2842.8	2.29	67.30
327.6	0.80	60.73	957.2	0.55	56.34	1602.4	0.54	65.05	2223.2	0.30	51.32	2843.0	2.44	68.12
327.8	0.77	60.78	957.4	0.65	56.06	1602.6	0.63	66.24	2223.4	0.34	50.55	2843.2	2.31	68.69
328.0	0.76	60.85	957.6	0.57	56.09	1602.8	0.59	67.51	2223.6	0.25	49.61	2843.4	1.82	68.92
328.2	0.81	61.04	957.8	0.64	56.41	1603.0	0.74	68.55	2223.8	0.30	48.59	2843.6	1.51	68.84
328.4	0.85	61.41	958.0	0.60	56.92	1603.2	0.69	69.02	2224.0	0.25	47.68	2843.8	1.99	68.55
328.6	0.92	61.86	958.2	0.69	57.47	1603.4	0.76	68.73	2224.2	0.25	47.02	2844.0	1.67	68.21
328.8	0.89	62.26	958.4	0.65	57.92	1603.6	0.64	67.79	2224.4	0.22	46.72	2844.2	2.01	67.92
329.0	0.92	62.45	958.6	0.60	58.18	1603.8	0.57	66.52	2224.6	0.25	46.74	2844.4	1.31	67.72
329.2	0.87	62.39	958.8	0.61	58.26	1604.0	0.57	65.28	2224.8	0.22	46.97	2844.6	1.44	67.57
329.4	0.85	62.16	959.0	0.64	58.20	1604.2	0.56	64.30	2225.0	0.27	47.28	2844.8	1.24	67.40
329.6	0.84	61.89	959.2	0.69	58.09	1604.4	0.56	63.64	2225.2	0.22	47.81	2845.0	1.64	67.26
329.8	0.85	61.72	959.4	0.66	58.03	1604.6	0.62	63.21	2225.4	0.26	49.38	2845.2	1.21	67.22
330.0	0.91	61.67	959.6	0.70	58.06	1604.8	0.66	62.90	2225.6	0.23	52.75	2845.4	1.15	67.35
330.2	0.83	61.66	959.8	0.69	58.25	1605.0	0.60	62.61	2225.8	0.18	57.93	2845.6	1.25	67.59
330.4	0.87	61.59	960.0	0.63	58.64	1605.2	0.65	62.38	2226.0	0.21	64.00	2845.8	1.39	67.86
330.6	0.88	61.43	960.2	0.70	59.20	1605.4	0.56	62.25	2226.2	0.19	69.16	2846.0	1.70	68.14
330.8	0.76	61.22	960.4	0.68	59.82	1605.6	0.65	62.24	2226.4	0.22	71.53	2846.2	1.70	68.44
331.0	0.86	61.05	960.6	0.64	60.36	1605.8	0.60	62.32	2226.6	0.23	70.19	2846.4	1.69	68.73
331.2	0.72	60.99	960.8	0.43	60.66	1606.0	0.63	62.50	2226.8	0.19	65.74	2846.6	1.74	68.98
331.4	0.81	61.00	961.0	0.58	60.67	1606.2	0.64	62.77	2227.0	0.19	59.78	2846.8	1.58	69.04
331.6	0.93	61.07	961.2	0.60	60.53	1606.4	0.66	63.15	2227.2	0.19	54.09	2847.0	1.02	68.74
331.8	0.95	61.20	961.4	0.64	60.53	1606.6	0.70	63.59	2227.4	0.20	49.83	2847.2	1.43	68.05
332.0	0.76	61.41	961.6	0.72	61.03	1606.8	0.66	63.96	2227.6	0.19	47.31	2847.4	1.20	67.05
332.2	0.73	61.70	961.8	0.63	62.25	1607.0	0.66	64.02	2227.8	0.18	45.98	2847.6	1.32	65.97
332.4	0.90	62.14	962.0	0.55	64.05	1607.2	0.72	63.59	2228.0	0.20	45.25	2847.8	1.58	65.11
332.6	0.95	62.68	962.2	0.50	65.92	1607.4	0.72	62.73	2228.2	0.19	44.90	2848.0	1.33	64.77
332.8	0.86	63.23	962.4	0.57	67.17	1607.6	0.70	61.74	2228.4	0.20	44.76	2848.2	1.45	65.05
333.0	0.95	63.65	962.6	0.57	67.35	1607.8	0.70	61.03	2228.6	0.17	44.79	2848.4	0.92	65.81
333.2	0.82	63.85	962.8	0.55	66.38	1608.0								

335.0	0.81	63.14	964.6	0.69	63.98	1609.8	0.59	80.94	2230.6	0.25	49.94	2850.4	0.64	62.36
335.2	0.80	63.09	964.8	0.67	62.69	1610.0	0.57	77.01	2230.8	0.26	50.63	2850.6	0.69	60.82
335.4	0.81	63.18	965.0	0.70	60.97	1610.2	0.65	73.04	2231.0	0.31	50.62	2850.8	0.69	59.64
335.6	0.84	63.36	965.2	0.70	59.18	1610.4	0.66	69.64	2231.2	0.24	49.93	2851.0	0.72	59.00
335.8	0.86	63.54	965.4	0.70	57.66	1610.6	0.56	66.99	2231.4	0.30	48.86	2851.2	0.54	58.84
336.0	0.82	63.63	965.6	0.54	56.59	1610.8	0.61	65.14	2231.6	0.24	47.81	2851.4	0.72	58.89
336.2	0.82	63.53	965.8	0.51	56.01	1611.0	0.61	64.13	2231.8	0.25	47.05	2851.6	0.71	58.87
336.4	0.76	63.12	966.0	0.62	55.91	1611.2	0.55	63.86	2232.0	0.30	46.67	2851.8	0.71	58.68
336.6	0.87	62.35	966.2	0.48	56.18	1611.4	0.49	64.08	2232.2	0.24	46.55	2852.0	0.62	58.50
336.8	0.78	61.44	966.4	0.57	56.67	1611.6	0.59	64.33	2232.4	0.21	46.50	2852.2	0.68	58.56
337.0	0.74	60.81	966.6	0.49	57.23	1611.8	0.71	64.15	2232.6	0.27	46.39	2852.4	0.42	58.98
337.2	0.80	60.77	966.8	0.57	57.74	1612.0	0.65	63.30	2232.8	0.23	46.29	2852.6	0.67	59.58
337.4	0.76	61.52	967.0	0.56	58.12	1612.2	0.53	61.87	2233.0	0.24	46.36	2852.8	0.73	60.03
337.6	0.84	63.34	967.2	0.61	58.33	1612.4	0.57	60.24	2233.2	0.22	46.70	2853.0	0.55	59.97
337.8	0.65	66.30	967.4	0.59	58.38	1612.6	0.62	58.76	2233.4	0.24	47.32	2853.2	0.61	59.21
338.0	0.86	69.94	967.6	0.49	58.31	1612.8	0.54	57.63	2233.6	0.25	48.22	2853.4	0.57	57.84
338.2	0.81	73.46	967.8	0.47	58.22	1613.0	0.42	56.86	2233.8	0.26	49.34	2853.6	0.59	56.20
338.4	0.94	75.86	968.0	0.62	58.25	1613.2	0.53	56.32	2234.0	0.26	50.54	2853.8	0.55	54.72
338.6	0.96	76.29	968.2	0.56	58.55	1613.4	0.59	55.91	2234.2	0.24	51.62	2854.0	0.37	53.72
338.8	0.92	74.48	968.4	0.55	59.25	1613.6	0.50	55.58	2234.4	0.21	52.29	2854.2	0.47	53.30
339.0	0.92	71.10	968.6	0.56	60.38	1613.8	0.52	55.38	2234.6	0.27	52.34	2854.4	0.34	53.42
339.2	0.88	67.23	968.8	0.53	61.93	1614.0	0.50	55.36	2234.8	0.25	51.69	2854.6	0.37	53.91
339.4	0.85	63.89	969.0	0.56	63.81	1614.2	0.65	55.54	2235.0	0.27	50.56	2854.8	0.42	54.53
339.6	0.93	61.69	969.2	0.55	65.85	1614.4	0.62	55.92	2235.2	0.26	49.27	2855.0	0.42	55.11
339.8	0.85	60.66	969.4	0.63	67.80	1614.6	0.49	56.59	2235.4	0.23	48.13	2855.2	0.44	55.58
340.0	0.61	60.33	969.6	0.57	69.27	1614.8	0.49	57.63	2235.6	0.26	47.30	2855.4	0.44	55.98
340.2	0.88	60.37	969.8	0.67	69.84	1615.0	0.57	59.12	2235.8	0.23	46.75	2855.6	0.42	56.50
340.4	0.90	60.83	970.0	0.52	69.29	1615.2	0.56	60.94	2236.0	0.22	46.40	2855.8	0.33	57.35
340.6	1.01	61.82	970.2	0.59	67.72	1615.4	0.59	62.83	2236.2	0.24	46.15	2856.0	0.44	58.58
340.8	1.03	63.16	970.4	0.60	65.52	1615.6	0.58	64.47	2236.4	0.20	46.06	2857.2	0.52	60.04
341.0	0.89	64.50	970.6	0.46	63.27	1615.8	0.67	65.70	2236.6	0.21	46.22	2857.4	0.52	61.35
341.2	0.94	65.48	970.8	0.42	61.60	1616.0	0.68	66.55	2236.8	0.29	46.58	2857.6	0.51	62.11
341.4	0.70	65.98	971.0	0.49	60.92	1616.2	0.59	67.12	2237.0	0.27	47.01	2857.8	0.40	62.04
341.6	0.97	66.08	971.2	0.43	61.37	1616.4	0.61	67.45	2237.2	0.30	47.44	2858.0	0.47	61.21
341.8	0.83	66.10	971.4	0.43	62.75	1616.6	0.54	67.45	2237.4	0.33	47.94	2858.2	0.44	59.99
342.0	0.77	66.66	971.6	0.56	64.65	1616.8	0.54	66.91	2237.6	0.24	48.51	2858.4	0.42	58.83
342.2	0.84	68.18	971.8	0.60	66.60	1617.0	0.61	65.69	2237.8	0.33	49.21	2858.6	0.33	58.09
342.4	0.89	70.54	972.0	0.67	68.21	1617.2	0.53	63.88	2238.0	0.31	49.98	2858.8	0.39	57.94
342.6	0.81	73.27	972.2	0.70	69.29	1617.4	0.57	61.76	2238.2	0.37	50.65	2859.0	0.42	58.34
342.8	0.87	75.60	972.4	0.60	69.83	1617.6	0.60	59.74	2238.4	0.35	51.09	2859.2	0.38	59.15
343.0	1.01	76.74	972.6	0.60	69.93	1617.8	0.52	58.16	2238.6	0.32	51.35	2859.4	0.40	60.26
343.2	0.83	76.28	972.8	0.58	69.80	1618.0	0.55	57.16	2238.8	0.40	51.54	2859.6	0.47	61.50
343.4	0.79	74.36	973.0	0.66	69.66	1618.2	0.54	56.65	2239.0	0.37	51.79	2859.8	0.43	62.74
343.6	0.86	71.51	973.2	0.74	69.53	1618.4	0.45	56.55	2239.2	0.39	52.12	2860.0	0.36	63.78
343.8	0.88	68.40	973.4	0.78	69.30	1618.6	0.52	56.68	2239.4	0.31	52.45	2860.2	0.35	64.63
344.0	0.75	65.77	973.6	0.68	68.84	1618.8	0.53	56.83	2239.6	0.36	52.77	2860.4	0.39	65.43
344.2	0.65	64.14	973.8	0.59	68.14	1619.0	0.30	56.83	2239.8	0.32	53.19	2860.6	0.38	66.34
344.4	0.78	63.60	974.0	0.53	67.25	1619.2	0.46	56.51	2240.0	0.31	53.77	2860.8	0.40	67.42
344.6	0.86	63.93	974.2	0.45	66.38	1619.4	0.40	55.85	2240.2	0.34	54.36	2861.0	0.39	68.47
344.8	0.89	64.76	974.4	0.54	65.77	1619.6	0.40	54.94	2240.4	0.37	54.77	2861.2	0.27	69.23
345.0	0.76	65.49	974.6	0.58	65.59	1619.8	0.42	53.97	2240.6	0.32	54.83	2861.4	0.32	69.55
345.2	0.88	65.61	974.8	0.55	65.89	1620.0	0.44	53.15	2240.8	0.31	54.59	2861.6	0.41	69.61
345.4	0.89	65.00	975.0	0.56	66.61	1620.2	0.41	52.63	2241.0	0.26	54.51	2861.8	0.43	69.78
345.6	0.77	63.88	975.2	0.47	67.61	1620.4	0.31	52.49	2241.2	0.32	55.04	2862.0	0.47	70.35
345.8	0.73	62.65	975.4	0.54	68.75	1620.6	0.39	52.74	2242.2	0.41	56.27	2862.2	0.38	71.36
346.0	0.91	61.61	975.6	0.44	69.89	1620.8	0.27	53.30	2242.4	0.30	57.82	2862.4	0.40	72.53
346.2	0.85	60.90	975.8	0.58	70.89	1621.0	0.41	54.02	2242.6	0.28	59.10	2862.6	0.43	73.48
346.4	0.91	60.48	976.0	0.56	71.57	1621.2	0.39	54.72	2242.8	0.31	59.59	2862.8	0.40	73.90
346.6	0.80	60.33	976.2	0.54	71.79	1621.4	0.39	55.23	2243.0	0.31	59.18	2863.0	0.42	74.07
346.8	0.88	60.41	976.4	0.58	71.61	1621.6	0.41	55.50	2243.2	0.32	58.38	2863.2	0.35	74.42
347.0	0.95	60.72	976.6	0.48	71.17	1621.8	0.43	55.54	2243.4	0.29	58.19	2863.4	0.45	75.08
347.2	0.85	61.16	976.8	0.55	70.58	1622.0	0.43	55.43	2243.6	0.33	59.34	2863.6	0.42	75.87
347.4	0.86	61.55	977.0	0.54	69.92	1622.2	0.40	55.25	2243.8	0.30	61.91	2863.8	0.33	76.34
347.6	0.81	61.62	977.2	0.66	69.18	1622.4	0.39	55.07	2244.0	0.34	65.37	2864.0	0.42	76.03
347.8	0.65	61.27	977.4	0.60	68.35	1622.6	0.39	54.98	2244.2	0.31	68.69	2864.2	0.38	74.86
348.0	0.79	60.57	977.6	0.49	67.41	1622.8	0.46	55.09	2244.4	0.21	70.91	2864.4	0.41	73.28
348.2	0.71	59.81	977.8	0.57	66.51	1623.0	0.43	55.52	2244.6	0.31	71.61	2864.6	0.27	71.86
348.4	0.82	59.33	978.0	0.61	65.84	1623.2	0.38	56.29	2244.8	0.37	71.04	2864.8	0.33	71.09
348.6	0.70	59.27	978.2	0.45	65.58	1623.4	0.44	57.27	2245.0	0.34	69.88	2865.0	0.13	71.12
348.8	0.73	59.55	978.4	0.46	65.84	1623.6	0.43	58.16	2245.2	0.37	68.94	2865.2	0.30	71.71
349.0	0.90	59.92	978.6	0.52	66.58	1623.8	0.43	58.63	2245.4	0.31	68.81	2865.4	0.33	72.34
349.2	1.00	60.08	978.8	0.56	67.50	1624.0	0.49	58.49	2245.6	0.38	69.71	2865.6	0.34	72.61
349.4	0.78	59.92	979.0	0.47	68.18	1624.2								

351.2	0.60	60.65	980.8	0.40	58.63	1626.0	0.43	60.47	2247.6	0.36	72.87	2867.6	0.35	72.74
351.4	0.70	59.16	981.0	0.45	58.77	1626.2	0.43	58.71	2247.8	0.32	71.40	2867.8	0.28	72.84
351.6	0.86	57.55	981.2	0.44	59.15	1626.4	0.35	57.32	2248.0	0.28	70.52	2868.0	0.28	72.73
351.8	0.82	56.37	981.4	0.44	59.72	1626.6	0.49	56.86	2248.2	0.30	70.33	2868.2	0.30	72.63
352.0	0.71	56.05	981.6	0.43	60.32	1626.8	0.37	57.48	2248.4	0.33	70.72	2868.4	0.31	72.71
352.2	0.60	56.69	981.8	0.30	60.83	1627.0	0.40	58.91	2248.6	0.35	71.47	2868.6	0.37	73.00
352.4	0.60	58.05	982.0	0.34	61.28	1628.8	0.55	60.54	2248.8	0.28	72.28	2868.8	0.35	73.32
352.6	0.98	59.72	982.2	0.36	61.76	1629.0	0.56	61.75	2249.0	0.40	72.88	2869.0	0.39	73.44
352.8	1.07	61.20	982.4	0.41	62.47	1629.2	0.50	62.24	2249.2	0.44	73.14	2869.2	0.39	73.25
353.0	1.01	62.11	982.6	0.41	63.56	1629.4	0.61	62.14	2249.4	0.53	73.13	2869.4	0.37	72.82
353.2	0.93	62.30	982.8	0.40	64.98	1629.6	0.54	61.84	2249.6	0.43	72.99	2869.6	0.32	72.47
353.4	0.93	61.83	983.0	0.42	66.44	1629.8	0.50	61.77	2249.8	0.38	72.89	2869.8	0.31	72.53
353.6	0.87	60.95	983.2	0.45	67.53	1630.0	0.53	62.21	2250.0	0.50	72.83	2870.0	0.33	73.16
353.8	0.93	60.03	983.4	0.37	68.04	1630.2	0.52	63.23	2250.2	0.42	72.67	2870.2	0.42	74.31
354.0	0.84	59.35	983.6	0.39	68.08	1630.4	0.53	64.78	2250.4	0.42	72.32	2870.4	0.38	75.78
354.2	0.64	58.98	983.8	0.43	67.96	1630.6	0.63	66.80	2250.6	0.46	71.76	2870.6	0.38	77.22
354.4	0.95	58.80	984.0	0.38	68.05	1630.8	0.72	69.09	2250.8	0.45	71.14	2870.8	0.41	78.40
354.6	0.85	58.59	984.2	0.41	68.45	1631.0	0.59	71.32	2251.0	0.45	70.65	2871.0	0.39	79.22
354.8	1.02	58.13	984.4	0.41	68.94	1631.2	0.64	73.10	2251.2	0.46	70.43	2871.2	0.40	79.63
355.0	1.10	57.36	984.6	0.40	69.17	1631.4	0.46	74.17	2251.4	0.41	70.41	2871.4	0.40	79.64
355.2	0.70	56.43	984.8	0.40	68.89	1631.6	0.75	74.51	2251.6	0.39	70.50	2871.6	0.40	79.31
355.4	0.88	55.61	985.0	0.39	68.15	1631.8	0.64	74.36	2251.8	0.42	70.56	2871.8	0.42	78.75
355.6	0.75	55.16	985.2	0.37	67.16	1632.0	0.71	74.04	2252.0	0.44	70.54	2872.0	0.33	78.09
355.8	0.95	55.17	985.4	0.41	66.20	1632.2	0.64	73.72	2252.2	0.43	70.48	2872.2	0.41	77.58
356.0	0.78	55.54	985.6	0.42	65.42	1632.4	0.95	73.42	2252.4	0.41	70.51	2872.4	0.41	77.43
356.2	0.87	56.06	985.8	0.46	64.75	1632.6	0.75	73.07	2252.6	0.40	70.82	2872.6	0.39	77.64
356.4	0.80	56.50	986.0	0.44	63.97	1632.8	0.73	72.68	2252.8	0.42	71.42	2872.8	0.37	77.99
356.6	0.80	56.68	986.2	0.43	63.02	1633.0	0.73	72.37	2253.0	0.38	72.14	2873.0	0.39	78.21
356.8	0.79	56.58	986.4	0.35	61.90	1633.2	0.60	72.40	2253.2	0.39	72.70	2873.2	0.36	78.04
357.0	0.78	56.34	986.6	0.39	60.70	1633.4	0.73	72.87	2253.4	0.32	72.79	2873.4	0.37	77.35
357.2	0.88	56.15	986.8	0.37	59.54	1633.6	0.59	73.57	2253.6	0.32	72.30	2873.6	0.30	76.32
357.4	0.86	56.12	987.0	0.40	58.51	1633.8	0.79	74.09	2253.8	0.35	71.39	2873.8	0.27	75.25
357.6	0.68	56.24	987.2	0.36	57.62	1634.0	0.75	74.05	2254.0	0.34	70.44	2874.0	0.22	74.43
357.8	0.79	56.34	987.4	0.35	56.90	1634.2	0.80	73.28	2254.2	0.32	70.00	2874.2	0.25	74.05
358.0	0.76	56.24	987.6	0.33	56.34	1634.4	1.18	71.99	2254.4	0.34	70.78	2874.4	0.31	74.16
358.2	0.68	55.87	987.8	0.34	55.91	1634.6	0.96	70.60	2254.6	0.35	73.30	2874.6	0.32	74.74
358.4	0.73	55.38	988.0	0.43	55.66	1634.8	0.81	69.62	2254.8	0.36	77.35	2874.8	0.31	75.81
358.6	0.75	54.99	988.2	0.42	55.63	1635.0	0.63	69.43	2255.0	0.36	82.05	2875.0	0.37	77.34
358.8	0.75	54.89	988.4	0.40	55.88	1635.2	0.67	70.22	2255.2	0.32	86.04	2875.2	0.34	79.10
359.0	0.70	55.15	988.6	0.40	56.39	1635.4	0.84	72.02	2255.4	0.36	87.97	2875.4	0.34	80.65
359.2	0.80	55.69	988.8	0.43	57.12	1635.6	1.08	74.72	2255.6	0.40	87.18	2875.6	0.33	81.58
359.4	0.66	56.38	989.0	0.43	57.97	1635.8	1.49	78.07	2255.8	0.48	84.17	2875.8	0.37	81.54
359.6	0.70	57.14	989.2	0.40	58.83	1636.0	2.01	82.14	2256.0	0.50	80.20	2876.0	0.29	80.56
359.8	0.77	57.98	989.4	0.41	59.58	1636.2	2.05	87.02	2256.2	0.46	76.71	2876.2	0.30	78.99
360.0	0.75	58.92	989.6	0.42	60.07	1636.4	1.91	92.40	2256.4	0.41	74.51	2876.4	0.32	77.35
360.2	0.79	59.89	989.8	0.39	60.21	1636.6	3.60	97.42	2256.6	0.46	73.61	2876.6	0.30	76.00
360.4	0.78	60.81	990.0	0.43	60.01	1636.8	3.51	100.90	2256.8	0.47	73.39	2876.8	0.30	75.07
360.6	0.70	61.65	990.2	0.39	59.52	1637.0	1.47	101.73	2257.0	0.44	73.19	2877.0	0.30	74.67
360.8	0.82	62.44	990.4	0.39	58.89	1637.2	1.73	99.41	2257.2	0.43	72.81	2877.2	0.27	74.78
361.0	0.83	63.37	990.6	0.44	58.28	1637.4	1.00	94.60	2257.4	0.43	72.32	2877.4	0.23	75.33
361.2	0.87	64.54	990.8	0.43	57.74	1637.6	1.20	88.74	2257.6	0.42	71.92	2877.6	0.25	76.12
361.4	0.81	65.83	991.0	0.39	57.25	1637.8	1.49	83.38	2257.8	0.43	71.77	2877.8	0.32	76.80
361.6	0.87	66.90	991.2	0.48	56.75	1638.0	0.94	79.49	2258.0	0.44	71.85	2878.0	0.16	77.03
361.8	0.82	67.33	991.4	0.41	56.22	1638.2	1.01	77.36	2258.2	0.34	72.01	2878.2	0.30	76.70
362.0	0.71	66.84	991.6	0.40	55.73	1638.4	0.88	76.58	2258.4	0.36	72.11	2878.4	0.38	76.02
362.2	0.92	65.48	991.8	0.41	55.43	1638.6	0.89	76.47	2258.6	0.47	72.04	2878.6	0.28	75.32
362.4	0.81	63.69	992.0	0.38	55.38	1638.8	1.04	76.71	2258.8	0.44	71.73	2878.8	0.29	74.96
362.6	0.72	61.98	992.2	0.47	55.56	1639.0	1.07	77.19	2259.0	0.42	71.25	2879.0	0.29	75.01
362.8	0.64	60.67	992.4	0.43	55.99	1639.2	1.11	77.76	2259.2	0.41	70.74	2879.2	0.26	75.34
363.0	0.78	59.84	992.6	0.36	56.71	1639.4	1.25	78.32	2259.4	0.35	70.36	2879.4	0.28	75.61
363.2	0.71	59.35	992.8	0.35	57.73	1639.6	1.21	78.93	2259.6	0.30	70.34	2879.6	0.27	75.49
363.4	0.78	58.97	993.0	0.38	59.02	1639.8	1.17	79.72	2259.8	0.42	70.89	2879.8	0.29	74.88
363.6	0.56	58.57	993.2	0.41	60.43	1640.0	1.15	80.79	2260.0	0.41	72.27	2880.0	0.29	73.84
363.8	0.65	58.20	993.4	0.51	61.67	1640.2	1.30	82.14	2260.2	0.43	74.67	2880.2	0.27	72.65
364.0	0.75	57.97	993.6	0.46	62.40	1640.4	2.22	83.57	2260.4	0.42	78.03	2880.4	0.29	71.69
364.2	0.87	57.93	993.8	0.46	62.42	1640.6	2.03	84.80	2260.6	0.41	81.90	2880.6	0.30	71.28
364.4	0.71	58.09	994.0	0.46	61.76	1640.8	1.98	85.58	2260.8	0.34	85.48	2880.8	0.33	71.59
364.6	0.72	58.41	994.2	0.47	60.69	1641.0	2.34	85.88	2261.0	0.37	87.93	2881.0	0.32	72.51
364.8	0.83	58.84	994.4	0.41	59.82	1641.2	1.90	85.88	2261.2	0.41	88.65	2881.2	0.33	73.53
365.0	0.70	59.47	994.6	0.36	59.69	1641.4	2.14	85.84	2261.4	0.38	87.62	2881.4	0.28	74.16
365.2	0.89	60.65	994.8	0.42	60.77	1641.6	1.94	85.89	2261.6	0.39	85.29	2881.6	0.29	74.06
365.4	0.74	62.73	995.0	0.38	63.11	1641.8	2.17	86.02	2261.8	0.40	82.39	2881.8	0.30	73.16
365.6	0.93	65.75	995.2	0.47	66.24	1642.0</								

367.4	0.68	60.05	997.0	0.49	66.38	1643.8	3.81	91.20	2263.8	0.40	72.32	2883.8	0.28	68.10
367.6	0.65	61.03	997.2	0.44	64.09	1644.0	2.52	91.46	2264.0	0.36	71.49	2884.0	0.32	68.97
367.8	0.72	63.97	997.4	0.38	62.07	1644.2	1.91	91.45	2264.2	0.34	71.13	2884.2	0.29	69.99
368.0	0.81	68.57	997.6	0.40	60.90	1644.4	2.39	91.46	2264.4	0.41	71.30	2884.4	0.29	71.22
368.2	0.82	73.83	997.8	0.33	60.64	1644.6	3.25	91.73	2264.6	0.43	71.85	2884.6	0.28	72.54
368.4	0.79	78.12	998.0	0.44	60.86	1644.8	2.58	92.40	2264.8	0.40	72.54	2884.8	0.29	73.69
368.6	0.67	79.86	998.2	0.44	60.97	1645.0	1.65	93.44	2265.0	0.40	73.10	2885.0	0.28	74.36
368.8	0.76	78.36	998.4	0.47	60.63	1645.2	1.92	94.58	2265.2	0.42	73.48	2885.2	0.29	74.37
369.0	0.77	74.28	998.6	0.46	60.06	1645.4	3.22	95.42	2265.4	0.42	73.76	2885.4	0.28	73.80
369.2	0.71	69.16	998.8	0.39	60.09	1645.6	2.54	95.62	2265.6	0.42	74.00	2885.6	0.29	72.98
369.4	0.65	64.56	999.0	0.39	61.45	1645.8	3.22	95.01	2265.8	0.46	74.20	2885.8	0.28	72.22
369.6	0.76	61.37	999.2	0.40	64.34	1646.0	2.29	93.73	2266.0	0.45	74.37	2886.0	0.29	71.65
369.8	0.79	59.67	999.4	0.35	68.15	1646.2	3.30	92.21	2266.2	0.43	74.41	2886.2	0.26	71.29
370.0	0.54	58.89	999.6	0.15	71.81	1646.4	2.90	90.93	2266.4	0.37	74.34	2886.4	0.32	71.12
370.2	0.65	58.47	999.8	0.50	74.16	1646.6	2.50	90.15	2266.6	0.38	74.27	2886.6	0.29	71.11
370.4	0.59	58.24	1000.0	0.47	74.71	1646.8	1.77	89.91	2266.8	0.42	74.31	2886.8	0.27	71.29
370.6	0.74	58.11	1000.2	0.52	73.96	1647.0	2.91	90.13	2267.0	0.45	74.55	2887.0	0.23	71.70
370.8	0.72	58.01	1000.4	0.54	73.11	1647.2	3.51	90.55	2267.2	0.39	75.03	2887.2	0.27	72.24
371.0	0.79	57.87	1000.6	0.52	73.03	1647.4	3.04	90.99	2267.4	0.33	75.64	2887.4	0.29	72.69
371.2	0.71	57.66	1000.8	0.51	73.73	1647.6	3.21	91.43	2267.6	0.44	76.16	2887.6	0.24	72.95
371.4	0.67	57.47	1001.0	0.46	74.38	1647.8	3.78	91.89	2267.8	0.41	76.36	2887.8	0.24	73.04
371.6	0.64	57.46	1001.2	0.52	73.77	1648.0	3.60	92.36	2268.0	0.39	76.11	2888.0	0.26	73.03
371.8	0.57	57.71	1001.4	0.32	71.30	1648.2	1.98	92.80	2268.2	0.41	75.39	2888.2	0.25	73.01
372.0	0.75	58.20	1001.6	0.47	67.36	1648.4	3.87	93.14	2268.4	0.45	74.33	2888.4	0.23	72.93
372.2	0.51	58.81	1001.8	0.47	63.12	1648.6	5.14	93.22	2268.6	0.38	73.20	2888.6	0.26	72.71
372.4	0.58	59.39	1002.0	0.39	59.70	1648.8	4.92	92.95	2268.8	0.38	72.28	2888.8	0.24	72.25
372.6	0.60	59.83	1002.2	0.42	57.71	1649.0	5.07	92.36	2269.0	0.35	71.64	2889.0	0.26	71.61
372.8	0.75	60.07	1002.4	0.35	57.10	1649.2	5.54	91.63	2269.2	0.36	71.29	2889.2	0.27	71.00
373.0	0.82	60.15	1002.6	0.35	57.36	1649.4	4.81	91.00	2269.4	0.51	71.22	2889.4	0.25	70.59
373.2	0.83	60.14	1002.8	0.47	57.91	1649.6	3.76	90.67	2269.6	0.58	71.35	2889.6	0.29	70.41
373.4	0.77	60.21	1003.0	0.44	58.51	1649.8	3.71	90.75	2269.8	0.45	71.62	2889.8	0.25	70.39
373.6	0.81	60.52	1003.2	0.43	59.14	1650.0	2.33	91.18	2270.0	0.37	72.00	2890.0	0.28	70.41
373.8	0.72	61.31	1003.4	0.44	59.73	1650.2	2.26	91.74	2270.2	0.42	72.44	2890.2	0.30	70.42
374.0	0.73	62.69	1003.6	0.51	60.10	1650.4	3.58	92.22	2270.4	0.56	72.88	2890.4	0.28	70.49
374.2	0.94	64.63	1003.8	0.49	60.10	1650.6	3.98	92.47	2270.6	0.48	73.24	2890.6	0.31	70.68
374.4	0.74	66.99	1004.0	0.44	59.67	1650.8	3.32	92.45	2270.8	0.51	73.53	2890.8	0.25	70.96
374.6	0.86	69.41	1004.2	0.48	58.89	1651.0	3.52	92.27	2271.0	0.55	73.80	2891.0	0.29	71.20
374.8	0.75	71.42	1004.4	0.36	57.96	1651.2	3.94	92.08	2271.2	0.61	74.03	2891.2	0.26	71.36
375.0	0.90	72.54	1004.6	0.47	57.11	1651.4	2.79	92.13	2271.4	0.62	74.16	2891.4	0.27	71.43
375.2	0.82	72.51	1004.8	0.47	56.51	1651.6	4.61	92.67	2271.6	0.64	74.12	2891.6	0.29	71.45
375.4	0.78	71.27	1005.0	0.43	56.19	1651.8	2.89	93.87	2271.8	0.56	73.85	2891.8	0.27	71.50
375.6	0.80	69.11	1005.2	0.51	56.11	1652.0	1.98	95.55	2272.0	0.58	73.42	2892.0	0.29	71.64
375.8	0.64	66.52	1005.4	0.52	56.20	1652.2	2.87	97.19	2272.2	0.52	73.00	2892.2	0.32	71.84
376.0	0.75	63.96	1005.6	0.48	56.44	1652.4	1.58	98.11	2272.4	0.53	72.79	2892.4	0.29	72.07
376.2	0.75	61.80	1005.8	0.50	56.77	1652.6	2.50	97.89	2272.6	0.52	72.91	2892.6	0.28	72.33
376.4	0.73	60.25	1006.0	0.56	57.12	1652.8	3.67	96.59	2272.8	0.60	73.49	2892.8	0.27	72.61
376.6	0.76	59.34	1006.2	0.48	57.50	1653.0	4.87	94.78	2273.0	0.57	74.98	2893.0	0.29	72.92
376.8	0.67	58.96	1006.4	0.48	58.20	1653.2	3.39	93.16	2273.2	0.52	77.71	2893.2	0.33	73.30
377.0	0.70	58.93	1006.6	0.53	59.74	1653.4	2.73	92.29	2273.4	0.51	81.66	2893.4	0.33	73.72
377.2	0.82	59.06	1006.8	0.42	62.47	1653.6	0.96	92.39	2273.6	0.64	86.32	2893.6	0.32	74.16
377.4	0.61	59.17	1007.0	0.51	66.21	1653.8	1.94	93.28	2273.8	0.61	90.56	2893.8	0.32	74.63
377.6	0.66	59.06	1007.2	0.56	70.19	1654.0	4.23	94.49	2274.0	0.57	93.11	2894.0	0.31	75.06
377.8	0.59	58.72	1007.4	0.59	73.26	1654.2	3.91	95.53	2274.2	0.67	93.13	2894.2	0.29	75.28
378.0	0.54	58.22	1007.6	0.66	74.54	1654.4	1.77	96.15	2274.4	0.66	90.97	2894.4	0.27	75.12
378.2	0.62	57.72	1007.8	0.55	73.89	1654.6	7.09	96.21	2274.6	0.75	87.84	2894.6	0.36	74.60
378.4	0.70	57.36	1008.0	0.55	71.94	1654.8	4.92	95.76	2274.8	0.55	85.45	2894.8	0.35	73.89
378.6	0.45	57.19	1008.2	0.62	69.62	1655.0	3.38	94.97	2275.0	0.60	85.27	2895.0	0.34	73.25
378.8	0.64	57.12	1008.4	0.60	67.70	1655.2	2.76	94.06	2275.2	0.72	87.70	2895.2	0.33	72.88
379.0	0.61	57.08	1008.6	0.62	66.37	1655.4	4.31	93.23	2275.4	0.86	91.71	2895.4	0.35	72.78
379.2	0.71	56.95	1008.8	0.47	65.34	1655.6	3.82	92.63	2275.6	0.87	95.67	2895.6	0.41	72.81
379.4	0.54	56.68	1009.0	0.55	64.24	1655.8	3.75	92.33	2275.8	0.86	98.04	2895.8	0.39	72.89
379.6	0.64	56.27	1009.2	0.52	62.95	1656.0	3.58	92.25	2276.0	0.71	97.90	2896.0	0.35	73.00
379.8	0.65	55.81	1009.4	0.50	61.64	1656.2	3.73	92.25	2276.2	0.70	95.42	2896.2	0.34	73.21
380.0	0.60	55.43	1009.6	0.44	60.53	1656.4	6.74	92.22	2276.4	0.74	91.66	2896.4	0.35	73.57
380.2	0.63	55.24	1009.8	0.54	59.76	1656.6	5.71	92.09	2276.6	0.72	87.87	2896.6	0.33	73.96
380.4	0.59	55.28	1010.0	0.44	59.31	1656.8	5.21	91.85	2276.8	0.62	84.96	2896.8	0.32	74.16
380.6	0.54	55.51	1010.2	0.53	59.12	1657.0	3.70	91.55	2277.0	0.74	83.36	2897.0	0.29	74.00
380.8	0.60	55.80	1010.4	0.61	59.16	1657.2	3.37	91.29	2277.2	0.50	83.11	2897.2	0.33	73.53
381.0	0.45	56.04	1010.6	0.55	59.33	1657.4	3.59	91.19	2277.4	0.66	83.89	2897.4	0.33	73.03
381.2	0.51	56.19	1010.8	0.60	59.50	1657.6	3.01	91.28	2277.6	0.68	85.56	2897.6	0.30	72.78
381.4	0.67	56.26	1011.0	0.48	59.54	1657.8	2.69	91.65	2277.8	0.60	88.33	2897.8	0.31	72.88
381.6	0.65	56.33	1011.2	0.50	59.36	1658.0	3.13	92.27	2278.0	0.82	92.24	2898.0	0.30	73.19
381.8														

383.6	0.48	59.26	1013.2	0.52	56.89	1660.0	2.85	90.43	2280.0	0.89	92.62	2900.0	0.28	73.55
383.8	0.63	58.88	1013.4	0.49	57.34	1660.2	3.14	90.37	2280.2	0.70	91.90	2900.2	0.29	74.84
384.0	0.61	58.62	1013.6	0.51	58.39	1660.4	2.75	90.79	2280.4	0.81	91.13	2900.4	0.33	76.15
384.2	0.58	58.67	1013.8	0.51	60.28	1660.6	3.29	91.88	2280.6	0.75	90.18	2900.6	0.29	76.96
384.4	0.57	59.10	1014.0	0.50	63.25	1660.8	3.49	93.74	2280.8	0.74	89.30	2900.8	0.26	76.90
384.6	0.62	59.76	1014.2	0.52	67.19	1661.0	4.28	96.20	2281.0	0.66	88.85	2901.0	0.28	75.92
384.8	0.61	60.33	1014.4	0.51	71.38	1661.2	5.69	98.79	2281.2	0.71	88.98	2901.2	0.25	74.34
385.0	0.69	60.55	1014.6	0.45	74.67	1661.4	4.57	100.98	2281.4	0.73	89.61	2901.4	0.26	72.68
385.2	0.59	60.30	1014.8	0.48	75.93	1661.6	3.95	102.17	2281.6	0.67	90.51	2901.6	0.20	71.43
385.4	0.66	59.76	1015.0	0.36	74.71	1661.8	4.71	102.03	2281.8	0.66	91.55	2901.8	0.30	70.86
385.6	0.63	59.29	1015.2	0.43	71.43	1662.0	4.63	100.68	2282.0	0.62	92.82	2902.0	0.25	70.92
385.8	0.55	59.29	1015.4	0.42	67.35	1662.2	3.77	98.83	2282.2	0.74	94.47	2902.2	0.25	71.42
386.0	0.64	60.04	1015.6	0.37	63.68	1662.4	4.20	97.45	2282.4	0.70	96.47	2902.4	0.27	72.08
386.2	0.64	61.52	1015.8	0.42	61.18	1662.6	3.41	97.21	2282.6	0.72	98.57	2902.6	0.30	72.69
386.4	0.64	63.34	1016.0	0.42	59.75	1662.8	2.99	98.18	2282.8	0.81	100.24	2902.8	0.26	73.14
386.6	0.49	64.99	1016.2	0.50	58.92	1663.0	2.26	99.93	2283.0	0.82	100.84	2903.0	0.24	73.36
386.8	0.62	66.01	1016.4	0.46	58.21	1663.2	0.81	101.63	2283.2	0.49	100.01	2903.2	0.20	73.28
387.0	0.50	66.26	1016.6	0.32	57.40	1663.4	1.45	102.57	2283.4	0.58	97.78	2903.4	0.21	72.90
387.2	0.57	65.87	1016.8	0.43	56.76	1663.6	3.94	102.58	2283.6	0.71	94.42	2903.6	0.26	72.25
387.4	0.43	65.19	1017.0	0.38	56.48	1663.8	1.83	101.85	2283.8	0.55	90.51	2903.8	0.26	71.52
387.6	0.50	64.52	1017.2	0.51	56.68	1664.0	3.18	100.75	2284.0	0.55	86.70	2904.0	0.26	70.90
387.8	0.57	63.98	1017.4	0.41	57.26	1664.2	6.15	99.59	2284.2	0.46	83.57	2904.2	0.26	70.62
388.0	0.62	63.45	1017.6	0.55	57.99	1664.4	2.53	98.57	2284.4	0.48	81.37	2904.4	0.30	70.77
388.2	0.47	62.76	1017.8	0.53	58.59	1664.6	1.92	97.67	2284.6	0.43	80.11	2904.6	0.23	71.37
388.4	0.48	61.78	1018.0	0.52	58.83	1664.8	2.44	96.81	2284.8	0.52	79.58	2904.8	0.32	72.26
388.6	0.51	60.55	1018.4	0.49	58.62	1665.0	1.81	96.03	2285.0	0.48	79.41	2905.0	0.28	73.22
388.8	0.51	59.23	1018.6	0.54	58.05	1665.2	2.82	95.58	2285.2	0.52	79.27	2905.2	0.25	74.01
389.0	0.51	57.96	1018.8	0.52	57.38	1665.4	3.81	95.73	2285.4	0.56	79.06	2905.4	0.32	74.43
389.2	0.46	56.89	1019.0	0.54	56.92	1665.6	3.15	96.61	2285.6	0.46	78.88	2905.6	0.26	74.50
389.4	0.53	56.10	1019.2	0.57	56.95	1665.8	3.33	98.15	2285.8	0.44	79.27	2905.8	0.22	74.39
389.6	0.45	55.65	1019.4	0.62	57.56	1666.0	1.25	99.88	2286.0	0.44	81.12	2906.0	0.27	74.33
389.8	0.47	55.54	1019.6	0.51	58.64	1666.2	1.03	101.12	2286.2	0.40	84.85	2906.2	0.26	74.45
390.0	0.46	55.70	1019.8	0.61	59.97	1666.4	1.89	101.26	2286.4	0.40	89.95	2906.4	0.31	74.74
390.2	0.48	56.04	1020.0	0.63	61.23	1666.6	2.78	100.03	2286.6	0.31	95.01	2906.6	0.26	75.05
390.4	0.52	56.42	1020.2	0.64	62.11	1666.8	3.20	97.65	2286.8	0.11	98.27	2906.8	0.30	75.28
390.6	0.47	56.75	1020.4	0.49	62.44	1667.0	2.86	94.79	2287.0	0.43	98.47	2907.0	0.28	75.28
390.8	0.51	56.94	1020.6	0.58	62.18	1667.2	2.86	92.26	2287.2	0.41	95.60	2907.2	0.26	75.11
391.0	0.49	56.96	1020.8	0.60	61.41	1667.4	2.67	90.64	2287.4	0.41	90.99	2907.4	0.24	74.88
391.2	0.53	56.79	1021.0	0.68	60.28	1667.6	2.86	90.22	2287.6	0.37	86.43	2907.6	0.29	74.70
391.4	0.40	56.44	1021.2	0.64	59.01	1667.8	2.12	90.88	2287.8	0.26	83.29	2907.8	0.27	74.59
391.6	0.48	55.89	1021.4	0.65	57.82	1668.0	2.29	92.28	2288.0	0.41	82.18	2908.0	0.25	74.51
391.8	0.43	55.21	1021.6	0.61	56.88	1668.2	1.96	93.97	2288.2	0.36	82.80	2908.2	0.30	74.42
392.0	0.38	54.63	1021.8	0.54	56.29	1668.4	1.98	95.57	2288.4	0.40	84.31	2908.4	0.30	74.25
392.2	0.36	54.45	1022.0	0.54	56.02	1668.6	2.84	96.91	2288.6	0.40	86.01	2908.6	0.28	74.00
392.4	0.41	54.92	1022.2	0.53	56.03	1668.8	3.24	97.95	2288.8	0.39	87.39	2908.8	0.31	73.74
392.6	0.43	56.08	1022.4	0.64	56.26	1669.0	4.60	98.87	2289.0	0.44	88.01	2909.0	0.30	73.52
392.8	0.45	57.63	1022.6	0.74	56.91	1669.2	4.34	99.80	2289.2	0.41	87.62	2909.2	0.33	73.39
393.0	0.47	59.09	1022.8	0.52	58.35	1669.4	2.94	100.79	2289.4	0.41	86.25	2909.4	0.27	73.47
393.2	0.45	60.01	1023.0	0.67	60.66	1669.6	4.32	101.75	2289.6	0.38	84.26	2909.6	0.25	73.79
393.4	0.49	60.16	1023.2	0.67	63.46	1669.8	3.44	102.62	2289.8	0.32	82.05	2909.8	0.28	74.28
393.6	0.49	59.65	1023.4	0.72	65.97	1670.0	4.48	103.57	2290.0	0.31	79.91	2910.0	0.23	74.79
393.8	0.44	58.84	1023.6	0.67	67.34	1670.2	3.99	104.91	2290.2	0.37	78.02	2910.2	0.24	75.20
394.0	0.54	58.02	1023.8	0.43	67.16	1670.4	4.60	106.85	2290.4	0.33	76.50	2910.4	0.24	75.37
394.2	0.43	57.31	1024.0	0.49	65.71	1670.6	5.07	109.24	2290.6	0.41	75.50	2910.6	0.29	75.18
394.4	0.47	56.69	1024.2	0.54	63.87	1670.8	5.97	111.53	2290.8	0.33	75.27	2910.8	0.28	74.71
394.6	0.53	56.19	1024.4	0.59	62.45	1671.0	3.08	112.88	2291.0	0.42	76.01	2911.0	0.27	74.13
394.8	0.47	55.84	1024.6	0.48	61.81	1671.2	3.47	112.65	2291.2	0.39	77.57	2911.2	0.31	73.55
395.0	0.46	55.74	1024.8	0.57	61.77	1671.4	4.02	110.83	2291.4	0.32	79.47	2911.4	0.27	73.03
395.2	0.47	56.00	1025.0	0.57	61.87	1671.6	4.17	107.99	2291.6	0.33	81.19	2911.6	0.27	72.64
395.4	0.48	56.59	1025.2	0.53	61.63	1671.8	3.97	105.08	2291.8	0.40	82.38	2911.8	0.31	72.46
395.6	0.48	57.35	1025.4	0.63	61.11	1672.0	3.81	103.02	2292.0	0.37	82.94	2912.0	0.30	72.51
395.8	0.53	58.09	1025.6	0.63	60.67	1672.2	3.54	102.31	2292.2	0.42	83.08	2912.2	0.25	72.77
396.0	0.44	58.66	1025.8	0.59	60.61	1672.4	3.79	102.77	2292.4	0.46	83.07	2912.4	0.22	73.18
396.2	0.52	59.01	1026.0	0.62	60.99	1672.6	2.12	103.84	2292.6	0.37	82.96	2912.6	0.31	73.58
396.4	0.51	59.11	1026.2	0.59	61.60	1672.8	2.00	104.92	2292.8	0.46	82.60	2912.8	0.30	73.86
396.6	0.45	59.08	1049.4	0.40	62.04	1673.0	2.50	105.51	2293.0	0.44	81.79	2913.0	0.29	74.01
396.8	0.48	59.01	1049.6	0.47	61.95	1673.2	2.79	105.35	2293.2	0.39	80.46	2913.2	0.35	74.04
397.0	0.49	58.96	1049.8	0.44	61.15	1673.4	2.56	104.46	2293.4	0.34	78.72	2913.4	0.32	73.95
397.2	0.50	58.91	1050.0	0.45	59.74	1673.6	2.97	103.03	2293.6	0.42	77.35	2913.6	0.24	73.76
397.4	0.52	58.87	1050.2	0.32	58.06	1673.8	2.24	101.35	2293.8	0.42	77.28	2913.8	0.27	73.49
397.6	0.46	58.79	1050.4	0.27	56.49	1674.0	1.79	100.00	2294.0	0.37	78.98	2914.0	0.25	73.16
397.8	0.52	58.60	1050.6	0.30	55.32	1674.2	1.67	99.62	2294.2	0.42				

399.8	0.40	60.06	1052.6	0.35	54.22	1676.2	1.34	102.60	2296.2	0.19	103.89	2916.2	0.25	77.28
400.0	0.39	59.52	1052.8	0.35	54.16	1676.4	1.15	103.33	2296.4	0.45	101.95	2916.4	0.27	77.22
400.2	0.41	59.08	1053.0	0.33	53.94	1676.6	0.93	104.37	2296.6	0.45	96.94	2916.6	0.24	77.44
400.4	0.50	58.78	1053.2	0.33	53.69	1676.8	0.82	105.24	2296.8	0.53	90.40	2916.8	0.28	78.40
400.6	0.42	58.61	1053.4	0.30	53.58	1677.0	0.94	105.38	2297.0	0.48	84.22	2917.0	0.28	80.04
400.8	0.41	58.65	1053.6	0.37	53.74	1677.2	0.97	104.24	2297.2	0.49	79.55	2917.2	0.22	81.66
401.0	0.52	59.07	1053.8	0.35	54.20	1677.4	0.88	101.68	2297.4	0.46	76.61	2917.4	0.21	82.32
401.2	0.47	60.03	1054.0	0.33	54.85	1677.6	0.70	98.24	2297.6	0.49	74.94	2917.6	0.20	81.38
401.4	0.42	61.44	1054.2	0.27	55.48	1677.8	0.88	94.80	2297.8	0.40	73.79	2917.8	0.23	79.38
401.6	0.47	62.80	1054.4	0.32	55.93	1678.0	0.84	92.12	2298.0	0.44	72.88	2918.0	0.31	78.09
401.8	0.42	63.50	1054.6	0.32	56.13	1678.2	0.74	90.54	2298.2	0.45	72.21	2918.2	0.31	79.15
402.0	0.40	63.14	1054.8	0.28	56.12	1678.4	0.81	90.57	2298.4	0.36	71.78	2918.4	0.29	82.79
402.2	0.42	61.85	1055.0	0.31	56.03	1678.6	0.54	92.43	2298.6	0.43	71.50	2918.6	0.31	87.86
402.4	0.46	60.15	1055.2	0.31	56.02	1678.8	0.73	95.79	2298.8	0.35	71.34	2918.8	0.30	92.07
402.6	0.33	58.66	1055.4	0.30	56.19	1679.0	0.65	99.95	2299.0	0.43	71.29	2919.0	0.25	93.35
402.8	0.37	57.82	1055.6	0.28	56.53	1679.2	0.67	103.54	2299.2	0.38	71.35	2919.2	0.36	91.17
403.0	0.38	57.81	1055.8	0.32	56.94	1679.4	0.10	105.03	2299.4	0.41	71.64	2919.4	0.35	86.62
403.2	0.44	58.50	1056.0	0.31	57.28	1679.6	0.18	103.43	2299.6	0.42	72.43	2919.6	0.34	81.42
403.4	0.42	59.62	1056.2	0.33	57.40	1679.8	0.28	99.21	2299.8	0.39	74.01	2919.8	0.31	77.14
403.6	0.41	60.97	1056.4	0.33	57.22	1680.0	0.36	93.67	2300.0	0.35	76.42	2920.0	0.25	74.49
403.8	0.39	62.34	1056.6	0.33	56.83	1680.2	0.44	88.38	2300.2	0.43	79.43	2920.2	0.30	73.29
404.0	0.39	63.53	1056.8	0.34	56.32	1680.4	0.29	84.31	2300.4	0.45	82.53	2920.4	0.31	72.68
404.2	0.43	64.37	1057.0	0.28	55.82	1680.6	0.30	81.78	2300.6	0.40	85.18	2920.6	0.31	71.90
404.4	0.40	64.81	1057.2	0.28	55.37	1680.8	0.21	80.23	2300.8	0.40	87.00	2920.8	0.35	70.92
404.6	0.43	64.78	1057.4	0.30	54.97	1681.0	0.26	78.93	2301.0	0.45	87.97	2921.0	0.26	70.09
404.8	0.36	64.26	1057.6	0.10	54.59	1681.2	0.27	77.79	2301.2	0.51	88.27	2921.2	0.29	69.86
405.0	0.43	63.29	1057.8	0.20	54.21	1681.4	0.32	76.74	2301.4	0.41	88.16	2921.4	0.31	70.50
405.2	0.35	62.18	1058.0	0.26	53.92	1681.6	0.30	75.80	2301.6	0.38	87.87	2921.6	0.27	71.93
405.4	0.42	61.46	1058.2	0.29	53.83	1681.8	0.30	75.01	2301.8	0.43	87.46	2921.8	0.27	73.68
405.6	0.32	61.64	1058.4	0.28	54.01	1682.0	0.27	74.50	2302.0	0.40	86.85	2922.0	0.32	75.15
405.8	0.36	63.00	1058.6	0.29	54.51	1682.2	0.29	74.28	2302.2	0.40	85.91	2922.2	0.27	75.85
406.0	0.33	65.43	1058.8	0.30	55.24	1682.4	0.27	74.49	2302.4	0.36	84.54	2922.4	0.32	75.78
414.2	0.57	68.38	1059.0	0.30	56.11	1682.6	0.24	75.32	2302.6	0.36	82.63	2922.6	0.28	75.24
414.4	0.54	71.10	1059.2	0.33	56.98	1682.8	0.22	76.99	2302.8	0.44	80.24	2922.8	0.27	74.60
414.6	0.55	72.96	1059.4	0.38	57.78	1683.0	0.23	79.69	2303.0	0.47	77.63	2923.0	0.29	74.01
414.8	0.53	73.72	1059.6	0.34	58.39	1683.2	0.20	83.12	2303.2	0.47	75.27	2923.2	0.33	73.50
415.0	0.52	73.44	1059.8	0.40	58.69	1683.4	0.18	86.38	2303.4	0.39	73.80	2923.4	0.26	72.96
415.2	0.48	72.34	1060.0	0.37	58.55	1683.6	0.18	88.36	2303.6	0.33	73.71	2923.6	0.30	72.42
415.4	0.43	70.68	1060.2	0.30	57.92	1683.8	0.21	88.27	2303.8	0.36	75.27	2923.8	0.29	72.13
415.6	0.41	68.62	1060.4	0.35	56.90	1684.0	0.20	86.04	2304.0	0.36	78.42	2924.0	0.23	72.21
415.8	0.42	66.33	1060.6	0.36	55.78	1684.2	0.18	82.33	2304.2	0.38	82.60	2924.2	0.28	72.63
416.0	0.49	64.15	1060.8	0.31	55.02	1684.4	0.18	78.20	2304.4	0.45	86.81	2924.4	0.28	73.19
416.2	0.41	62.46	1061.0	0.33	55.00	1684.6	0.20	74.55	2304.6	0.44	89.85	2924.6	0.27	73.70
416.4	0.37	61.49	1061.2	0.28	55.78	1684.8	0.20	71.74	2304.8	0.44	90.80	2924.8	0.30	74.14
416.6	0.40	61.27	1061.4	0.31	56.98	1685.0	0.20	69.70	2305.0	0.48	89.48	2925.0	0.15	74.56
416.8	0.40	61.61	1061.6	0.40	57.90	1685.2	0.21	68.20	2305.2	0.45	86.60	2925.2	0.30	74.99
417.0	0.48	62.10	1061.8	0.32	57.90	1685.4	0.17	67.04	2305.4	0.43	83.61	2925.4	0.29	75.42
417.2	0.54	62.30	1062.0	0.39	56.67	1685.6	0.17	66.20	2305.6	0.43	81.84	2925.6	0.30	75.77
417.4	0.43	61.94	1062.2	0.32	54.44	1685.8	0.18	65.83	2305.8	0.56	81.95	2925.8	0.24	75.94
417.6	0.43	61.10	1062.4	0.31	51.89	1686.0	0.19	65.98	2306.0	0.41	83.73	2926.0	0.31	75.85
417.8	0.50	60.04	1062.6	0.29	49.85	1686.2	0.16	66.57	2306.2	0.59	86.32	2926.2	0.28	75.49
418.0	0.47	59.11	1062.8	0.29	49.03	1686.4	0.18	67.55	2306.4	0.68	88.62	2926.4	0.35	75.00
418.2	0.39	58.55	1063.0	0.13	49.66	1686.6	0.18	68.89	2306.6	0.60	89.87	2926.6	0.33	74.48
418.4	0.42	58.46	1063.2	0.09	51.55	1686.8	0.23	70.57	2306.8	0.52	89.84	2926.8	0.26	74.02
418.6	0.49	58.75	1063.4	0.45	54.24	1687.0	0.21	72.49	2307.0	0.55	88.68	2927.0	0.23	73.67
418.8	0.49	59.21	1063.6	0.38	57.19	1687.2	0.15	74.47	2307.2	0.55	86.81	2927.2	0.31	73.47
419.0	0.44	59.60	1063.8	0.38	59.87	1687.4	0.22	76.20	2307.4	0.44	84.86	2927.4	0.32	73.40
419.2	0.47	59.82	1064.0	0.32	61.97	1687.6	0.22	77.42	2307.6	0.50	83.54	2927.6	0.23	73.42
419.4	0.49	59.87	1064.2	0.38	63.38	1687.8	0.24	77.98	2307.8	0.50	83.37	2927.8	0.29	73.47
419.6	0.48	59.85	1064.4	0.49	64.23	1688.0	0.18	77.92	2308.0	0.53	84.38	2928.0	0.28	73.54
419.8	0.48	59.88	1064.6	0.42	64.74	1688.2	0.21	77.45	2308.2	0.67	86.17	2928.2	0.25	73.59
420.0	0.47	60.07	1064.8	0.44	65.12	1688.4	0.21	76.87	2308.4	0.52	87.99	2928.4	0.25	73.48
420.2	0.53	60.41	1065.0	0.46	65.41	1688.6	0.22	76.41	2308.6	0.73	89.18	2928.6	0.21	73.12
420.4	0.50	60.88	1065.2	0.52	65.49	1688.8	0.21	76.15	2308.8	0.61	89.36	2928.8	0.26	72.50
420.6	0.49	61.50	1065.4	0.49	65.27	1689.0	0.25	75.95	2309.0	0.57	88.64	2929.0	0.36	71.72
420.8	0.52	62.27	1065.6	0.47	64.66	1689.2	0.23	75.67	2309.2	0.51	87.34	2929.2	0.23	70.97
421.0	0.54	63.13	1065.8	0.43	63.68	1689.4	0.24	75.26	2309.4	0.63	85.80	2929.4	0.25	70.51
421.2	0.58	64.00	1066.0	0.43	62.43	1689.6	0.22	74.74	2309.6	0.59	84.34	2929.6	0.26	70.56
421.4	0.61	64.73	1066.2	0.41	61.13	1689.8	0.22	74.18	2309.8	0.62	83.11	2929.8	0.38	71.07
421.6	0.58	65.17	1066.4	0.44	59.88	1690.0	0.22	73.58	2310.0	0.43	82.09	2930.0	0.29	71.84
421.8	0.55	65.34	1066.6	0.41	58.71	1690.2	0.21	72.90	2310.2	0.42	81.16	2930.2	0.29	72.63
422.0	0.64	65.36	1066.8	0.42	57.66	1690.4	0.19	72.03	2310.4	0.39	80.26	2930.4	0.4	

424.0	0.67	77.76	1068.8	0.37	55.92	1692.4	0.19	72.92	2312.4	0.61	83.91	2932.4	0.37	75.27
424.2	0.67	72.94	1069.0	0.43	56.21	1692.6	0.20	72.59	2312.6	0.66	84.20	2932.6	0.37	75.36
424.4	0.55	67.43	1069.2	0.35	56.28	1692.8	0.19	71.60	2312.8	0.68	83.80	2932.8	0.39	75.16
424.6	0.56	62.97	1069.4	0.42	56.12	1693.0	0.20	70.15	2313.0	0.67	82.88	2933.0	0.39	74.67
424.8	0.63	60.47	1069.6	0.40	55.76	1693.2	0.20	68.52	2313.2	0.62	81.79	2933.2	0.38	73.95
425.0	0.53	59.90	1069.8	0.39	55.29	1693.4	0.19	67.00	2313.4	0.65	80.77	2933.4	0.40	73.08
425.2	0.64	60.30	1070.0	0.38	54.78	1693.6	0.17	65.76	2313.6	0.70	79.85	2933.6	0.31	72.15
425.4	0.59	60.65	1070.2	0.32	54.30	1693.8	0.16	64.91	2313.8	0.62	79.01	2933.8	0.33	71.23
425.6	0.60	60.91	1070.4	0.35	53.89	1694.0	0.18	64.41	2314.0	0.56	78.26	2934.0	0.36	70.42
425.8	0.45	61.13	1070.6	0.36	53.61	1694.2	0.17	64.23	2314.2	0.65	77.61	2934.2	0.33	69.84
426.0	0.57	61.38	1070.8	0.37	53.45	1694.4	0.15	64.33	2314.4	0.59	77.24	2934.4	0.23	69.66
426.2	0.52	61.71	1071.0	0.32	53.37	1694.6	0.14	64.62	2314.6	0.58	77.60	2934.6	0.37	69.95
426.4	0.57	62.10	1071.2	0.40	53.32	1694.8	0.19	65.02	2314.8	0.54	79.12	2934.8	0.31	70.63
426.6	0.61	62.43	1071.4	0.41	53.25	1695.0	0.16	65.47	2315.0	0.53	81.69	2935.0	0.36	71.53
426.8	0.53	62.53	1071.6	0.39	53.18	1695.2	0.20	66.06	2315.2	0.57	84.73	2935.2	0.35	72.40
427.0	0.53	62.47	1071.8	0.35	53.17	1695.4	0.19	66.95	2315.4	0.54	87.32	2935.4	0.33	73.05
427.2	0.51	62.57	1072.0	0.34	53.30	1695.6	0.24	68.26	2315.6	0.17	88.59	2935.6	0.38	73.45
427.4	0.49	63.21	1072.2	0.37	53.59	1695.8	0.21	69.99	2315.8	0.58	88.07	2935.8	0.31	73.69
427.6	0.51	64.60	1072.4	0.33	54.00	1696.0	0.24	71.82	2316.0	0.56	86.17	2936.0	0.30	73.86
427.8	0.43	66.64	1072.6	0.34	54.43	1696.2	0.24	73.26	2316.2	0.55	83.80	2936.2	0.29	73.92
428.0	0.75	69.27	1072.8	0.35	54.80	1696.4	0.22	73.93	2316.4	0.52	81.94	2936.4	0.31	73.83
428.2	0.74	72.34	1073.0	0.34	55.07	1696.6	0.25	73.67	2316.6	0.48	81.21	2936.6	0.35	73.58
428.4	0.76	75.55	1073.2	0.36	55.28	1696.8	0.26	72.71	2316.8	0.55	81.77	2936.8	0.32	73.26
428.6	0.73	78.48	1073.4	0.37	55.46	1697.0	0.25	71.50	2317.0	0.56	83.25	2937.0	0.32	72.99
428.8	0.68	80.61	1073.6	0.37	55.65	1697.2	0.24	70.47	2317.2	0.54	84.99	2937.2	0.35	72.86
429.0	0.85	81.42	1073.8	0.34	55.88	1697.4	0.26	69.88	2317.4	0.65	86.56	2937.4	0.27	72.92
429.2	0.96	80.69	1074.0	0.38	56.10	1697.6	0.23	69.78	2317.6	0.64	87.60	2937.6	0.36	73.12
429.4	0.75	78.82	1074.2	0.41	56.20	1697.8	0.23	70.14	2317.8	0.74	87.89	2937.8	0.32	73.37
429.6	0.55	76.45	1074.4	0.38	56.08	1698.0	0.23	70.90	2318.0	0.52	87.60	2938.0	0.29	73.56
429.8	0.85	74.18	1074.6	0.36	55.71	1698.2	0.25	72.02	2318.2	0.55	87.29	2938.2	0.29	73.60
430.0	0.86	72.37	1074.8	0.34	55.15	1698.4	0.28	73.43	2318.4	0.55	87.52	2938.4	0.26	73.46
430.2	0.72	71.05	1075.0	0.29	54.53	1698.6	0.34	74.98	2318.6	0.67	88.82	2938.6	0.27	73.15
430.4	0.69	69.94	1075.2	0.39	54.02	1698.8	0.28	76.38	2318.8	0.59	91.44	2938.8	0.32	72.65
430.6	0.81	68.89	1075.4	0.33	53.71	1699.0	0.28	77.30	2319.0	0.57	95.13	2939.0	0.28	71.95
430.8	0.90	68.11	1075.6	0.34	53.61	1699.2	0.33	77.58	2319.2	0.71	99.13	2939.2	0.31	71.09
431.0	0.56	67.79	1075.8	0.34	53.66	1699.4	0.30	77.28	2319.4	0.49	102.34	2939.4	0.30	70.25
431.2	0.76	67.92	1076.0	0.34	53.82	1699.6	0.26	76.76	2319.6	0.34	103.75	2939.6	0.24	69.73
431.4	0.70	68.31	1076.2	0.39	54.13	1699.8	0.32	76.45	2319.8	0.52	102.74	2939.8	0.18	69.70
431.6	0.67	68.70	1076.4	0.35	54.71	1700.0	0.24	76.66	2320.0	0.51	99.42	2940.0	0.27	70.26
431.8	0.78	68.85	1076.6	0.26	55.62	1700.2	0.29	77.40	2320.2	0.58	94.64	2940.2	0.30	71.23
432.0	0.85	68.67	1076.8	0.37	56.80	1700.4	0.34	78.35	2320.4	0.59	89.57	2940.4	0.33	72.28
432.2	0.82	68.30	1077.0	0.28	58.02	1700.6	0.34	78.98	2320.6	0.46	85.24	2940.6	0.36	73.08
432.4	0.78	67.99	1077.2	0.35	59.01	1700.8	0.37	78.86	2320.8	0.44	82.30	2940.8	0.32	73.44
432.6	0.74	67.93	1077.4	0.40	59.73	1701.0	0.35	77.79	2321.0	0.49	80.89	2941.0	0.37	73.36
432.8	0.79	68.24	1077.6	0.38	60.35	1701.2	0.32	75.98	2321.2	0.45	80.69	2941.2	0.31	72.97
433.0	0.83	68.84	1077.8	0.44	61.02	1701.4	0.30	73.79	2321.4	0.45	81.21	2941.4	0.31	72.53
433.2	0.82	69.49	1078.0	0.42	61.76	1701.6	0.31	71.74	2321.6	0.45	81.97	2941.6	0.33	72.19
433.4	0.74	69.82	1078.2	0.37	62.38	1701.8	0.29	70.25	2321.8	0.44	82.59	2941.8	0.35	72.02
433.6	0.92	69.58	1078.4	0.39	62.58	1702.0	0.31	69.52	2322.0	0.52	83.27	2942.0	0.27	72.01
433.8	0.77	68.65	1078.6	0.42	62.12	1702.2	0.25	69.50	2322.2	0.51	84.98	2942.2	0.35	72.12
434.0	0.77	67.22	1078.8	0.32	61.07	1702.4	0.29	69.95	2322.4	0.40	88.68	2942.4	0.39	72.26
434.2	0.86	65.69	1079.0	0.39	59.70	1702.6	0.32	70.63	2322.6	0.48	94.53	2942.6	0.33	72.36
434.4	0.88	64.65	1079.2	0.36	58.32	1702.8	0.31	71.45	2322.8	0.40	101.40	2942.8	0.34	72.46
434.6	0.64	64.55	1079.4	0.41	57.14	1703.0	0.32	72.56	2323.0	0.22	107.07	2943.0	0.32	72.61
434.8	0.58	65.52	1079.6	0.40	56.24	1703.2	0.33	74.10	2323.2	0.28	109.28	2943.2	0.26	72.81
435.0	0.68	67.31	1079.8	0.37	55.58	1703.4	0.36	76.10	2323.4	0.45	107.06	2943.4	0.35	73.06
435.2	0.84	69.41	1080.0	0.40	55.09	1703.6	0.45	78.28	2323.6	0.44	101.28	2943.6	0.35	73.31
435.4	0.83	71.29	1080.2	0.37	54.82	1703.8	0.62	80.36	2323.8	0.39	94.04	2943.8	0.31	73.49
435.6	0.92	72.68	1080.4	0.38	54.85	1704.0	0.56	82.10	2324.0	0.46	87.54	2944.0	0.34	73.56
435.8	0.86	73.65	1080.6	0.33	55.14	1704.2	0.73	83.53	2324.2	0.43	83.04	2944.2	0.30	73.60
436.0	0.70	74.45	1080.8	0.38	55.65	1704.4	0.58	84.96	2324.4	0.42	80.59	2944.4	0.34	73.66
436.2	1.01	75.25	1081.0	0.34	56.34	1704.6	0.79	86.70	2324.6	0.43	79.32	2944.6	0.38	73.70
436.4	0.93	76.02	1081.2	0.39	57.17	1704.8	0.85	88.92	2324.8	0.38	78.39	2944.8	0.32	73.75
436.6	1.17	76.65	1081.4	0.40	58.13	1705.0	0.66	91.70	2325.0	0.39	77.45	2945.0	0.33	73.88
436.8	1.14	77.08	1081.6	0.42	59.28	1705.2	0.86	94.81	2325.2	0.42	76.42	2945.2	0.29	74.21
437.0	1.08	77.37	1081.8	0.45	60.71	1705.4	0.96	97.65	2325.4	0.44	75.47	2945.4	0.34	74.79
437.2	1.06	77.70	1082.0	0.42	62.47	1705.6	1.09	99.47	2325.6	0.38	74.85	2945.6	0.31	75.57
437.4	1.18	78.20	1082.2	0.42	64.38	1705.8	1.55	99.52	2325.8	0.39	74.74	2945.8	0.37	76.40
437.6	1.12	78.78	1082.4	0.44	66.08	1706.0	1.30	97.48	2326.0	0.30	75.40	2946.0	0.31	77.00
437.8	0.94	79.31	1082.6	0.42	67.14	1706.2	1.14	93.78	2326.2	0.27	77.73	2946.2	0.32	77.15
438.0	1.07	79.71	1082.8	0.45	67.20	1706.4	0.58	89.58	2326.4	0.46	83.01	2946.4	0.33	76.82
438.2	1.00	79.96	1083.0	0.47	66.24	1706.6	0.63	86.18	2326.6	0.47	91.81	2946.6	0.35	

440.2	0.84	78.94	1085.0	0.44	55.53	1708.6	0.24	73.26	2328.6	0.60	84.99	2948.6	0.24	85.39
440.4	1.08	79.14	1085.2	0.38	55.22	1708.8	0.26	72.57	2328.8	0.61	83.30	2948.8	0.17	88.17
440.6	1.08	79.22	1085.4	0.38	55.01	1709.0	0.35	73.53	2329.0	0.61	82.74	2949.2	0.29	89.30
440.8	1.03	79.24	1085.6	0.40	55.06	1709.2	1.21	75.62	2329.2	0.51	82.65	2949.4	0.32	88.69
441.0	1.31	79.34	1085.8	0.41	55.43	1709.4	1.06	78.03	2329.4	0.58	82.55	2949.6	0.32	87.02
441.2	1.09	79.75	1086.0	0.46	56.11	1709.6	1.26	80.14	2329.6	0.47	82.27	2949.8	0.38	85.27
441.4	1.20	80.86	1086.2	0.42	56.96	1709.8	1.19	81.79	2329.8	0.59	81.88	2950.0	0.44	84.14
441.6	1.14	82.83	1086.4	0.48	57.99	1710.0	1.74	83.13	2330.0	0.62	81.89	2950.2	0.40	84.00
441.8	1.17	85.50	1086.6	0.43	59.30	1710.2	2.44	84.31	2330.2	0.61	82.99	2950.4	0.38	84.76
442.0	1.08	88.38	1086.8	0.42	60.98	1710.4	2.23	85.29	2330.4	0.41	85.66	2950.6	0.38	85.91
442.2	1.22	90.72	1087.0	0.40	62.97	1710.6	2.54	85.91	2330.6	0.49	89.62	2950.8	0.41	87.11
442.4	1.30	91.77	1087.2	0.44	64.96	1710.8	2.97	86.00	2330.8	0.59	93.73	2951.0	0.41	88.16
442.6	1.40	91.16	1087.4	0.38	66.61	1711.0	2.77	85.58	2331.0	0.51	96.47	2951.2	0.28	88.83
442.8	1.44	89.03	1087.6	0.41	67.64	1711.2	2.01	84.89	2331.2	0.66	96.79	2951.4	0.35	88.92
443.0	1.07	85.93	1087.8	0.38	68.16	1711.4	3.30	84.29	2331.4	0.52	94.59	2951.6	0.39	88.48
443.2	1.24	82.52	1088.0	0.41	68.66	1711.6	2.66	84.04	2331.6	0.57	90.85	2951.8	0.29	87.77
443.4	1.29	79.33	1088.2	0.41	69.57	1711.8	2.29	84.14	2331.8	0.43	86.99	2952.0	0.37	87.13
443.6	0.93	76.62	1088.4	0.41	70.86	1712.0	1.98	84.39	2332.0	0.48	84.09	2952.2	0.42	86.72
443.8	0.96	74.35	1088.6	0.39	71.99	1712.2	2.16	84.46	2332.2	0.55	82.53	2952.4	0.40	86.60
444.0	0.96	72.49	1088.8	0.50	72.11	1712.4	1.65	84.16	2332.4	0.44	81.94	2952.6	0.49	86.60
444.2	0.89	71.01	1089.0	0.24	70.55	1712.6	1.29	83.51	2332.6	0.40	81.73	2952.8	0.42	86.34
444.4	0.74	69.86	1089.2	0.45	67.42	1712.8	2.28	82.81	2332.8	0.38	81.60	2953.0	0.41	85.69
444.6	0.92	69.00	1089.4	0.47	63.52	1713.0	3.14	82.48	2333.0	0.44	81.66	2953.2	0.42	84.70
444.8	0.82	68.47	1089.6	0.45	59.88	1713.2	1.79	82.81	2333.2	0.48	82.07	2953.4	0.39	83.46
445.0	0.93	68.28	1089.8	0.37	57.24	1713.4	1.99	83.76	2333.4	0.48	82.87	2953.6	0.39	82.18
445.2	0.86	68.41	1090.0	0.37	55.80	1713.6	2.23	85.08	2333.6	0.50	83.81	2953.8	0.30	81.01
445.4	0.86	68.67	1090.2	0.45	55.39	1713.8	1.35	86.33	2333.8	0.54	84.52	2954.0	0.32	79.97
445.6	0.92	68.88	1090.4	0.39	55.53	1714.0	1.44	87.14	2334.0	0.50	84.73	2954.2	0.45	78.93
445.8	0.88	68.84	1090.6	0.40	55.82	1714.2	3.22	87.43	2334.2	0.44	84.33	2954.4	0.44	77.80
446.0	0.83	68.48	1090.8	0.39	56.06	1714.4	2.75	87.35	2334.4	0.38	83.51	2954.6	0.37	76.63
446.2	0.83	67.96	1091.0	0.45	56.07	1714.6	1.43	87.04	2334.6	0.45	82.67	2954.8	0.43	75.59
446.4	0.95	67.53	1091.2	0.40	55.79	1714.8	2.17	86.65	2334.8	0.39	82.27	2955.0	0.37	74.82
446.6	0.86	67.43	1091.4	0.38	55.23	1715.0	2.79	86.23	2335.0	0.48	82.62	2955.2	0.43	74.52
446.8	0.91	67.82	1091.6	0.40	54.52	1715.2	2.08	85.78	2335.2	0.43	83.70	2955.4	0.31	74.87
447.0	0.86	68.75	1091.8	0.36	53.81	1715.4	2.60	85.35	2335.4	0.48	85.20	2955.6	0.37	75.77
447.2	0.85	70.00	1092.0	0.38	53.29	1715.6	2.07	85.09	2335.6	0.48	86.66	2955.8	0.38	76.97
447.4	0.77	71.30	1092.2	0.35	53.06	1715.8	2.97	85.04	2335.8	0.48	87.68	2956.0	0.44	78.10
447.6	0.86	72.41	1092.4	0.30	53.13	1716.0	2.21	85.19	2336.0	0.42	87.99	2956.2	0.41	78.84
447.8	0.81	73.20	1092.6	0.41	53.47	1716.2	2.76	85.39	2336.2	0.41	87.66	2956.4	0.42	79.05
448.0	0.82	73.61	1092.8	0.39	53.99	1716.4	2.96	85.49	2336.4	0.48	87.03	2956.6	0.41	78.86
448.2	0.71	73.77	1093.0	0.30	54.64	1716.6	2.40	85.43	2336.6	0.44	86.61	2956.8	0.38	78.67
448.4	0.94	73.82	1093.2	0.37	55.28	1716.8	2.48	85.25	2336.8	0.47	86.82	2957.0	0.47	78.79
448.6	0.91	73.82	1093.4	0.36	55.76	1717.0	2.75	85.14	2337.0	0.47	87.74	2957.2	0.48	79.25
448.8	0.71	73.77	1093.6	0.46	56.01	1717.2	3.19	85.18	2337.2	0.52	89.15	2957.4	0.41	79.89
449.0	0.88	73.62	1093.8	0.46	56.13	1717.4	3.10	85.35	2337.4	0.57	90.55	2957.6	0.45	80.46
449.2	0.87	73.28	1094.0	0.37	56.36	1717.6	3.40	85.60	2337.6	0.50	91.42	2957.8	0.44	80.75
449.4	0.74	72.66	1094.2	0.42	57.01	1717.8	2.53	85.83	2337.8	0.42	91.45	2958.0	0.43	80.71
449.6	0.76	71.78	1094.4	0.44	58.29	1718.0	2.25	86.02	2338.0	0.53	90.64	2958.2	0.40	80.42
449.8	0.82	70.75	1094.6	0.43	60.19	1718.2	2.18	86.20	2338.2	0.56	89.23	2958.4	0.41	79.98
450.0	0.82	69.72	1094.8	0.45	62.39	1718.4	2.20	86.36	2338.4	0.53	87.55	2958.6	0.40	79.42
450.2	0.79	68.86	1095.0	0.45	64.39	1718.6	1.94	86.50	2338.6	0.60	85.93	2958.8	0.45	78.78
450.4	0.76	68.40	1095.2	0.51	65.72	1718.8	2.22	86.56	2338.8	0.48	84.60	2959.0	0.48	78.08
450.6	0.63	68.39	1095.4	0.59	66.19	1719.0	2.73	86.53	2339.0	0.55	83.60	2959.2	0.41	77.32
450.8	0.74	68.71	1095.6	0.48	65.95	1719.2	2.43	86.43	2339.2	0.46	82.88	2959.4	0.44	76.45
451.0	0.74	69.09	1095.8	0.45	65.39	1719.4	2.33	86.34	2339.4	0.50	82.44	2959.6	0.38	75.49
451.2	0.67	69.25	1096.0	0.37	64.92	1719.6	2.13	86.29	2339.6	0.45	82.17	2959.8	0.41	74.63
451.4	0.77	68.99	1096.2	0.52	64.79	1719.8	2.39	86.30	2339.8	0.45	82.02	2960.0	0.48	74.09
451.6	0.68	68.27	1096.4	0.48	64.93	1720.0	2.28	86.34	2340.0	0.50	81.88	2960.2	0.45	74.12
451.8	0.69	67.19	1096.6	0.43	65.10	1720.2	2.31	86.40	2340.2	0.45	81.62	2960.4	0.38	74.77
452.0	0.63	65.95	1096.8	0.52	65.04	1720.4	1.85	86.49	2340.4	0.42	81.24	2960.6	0.41	75.88
452.2	0.72	64.77	1097.0	0.49	64.65	1720.6	2.02	86.59	2340.6	0.53	80.84	2960.8	0.31	77.04
452.4	0.56	63.80	1097.2	0.46	64.04	1720.8	1.86	86.60	2340.8	0.47	80.57	2961.0	0.34	77.91
452.6	0.68	63.12	1097.4	0.50	63.47	1721.0	1.89	86.35	2341.0	0.53	80.58	2961.2	0.44	78.29
452.8	0.69	62.70	1097.6	0.43	63.15	1721.2	1.57	85.78	2341.2	0.41	80.92	2961.4	0.43	78.17
453.0	0.62	62.49	1097.8	0.43	63.11	1721.4	1.82	84.94	2341.4	0.54	81.44	2961.6	0.38	77.68
453.2	0.60	62.42	1098.0	0.49	63.23	1721.6	1.43	84.04	2341.6	0.39	81.91	2961.8	0.43	77.02
453.4	0.54	62.43	1098.2	0.51	63.29	1721.8	1.39	83.82	2341.8	0.38	81.99	2962.0	0.46	76.35
453.6	0.48	62.44	1098.4	0.51	63.19	1722.0	0.95	83.35	2342.0	0.49	81.55	2962.2	0.43	75.80
453.8	0.60	62.40	1098.6	0.50	62.91	1722.2	1.09	83.78	2342.2	0.43	80.89	2962.4	0.48	75.40
454.0	0.54	62.28	1098.8	0.43	62.59	1722.4	0.70	84.47	2342.4	0.50	80.73	2962.6	0.36	75.14
454.2	0.49	62.07	1099.0	0.49	62.38	1722.6	0.70	85.08	2342.6	0.42	81.87	2962.8	0.45	75.00
454.4	0.49	61.83	1099.2	0.37	62.29	1722.8	0.86	85.37	2342.8	0.35	84.70	2963.0	0.47	74.98

456.4	0.44	60.94	1101.2	0.46	57.20	1724.8	1.23	83.85	2344.8	0.28	75.80	2965.0	0.50	90.76
456.6	0.47	61.32	1101.4	0.57	56.97	1725.0	0.87	83.38	2345.0	0.41	75.67	2965.2	0.47	89.61
456.8	0.51	61.75	1101.6	0.41	56.82	1725.2	1.23	82.96	2345.2	0.36	76.25	2965.4	0.51	86.78
457.0	0.40	62.29	1101.8	0.47	56.52	1725.4	1.16	82.67	2345.4	0.27	77.43	2965.6	0.41	83.30
457.2	0.46	63.07	1102.0	0.51	55.96	1725.6	1.32	82.56	2345.6	0.39	79.07	2965.8	0.47	80.37
457.4	0.45	64.30	1102.2	0.41	55.39	1725.8	1.14	82.60	2345.8	0.42	80.88	2966.0	0.53	78.77
457.6	0.49	66.17	1102.4	0.47	55.22	1726.0	0.92	82.73	2346.0	0.54	82.67	2966.2	0.55	78.69
457.8	0.43	68.67	1102.6	0.46	55.70	1726.2	1.10	82.79	2346.2	0.57	84.29	2966.4	0.65	79.59
458.0	0.44	71.50	1102.8	0.51	56.78	1726.4	1.23	82.60	2346.4	0.41	85.56	2966.6	0.63	80.77
458.2	0.28	74.08	1103.0	0.50	58.05	1726.6	1.28	82.10	2346.6	0.50	86.42	2966.8	0.68	81.92
458.4	0.47	75.76	1103.2	0.48	59.03	1726.8	1.06	81.35	2346.8	0.48	86.86	2967.0	0.65	82.84
458.6	0.44	76.12	1103.4	0.54	59.35	1727.0	1.12	80.47	2347.0	0.47	86.77	2967.2	0.70	83.46
458.8	0.37	75.17	1103.6	0.46	59.03	1727.2	0.89	79.62	2347.2	0.56	86.09	2967.4	0.56	83.81
459.0	0.39	73.39	1103.8	0.43	58.45	1727.4	0.97	78.88	2347.4	0.42	84.95	2967.6	0.62	83.87
459.2	0.33	71.44	1104.0	0.46	58.00	1727.6	0.62	78.25	2347.6	0.52	83.62	2967.8	0.63	83.65
459.4	0.39	69.77	1104.2	0.51	57.98	1727.8	0.87	77.74	2347.8	0.46	82.44	2968.0	0.51	83.18
459.6	0.39	68.51	1104.4	0.50	58.43	1728.0	0.87	77.38	2348.0	0.53	81.74	2968.2	0.50	82.51
459.8	0.38	67.63	1104.6	0.55	59.14	1728.2	0.77	77.23	2348.2	0.49	81.56	2968.4	0.38	81.85
460.0	0.41	67.04	1104.8	0.56	59.79	1728.4	0.79	77.24	2348.4	0.47	81.75	2968.6	0.37	81.44
460.2	0.41	66.73	1105.0	0.51	60.17	1728.6	0.85	77.28	2348.6	0.45	82.00	2968.8	0.54	81.36
460.4	0.42	66.77	1105.2	0.37	60.16	1728.8	0.87	77.22	2348.8	0.45	82.16	2969.0	0.50	81.54
460.6	0.42	67.19	1105.4	0.51	59.78	1729.0	0.84	76.97	2349.0	0.43	82.09	2969.2	0.67	81.87
460.8	0.29	67.96	1105.6	0.46	59.19	1729.2	0.71	76.59	2349.2	0.40	81.73	2969.4	0.62	82.18
461.0	0.29	68.92	1105.8	0.43	58.62	1729.4	0.68	76.19	2349.4	0.52	81.20	2969.6	0.67	82.40
461.2	0.31	69.93	1106.0	0.45	58.32	1729.6	0.73	75.99	2349.6	0.41	80.65	2969.8	0.67	82.58
461.4	0.39	70.77	1106.2	0.53	58.37	1729.8	0.63	76.50	2349.8	0.45	80.23	2970.0	0.63	82.70
461.6	0.31	71.31	1106.4	0.47	58.67	1730.0	0.61	78.56	2350.0	0.41	80.04	2970.2	0.61	82.65
461.8	0.30	71.56	1106.6	0.49	58.96	1730.2	0.70	82.58	2350.2	0.36	80.05	2970.4	0.57	82.32
462.0	0.30	71.64	1106.8	0.54	59.00	1730.4	0.42	88.02	2350.4	0.40	80.20	2970.6	0.61	81.77
462.2	0.31	71.73	1107.0	0.57	58.76	1730.6	0.32	93.23	2350.6	0.46	80.50	2970.8	0.71	81.12
462.4	0.32	71.95	1107.2	0.54	58.40	1730.8	0.49	96.16	2350.8	0.42	80.93	2971.0	0.60	80.57
462.6	0.34	72.33	1107.4	0.55	58.18	1731.2	0.41	95.31	2351.0	0.43	81.29	2971.2	0.51	80.29
462.8	0.33	72.70	1107.6	0.48	58.32	1731.4	0.45	90.66	2351.2	0.43	81.38	2971.4	0.53	80.25
463.0	0.33	72.80	1107.8	0.66	58.91	1731.6	0.41	83.81	2351.4	0.44	81.07	2971.6	0.51	80.29
463.2	0.31	72.60	1108.0	0.65	59.98	1731.8	0.42	77.03	2351.6	0.46	80.39	2971.8	0.63	80.25
463.4	0.32	72.33	1108.2	0.68	61.46	1732.0	0.38	72.22	2351.8	0.29	79.67	2972.0	0.56	80.12
463.6	0.33	72.46	1108.4	0.66	63.24	1732.2	0.37	70.11	2352.0	0.35	79.38	2972.2	0.56	79.85
463.8	0.29	73.34	1108.6	0.67	65.17	1732.4	0.37	70.20	2352.2	0.35	79.80	2972.4	0.61	79.53
464.0	0.36	75.00	1108.8	0.73	67.07	1732.6	0.43	71.25	2352.4	0.44	80.74	2972.6	0.55	79.24
464.2	0.34	77.06	1109.0	0.63	68.71	1732.8	0.43	72.23	2352.6	0.37	81.72	2972.8	0.63	79.00
464.4	0.36	78.75	1109.2	0.73	69.87	1733.0	0.46	72.63	2352.8	0.27	82.21	2973.0	0.57	78.79
464.6	0.46	79.36	1109.4	0.62	70.44	1733.2	0.43	72.28	2353.0	0.35	81.93	2973.2	0.55	78.64
464.8	0.45	78.53	1109.6	0.58	70.40	1733.4	0.35	71.29	2353.2	0.44	81.12	2973.4	0.54	78.57
465.0	0.41	76.52	1109.8	0.58	69.84	1733.6	0.41	70.04	2353.4	0.36	80.32	2973.6	0.60	78.58
465.2	0.30	74.11	1110.0	0.82	68.90	1733.8	0.32	68.96	2353.6	0.37	80.01	2973.8	0.56	78.61
465.4	0.37	72.13	1110.2	0.72	67.72	1734.0	0.25	68.40	2353.8	0.36	80.30	2974.0	0.61	78.58
465.6	0.32	71.03	1110.4	0.67	66.47	1734.2	0.26	68.45	2354.0	0.43	81.00	2974.2	0.56	78.34
465.8	0.44	70.62	1110.6	0.65	65.34	1734.4	0.35	68.92	2354.2	0.44	81.90	2974.4	0.65	77.89
466.0	0.47	70.30	1110.8	0.77	64.50	1734.6	0.32	69.50	2354.4	0.55	82.86	2974.6	0.58	77.35
466.2	0.49	69.47	1111.0	0.66	64.07	1734.8	0.33	69.91	2354.6	0.47	83.98	2974.8	0.57	76.98
466.4	0.46	67.90	1111.2	0.66	64.14	1735.0	0.31	69.99	2354.8	0.55	85.40	2975.0	0.55	77.04
466.6	0.59	65.84	1111.4	0.72	64.66	1735.2	0.33	69.68	2355.0	0.63	87.17	2975.2	0.47	77.64
466.8	0.52	63.95	1111.6	0.42	65.47	1735.4	0.27	68.95	2355.2	0.63	89.08	2975.4	0.67	78.65
467.0	0.54	62.82	1111.8	0.72	66.31	1735.6	0.25	67.83	2355.4	0.49	90.73	2975.6	0.68	79.75
467.2	0.51	62.66	1112.0	0.66	66.83	1735.8	0.23	66.45	2355.6	0.69	91.77	2975.8	0.47	80.62
467.4	0.51	63.26	1112.2	0.82	66.76	1736.0	0.19	65.03	2355.8	0.54	92.06	2976.0	0.63	80.94
467.6	0.47	64.09	1112.4	0.78	66.00	1736.2	0.15	63.84	2356.0	0.65	91.64	2976.2	0.73	80.70
467.8	0.44	64.61	1112.6	0.68	64.71	1736.4	0.17	63.13	2356.2	0.63	90.63	2976.4	0.78	80.07
468.0	0.43	64.53	1112.8	0.76	63.19	1736.6	0.16	62.90	2356.4	0.76	89.23	2976.6	0.87	79.34
468.2	0.53	63.79	1113.0	0.72	61.77	1736.8	0.15	62.91	2356.6	0.73	87.53	2976.8	0.82	78.75
468.4	0.54	62.61	1113.2	0.60	60.74	1737.0	0.15	62.81	2356.8	0.76	85.62	2977.0	0.69	78.45
468.6	0.60	61.23	1113.4	0.47	60.20	1737.2	0.14	62.43	2357.0	0.67	83.76	2977.2	0.75	78.35
468.8	0.48	59.92	1113.6	0.65	60.11	1737.4	0.13	61.76	2357.2	0.63	82.36	2977.4	0.88	78.24
469.0	0.60	58.84	1113.8	0.79	60.37	1737.6	0.14	60.93	2357.4	0.72	82.06	2977.6	0.98	77.98
469.2	0.63	58.02	1114.0	0.69	60.83	1737.8	0.11	60.06	2357.6	0.60	83.39	2977.8	0.96	77.55
469.4	0.44	57.39	1114.2	0.48	61.47	1738.0	0.11	59.19	2357.8	0.55	86.43	2978.0	0.95	77.05
469.6	0.54	56.91	1114.4	0.69	62.33	1738.2	0.15	58.28	2358.0	0.65	90.61	2978.2	0.76	76.61
469.8	0.56	56.54	1114.6	0.68	63.45	1738.4	0.14	57.33	2358.2	0.77	94.70	2978.4	1.18	76.38
470.0	0.61	56.34	1114.8	0.80	64.71	1738.6	0.12	56.40	2358.4	0.87	97.46	2978.6	1.09	76.40
470.2	0.53	56.38	1115.0	0.69	65.85	1738.8	0.12	55.63	2358.6	0.64	98.14	2978.8	1.13	76.63
470.4	0.60	56.74	1115.2	1.18	66.50	1739.0	0.12	55.12	2358.8	0.72	96.68	2979.0	1.18	77.04
470.6	0.68	57.41	1115.4	1.34	66.39	1739.2	0.12	54.89	2359.0	0.66	93.75	2979.2	1.03	77.58

472.6	0.57	58.95	1117.4	0.94	62.28	1741.2	0.11	58.21	2361.0	0.57	83.50	2981.2	1.09	85.14
472.8	0.59	59.09	1117.6	0.90	62.68	1741.4	0.11	59.07	2361.2	0.60	83.03	2981.4	1.21	86.96
473.0	0.55	59.42	1117.8	0.76	63.05	1741.6	0.10	59.98	2361.4	0.66	82.60	2981.6	1.53	88.66
473.2	0.57	59.89	1118.0	0.81	63.42	1741.8	0.11	60.95	2361.6	0.59	82.32	2981.8	1.62	89.98
473.4	0.61	60.42	1118.2	0.84	63.76	1742.0	0.10	61.97	2361.8	0.58	82.30	2982.0	1.39	90.74
473.6	0.60	60.93	1118.4	0.78	64.12	1742.2	0.11	62.87	2362.0	0.53	82.61	2982.2	1.71	90.94
473.8	0.54	61.37	1118.6	0.80	64.57	1742.4	0.11	63.35	2362.2	0.55	83.23	2982.4	1.59	90.72
474.0	0.66	61.63	1118.8	0.80	65.15	1742.6	0.12	63.20	2362.4	0.57	84.05	2982.6	1.08	90.27
474.2	0.63	61.61	1119.0	0.85	65.81	1742.8	0.11	62.49	2362.6	0.56	84.90	2982.8	1.26	89.67
474.4	0.69	61.24	1119.2	0.76	66.41	1743.0	0.13	61.58	2362.8	0.63	85.63	2983.0	0.86	88.98
474.6	0.50	60.56	1119.4	0.27	66.75	1743.2	0.10	60.87	2363.0	0.52	86.13	2983.2	1.09	88.19
474.8	0.71	59.69	1119.6	0.64	66.72	1743.4	0.11	60.58	2363.2	0.54	86.39	2983.4	0.99	87.26
475.0	0.54	58.86	1119.8	0.74	66.36	1743.6	0.10	60.65	2363.4	0.50	86.46	2983.6	1.16	86.22
475.2	0.51	58.23	1120.0	0.84	65.87	1743.8	0.13	60.76	2363.6	0.45	86.32	2983.8	1.02	85.16
475.4	0.68	57.85	1120.2	0.88	65.53	1744.0	0.13	60.65	2363.8	0.55	85.98	2984.0	0.97	84.27
475.6	0.66	57.66	1120.4	0.97	65.47	1744.2	0.12	60.24	2364.0	0.54	85.38	2984.2	0.86	83.70
475.8	0.66	57.52	1120.6	0.95	65.76	1744.4	0.11	59.65	2364.2	0.46	84.59	2984.4	1.04	83.48
476.0	0.60	57.39	1120.8	0.82	66.28	1744.6	0.11	59.02	2364.4	0.46	83.69	2984.6	0.92	83.55
476.2	0.50	57.30	1121.0	0.90	66.95	1744.8	0.11	58.48	2364.6	0.34	82.80	2984.8	0.90	83.68
476.4	0.64	57.33	1121.2	1.04	67.80	1745.0	0.13	58.10	2364.8	0.49	82.08	2985.0	0.93	83.53
476.6	0.57	57.53	1121.4	0.96	68.77	1745.2	0.10	57.94	2365.0	0.49	81.63	2985.2	1.00	82.84
476.8	0.64	57.83	1121.6	0.91	69.66	1745.4	0.10	58.01	2365.2	0.55	81.53	2985.4	0.87	81.52
477.0	0.62	58.09	1121.8	1.04	70.22	1745.6	0.10	58.30	2365.4	0.50	81.83	2985.6	0.96	79.73
477.2	0.61	58.15	1122.0	0.81	70.26	1745.8	0.12	58.68	2365.6	0.45	82.54	2985.8	0.76	77.89
477.4	0.66	57.95	1122.2	0.99	69.74	1746.0	0.11	58.94	2365.8	0.49	83.56	2986.0	0.63	76.63
477.6	0.48	57.54	1122.4	0.95	68.83	1746.2	0.12	58.93	2366.0	0.46	84.71	2986.2	0.75	76.51
477.8	0.38	57.11	1122.6	0.92	67.79	1746.4	0.10	58.66	2366.2	0.52	85.77	2986.4	0.79	77.73
478.0	0.49	56.86	1122.8	0.95	66.91	1746.6	0.11	58.27	2366.4	0.54	86.71	2986.6	0.89	80.01
478.2	0.53	56.91	1123.0	0.87	66.29	1746.8	0.10	58.01	2366.6	0.51	87.85	2986.8	0.59	82.64
478.4	0.62	57.30	1123.2	1.02	65.94	1747.0	0.09	58.11	2366.8	0.61	89.63	2987.0	0.89	84.87
478.6	0.57	57.96	1123.4	0.94	65.79	1747.2	0.10	58.62	2367.0	0.50	92.73	2987.2	0.93	86.16
478.8	0.60	58.76	1123.6	0.96	65.78	1747.4	0.11	59.36	2367.2	0.62	97.62	2987.4	0.92	86.39
479.0	0.58	59.54	1123.8	0.91	65.92	1747.6	0.10	59.96	2367.4	0.73	103.90	2987.6	0.79	85.78
479.2	0.61	60.16	1124.0	0.90	66.23	1747.8	0.12	60.10	2367.6	0.78	110.43	2987.8	0.87	84.70
479.4	0.70	60.56	1124.2	1.08	66.70	1748.0	0.11	59.62	2367.8	0.25	115.50	2988.0	0.85	83.51
479.6	0.65	60.75	1124.4	1.07	67.25	1748.2	0.09	58.63	2368.0	0.38	117.57	2988.2	0.79	82.39
479.8	0.67	60.84	1124.6	1.26	67.79	1748.4	0.09	57.46	2368.2	0.40	115.97	2988.4	0.68	81.43
480.0	0.61	60.94	1124.8	1.22	68.25	1748.6	0.09	56.45	2368.4	0.60	111.31	2988.6	0.84	80.63
480.2	0.70	61.09	1125.0	0.94	68.62	1748.8	0.10	55.73	2368.6	0.48	105.16	2988.8	0.79	79.94
480.4	0.66	61.39	1125.2	1.22	68.92	1749.0	0.10	55.30	2368.8	0.61	99.23	2989.0	0.75	79.44
480.6	0.63	62.04	1125.4	1.18	69.25	1749.2	0.10	55.07	2369.0	0.59	94.58	2989.2	0.67	79.27
480.8	0.79	63.27	1125.6	1.29	69.67	1749.4	0.10	54.96	2369.2	0.61	91.46	2989.4	0.81	79.43
481.0	0.69	65.23	1125.8	1.20	70.18	1749.6	0.09	55.02	2369.4	0.54	89.41	2989.6	0.76	79.76
481.2	0.68	67.79	1126.0	1.32	70.67	1749.8	0.09	55.39	2369.6	0.59	87.73	2989.8	0.62	80.07
481.4	0.67	70.51	1126.2	1.44	71.07	1750.0	0.10	56.10	2369.8	0.51	86.18	2990.0	0.70	80.15
481.6	0.63	72.59	1126.4	1.59	71.27	1750.2	0.10	57.04	2370.0	0.51	84.91	2990.2	0.67	79.85
481.8	0.67	73.30	1126.6	1.29	71.20	1750.4	0.09	57.96	2370.2	0.45	84.11	2990.4	0.68	79.21
482.0	0.73	72.34	1126.8	1.48	70.88	1750.6	0.10	58.63	2370.4	0.42	83.86	2990.6	0.65	78.35
482.2	0.53	69.94	1127.0	1.36	70.43	1750.8	0.10	58.92	2370.6	0.46	84.01	2990.8	0.52	77.39
482.4	0.61	66.75	1127.2	1.25	70.00	1751.0	0.10	58.88	2370.8	0.50	84.32	2991.0	0.60	76.42
482.6	0.46	63.57	1127.4	1.52	69.76	1751.2	0.09	58.67	2371.0	0.53	84.61	2991.2	0.63	75.60
482.8	0.58	61.09	1127.6	1.44	69.78	1751.4	0.09	58.46	2371.2	0.45	84.80	2991.4	0.71	75.07
483.0	0.59	59.61	1127.8	1.47	70.06	1751.6	0.10	58.41	2371.4	0.43	84.93	2991.6	0.58	74.84
483.2	0.49	59.14	1128.0	1.39	70.50	1751.8	0.10	58.53	2371.6	0.43	85.05	2991.8	0.67	74.89
483.4	0.61	59.49	1128.2	1.31	70.99	1752.0	0.10	58.69	2371.8	0.37	85.10	2992.0	0.62	75.09
483.6	0.71	60.31	1128.4	1.12	71.41	1752.2	0.09	58.70	2372.0	0.44	85.02	2992.2	0.71	75.26
483.8	0.62	61.28	1128.6	1.66	71.69	1752.4	0.08	58.40	2372.2	0.40	84.84	2992.4	0.57	75.25
484.0	0.70	62.24	1128.8	1.41	71.83	1752.6	0.08	57.80	2372.4	0.47	84.63	2992.6	0.54	75.05
484.2	0.66	63.23	1129.0	1.32	71.86	1752.8	0.08	57.06	2372.6	0.42	84.55	2992.8	0.44	74.83
484.4	0.62	64.21	1129.2	1.46	71.83	1753.0	0.08	56.45	2372.8	0.40	84.87	2993.0	0.49	74.62
484.6	0.77	65.17	1129.4	1.48	71.73	1753.2	0.08	56.21	2373.0	0.47	85.74	2993.2	0.51	74.40
484.8	0.74	66.03	1129.6	1.43	71.59	1753.4	0.07	56.38	2373.2	0.49	86.97	2993.4	0.50	74.06
485.0	0.70	66.73	1129.8	1.58	71.44	1753.6	0.07	56.83	2373.4	0.45	88.21	2993.6	0.47	73.70
485.2	0.85	67.26	1130.0	1.65	71.34	1753.8	0.07	57.31	2373.6	0.39	89.02	2993.8	0.52	73.58
485.4	0.74	67.71	1130.2	1.82	71.29	1754.0	0.08	57.56	2373.8	0.43	89.12	2994.0	0.56	73.87
485.6	0.84	68.19	1130.4	1.50	71.29	1754.2	0.09	57.40	2374.0	0.41	88.44	2994.2	0.55	74.54
485.8	0.83	68.72	1130.6	1.73	71.35	1754.4	0.08	56.90	2374.2	0.33	87.26	2994.4	0.52	75.20
486.0	0.78	69.24	1130.8	1.17	71.47	1754.6	0.07	56.20	2374.4	0.48	86.00	2994.6	0.42	75.27
486.2	0.84	69.73	1131.0	1.27	71.64	1754.8	0.07	55.53	2374.6	0.52	85.00	2994.8	0.52	74.36
486.4	0.79	70.25	1131.2	1.19	71.83	1755.0	0.06	55.01	2374.8	0.49	84.33	2995.0	0.47	72.58
486.6	0.91	70.89	1131.4	1.68	72.03	1755.2	0.07	54.67	2375.0	0.47	83.89	2995.2	0.57	70.42
486.8	1.03	71.72	1131.6	1.32	72.22	1755.4	0.07	54.44	2375.2	0.43	83.55	2995.4	0.44	6

488.8	0.99	70.77	1133.6	0.74	79.95	1757.4	0.06	51.24	2377.2	0.42	92.18	2997.4	0.63	69.70
489.0	0.87	70.33	1133.8	0.74	81.28	1757.6	0.07	50.92	2377.4	0.50	96.09	2997.6	0.66	68.97
489.2	0.99	69.81	1134.0	0.67	81.85	1757.8	0.05	50.60	2377.6	0.49	98.83	2997.8	0.72	68.12
489.4	0.88	69.16	1134.2	2.06	81.20	1758.0	0.06	50.26	2377.8	0.51	99.42	2998.0	0.66	67.27
489.6	0.99	68.45	1134.4	2.28	79.37	1758.2	0.07	49.89	2378.0	0.51	97.70	2998.2	0.55	66.58
489.8	0.88	67.79	1134.6	1.95	76.88	1758.4	0.05	49.50	2378.2	0.45	94.74	2998.4	0.55	66.22
490.0	0.93	67.27	1134.8	1.92	74.51	1758.6	0.06	49.14	2378.4	0.38	92.46	2998.6	0.61	66.17
490.2	0.74	67.09	1135.0	2.18	72.96	1758.8	0.06	48.95	2378.6	0.48	92.70	2998.8	0.60	66.37
490.4	0.86	67.38	1135.2	1.84	72.62	1759.0	0.06	49.03	2378.8	0.45	96.86	2999.0	0.56	66.82
490.6	0.90	68.10	1135.4	2.00	73.47	1759.2	0.05	49.40	2379.0	0.48	104.94	2999.2	0.55	67.57
490.8	0.83	69.01	1135.6	2.36	75.16	1759.4	0.07	49.93	2379.2	1.60	114.96	2999.4	0.59	68.57
491.0	0.92	69.86	1135.8	3.65	77.33	1759.6	0.06	50.44	2379.4	1.42	124.13	2999.6	0.57	69.64
491.2	1.03	70.35	1136.0	3.60	79.54	1759.8	0.06	50.75	2379.6	0.90	130.11	2999.8	0.45	70.43
491.4	0.92	70.40	1136.2	4.61	81.30	1760.0	0.06	50.75	2379.8	0.31	132.00	3000.0	0.52	70.55
491.6	0.95	70.20	1136.4	1.62	82.38	1760.2	0.05	50.50	2380.0	0.61	130.48	3000.2	0.50	69.79
491.8	0.99	70.07	1136.6	2.51	82.84	1760.4	0.06	50.15	2380.2	0.72	127.27	3000.4	0.59	68.34
492.0	0.81	70.30	1136.8	1.06	82.87	1760.6	0.06	49.84	2380.4	0.69	123.87	3000.6	0.59	66.69
492.2	1.00	70.96	1137.0	1.17	82.64	1760.8	0.06	49.65	2380.6	0.72	120.69	3000.8	0.50	65.27
492.4	1.04	71.99	1137.2	1.07	82.19	1761.0	0.07	49.61	2380.8	0.67	117.44	3001.0	0.59	64.40
492.6	0.98	73.14	1137.4	1.60	81.48	1761.2	0.06	49.62	2381.0	0.68	113.90	3001.2	0.59	64.08
492.8	1.70	74.17	1137.6	2.74	80.50	1761.4	0.06	49.60	2381.2	0.55	110.34	3001.4	0.44	64.14
493.0	1.14	74.95	1137.8	2.30	79.52	1761.6	0.07	49.48	2381.4	0.59	107.42	3001.6	0.52	64.38
493.2	0.96	75.39	1138.0	1.04	78.93	1761.8	0.06	49.31	2381.6	0.50	105.90	3001.8	0.59	64.58
493.4	1.35	75.49	1138.2	0.95	79.10	1762.0	0.06	49.18	2381.8	0.50	105.75	3002.0	0.49	64.59
493.6	1.44	75.33	1138.4	0.89	80.07	1762.2	0.05	49.25	2382.0	0.33	106.29	3002.2	0.41	64.28
493.8	1.60	75.10	1138.6	0.90	81.52	1762.4	0.05	49.67	2382.2	0.54	106.80	3002.4	0.34	63.66
494.0	1.40	75.02	1138.8	1.31	82.82	1762.6	0.06	50.41	2382.4	0.61	106.74	3002.6	0.48	62.84
494.2	1.10	75.26	1139.0	1.89	83.47	1762.8	0.10	51.29	2382.6	0.46	106.13	3002.8	0.44	62.03
494.4	1.78	75.88	1139.2	2.82	83.54	1763.0	0.13	52.07	2382.8	0.54	105.11	3003.0	0.50	61.39
494.6	1.18	76.79	1139.4	3.40	83.50	1763.2	0.11	52.59	2383.0	0.65	103.78	3003.2	0.44	60.93
494.8	1.11	77.84	1139.6	2.62	83.96	1763.4	0.11	52.84	2383.2	0.55	102.09	3003.4	0.50	60.49
495.0	1.67	78.85	1139.8	3.55	85.19	1763.6	0.10	52.92	2383.4	0.41	99.99	3003.6	0.44	59.86
495.2	1.83	79.68	1140.0	3.56	86.90	1763.8	0.09	52.98	2383.6	0.40	97.80	3003.8	0.47	58.95
495.4	1.83	80.20	1140.2	3.37	88.39	1764.0	0.09	53.10	2383.8	0.45	95.78	3004.0	0.42	57.80
495.6	2.21	80.36	1140.4	2.17	88.93	1764.2	0.13	53.29	2384.0	0.43	94.04	3004.2	0.41	56.56
495.8	1.83	80.10	1140.6	3.06	88.26	1764.4	0.17	53.52	2384.2	0.41	92.53	3004.4	0.34	55.38
496.0	1.60	79.48	1140.8	4.08	86.69	1764.6	0.13	53.76	2384.4	0.36	91.17	3004.6	0.42	54.29
496.2	1.72	78.59	1141.0	4.56	84.85	1764.8	0.11	53.96	2384.6	0.40	89.89	3004.8	0.39	53.34
496.4	1.77	77.61	1141.2	3.88	83.35	1765.0	0.11	54.11	2384.8	0.34	88.72	3005.0	0.42	52.58
496.6	1.70	76.77	1141.4	3.55	82.50	1765.2	0.14	54.21	2385.0	0.37	87.83	3005.2	0.30	52.04
496.8	1.93	76.22	1141.6	3.17	82.23	1765.4	0.15	54.26	2385.2	0.35	87.30	3005.4	0.35	51.71
497.0	2.55	76.00	1141.8	3.19	82.24	1765.6	0.15	54.20	2385.4	0.29	87.19	3005.6	0.30	51.55
497.2	2.48	76.06	1142.0	2.17	82.24	1765.8	0.16	54.02	2385.6	0.45	87.57	3005.8	0.35	51.48
497.4	2.02	76.19	1142.2	2.45	82.07	1766.0	0.14	53.73	2385.8	0.41	88.41	3006.0	0.35	51.39
497.6	1.78	76.11	1142.4	1.89	81.83	1766.2	0.16	53.38	2386.0	0.40	89.75	3006.2	0.35	51.23
497.8	2.12	75.65	1142.6	1.60	81.71	1766.4	0.13	53.06	2386.2	0.35	91.46	3006.4	0.37	51.07
498.0	2.40	74.78	1142.8	1.89	81.84	1766.6	0.14	52.86	2386.4	0.34	93.52	3006.6	0.36	50.99
498.2	1.99	73.73	1143.0	1.49	82.25	1766.8	0.12	52.87	2386.6	0.38	95.70	3006.8	0.32	51.04
498.4	2.54	72.79	1143.2	1.71	82.75	1767.0	0.15	53.07	2386.8	0.41	97.65	3007.0	0.33	51.21
498.6	2.38	72.24	1143.4	1.89	83.06	1767.2	0.15	53.39	2387.0	0.34	98.97	3007.2	0.32	51.35
498.8	2.17	72.19	1143.6	1.93	82.97	1767.4	0.13	53.73	2387.2	0.23	99.29	3007.4	0.16	51.27
499.0	2.08	72.53	1143.8	1.80	82.52	1767.6	0.16	54.05	2387.4	0.33	98.55	3007.6	0.24	50.92
499.2	2.27	72.99	1144.0	1.97	81.96	1767.8	0.17	54.37	2387.6	0.28	96.87	3007.8	0.37	50.38
499.4	2.52	73.37	1144.2	1.84	81.66	1768.0	0.18	54.74	2387.8	0.28	94.53	3011.2	0.22	49.78
499.6	2.46	73.50	1144.4	1.83	81.86	1768.2	0.16	55.18	2388.0	0.31	91.72	3011.4	0.22	49.28
499.8	2.44	73.41	1144.6	1.77	82.54	1768.4	0.14	55.75	2388.2	0.22	88.82	3011.6	0.33	48.97
500.0	2.22	73.23	1144.8	1.85	83.43	1768.6	0.20	56.48	2388.4	0.37	86.06	3011.8	0.30	48.80
500.2	2.12	73.19	1145.0	1.29	84.23	1768.8	0.24	57.39	2388.6	0.27	83.63	3012.0	0.27	48.65
500.4	2.01	73.42	1145.2	1.54	84.72	1769.0	0.21	58.49	2388.8	0.24	81.68	3012.2	0.29	48.45
500.6	2.05	73.97	1145.4	2.11	84.65	1769.2	0.25	59.74	2389.0	0.26	80.26	3012.4	0.34	48.25
500.8	1.68	74.77	1145.6	1.34	83.86	1769.4	0.21	61.03	2389.2	0.32	79.44	3012.6	0.32	48.13
501.0	2.49	75.64	1145.8	1.48	82.31	1769.6	0.18	62.31	2389.4	0.27	79.27	3012.8	0.34	48.23
501.2	1.84	76.38	1146.0	1.61	80.44	1769.8	0.27	63.51	2389.6	0.34	79.86	3013.0	0.32	48.56
501.4	2.19	76.79	1146.2	0.94	79.07	1770.0	0.30	64.74	2389.8	0.25	81.12	3013.2	0.33	49.02
501.6	2.50	76.79	1146.4	0.77	78.83	1770.2	0.25	66.00	2390.0	0.32	82.71	3013.4	0.33	49.45
501.8	2.86	76.45	1146.6	0.97	79.71	1770.4	0.19	67.13	2390.2	0.29	84.14	3013.6	0.36	49.67
502.0	2.71	75.96	1146.8	0.71	80.98	1770.6	0.14	67.85	2390.4	0.25	84.98	3013.8	0.32	49.63
502.2	2.50	75.53	1147.0	0.58	81.56	1770.8	0.19	67.95	2390.6	0.26	85.02	3014.0	0.29	49.34
502.4	2.90	75.41	1147.2	0.97	80.57	1771.0	0.18	67.44	2390.8	0.22	84.29	3014.2	0.33	48.94
502.6	2.74	75.73	1147.4	0.79	78.18	1771.2	0.15	66.58	2391.0	0.25	83.01	3014.4	0.28	48.60
502.8	2.48	76.44	1147.6	0.69	75.53	1771.4	0.15	65.80	2391.2	0.25	81.33	3014.6	0.31	48.47
503.0	2.98	77.38	1147.8	0.53	73.96	1771.6	0.20	65.44	2391.4	0.31	79.22	3014.8		

505.0	3.00	78.13	1149.8	1.13	79.44	1773.6	0.17	72.18	2393.4	0.40	61.66	3016.8	0.26	49.05
505.2	3.09	77.64	1150.0	1.56	79.62	1773.8	0.18	71.52	2393.6	0.35	62.64	3017.0	0.28	48.85
505.4	2.73	77.26	1150.2	1.66	79.88	1774.0	0.18	70.83	2393.8	0.42	64.42	3017.2	0.25	48.87
505.6	2.56	77.12	1150.4	1.95	80.29	1774.2	0.20	69.67	2394.0	0.27	66.55	3017.4	0.22	49.04
505.8	3.09	77.33	1150.6	2.01	80.78	1774.4	0.17	67.58	2394.2	0.27	68.47	3017.6	0.21	49.21
506.0	2.74	77.85	1150.8	2.04	81.15	1774.6	0.16	64.44	2394.4	0.47	69.72	3017.8	0.20	49.22
506.2	3.09	78.51	1151.0	1.99	81.21	1774.8	0.18	60.57	2394.6	0.50	69.90	3018.0	0.22	48.95
506.4	2.97	79.15	1151.2	2.30	80.90	1775.0	0.16	56.54	2394.8	0.53	68.86	3018.2	0.20	48.36
506.6	3.22	79.64	1151.4	0.98	80.26	1775.2	0.15	52.94	2395.0	0.31	66.67	3018.4	0.23	47.56
506.8	1.92	79.96	1151.6	1.30	79.38	1775.4	0.12	50.13	2395.2	0.35	63.71	3018.6	0.22	46.74
507.0	3.35	80.15	1151.8	1.61	78.39	1775.6	0.15	48.21	2395.4	0.40	60.71	3018.8	0.22	46.08
507.2	3.36	80.20	1152.0	1.54	77.51	1775.8	0.13	47.06	2396.2	0.24	58.54	3019.0	0.19	45.65
507.4	2.77	80.12	1152.2	1.53	76.98	1776.0	0.12	46.58	2396.4	0.25	57.76	3019.2	0.21	45.44
507.6	2.81	79.90	1152.4	0.74	76.90	1776.2	0.13	46.65	2396.6	0.23	58.29	3019.4	0.20	45.43
507.8	2.67	79.62	1152.6	1.21	77.19	1776.4	0.15	47.13	2396.8	0.32	59.48	3019.6	0.20	45.61
508.0	1.83	79.41	1152.8	1.30	77.62	1776.6	0.15	47.83	2397.0	0.31	60.45	3019.8	0.21	45.90
508.2	2.29	79.49	1153.0	1.30	77.97	1776.8	0.17	48.48	2397.2	0.43	60.62	3020.0	0.18	46.18
508.4	2.27	79.96	1153.2	1.52	78.11	1777.0	0.20	48.85	2397.4	0.32	60.06	3020.2	0.16	46.33
508.6	2.45	80.75	1153.4	1.04	78.23	1777.2	0.19	48.77	2397.6	0.30	59.35	3020.4	0.20	46.27
508.8	2.43	81.68	1153.6	1.50	78.81	1777.4	0.15	48.31	2397.8	0.43	59.11	3020.6	0.18	46.00
509.0	2.72	82.50	1153.8	1.24	80.21	1777.6	0.13	47.67	2398.0	0.41	59.59	3020.8	0.18	45.69
509.2	1.74	83.00	1154.0	0.98	82.28	1777.8	0.15	47.02	2398.2	0.42	60.67	3021.0	0.19	45.52
509.4	2.46	83.13	1154.2	0.41	84.41	1778.0	0.15	46.51	2398.4	0.47	61.97	3021.2	0.16	45.52
509.6	2.10	83.00	1154.4	1.40	85.72	1778.2	0.14	46.13	2398.6	0.45	63.15	3021.4	0.18	45.65
509.8	2.86	82.69	1154.6	0.77	85.70	1778.4	0.16	45.88	2398.8	0.39	64.09	3021.6	0.18	45.77
510.0	2.87	82.25	1154.8	1.00	84.43	1778.6	0.12	45.80	2399.0	0.49	64.76	3021.8	0.19	45.76
510.2	2.47	81.74	1155.0	1.60	82.36	1778.8	0.11	45.93	2399.2	0.55	65.17	3022.0	0.19	45.59
510.4	2.41	81.17	1155.2	1.05	80.14	1779.0	0.13	46.34	2399.4	0.52	65.37	3022.2	0.17	45.34
510.6	2.85	80.61	1155.4	1.16	78.04	1779.2	0.14	46.89	2399.6	0.56	65.52	3022.4	0.17	45.12
510.8	2.25	80.12	1155.6	1.09	76.02	1779.4	0.14	47.35	2399.8	0.52	65.75	3022.6	0.19	45.02
511.0	2.09	79.77	1155.8	1.18	73.89	1779.6	0.16	47.61	2400.0	0.46	66.08	3022.8	0.18	45.07
511.2	1.89	79.45	1156.0	1.05	71.60	1779.8	0.15	47.73	2400.2	0.58	66.37	3023.0	0.17	45.32
511.4	2.24	79.04	1156.2	0.93	69.44	1780.0	0.16	47.95	2400.4	0.53	66.42	3023.2	0.17	45.74
511.6	1.45	78.45	1156.4	0.83	67.85	1780.2	0.14	48.57	2400.6	0.65	66.24	3023.4	0.19	46.25
511.8	1.87	77.70	1156.6	0.76	67.05	1781.2	0.17	49.72	2400.8	0.49	66.03	3023.6	0.19	46.74
512.0	1.27	76.96	1156.8	0.53	66.93	1781.4	0.16	51.20	2401.0	0.56	66.25	3023.8	0.21	47.05
512.2	0.90	76.50	1157.0	0.67	67.05	1781.6	0.16	52.57	2401.2	0.63	67.30	3024.0	0.20	47.10
512.4	1.35	76.51	1157.2	0.57	66.97	1781.8	0.17	53.41	2401.4	0.53	69.08	3024.2	0.15	46.86
512.6	2.02	76.99	1157.4	0.71	66.57	1782.0	0.21	53.56	2401.6	0.75	71.04	3024.4	0.20	46.42
512.8	1.70	77.74	1157.6	0.47	66.04	1782.2	0.19	53.20	2401.8	0.77	72.45	3024.6	0.16	45.92
513.0	2.22	78.44	1157.8	0.56	65.89	1782.4	0.15	52.66	2402.0	0.63	72.74	3024.8	0.18	45.48
513.2	2.47	78.85	1158.0	0.60	66.72	1782.6	0.14	52.31	2402.2	0.97	71.71	3025.0	0.17	45.17
513.4	2.45	78.87	1158.2	0.46	68.82	1782.8	0.17	52.30	2402.4	0.61	69.66	3025.2	0.18	45.00
513.6	2.46	78.64	1158.4	0.62	71.98	1783.0	0.19	52.63	2402.6	0.47	67.06	3025.4	0.18	44.94
513.8	2.43	78.49	1158.6	0.61	75.60	1783.2	0.17	53.24	2402.8	0.46	64.41	3025.6	0.18	44.97
514.0	2.48	78.63	1158.8	0.73	78.74	1783.4	0.20	54.14	2403.0	0.57	62.10	3025.8	0.17	45.07
514.2	2.25	79.05	1159.0	0.71	80.54	1783.6	0.23	55.34	2403.2	0.49	60.33	3026.0	0.19	45.21
514.4	2.36	79.63	1159.2	0.51	80.60	1783.8	0.24	56.81	2403.4	0.43	59.19	3026.2	0.20	45.30
514.6	2.23	80.10	1159.4	0.72	79.62	1784.0	0.24	58.49	2403.6	0.42	58.59	3026.4	0.18	45.30
514.8	2.34	80.31	1159.6	0.71	78.90	1784.2	0.28	60.17	2403.8	0.37	58.44	3026.6	0.17	45.21
515.0	1.94	80.33	1159.8	0.62	79.41	1784.4	0.34	61.64	2404.0	0.42	58.58	3026.8	0.16	45.11
515.2	2.08	80.41	1160.0	0.51	81.24	1784.6	0.28	62.78	2404.2	0.43	58.77	3027.0	0.17	45.08
515.4	2.55	80.82	1160.2	0.60	83.34	1784.8	0.36	63.64	2404.4	0.47	58.81	3027.2	0.18	45.18
515.6	1.70	81.80	1160.4	0.56	84.19	1785.0	0.32	64.33	2404.6	0.45	58.60	3027.4	0.15	45.38
515.8	1.97	83.50	1160.6	0.33	82.67	1785.2	0.46	65.01	2404.8	0.42	58.14	3027.6	0.19	45.65
516.0	1.92	85.91	1160.8	0.60	78.99	1785.4	0.31	65.81	2405.0	0.39	57.55	3027.8	0.18	45.93
516.2	2.20	88.76	1161.0	0.57	74.48	1785.6	0.40	66.76	2405.2	0.35	56.95	3028.0	0.18	46.21
516.4	2.96	91.57	1161.2	0.58	70.86	1785.8	0.62	67.69	2405.4	0.42	56.43	3028.2	0.19	46.49
516.6	2.70	93.71	1161.4	0.68	69.45	1786.0	0.44	68.41	2405.6	0.39	56.07	3028.4	0.20	46.78
516.8	2.72	94.58	1161.6	0.67	70.44	1786.2	0.38	68.86	2405.8	0.37	55.92	3028.6	0.19	47.02
517.0	2.80	93.83	1161.8	0.74	72.79	1786.4	0.65	69.04	2406.0	0.41	55.97	3028.8	0.23	47.16
517.2	2.62	91.60	1162.0	0.87	74.90	1786.6	0.35	69.17	2406.2	0.41	56.18	3029.0	0.20	47.17
517.4	2.73	88.45	1162.2	0.38	75.68	1786.8	0.34	69.47	2406.4	0.45	56.84	3029.2	0.20	47.05
517.6	2.73	85.12	1162.4	0.51	74.70	1787.0	0.57	70.09	2406.6	0.50	58.39	3029.4	0.21	46.86
517.8	2.34	82.29	1162.6	0.84	72.11	1787.2	0.93	70.96	2406.8	0.38	61.07	3029.6	0.19	46.65
518.0	2.21	80.34	1162.8	0.72	68.58	1787.4	1.18	71.92	2407.0	0.41	64.74	3029.8	0.22	46.44
518.2	2.37	79.40	1163.0	0.48	64.96	1787.6	1.00	72.74	2407.2	0.42	68.66	3030.0	0.21	46.24
518.4	1.99	79.30	1163.2	0.46	61.85	1787.8	1.08	73.29	2407.4	0.74	71.69	3030.2	0.19	46.08
518.6	2.08	79.76	1163.4	0.61	59.47	1788.0	1.41	73.56	2407.6	1.25	72.83	3030.4	0.22	45.97
518.8	2.26	80.49	1163.6	0.45	57.75	1788.2	1.55	73.63	2407.8	1.33	71.89	3030.6	0.19	45.97
519.0	1.96	81.26	1163.8	0.38	56.61	1788.4	2.17	73.61	2408.0	0.77	69.47	3030.8	0.19	46.10
519.2	2.25	81.90	1164.0	0.41	56.00	1788.6	1.83	73.57	2408.2	0.85	66.70	3031.0	0.23	46.37

521.2	2.53	82.05	1166.0	0.43	63.19	1790.6	0.94	69.80	2410.2	1.57	81.13	3033.0	0.22	45.79
521.4	2.73	83.32	1166.2	0.47	63.55	1790.8	0.76	69.03	2410.4	1.81	79.21	3033.2	0.22	46.16
521.6	3.18	84.92	1166.4	0.39	64.09	1791.0	1.03	68.32	2410.6	1.80	77.44	3033.4	0.22	46.59
521.8	2.90	86.52	1166.6	0.47	64.59	1791.2	1.32	67.66	2410.8	1.96	76.18	3033.6	0.19	46.95
522.0	3.58	87.76	1166.8	0.39	64.73	1791.4	0.71	67.09	2411.0	1.66	75.32	3033.8	0.20	47.13
522.2	3.27	88.32	1167.0	0.42	64.35	1791.6	0.67	66.68	2411.2	1.66	74.49	3034.0	0.20	47.10
522.4	3.24	88.03	1167.2	0.41	63.45	1791.8	0.94	66.54	2411.4	0.93	73.47	3034.2	0.19	46.88
522.6	3.67	87.02	1167.4	0.46	62.15	1792.0	0.80	66.65	2411.6	0.53	72.28	3034.4	0.19	46.57
522.8	3.48	85.61	1167.6	0.56	60.71	1792.2	1.08	66.88	2411.8	1.06	71.17	3034.6	0.17	46.24
523.0	3.22	84.19	1167.8	0.48	59.43	1792.4	0.88	67.12	2412.0	0.86	70.26	3034.8	0.19	45.96
523.2	2.51	83.12	1168.0	0.48	58.51	1792.6	0.72	67.22	2412.2	1.14	69.55	3035.0	0.18	45.79
523.4	1.70	82.61	1168.2	0.45	58.41	1792.8	0.80	67.16	2412.4	0.98	68.90	3035.2	0.19	45.74
523.6	1.15	82.59	1168.4	0.43	59.72	1793.0	0.95	66.94	2412.6	0.93	68.22	3035.4	0.17	45.83
523.8	1.27	82.96	1168.6	0.39	62.79	1793.2	0.56	66.64	2412.8	0.88	67.52	3035.6	0.18	46.06
524.0	1.31	83.66	1168.8	0.46	67.49	1793.4	0.63	66.37	2413.0	0.99	66.92	3035.8	0.17	46.40
524.2	1.73	84.63	1169.0	0.40	73.03	1793.6	1.16	66.30	2413.2	0.87	66.56	3036.0	0.18	46.77
524.4	2.16	85.87	1172.4	0.46	78.17	1793.8	0.82	66.50	2413.4	0.82	66.46	3036.2	0.18	47.12
524.6	2.45	87.36	1172.6	0.49	81.55	1794.0	1.14	66.99	2413.6	0.95	66.54	3036.4	0.23	47.41
524.8	2.69	89.04	1172.8	0.49	82.49	1794.2	1.15	67.65	2413.8	0.95	66.67	3036.6	0.19	47.60
525.0	3.06	90.77	1173.0	0.51	81.21	1794.4	1.16	68.37	2414.0	0.81	66.74	3036.8	0.23	47.69
525.2	3.64	92.39	1173.2	0.55	78.66	1794.6	1.27	69.01	2414.2	0.91	66.73	3037.0	0.20	47.74
525.4	3.98	93.82	1173.4	0.46	75.99	1794.8	1.17	69.48	2414.4	0.76	66.78	3037.2	0.20	47.77
525.6	3.68	94.95	1173.6	0.44	74.14	1795.0	1.06	69.82	2414.6	0.94	67.07	3037.4	0.22	47.75
525.8	3.81	95.64	1173.8	0.36	73.43	1795.2	1.29	70.07	2414.8	1.00	67.70	3037.6	0.22	47.67
526.0	3.43	95.79	1174.0	0.45	73.63	1795.4	1.15	70.29	2415.0	0.90	68.56	3037.8	0.22	47.52
526.2	3.83	95.42	1174.2	0.46	74.38	1795.6	1.09	70.48	2415.2	1.13	69.41	3038.0	0.23	47.34
526.4	4.07	94.75	1174.4	0.60	75.38	1795.8	1.20	70.64	2415.4	1.18	70.00	3038.2	0.19	47.15
526.6	3.50	94.07	1174.6	0.48	76.49	1796.0	1.37	70.76	2415.6	0.87	70.20	3038.4	0.20	47.01
526.8	3.30	93.57	1174.8	0.53	77.67	1796.2	1.20	70.81	2415.8	0.95	70.04	3038.6	0.20	46.97
527.0	3.47	93.19	1175.0	0.41	78.96	1796.4	1.01	70.86	2416.0	0.80	69.74	3038.8	0.21	47.02
527.2	3.53	92.69	1175.2	0.53	80.35	1796.6	1.13	70.99	2416.2	0.75	69.50	3039.0	0.18	47.14
527.4	4.00	91.80	1175.4	0.53	81.57	1796.8	1.10	71.20	2416.4	1.05	69.40	3039.2	0.21	47.30
527.6	4.07	90.53	1175.6	0.55	82.26	1797.0	1.40	71.47	2416.6	1.02	69.37	3039.4	0.22	47.40
527.8	3.43	89.16	1175.8	0.51	82.35	1797.2	1.26	71.76	2416.8	0.66	69.27	3039.6	0.24	47.40
528.0	2.77	88.06	1176.0	0.55	82.15	1797.4	1.44	72.00	2417.0	1.10	68.95	3039.8	0.18	47.31
528.2	2.95	87.48	1176.2	0.53	82.11	1797.6	1.43	72.14	2417.2	1.09	68.36	3040.0	0.20	47.16
528.4	3.22	87.37	1176.4	0.45	82.59	1797.8	1.59	72.21	2417.4	0.88	67.59	3040.2	0.20	47.05
528.6	2.51	87.54	1176.6	0.50	83.62	1798.0	1.68	72.19	2417.6	1.00	66.94	3040.4	0.21	47.03
528.8	2.42	87.68	1176.8	0.49	84.82	1798.2	1.98	72.08	2417.8	0.75	66.73	3040.6	0.18	47.12
529.0	2.04	87.63	1177.0	0.50	85.61	1798.4	2.29	71.83	2418.0	0.93	67.29	3040.8	0.23	47.28
529.2	2.76	87.47	1177.2	0.52	85.61	1798.6	1.97	71.48	2418.2	1.21	68.72	3041.0	0.22	47.44
529.4	2.52	87.29	1177.4	0.50	84.80	1798.8	1.77	71.10	2418.4	1.33	70.84	3041.2	0.26	47.56
529.6	2.38	87.13	1177.6	0.51	83.41	1799.0	0.98	70.77	2418.6	1.36	73.35	3041.4	0.23	47.61
529.8	2.44	87.00	1177.8	0.52	81.86	1799.2	1.18	70.60	2418.8	1.14	76.10	3041.6	0.22	47.56
530.0	2.47	86.91	1178.0	0.53	80.60	1799.4	1.62	70.62	2419.0	1.23	79.12	3041.8	0.22	47.39
530.2	1.84	86.82	1178.2	0.55	79.97	1799.6	1.62	70.77	2419.2	1.34	82.37	3042.0	0.25	47.13
530.4	2.11	86.80	1178.4	0.48	80.12	1799.8	1.94	70.93	2419.4	1.29	85.65	3042.2	0.23	46.85
530.6	1.76	87.05	1178.6	0.42	81.06	1800.0	2.21	71.05	2419.6	2.12	88.37	3042.4	0.21	46.68
530.8	1.91	87.66	1178.8	0.54	82.41	1800.2	2.80	71.13	2419.8	2.39	89.74	3042.6	0.22	46.78
531.0	2.21	88.63	1179.0	0.59	83.57	1800.4	1.93	71.17	2420.0	1.72	89.27	3042.8	0.25	47.24
531.2	1.89	89.84	1179.2	0.60	83.98	1800.6	2.25	71.19	2420.2	1.55	87.09	3043.0	0.25	47.96
531.4	1.81	90.99	1179.4	0.63	83.40	1800.8	2.41	71.19	2420.4	1.45	83.89	3043.2	0.24	48.71
531.6	2.24	91.64	1179.6	0.46	82.10	1801.0	2.54	71.15	2420.6	1.87	80.49	3043.4	0.24	49.20
531.8	2.38	91.46	1179.8	0.51	80.64	1801.2	2.43	71.04	2420.8	1.55	77.51	3043.6	0.21	49.25
532.0	1.86	90.65	1180.0	0.60	79.62	1801.4	1.90	70.87	2421.0	1.95	75.13	3043.8	0.25	48.89
532.2	1.66	89.57	1180.2	0.52	79.35	1801.6	1.91	70.67	2421.2	1.74	73.21	3044.0	0.20	48.32
532.4	1.54	88.62	1180.4	0.52	79.80	1801.8	2.21	70.50	2421.4	1.40	71.59	3044.2	0.22	47.84
532.6	1.29	88.07	1180.6	0.57	80.65	1802.0	2.07	70.45	2421.6	1.31	70.29	3044.4	0.25	47.63
532.8	1.69	87.75	1180.8	0.64	81.45	1802.2	2.07	70.62	2421.8	1.39	69.38	3044.6	0.24	47.69
533.0	1.63	87.26	1181.0	0.64	81.94	1802.4	2.14	71.00	2422.0	1.46	68.90	3044.8	0.25	47.91
533.2	1.88	86.35	1181.2	0.63	81.98	1802.6	2.94	71.52	2422.2	1.20	68.83	3045.0	0.27	48.09
533.4	1.72	85.15	1181.4	0.57	81.59	1802.8	3.36	72.10	2422.4	1.12	69.00	3045.2	0.26	48.07
533.6	2.05	84.00	1181.6	0.50	80.90	1803.0	3.00	72.62	2422.6	1.15	69.23	3045.4	0.24	47.89
533.8	1.61	83.26	1181.8	0.53	80.11	1803.2	3.38	73.03	2422.8	1.33	69.40	3045.6	0.19	47.63
534.0	1.67	83.07	1182.0	0.52	79.45	1803.4	2.01	73.35	2423.0	1.05	69.37	3045.8	0.21	47.38
534.2	1.82	83.22	1182.2	0.45	79.02	1803.6	1.46	73.68	2423.2	0.96	69.04	3046.0	0.20	47.21
534.4	1.47	83.30	1182.4	0.49	78.93	1803.8	1.14	74.14	2423.4	0.92	68.39	3046.2	0.21	47.16
534.6	1.47	83.04	1182.6	0.42	79.25	1804.0	1.32	74.72	2423.6	1.13	67.50	3046.4	0.24	47.18
534.8	1.62	82.46	1182.8	0.55	79.91	1804.2	1.91	75.30	2423.8	0.54	66.50	3046.6	0.26	47.23
535.0	1.42	81.71	1183.0	0.48	80.81	1804.4	1.48	75.70	2424.0	0.56	65.51	3046.8	0.26	47.29
535.2	1.23	81.58	1183.2	0.54	81.82	1804.6	1.69	75.80	2424.2	0.59	64.61	3047.0	0.22	47.30
535.4	1.31	82.88	1183.4	0.61	82.70	1804.8	1.49	75.66	2424.4	0.66	63.81	3047.2	0.24	47.23

537.4	0.77	88.39	1185.4	0.61	90.05	1806.8	3.60	74.52	2426.4	0.60	70.20	3049.2	0.23	47.71
537.6	1.19	86.75	1185.6	0.52	90.27	1807.0	2.28	74.68	2426.6	0.57	69.03	3049.4	0.23	47.60
537.8	1.31	84.94	1185.8	0.58	89.64	1807.2	2.48	74.70	2426.8	0.75	67.41	3049.6	0.23	47.56
538.0	0.95	83.08	1186.0	0.53	88.14	1807.4	3.66	74.43	2427.0	0.57	65.83	3049.8	0.24	47.56
538.2	1.12	81.47	1186.2	0.54	86.08	1807.6	2.62	73.83	2427.2	0.51	64.60	3050.0	0.27	47.52
538.4	0.83	80.47	1186.4	0.56	83.94	1807.8	1.75	73.07	2427.4	0.66	63.80	3050.2	0.23	47.36
538.6	0.98	80.06	1186.6	0.61	82.16	1808.0	2.02	72.33	2427.6	0.50	63.29	3050.4	0.24	47.05
538.8	1.00	80.05	1186.8	0.63	80.92	1808.2	1.44	71.73	2427.8	0.54	62.89	3050.6	0.20	46.73
539.0	1.04	80.11	1187.0	0.50	80.18	1808.4	1.67	71.33	2428.0	0.37	62.51	3050.8	0.25	46.52
539.2	0.92	79.93	1187.2	0.54	79.68	1808.6	1.89	71.14	2428.2	0.50	62.22	3051.0	0.25	46.52
539.4	0.90	79.41	1187.4	0.48	79.08	1808.8	1.99	71.15	2428.4	0.52	62.14	3051.2	0.23	46.75
539.6	0.97	78.68	1187.6	0.57	78.39	1809.0	1.79	71.40	2428.6	0.46	62.33	3051.4	0.24	47.19
539.8	1.00	77.95	1187.8	0.50	77.91	1809.2	2.77	71.96	2428.8	0.43	62.84	3051.6	0.27	47.76
540.0	0.78	77.38	1188.0	0.47	77.93	1809.4	3.51	72.75	2429.0	0.45	63.63	3051.8	0.25	48.36
540.2	0.72	77.04	1188.2	0.46	78.62	1809.6	3.03	73.57	2429.2	0.49	64.55	3052.0	0.25	48.86
540.4	0.77	76.84	1188.4	0.46	79.79	1809.8	2.31	74.22	2429.4	0.47	65.41	3052.2	0.28	49.18
540.6	0.68	76.56	1188.6	0.49	81.03	1810.0	2.31	74.58	2429.6	0.49	66.03	3052.4	0.28	49.26
540.8	0.71	76.02	1188.8	0.47	81.90	1810.2	3.59	74.68	2429.8	0.53	66.36	3052.6	0.24	49.16
541.0	0.68	75.23	1189.0	0.52	82.18	1810.4	3.82	74.60	2430.0	0.50	66.76	3052.8	0.27	49.00
541.2	0.58	74.27	1189.2	0.52	82.04	1810.6	4.11	74.37	2430.2	0.41	68.01	3053.0	0.26	48.88
541.4	0.65	73.37	1189.4	0.44	81.86	1810.8	4.07	73.96	2430.4	0.47	70.62	3053.2	0.27	48.86
541.6	0.60	72.79	1189.6	0.45	82.03	1811.0	4.29	73.40	2430.6	0.41	74.53	3053.4	0.30	48.93
541.8	0.53	72.78	1189.8	0.53	82.73	1811.2	2.92	72.75	2430.8	0.64	78.78	3053.6	0.30	49.01
542.0	0.54	73.66	1190.0	0.45	83.81	1811.4	3.01	72.12	2431.0	0.45	81.88	3053.8	0.23	49.08
542.2	0.53	75.48	1190.2	0.46	84.88	1811.6	2.06	71.70	2431.2	0.57	82.55	3054.0	0.26	49.12
542.4	0.58	77.86	1190.4	0.49	85.65	1811.8	2.59	71.67	2431.4	0.79	80.48	3054.2	0.28	49.16
542.6	0.52	80.15	1190.6	0.53	86.05	1812.0	2.13	71.97	2431.6	0.55	76.49	3054.4	0.27	49.22
542.8	0.54	81.63	1190.8	0.42	86.15	1812.2	2.98	72.41	2431.8	0.62	71.95	3054.6	0.24	49.27
543.0	0.35	81.80	1191.0	0.47	86.14	1812.4	3.27	72.82	2432.0	0.65	68.24	3054.8	0.25	49.26
543.2	0.49	80.51	1191.2	0.50	86.19	1812.6	0.94	73.09	2432.2	0.73	66.20	3055.0	0.25	49.14
543.4	0.56	78.16	1191.4	0.49	86.40	1812.8	2.56	73.16	2432.4	0.78	66.19	3055.2	0.28	49.00
543.6	0.55	75.38	1191.6	0.43	86.71	1813.0	3.19	73.07	2432.6	0.51	68.15	3055.4	0.27	48.91
543.8	0.48	72.74	1191.8	0.46	86.94	1813.2	2.97	72.92	2432.8	0.70	71.74	3055.6	0.29	48.93
544.0	0.47	70.64	1192.0	0.49	86.85	1813.4	2.84	72.75	2433.0	0.68	76.18	3055.8	0.27	49.13
544.2	0.45	69.27	1192.2	0.41	86.29	1813.6	3.00	72.54	2433.2	1.15	80.17	3056.0	0.32	49.47
544.4	0.39	68.55	1192.4	0.46	85.24	1813.8	2.59	72.32	2433.4	1.24	82.43	3056.2	0.29	49.80
544.6	0.40	68.39	1192.6	0.39	84.11	1814.0	2.64	72.09	2433.6	0.76	82.22	3056.4	0.28	49.99
544.8	0.37	68.76	1192.8	0.46	84.17	1814.2	3.29	71.90	2433.8	0.88	79.70	3056.6	0.29	49.93
545.0	0.36	69.47	1193.0	0.46	86.86	1814.4	3.26	71.98	2434.0	1.02	75.82	3056.8	0.29	49.62
545.2	0.41	70.20	1193.2	0.50	92.79	1814.6	2.90	72.47	2434.2	0.95	71.81	3057.0	0.29	49.14
545.4	0.40	70.65	1193.4	0.43	101.12	1814.8	2.88	73.27	2434.4	0.92	68.49	3057.2	0.24	48.56
545.6	0.28	70.62	1193.6	0.46	109.53	1815.0	2.36	74.09	2434.6	0.77	66.16	3057.4	0.29	47.93
545.8	0.41	70.06	1193.8	0.43	115.06	1815.2	4.23	74.56	2434.8	0.70	64.69	3057.6	0.26	47.30
546.0	0.38	69.02	1194.0	0.49	115.57	1815.4	3.97	74.46	2435.0	0.79	63.83	3057.8	0.31	46.77
546.2	0.45	67.73	1194.2	0.48	110.93	1815.6	3.83	73.80	2435.2	0.81	63.48	3058.0	0.29	46.47
546.4	0.35	66.42	1194.4	0.51	102.90	1815.8	3.59	72.94	2435.4	0.74	63.59	3058.2	0.24	46.51
546.6	0.42	65.32	1194.6	0.44	94.08	1816.0	4.00	72.30	2435.6	0.70	64.07	3058.4	0.24	46.94
546.8	0.36	64.50	1194.8	0.48	86.71	1816.2	4.17	72.09	2435.8	0.75	64.68	3058.6	0.26	47.71
547.0	0.42	63.97	1195.0	0.44	82.35	1816.4	4.86	72.21	2436.0	0.62	65.12	3058.8	0.27	48.64
547.2	0.45	63.65	1195.2	0.40	81.47	1816.6	3.95	72.37	2436.2	0.62	65.30	3059.0	0.28	49.55
547.4	0.30	63.39	1195.4	0.47	83.58	1816.8	0.38	72.27	2436.4	0.67	65.22	3059.2	0.25	50.28
547.6	0.32	63.14	1195.6	0.42	87.66	1817.0	4.62	71.84	2436.6	0.69	64.96	3059.4	0.30	50.75
547.8	0.37	62.88	1195.8	0.41	92.10	1817.2	3.42	71.25	2436.8	0.77	64.61	3059.6	0.29	50.97
548.0	0.35	62.63	1196.0	0.46	95.10	1817.4	2.67	70.70	2437.0	0.77	64.18	3059.8	0.26	50.98
548.2	0.34	62.38	1196.2	0.35	95.42	1817.6	3.29	70.36	2437.2	0.69	63.67	3060.0	0.32	50.88
548.4	0.31	62.07	1196.4	0.47	93.11	1817.8	2.38	70.24	2437.4	0.76	63.14	3060.2	0.25	50.76
548.6	0.36	61.56	1196.6	0.40	89.27	1818.0	2.60	70.36	2437.6	0.81	62.76	3060.4	0.30	50.69
548.8	0.38	60.78	1196.8	0.39	85.43	1818.2	3.03	70.70	2437.8	0.66	62.63	3060.6	0.24	50.70
549.0	0.32	59.78	1197.0	0.41	82.77	1818.4	2.06	71.14	2438.0	0.67	62.78	3060.8	0.28	50.76
549.2	0.33	58.75	1197.2	0.48	81.80	1818.6	2.02	71.59	2438.2	0.75	63.08	3061.0	0.30	50.79
549.4	0.29	57.93	1197.4	0.44	82.30	1818.8	2.37	71.86	2438.4	0.87	63.36	3061.2	0.26	50.79
549.6	0.31	57.50	1197.6	0.36	83.67	1819.0	2.01	71.81	2438.6	0.70	63.47	3061.4	0.20	50.80
549.8	0.37	57.63	1197.8	0.41	85.46	1819.2	2.40	71.41	2438.8	0.63	63.42	3061.6	0.27	50.84
550.0	0.34	58.48	1198.0	0.46	87.17	1819.4	2.64	70.79	2439.0	0.69	63.33	3061.8	0.25	50.86
550.2	0.30	60.15	1198.2	0.44	88.21	1819.6	2.84	70.24	2439.2	0.62	63.36	3062.0	0.25	50.77
550.4	0.35	62.61	1198.4	0.46	88.04	1819.8	2.63	70.04	2439.4	0.79	63.61	3062.2	0.27	50.46
550.6	0.38	65.50	1198.6	0.38	86.54	1820.0	3.18	70.33	2439.6	0.86	64.08	3062.4	0.26	49.88
550.8	0.41	68.22	1198.8	0.43	84.06	1820.2	3.30	71.02	2439.8	0.67	64.69	3062.6	0.26	49.13
551.0	0.41	70.00	1199.0	0.37	81.30	1820.4	3.53	71.85	2440.0	0.68	65.30	3062.8	0.22	48.40
551.2	0.43	70.31	1199.2	0.35	78.89	1820.6	3.51	72.46	2440.2	1.07	65.78	3063.0	0.23	47.85
551.4	0.36	69.12	1199.4	0.36	77.14	1820.8	4.40	72.63	2440.4	0.88	66.04	3063.2	0.23	47.55
551.6	0.37	66.89	1199.6	0.38	76.03	1821.0	4.11	72.35	2440.6	1.11	66.05	3063.4	0.24	47

553.6	0.33	57.82	1201.6	0.39	77.60	1823.0	4.28	69.45	2442.6	0.48	64.41	3065.4	0.30	50.93
553.8	0.38	59.42	1201.8	0.36	76.20	1823.2	3.89	68.82	2442.8	0.66	63.30	3065.6	0.28	51.42
554.0	0.38	62.27	1202.0	0.35	75.05	1823.4	3.62	68.21	2443.0	0.62	62.12	3065.8	0.29	51.63
554.2	0.41	66.60	1202.2	0.34	74.55	1823.6	4.18	67.82	2443.2	0.56	60.96	3066.0	0.31	51.51
554.4	0.38	72.33	1202.4	0.41	74.80	1823.8	3.74	67.78	2443.4	0.55	59.92	3066.2	0.31	51.12
554.6	0.34	78.77	1202.6	0.36	75.51	1824.0	3.74	68.05	2443.6	0.58	59.09	3066.4	0.29	50.59
554.8	0.46	84.54	1202.8	0.40	76.28	1824.2	3.76	68.44	2443.8	0.57	58.53	3066.6	0.28	50.10
555.0	0.36	88.18	1203.0	0.38	76.82	1824.4	4.33	68.77	2444.0	0.51	58.25	3066.8	0.33	49.73
555.2	0.39	88.54	1203.2	0.41	77.04	1824.6	4.13	69.02	2444.2	0.54	58.26	3067.0	0.30	49.48
555.4	0.29	85.40	1203.4	0.35	76.92	1824.8	4.01	69.24	2444.4	0.59	58.56	3067.2	0.33	49.28
555.6	0.32	79.51	1203.6	0.41	76.63	1825.0	4.13	69.54	2444.6	0.51	59.11	3067.4	0.30	49.05
555.8	0.41	72.51	1203.8	0.41	76.51	1825.2	4.05	69.93	2444.8	0.49	59.82	3067.6	0.30	48.77
556.0	0.40	66.11	1204.0	0.39	76.81	1825.4	4.37	70.34	2445.0	0.43	60.46	3067.8	0.31	48.55
556.2	0.42	61.60	1204.2	0.38	77.64	1825.6	4.29	70.59	2445.2	0.27	60.77	3068.0	0.28	48.60
556.4	0.35	59.54	1204.4	0.35	78.83	1825.8	3.17	70.59	2445.4	0.38	60.63	3068.2	0.29	49.21
556.6	0.36	59.55	1204.6	0.38	80.06	1826.0	3.11	70.34	2445.6	0.49	60.18	3068.4	0.32	50.59
556.8	0.41	60.62	1204.8	0.39	80.97	1826.2	3.30	69.91	2445.8	0.48	59.88	3068.6	0.32	52.77
557.0	0.36	61.63	1205.0	0.34	81.37	1826.4	3.47	69.40	2446.0	0.49	60.22	3068.8	0.41	55.51
557.2	0.42	61.89	1205.2	0.36	81.41	1826.6	3.12	68.94	2446.2	0.48	61.44	3069.0	0.40	58.35
557.4	0.41	61.08	1205.4	0.34	81.58	1826.8	3.08	68.61	2446.4	0.54	63.33	3069.2	0.61	60.68
557.6	0.39	59.35	1205.6	0.36	82.49	1827.0	2.88	68.58	2446.6	0.47	65.30	3069.4	0.59	62.01
557.8	0.37	57.21	1205.8	0.38	84.33	1827.2	3.12	69.00	2446.8	0.34	66.61	3069.6	0.69	62.09
558.0	0.42	55.26	1206.0	0.32	86.81	1827.4	3.32	70.03	2447.0	0.46	66.84	3069.8	0.62	61.01
558.2	0.34	53.95	1206.2	0.34	89.17	1827.6	3.84	72.00	2447.2	0.70	66.05	3070.0	0.64	59.16
558.4	0.32	53.56	1206.4	0.31	90.69	1827.8	3.55	75.34	2447.4	0.86	64.72	3070.2	0.76	57.07
558.6	0.42	54.03	1206.6	0.36	91.04	1828.0	5.78	80.04	2447.6	0.82	63.48	3070.4	0.55	55.26
558.8	0.42	55.10	1206.8	0.36	90.42	1828.2	4.67	85.33	2447.8	0.66	62.86	3070.6	0.54	54.10
559.0	0.37	56.51	1207.0	0.34	89.35	1828.4	5.48	89.87	2448.0	0.77	63.12	3070.8	0.45	53.72
559.6	0.42	57.83	1207.2	0.38	88.32	1828.6	3.96	92.14	2448.2	0.67	64.12	3071.0	0.48	54.07
559.8	0.36	58.64	1207.4	0.34	87.59	1828.8	4.27	91.22	2448.4	0.68	65.50	3071.2	0.62	54.97
560.0	0.51	58.63	1207.6	0.32	87.10	1829.0	4.88	87.46	2448.6	0.70	66.93	3071.4	0.61	56.26
560.2	0.40	57.82	1207.8	0.33	86.72	1829.2	3.47	82.36	2448.8	0.92	68.12	3071.6	0.84	57.77
560.4	0.46	56.49	1208.0	0.39	86.37	1829.4	2.76	77.74	2449.0	1.15	68.91	3071.8	0.72	59.39
560.6	0.44	55.13	1208.2	0.30	86.07	1829.6	2.69	74.81	2449.2	1.04	69.23	3072.0	0.94	60.96
560.8	0.30	54.29	1208.4	0.31	85.88	1829.8	2.72	73.76	2449.4	1.16	69.12	3072.2	1.41	62.22
561.0	0.36	54.38	1208.6	0.37	85.68	1830.0	3.14	73.85	2449.6	1.29	68.64	3072.4	1.32	62.86
561.2	0.34	55.46	1208.8	0.38	85.31	1830.2	3.02	73.96	2449.8	1.44	67.98	3072.6	1.76	62.63
561.4	0.27	57.27	1209.0	0.33	84.69	1830.4	3.35	73.48	2450.0	1.46	67.60	3072.8	1.26	61.51
561.6	0.45	59.38	1209.2	0.37	83.92	1830.6	3.13	72.50	2450.2	1.23	67.97	3073.0	1.78	59.72
561.8	0.47	61.24	1209.4	0.44	83.23	1830.8	3.10	71.39	2450.4	0.89	69.44	3073.2	1.16	57.73
562.0	0.37	62.49	1209.6	0.34	82.78	1831.0	3.15	70.52	2450.6	2.37	72.09	3073.4	0.88	56.08
562.2	0.35	63.13	1209.8	0.39	82.67	1831.2	2.78	70.17	2450.8	2.12	75.72	3073.6	0.74	55.18
562.4	0.41	63.38	1210.0	0.35	82.77	1831.4	2.75	70.34	2451.0	1.98	79.65	3073.8	0.74	55.17
562.6	0.36	63.51	1210.2	0.38	82.82	1831.6	2.84	70.82	2451.2	3.21	82.89	3074.0	0.86	55.92
562.8	0.37	63.69	1210.4	0.34	82.52	1831.8	3.02	71.31	2451.4	3.80	84.39	3074.2	1.09	57.15
563.0	0.57	63.86	1210.6	0.38	81.79	1832.0	2.71	71.56	2451.6	0.80	83.46	3074.4	1.28	58.50
563.2	0.54	63.73	1210.8	0.32	80.66	1832.2	2.10	71.47	2451.8	1.40	80.03	3074.6	1.77	59.68
563.4	0.52	63.10	1211.0	0.33	79.32	1832.4	2.73	71.05	2452.0	1.25	74.75	3074.8	1.06	60.50
563.6	0.54	62.01	1211.2	0.35	78.15	1832.6	2.69	70.46	2452.2	0.67	68.91	3075.0	1.48	60.83
563.8	0.32	60.68	1211.4	0.32	77.43	1832.8	2.17	69.88	2452.4	0.72	63.84	3075.2	1.39	60.65
564.0	0.44	59.39	1211.6	0.33	77.23	1833.0	1.86	69.48	2452.6	0.72	60.46	3075.4	1.14	60.02
564.2	0.38	58.40	1211.8	0.35	77.57	1833.2	1.10	69.46	2452.8	0.73	59.01	3075.6	0.86	59.10
564.4	0.54	57.87	1212.0	0.32	78.52	1833.4	1.38	70.07	2453.0	0.87	59.11	3075.8	0.83	58.08
564.6	0.51	57.77	1212.2	0.36	80.11	1833.6	1.06	71.66	2453.2	0.83	60.23	3076.0	0.98	57.17
564.8	0.41	58.09	1212.4	0.37	82.38	1833.8	1.22	74.50	2453.4	1.12	62.19	3076.2	0.73	56.53
565.0	0.45	58.83	1212.6	0.37	85.27	1834.0	1.27	78.65	2453.6	0.71	65.65	3076.4	1.07	56.22
565.2	0.41	60.06	1212.8	0.43	88.77	1834.2	1.11	83.60	2453.8	1.62	71.29	3076.6	0.92	56.17
565.4	0.57	61.74	1213.0	0.39	92.97	1834.4	2.25	88.25	2454.0	3.20	78.91	3076.8	0.79	56.30
565.6	0.51	63.61	1213.2	0.34	97.68	1834.6	2.73	91.36	2454.2	2.36	87.08	3077.0	0.94	56.52
565.8	0.40	65.26	1213.4	0.42	102.32	1834.8	3.43	91.95	2454.4	2.36	93.47	3077.2	1.03	56.76
566.0	0.54	66.24	1213.6	0.38	105.91	1835.0	4.40	89.86	2454.6	1.66	95.84	3077.4	0.95	57.00
566.2	0.35	66.25	1213.8	0.39	107.23	1835.2	4.23	85.77	2454.8	1.22	93.20	3077.6	0.78	57.23
566.4	0.49	65.33	1214.0	0.41	105.59	1835.4	4.43	80.91	2455.0	0.77	86.53	3077.8	1.28	57.43
566.6	0.39	63.80	1214.2	0.36	101.33	1835.6	2.73	76.48	2455.2	0.85	78.19	3078.0	1.03	57.52
566.8	0.51	62.14	1214.4	0.37	95.86	1835.8	3.93	73.26	2455.4	0.77	70.71	3078.2	1.07	57.47
567.0	0.41	60.72	1214.6	0.36	91.06	1836.0	4.49	71.51	2455.6	0.64	65.63	3078.4	1.33	57.24
567.2	0.41	59.81	1214.8	0.35	88.45	1836.2	4.16	71.06	2455.8	0.74	63.22	3078.6	1.32	56.86
567.4	0.47	59.51	1215.0	0.38	88.46	1836.4	4.37	71.47	2456.0	0.77	62.60	3078.8	1.41	56.37
567.6	0.41	59.82	1215.2	0.43	90.39	1836.6	4.69	72.30	2456.2	0.88	62.65	3079.0	1.59	55.84
567.8	0.42	60.71	1215.4	0.37	92.93	1836.8	4.31	73.17	2456.4	0.88	62.79	3079.2	1.54	55.36
568.0	0.37	62.08	1215.6	0.40	95.07	1837.0	4.39	73.71	2456.6	0.66	62.80	3079.4	1.70	55.01
568.2	0.41	63.64	1215.8	0.38	96.29	1837.2	3.71	73.75	2456.8	0.86	62.73	3079.6	1.38	54.

570.2	0.41	55.56	1217.8	0.37	87.33	1839.2	2.81	74.07	2458.8	1.27	74.33	3081.6	0.90	56.34
570.4	0.41	55.09	1218.0	0.31	86.66	1839.4	2.55	75.00	2459.0	1.26	74.72	3081.8	0.86	56.70
570.6	0.38	54.80	1218.2	0.40	86.09	1839.6	3.22	75.75	2459.2	1.00	73.50	3082.0	0.58	57.27
570.8	0.32	54.68	1218.4	0.40	85.94	1839.8	3.44	75.99	2459.4	0.96	70.68	3082.2	1.25	57.92
571.0	0.42	54.81	1218.6	0.38	86.36	1840.0	4.58	75.68	2459.6	0.69	66.92	3082.4	1.42	58.44
571.2	0.48	55.28	1218.8	0.36	87.27	1840.2	4.21	75.12	2459.8	0.66	63.19	3082.6	1.18	58.67
571.4	0.42	56.16	1219.0	0.40	88.25	1840.4	4.39	74.70	2460.0	0.68	60.39	3082.8	1.99	58.59
571.6	0.45	57.76	1219.2	0.35	88.79	1840.6	3.43	74.63	2460.2	0.63	58.93	3083.0	2.30	58.34
571.8	0.40	60.44	1219.4	0.41	88.54	1840.8	3.84	74.90	2460.4	0.54	58.76	3083.2	2.09	58.10
572.0	0.41	64.22	1219.6	0.37	87.53	1841.0	4.30	75.40	2460.6	0.62	59.44	3083.4	2.34	57.98
572.2	0.42	68.55	1219.8	0.33	86.14	1841.2	3.86	76.04	2460.8	0.60	60.50	3083.6	2.93	57.94
572.4	0.40	72.46	1220.0	0.30	84.90	1841.4	3.93	76.77	2461.0	0.57	61.83	3083.8	2.62	57.91
572.6	0.42	74.89	1220.2	0.39	84.30	1841.6	3.75	77.60	2461.2	0.50	63.60	3084.0	3.15	57.81
572.8	0.43	75.18	1220.4	0.31	84.44	1841.8	3.52	78.45	2461.4	0.54	66.00	3084.2	2.23	57.69
573.0	0.48	73.53	1220.6	0.36	85.10	1842.0	3.36	79.09	2461.6	0.49	68.91	3084.4	2.09	57.57
573.2	0.39	70.81	1220.8	0.34	85.92	1842.2	3.19	79.32	2461.8	0.66	71.73	3084.6	2.84	57.50
573.4	0.41	67.97	1221.0	0.33	86.80	1842.4	4.12	79.02	2462.0	0.57	73.53	3084.8	2.50	57.47
573.6	0.32	65.59	1221.2	0.27	87.94	1842.6	4.41	78.22	2462.2	0.61	73.49	3085.0	2.47	57.45
573.8	0.35	63.77	1221.4	0.38	89.61	1842.8	3.56	77.16	2462.4	0.59	71.37	3085.2	2.58	57.45
574.0	0.31	62.22	1221.6	0.37	91.82	1843.0	3.80	76.37	2462.6	0.62	67.66	3085.4	2.25	57.46
574.2	0.34	60.59	1221.8	0.34	94.02	1843.2	3.68	76.45	2462.8	0.59	63.37	3085.6	1.88	57.49
574.4	0.30	58.89	1222.0	0.36	95.38	1843.4	3.35	77.69	2463.0	0.58	59.57	3085.8	2.02	57.51
574.6	0.35	57.38	1222.2	0.43	95.15	1843.6	4.49	79.83	2463.2	0.61	56.86	3086.0	1.44	57.52
574.8	0.39	56.32	1222.4	0.42	93.15	1843.8	3.65	82.13	2463.4	0.57	55.27	3086.2	2.17	57.52
575.0	0.34	55.81	1222.6	0.34	89.94	1844.0	4.53	83.54	2463.6	0.52	54.50	3086.4	3.15	57.50
575.2	0.42	55.82	1222.8	0.31	86.61	1844.2	4.44	83.32	2463.8	0.52	54.33	3086.6	3.65	57.52
575.4	0.40	56.18	1223.0	0.32	84.15	1844.4	4.40	81.47	2464.0	0.46	54.88	3086.8	3.39	57.63
575.6	0.41	56.76	1223.2	0.32	82.95	1844.6	3.31	78.67	2464.2	0.47	56.47	3087.0	3.19	57.86
575.8	0.43	57.49	1223.4	0.33	82.78	1844.8	1.97	75.97	2464.4	0.49	59.11	3087.2	2.93	58.21
576.0	0.39	58.25	1223.6	0.36	83.05	1845.0	3.01	74.18	2464.6	0.48	62.20	3087.4	3.61	58.60
576.2	0.42	59.04	1223.8	0.26	83.19	1845.2	3.48	73.47	2464.8	0.41	64.72	3087.6	4.18	58.98
576.4	0.32	59.92	1224.0	0.31	82.97	1845.4	3.29	73.44	2465.0	0.35	65.86	3087.8	4.94	59.28
576.6	0.38	60.92	1224.2	0.32	82.50	1845.6	3.53	73.54	2465.2	0.55	65.65	3088.0	5.92	59.49
576.8	0.40	62.01	1224.4	0.38	82.08	1845.8	3.09	73.45	2465.4	0.39	64.80	3088.2	6.13	59.65
577.0	0.39	63.08	1224.6	0.38	82.04	1846.0	2.58	73.14	2465.6	0.40	64.15	3088.4	6.25	59.88
577.2	0.38	63.93	1224.8	0.31	82.73	1846.2	2.49	72.81	2465.8	0.40	64.08	3088.6	6.74	60.31
577.4	0.40	64.42	1225.0	0.31	84.33	1846.4	2.23	72.64	2466.0	0.30	64.16	3088.8	6.46	60.93
577.6	0.40	64.55	1225.2	0.36	86.77	1846.6	2.76	72.73	2466.2	0.47	63.58	3089.0	6.60	61.57
577.8	0.40	64.43	1225.4	0.40	89.69	1846.8	2.36	73.00	2466.4	0.46	61.80	3089.2	6.44	61.91
578.0	0.35	64.23	1225.6	0.30	92.32	1847.0	2.71	73.33	2466.6	0.42	59.04	3089.4	6.92	61.75
578.2	0.40	64.06	1225.8	0.40	93.84	1847.2	3.32	73.57	2466.8	0.43	56.16	3089.6	6.06	61.05
578.4	0.40	63.92	1226.0	0.38	93.80	1847.4	3.09	73.59	2467.0	0.45	54.11	3089.8	5.53	59.99
578.6	0.41	63.76	1226.2	0.33	92.31	1847.6	2.42	73.32	2467.2	0.42	53.46	3090.0	5.51	58.93
578.8	0.43	63.50	1226.4	0.38	89.97	1847.8	1.55	72.75	2467.4	0.42	54.26	3090.2	5.64	58.20
579.0	0.37	63.20	1226.6	0.29	87.55	1848.0	2.22	71.87	2467.6	0.46	56.12	3090.4	6.09	57.92
579.2	0.34	62.97	1226.8	0.31	85.66	1848.2	2.50	70.78	2467.8	0.46	58.54	3090.6	6.35	58.06
579.4	0.38	62.89	1227.0	0.40	84.49	1848.4	2.63	69.65	2468.0	0.44	60.91	3090.8	6.02	58.42
579.6	0.43	62.95	1227.2	0.33	83.91	1848.6	2.40	68.66	2468.2	0.45	62.52	3091.0	6.87	58.75
579.8	0.41	63.01	1227.4	0.33	83.65	1848.8	2.46	67.92	2468.4	0.54	62.82	3091.2	6.07	58.89
580.0	0.44	62.93	1227.6	0.36	83.62	1849.0	2.61	67.51	2468.6	0.46	61.73	3091.4	4.79	58.82
580.2	0.41	62.66	1227.8	0.33	83.88	1849.2	2.74	67.53	2468.8	0.47	59.57	3091.6	5.33	58.58
580.4	0.43	62.31	1228.0	0.33	84.68	1849.4	2.29	68.08	2469.0	0.43	57.08	3091.8	3.89	58.29
580.6	0.41	62.13	1228.2	0.39	86.17	1849.6	2.53	69.18	2469.2	0.48	55.14	3092.0	5.02	58.08
580.8	0.42	62.30	1228.4	0.34	88.22	1849.8	2.38	70.72	2469.4	0.44	54.44	3092.2	4.28	58.08
581.0	0.47	62.86	1228.6	0.35	90.39	1850.0	2.60	72.48	2469.6	0.44	55.30	3092.4	3.71	58.32
581.2	0.47	63.60	1228.8	0.37	92.20	1850.2	2.75	74.10	2469.8	0.49	57.62	3092.6	5.18	58.76
581.4	0.42	64.18	1229.0	0.34	93.28	1850.4	2.42	75.23	2470.0	0.77	60.76	3092.8	3.77	59.26
581.6	0.43	64.34	1229.2	0.38	93.49	1850.6	3.09	75.68	2470.2	0.83	63.81	3093.0	3.97	59.63
581.8	0.33	64.01	1229.4	0.38	92.86	1850.8	2.93	75.43	2470.4	0.98	65.88	3093.2	5.12	59.67
582.0	0.42	63.29	1229.6	0.38	91.60	1851.0	2.98	74.62	2470.6	0.88	66.40	3093.4	6.24	59.30
582.2	0.37	62.48	1229.8	0.39	90.04	1851.2	2.78	73.52	2470.8	0.83	65.29	3093.6	5.04	58.61
582.4	0.35	61.97	1230.0	0.43	88.44	1851.4	2.91	72.35	2471.0	0.58	63.00	3093.8	4.07	57.86
582.6	0.35	62.07	1230.2	0.27	87.01	1851.6	2.79	71.22	2471.2	0.63	60.29	3094.0	4.90	57.34
582.8	0.27	62.89	1230.4	0.34	85.99	1851.8	2.94	70.21	2471.4	0.53	57.87	3094.2	5.53	57.24
583.0	0.40	64.29	1230.6	0.31	85.58	1852.0	2.61	69.38	2471.6	0.63	56.24	3094.4	4.56	57.54
583.2	0.33	66.00	1230.8	0.32	85.79	1852.2	2.22	68.81	2471.8	0.53	55.63	3094.6	5.50	57.98
583.4	0.27	67.57	1231.0	0.33	86.44	1852.4	0.73	68.46	2472.0	0.62	56.06	3094.8	2.22	58.29
583.6	0.36	68.65	1231.2	0.37	87.16	1852.6	1.14	68.29	2472.2	0.55	57.49	3095.0	1.88	58.30
583.8	0.44	69.19	1231.4	0.36	87.41	1852.8	1.04	68.23	2472.4	0.53	59.77	3095.2	2.65	58.03
584.0	0.38	69.35	1231.6	0.39	86.86	1853.0	1.03	68.18	2472.6	0.60	62.49	3095.4	3.48	57.71
584.2	0.49	69.41	1231.8	0.32	85.57	1853.2	0.87	68.11	2472.8	0.68	65.00	3095.6	3.88	57.57
584.4	0.37	69.73	1232.0	0.28	83.89	1853.4	1.28	68.00	2473.0	0.68	66.69	3095.8	2.65	57.72

586.4	0.32	61.96	1234.0	0.33	82.68	1855.4	3.42	75.66	2475.0	0.59	55.87	3097.8	5.33	57.57
586.6	0.30	60.28	1234.2	0.30	82.12	1855.6	2.89	76.33	2475.2	0.57	55.48	3098.0	5.60	57.24
586.8	0.32	59.24	1234.4	0.26	81.48	1855.8	3.36	77.11	2475.4	0.58	55.19	3098.2	4.82	57.17
587.0	0.28	58.39	1234.6	0.28	81.00	1856.0	2.75	78.71	2475.6	0.53	54.99	3098.4	5.20	57.30
587.2	0.27	57.40	1234.8	0.24	80.76	1856.2	3.11	81.25	2475.8	0.52	54.92	3098.6	4.79	57.53
587.4	0.23	56.17	1235.0	0.29	80.78	1856.4	4.10	84.15	2476.0	0.62	54.96	3098.8	5.16	57.76
587.6	0.27	54.85	1235.2	0.34	80.96	1856.6	2.92	86.22	2476.2	0.52	55.07	3099.0	5.70	57.96
587.8	0.25	53.72	1235.4	0.31	81.16	1856.8	2.00	86.32	2476.4	0.53	55.17	3099.2	6.57	58.06
588.0	0.25	53.01	1235.6	0.31	81.32	1857.0	2.34	84.00	2476.6	0.55	55.14	3099.4	5.42	58.05
588.2	0.26	52.70	1235.8	0.31	81.47	1857.2	2.07	79.87	2476.8	0.53	54.93	3099.6	3.25	57.91
588.4	0.23	52.66	1236.0	0.33	81.67	1857.4	1.98	75.17	2477.0	0.51	54.51	3099.8	3.04	57.65
588.6	0.26	52.67	1236.2	0.26	82.05	1857.6	1.93	71.17	2477.2	0.53	53.95	3100.0	2.73	57.28
588.8	0.30	52.58	1236.4	0.34	82.67	1857.8	1.66	68.63	2477.4	0.42	53.37	3100.2	2.16	56.92
589.0	0.24	52.35	1236.6	0.34	83.47	1858.0	2.03	67.67	2477.6	0.49	52.93	3100.4	3.26	56.67
589.2	0.26	52.04	1236.8	0.33	84.45	1858.2	1.73	67.78	2477.8	0.46	52.72	3100.6	2.55	56.63
589.4	0.30	51.80	1237.0	0.34	85.63	1858.4	1.65	68.32	2478.0	0.48	52.72	3100.8	2.36	56.82
589.6	0.21	51.71	1237.2	0.34	86.98	1858.6	1.52	68.92	2478.2	0.42	52.81	3101.0	4.52	57.23
589.8	0.25	51.77	1237.4	0.26	88.38	1858.8	1.27	69.36	2478.4	0.48	52.81	3101.2	5.30	57.75
590.0	0.29	51.91	1237.6	0.35	89.76	1859.0	1.39	69.64	2478.6	0.45	52.60	3101.4	6.17	58.22
590.2	0.26	52.07	1237.8	0.39	91.08	1859.2	1.29	69.91	2478.8	0.45	52.12	3101.6	4.20	58.54
590.4	0.24	52.28	1238.0	0.35	92.18	1859.4	1.39	70.31	2479.0	0.41	51.52	3101.8	4.67	58.63
590.6	0.27	52.64	1238.2	0.40	92.95	1859.6	1.46	70.83	2479.2	0.40	51.12	3102.0	5.07	58.46
590.8	0.30	53.22	1238.4	0.32	93.42	1859.8	1.40	71.32	2479.4	0.48	51.28	3102.2	4.92	58.11
591.0	0.23	53.98	1238.6	0.39	93.76	1860.0	1.18	71.50	2479.6	0.38	52.25	3102.4	4.89	57.73
591.2	0.31	54.82	1238.8	0.37	94.22	1860.2	1.20	71.14	2479.8	0.44	54.00	3102.6	3.16	57.48
591.4	0.32	55.57	1239.0	0.34	94.98	1860.4	1.20	70.32	2480.0	0.44	56.29	3102.8	1.39	57.56
591.6	0.34	56.19	1239.2	0.40	95.90	1860.6	1.05	69.41	2480.2	0.37	58.76	3103.0	1.16	58.07
591.8	0.29	56.74	1239.4	0.32	96.50	1860.8	1.24	68.78	2480.4	0.48	60.93	3103.2	1.86	58.93
592.0	0.24	57.30	1239.6	0.43	96.28	1861.0	1.39	68.61	2480.6	0.45	62.39	3103.4	3.15	59.92
592.2	0.27	57.84	1239.8	0.38	94.97	1861.2	1.46	68.87	2480.8	0.44	62.83	3103.6	4.68	60.72
592.4	0.26	58.29	1240.0	0.32	92.73	1861.4	1.38	69.46	2481.0	0.49	62.14	3103.8	5.13	61.04
592.6	0.32	58.50	1240.2	0.33	90.14	1861.6	1.67	70.21	2481.2	0.43	60.47	3104.0	5.71	60.76
592.8	0.29	58.40	1240.4	0.35	87.96	1861.8	1.52	71.03	2481.4	0.40	58.45	3104.2	4.46	59.99
593.0	0.31	58.10	1240.6	0.33	86.72	1862.0	1.54	71.85	2481.6	0.47	57.02	3104.4	3.24	59.02
593.2	0.34	57.79	1240.8	0.37	86.33	1862.2	1.55	72.49	2481.8	0.43	56.97	3104.6	3.36	58.18
593.4	0.33	57.60	1241.0	0.34	86.24	1862.4	2.13	72.72	2482.0	0.48	58.45	3104.8	2.49	57.69
593.6	0.32	57.49	1241.2	0.37	85.86	1862.6	2.64	72.35	2482.2	0.51	60.79	3105.0	1.63	57.57
593.8	0.33	57.36	1241.4	0.37	84.89	1862.8	2.33	71.41	2482.4	0.47	62.78	3105.2	2.94	57.67
594.0	0.32	57.07	1241.6	0.32	83.31	1863.0	1.87	70.13	2482.6	0.48	63.29	3105.4	4.55	57.75
594.2	0.26	56.57	1241.8	0.33	81.47	1863.2	2.17	68.86	2482.8	0.51	61.99	3105.6	5.41	57.71
594.4	0.28	56.00	1242.0	0.30	79.82	1863.4	1.87	67.92	2483.0	0.39	59.53	3105.8	5.00	57.57
594.6	0.31	55.48	1242.2	0.25	78.89	1863.6	1.73	67.37	2483.2	0.45	56.97	3106.0	4.11	57.55
594.8	0.32	55.09	1242.4	0.31	78.92	1863.8	1.90	67.04	2483.4	0.36	55.19	3106.2	4.03	57.82
595.0	0.30	54.82	1242.6	0.33	79.81	1864.0	1.91	66.75	2483.6	0.40	54.49	3106.4	5.32	58.42
595.2	0.32	54.61	1242.8	0.37	81.30	1864.2	1.92	66.53	2483.8	0.48	54.53	3106.6	5.45	59.28
595.4	0.35	54.36	1243.0	0.39	82.89	1864.4	1.25	66.49	2484.0	0.50	54.66	3106.8	7.15	60.26
595.6	0.29	53.99	1243.2	0.33	84.20	1864.6	0.99	66.71	2484.2	0.45	54.43	3107.0	6.70	61.24
595.8	0.31	53.51	1243.4	0.34	85.01	1864.8	1.13	67.15	2484.4	0.46	53.85	3107.2	7.09	62.11
596.0	0.29	52.96	1243.6	0.31	85.37	1865.0	1.54	67.71	2484.6	0.50	53.12	3107.4	6.00	62.72
596.2	0.28	52.42	1243.8	0.31	85.46	1865.2	1.31	68.20	2484.8	0.43	52.43	3107.6	5.49	62.90
596.4	0.28	52.06	1244.0	0.38	85.56	1865.4	0.97	68.62	2485.0	0.43	51.87	3107.8	3.86	62.54
596.6	0.28	51.98	1244.2	0.34	85.86	1865.6	1.24	69.08	2485.2	0.40	51.41	3108.0	2.76	61.70
596.8	0.26	52.24	1244.4	0.33	86.35	1865.8	1.05	70.47	2485.4	0.39	50.94	3108.2	2.67	60.59
597.0	0.28	52.79	1244.6	0.31	86.89	1866.0	1.03	74.28	2485.6	0.45	50.38	3108.4	2.77	59.50
597.2	0.23	53.48	1244.8	0.35	87.33	1866.2	1.12	81.56	2485.8	0.44	49.81	3108.6	4.69	58.71
597.4	0.28	54.06	1245.0	0.33	87.72	1866.4	0.68	91.77	2486.0	0.40	49.38	3108.8	4.96	58.38
597.6	0.28	54.42	1245.2	0.29	88.08	1866.6	0.87	102.54	2486.2	0.42	49.28	3109.0	5.84	58.53
597.8	0.24	54.66	1245.4	0.36	88.38	1866.8	0.54	110.63	2486.4	0.41	49.79	3109.2	5.70	59.05
598.0	0.29	55.06	1245.6	0.40	88.52	1867.0	0.66	113.19	2486.6	0.37	51.27	3109.4	5.01	59.80
598.2	0.24	56.02	1245.8	0.33	88.33	1867.2	1.11	109.51	2486.8	0.46	53.87	3109.6	5.47	60.56
598.4	0.30	57.87	1246.0	0.37	87.69	1867.4	1.27	101.30	2487.0	0.55	57.42	3109.8	4.78	61.11
598.6	0.33	60.56	1246.2	0.33	86.60	1867.6	1.12	91.62	2487.2	0.48	61.38	3110.0	4.78	61.29
598.8	0.33	63.54	1246.4	0.33	85.26	1867.8	1.02	83.18	2487.4	0.50	64.99	3110.2	2.85	61.07
599.0	0.29	67.21	1246.6	0.34	83.93	1868.0	0.89	77.30	2487.6	0.56	67.43	3110.4	2.42	60.63
599.2	0.29	73.69	1246.8	0.33	82.88	1868.2	1.22	73.70	2487.8	0.60	68.22	3110.6	4.19	60.30
599.4	0.25	85.04	1247.0	0.35	82.17	1868.4	0.68	71.20	2488.0	0.65	67.38	3110.8	4.80	60.32
599.6	0.31	101.16	1247.2	0.36	81.80	1868.6	0.91	69.05	2488.2	0.62	65.33	3111.0	5.93	60.74
599.8	0.27	118.78	1247.4	0.33	81.66	1868.8	0.99	67.30	2488.4	0.55	62.68	3111.2	6.39	61.36
600.0	0.30	132.08	1247.6	0.33	81.70	1869.0	0.90	66.25	2488.6	0.53	60.07	3111.4	5.34	61.75
600.2	0.25	135.37	1247.8	0.32	81.99	1869.2	0.79	65.88	2488.8	0.50	57.96	3111.6	3.88	61.55
600.4	0.36	126.58	1248.0	0.28	82.53	1869.4	0.72	65.95	2489.0	0.49	56.52	3111.8	3.80	60.66
600.6	0.32	108.68	1248.2	0.27	83.29	1869.6	0.78	66.09	2489.2	0.42	55.78	3112.0	4.01</td	

602.6	0.37	53.25	1250.2	0.30	77.15	1871.6	0.51	63.39	2491.2	0.45	53.27	3114.0	4.63	59.19
602.8	0.39	53.87	1250.4	0.32	78.48	1871.8	0.41	63.11	2491.4	0.40	52.93	3114.2	3.68	59.68
603.0	0.36	54.49	1250.6	0.30	80.88	1872.0	0.34	62.38	2491.6	0.47	52.52	3114.4	2.90	60.35
603.2	0.42	55.06	1250.8	0.31	83.79	1872.2	0.30	61.31	2491.8	0.41	52.08	3114.6	4.58	61.05
603.4	0.48	55.59	1251.0	0.31	86.35	1872.4	0.34	60.09	2492.0	0.40	51.67	3114.8	6.70	61.55
603.6	0.46	56.07	1251.2	0.30	87.77	1872.6	0.29	58.90	2492.2	0.41	51.34	3115.0	5.45	61.65
603.8	0.47	56.46	1251.4	0.31	87.64	1872.8	0.28	57.84	2492.4	0.45	51.10	3115.2	4.29	61.28
604.0	0.43	56.72	1251.6	0.28	86.08	1873.0	0.26	56.98	2492.6	0.42	51.02	3115.4	5.28	60.58
604.2	0.56	56.79	1251.8	0.27	83.71	1873.2	0.29	56.33	2492.8	0.41	51.84	3115.6	4.63	59.77
604.4	0.54	56.71	1252.0	0.26	81.39	1873.4	0.28	55.91	2493.0	0.45	54.56	3115.8	5.11	59.11
604.6	0.48	56.57	1252.2	0.25	79.90	1873.6	0.26	55.75	2493.2	0.45	59.45	3116.0	5.31	58.85
604.8	0.42	56.49	1252.4	0.24	79.74	1873.8	0.22	55.72	2493.4	0.48	65.67	3116.2	5.77	59.05
605.0	0.51	56.55	1252.6	0.29	81.07	1874.0	0.18	55.65	2493.6	0.44	71.34	3116.4	5.99	59.66
605.2	0.62	56.73	1252.8	0.31	83.63	1874.2	0.20	55.51	2493.8	0.31	74.35	3116.6	5.85	60.55
605.4	0.67	56.93	1253.0	0.31	86.79	1874.4	0.21	55.36	2494.0	0.48	73.34	3116.8	5.49	61.57
605.6	0.52	57.07	1253.2	0.33	89.76	1874.6	0.27	55.20	2494.2	0.45	68.81	3117.0	5.39	62.44
605.8	0.55	57.08	1253.4	0.34	91.86	1874.8	0.27	55.00	2494.4	0.46	62.65	3117.2	4.27	62.92
606.0	0.54	56.99	1253.6	0.30	92.86	1875.0	0.24	54.67	2494.6	0.50	57.06	3117.4	3.04	62.85
606.2	0.56	56.83	1253.8	0.30	92.86	1875.2	0.18	54.32	2494.8	0.38	53.48	3117.6	2.80	62.18
606.4	0.57	56.67	1254.0	0.37	92.33	1875.4	0.18	54.43	2495.0	0.45	52.23	3117.8	3.03	60.98
606.6	0.47	56.54	1254.2	0.35	91.75	1875.6	0.17	55.69	2495.2	0.38	52.72	3118.0	2.91	59.54
606.8	0.52	56.52	1254.4	0.33	91.36	1875.8	0.17	58.42	2495.4	0.44	54.08	3118.2	2.83	58.13
607.0	0.59	56.72	1254.6	0.35	91.22	1876.0	0.15	62.09	2495.6	0.48	55.89	3118.4	2.03	57.00
607.2	0.63	57.16	1254.8	0.31	91.28	1876.2	0.16	65.41	2495.8	0.47	57.82	3118.6	1.82	56.23
607.4	0.65	57.81	1255.0	0.30	91.42	1876.4	0.15	66.95	2496.0	0.47	59.39	3118.8	1.57	55.91
607.6	0.69	58.60	1255.2	0.41	91.53	1876.6	0.16	65.89	2496.2	0.48	60.09	3119.0	1.49	55.88
607.8	0.81	59.36	1255.4	0.35	91.50	1876.8	0.16	62.62	2496.4	0.51	59.59	3119.2	1.36	55.96
608.0	0.72	59.91	1255.6	0.37	91.31	1877.0	0.15	58.51	2496.6	0.42	58.03	3119.4	1.95	56.08
608.2	0.59	60.15	1255.8	0.38	91.05	1877.2	0.18	55.06	2496.8	0.45	55.86	3119.6	2.58	56.16
608.4	0.71	60.02	1256.0	0.36	90.82	1877.4	0.15	53.13	2497.0	0.41	53.62	3119.8	2.08	56.12
608.6	0.70	59.61	1256.2	0.35	90.70	1877.6	0.17	52.73	2497.2	0.46	51.76	3120.0	1.39	55.91
608.8	0.67	59.13	1256.4	0.35	90.72	1877.8	0.16	53.24	2497.4	0.48	50.57	3120.2	1.57	55.61
609.0	0.70	59.52	1256.6	0.34	90.63	1878.0	0.18	53.95	2497.6	0.37	50.05	3120.4	1.73	55.36
609.2	0.65	61.73	1256.8	0.33	90.16	1878.2	0.16	54.42	2497.8	0.37	50.06	3120.6	1.94	55.42
609.4	0.75	66.04	1257.0	0.36	89.15	1878.4	0.14	54.56	2498.0	0.33	50.52	3120.8	1.53	55.99
609.6	0.83	71.85	1257.2	0.35	87.68	1878.6	0.14	54.46	2498.2	0.50	51.28	3121.0	1.57	57.07
609.8	0.76	77.49	1257.4	0.27	86.13	1878.8	0.16	54.37	2498.4	0.50	52.12	3121.2	2.56	58.51
610.0	0.39	80.96	1257.6	0.33	84.92	1879.0	0.17	54.51	2498.6	0.44	52.88	3121.4	3.70	60.10
610.2	0.67	80.98	1257.8	0.30	84.37	1879.2	0.16	54.94	2498.8	0.51	53.47	3121.6	4.75	61.57
610.4	0.56	77.80	1258.0	0.31	84.47	1879.4	0.17	55.52	2499.0	0.48	53.90	3121.8	4.77	62.72
610.6	0.67	72.78	1258.2	0.36	84.96	1879.6	0.18	55.94	2499.2	0.54	54.22	3122.0	4.10	63.53
610.8	0.62	67.73	1258.4	0.33	85.54	1879.8	0.17	55.92	2499.4	0.49	54.58	3122.2	4.53	64.02
611.0	0.71	63.91	1258.6	0.34	85.93	1880.0	0.15	55.44	2499.6	0.48	55.15	3122.4	3.92	64.25
611.2	0.70	61.76	1258.8	0.31	86.04	1880.2	0.16	54.70	2499.8	0.55	56.18	3122.6	5.48	64.26
611.4	0.70	60.73	1259.0	0.31	85.86	1880.4	0.16	54.01	2500.0	0.52	57.97	3122.8	5.21	64.06
611.6	0.59	60.02	1259.2	0.34	85.51	1880.6	0.13	53.60	2500.2	0.57	60.66	3123.0	4.96	63.64
611.8	0.69	59.37	1259.4	0.39	85.06	1880.8	0.17	53.47	2500.4	0.58	63.97	3123.2	2.84	63.01
612.0	0.74	58.63	1259.6	0.38	84.57	1881.0	0.13	53.45	2500.6	0.60	67.25	3123.4	5.11	62.32
612.2	0.65	57.86	1259.8	0.35	84.24	1881.2	0.16	53.41	2500.8	0.71	69.68	3123.6	5.01	61.75
612.4	0.57	57.17	1260.0	0.35	84.41	1881.4	0.13	53.36	2501.0	0.75	70.57	3123.8	3.02	61.52
612.6	0.66	56.66	1260.2	0.38	85.43	1881.6	0.15	53.43	2501.2	0.61	69.70	3124.0	2.46	61.83
612.8	0.73	56.41	1260.4	0.38	87.31	1881.8	0.15	53.68	2501.4	0.41	67.43	3124.2	4.43	62.61
613.0	0.53	56.40	1260.6	0.36	89.53	1882.0	0.17	54.06	2501.6	0.36	64.57	3124.4	4.96	63.52
613.2	0.65	56.56	1260.8	0.35	91.17	1882.2	0.17	54.39	2501.8	0.47	61.94	3124.6	5.30	64.14
613.4	0.49	56.74	1261.0	0.37	91.51	1882.4	0.16	54.52	2502.0	0.40	60.11	3124.8	4.83	64.19
613.6	0.61	56.79	1261.2	0.42	90.39	1882.6	0.20	54.40	2502.2	0.44	59.13	3125.0	4.85	63.69
613.8	0.64	56.65	1261.4	0.30	88.25	1882.8	0.17	54.14	2502.4	0.51	58.68	3125.2	4.73	62.88
614.0	0.49	56.41	1261.6	0.39	85.90	1883.0	0.17	53.97	2502.6	0.45	58.39	3125.4	3.72	62.06
614.2	0.65	56.15	1261.8	0.31	84.11	1883.2	0.19	54.08	2502.8	0.46	57.99	3125.6	4.21	61.36
614.4	0.66	55.91	1262.0	0.35	83.24	1883.4	0.16	54.57	2503.0	0.45	57.44	3125.8	4.04	60.76
614.6	0.62	55.74	1262.2	0.34	83.18	1883.6	0.19	55.32	2503.2	0.43	56.77	3126.0	3.93	60.14
614.8	0.60	55.58	1262.4	0.34	83.58	1883.8	0.20	56.15	2503.4	0.35	56.11	3126.2	3.72	59.47
615.0	0.65	55.42	1262.6	0.34	84.13	1884.0	0.21	56.83	2503.6	0.33	55.57	3126.4	3.58	58.82
615.2	0.55	55.26	1262.8	0.42	84.69	1884.2	0.22	57.28	2503.8	0.35	55.45	3126.6	3.24	58.31
615.4	0.62	55.15	1263.0	0.42	85.28	1884.4	0.24	57.52	2504.0	0.31	56.27	3126.8	3.05	58.03
615.6	0.62	55.16	1263.2	0.34	86.02	1884.6	0.18	57.64	2504.2	0.33	58.55	3127.0	3.24	58.00
615.8	0.69	55.30	1263.4	0.35	86.97	1884.8	0.18	57.71	2504.4	0.32	62.33	3127.2	3.89	58.14
616.0	0.55	55.56	1263.6	0.39	88.02	1885.0	0.20	57.69	2504.6	0.33	66.97	3127.4	3.22	58.37
616.2	0.58	55.83	1263.8	0.30	88.85	1885.2	0.23	57.48	2504.8	0.20	71.37	3127.6	3.48	58.63
616.4	0.58	55.95	1264.0	0.32	89.07	1885.4	0.18	56.95	2505.0	0.33	74.31	3127.8	2.85	58.87
616.6	0.68	55.84	1264.2	0.29	88.34	1885.6	0.18	56.09	2505.2	0.27	74.97	3128.0	4.49	59.06
616.8	0.63	55.49	1264.4	0.34	86.54	1885.8	0.17	55.00	2505.4	0.31	73.29	3128.2	2.45	59.22

618.8	0.73	64.02	1266.4	0.30	78.21	1887.8	0.16	52.97	2507.4	0.27	51.20	3130.2	1.26	58.37
619.0	0.65	64.11	1266.6	0.32	79.05	1888.0	0.18	51.54	2507.6	0.27	52.43	3130.4	0.80	57.85
619.2	0.60	63.93	1266.8	0.24	79.71	1888.2	0.16	50.20	2507.8	0.27	54.36	3130.6	0.99	57.54
619.4	0.80	63.63	1267.0	0.31	80.32	1888.4	0.17	49.14	2508.0	0.27	56.53	3130.8	1.17	57.46
619.6	0.81	63.31	1267.2	0.27	80.91	1888.6	0.16	48.42	2508.2	0.23	58.12	3131.0	1.16	57.55
619.8	0.71	63.11	1267.4	0.26	81.39	1888.8	0.16	47.99	2508.4	0.26	58.38	3131.2	1.28	57.71
620.0	0.64	63.16	1267.6	0.29	81.72	1889.0	0.15	47.72	2508.6	0.33	57.06	3131.4	1.33	57.83
620.2	0.64	63.42	1267.8	0.33	81.81	1889.2	0.19	47.56	2508.8	0.22	54.55	3131.6	1.21	57.90
620.4	0.72	63.78	1268.0	0.30	81.61	1889.4	0.14	47.52	2509.0	0.25	51.74	3131.8	1.41	57.94
620.6	0.63	64.07	1268.2	0.25	81.20	1889.6	0.13	47.59	2509.2	0.28	49.54	3132.0	1.39	57.98
620.8	0.64	64.17	1268.4	0.27	80.73	1889.8	0.17	47.72	2509.4	0.27	48.50	3132.2	1.57	57.98
621.0	0.65	64.08	1268.6	0.24	80.35	1890.0	0.17	47.88	2509.6	0.25	48.64	3132.4	1.27	57.92
621.2	0.76	63.84	1268.8	0.28	80.17	1890.2	0.15	48.07	2509.8	0.28	49.47	3132.6	1.31	57.80
621.4	0.77	63.50	1269.0	0.25	80.36	1890.4	0.16	48.43	2510.0	0.28	50.38	3132.8	1.73	57.66
621.6	0.62	63.02	1269.2	0.31	81.12	1890.6	0.14	49.23	2510.2	0.29	50.98	3133.0	0.98	57.57
621.8	0.72	62.34	1269.4	0.28	82.44	1890.8	0.14	50.67	2510.4	0.30	51.12	3133.2	1.01	57.53
622.0	0.71	61.51	1269.6	0.32	84.10	1891.0	0.16	52.68	2510.6	0.29	50.83	3133.4	0.99	57.46
622.2	0.54	60.67	1269.8	0.27	85.60	1891.2	0.17	54.88	2510.8	0.23	50.35	3133.6	0.88	57.28
622.4	0.62	60.04	1270.0	0.29	86.33	1891.4	0.18	56.72	2511.0	0.26	49.93	3133.8	0.80	56.89
622.6	0.56	59.69	1270.2	0.29	85.97	1891.6	0.18	57.73	2511.2	0.26	50.12	3134.0	0.54	56.26
622.8	0.63	59.52	1270.4	0.27	84.86	1891.8	0.19	57.76	2511.4	0.25	51.62	3134.2	0.70	55.44
623.0	0.64	59.31	1270.6	0.30	83.79	1892.0	0.16	57.11	2511.6	0.30	54.77	3134.4	0.65	54.52
623.2	0.56	58.87	1270.8	0.29	83.65	1892.2	0.19	56.25	2511.8	0.30	59.51	3134.6	0.75	53.59
623.4	0.63	58.16	1271.0	0.27	85.00	1892.4	0.17	55.60	2512.0	0.32	65.20	3134.8	0.34	52.72
623.6	0.51	57.38	1271.2	0.27	87.73	1892.6	0.18	55.29	2512.2	0.26	70.59	3135.0	0.38	51.98
623.8	0.66	56.81	1271.4	0.29	91.02	1892.8	0.18	55.19	2512.4	0.31	74.27	3135.2	0.35	51.43
624.0	0.62	56.58	1271.6	0.24	93.68	1893.0	0.18	55.03	2512.6	0.25	75.35	3135.4	0.40	51.05
624.2	0.61	56.73	1271.8	0.25	94.85	1893.2	0.20	54.58	2512.8	0.25	73.77	3135.6	0.29	50.82
624.4	0.58	57.11	1272.0	0.25	94.18	1893.4	0.18	53.84	2513.0	0.25	70.06	3135.8	0.31	50.73
624.6	0.72	57.54	1272.2	0.30	91.90	1893.6	0.16	52.89	2513.2	0.34	65.25	3136.0	0.31	50.72
624.8	0.64	57.89	1272.4	0.26	88.80	1893.8	0.16	51.81	2513.4	0.27	60.47	3136.2	0.26	50.73
625.0	0.51	58.14	1272.6	0.27	85.86	1894.0	0.16	50.73	2513.6	0.34	56.73	3136.4	0.34	50.65
625.2	0.55	58.29	1272.8	0.27	83.78	1894.2	0.14	49.76	2513.8	0.32	54.57	3136.6	0.36	50.36
625.4	0.51	58.36	1273.0	0.27	82.78	1894.4	0.17	49.03	2514.0	0.27	54.10	3136.8	0.34	49.72
625.6	0.44	58.42	1273.2	0.28	82.64	1894.6	0.15	48.69	2514.2	0.28	54.89	3137.0	0.28	48.69
625.8	0.56	58.50	1273.4	0.27	82.94	1894.8	0.16	48.83	2514.4	0.30	55.95	3137.2	0.20	47.34
626.0	0.54	58.60	1273.6	0.29	83.72	1895.0	0.15	49.53	2514.6	0.34	56.42	3137.4	0.13	45.80
626.2	0.52	58.66	1273.8	0.22	85.55	1895.2	0.16	50.82	2514.8	0.30	55.86	3137.6	0.14	44.29
626.4	0.50	58.66	1274.0	0.24	88.73	1895.4	0.18	52.56	2515.0	0.32	54.38	3137.8	0.11	43.07
626.6	0.61	58.54	1274.2	0.26	92.85	1895.6	0.18	54.36	2515.2	0.31	52.46	3138.0	0.08	42.31
626.8	0.60	58.32	1274.4	0.23	96.73	1895.8	0.17	55.68	2515.4	0.28	50.70	3138.2	0.08	42.07
627.0	0.53	58.11	1274.6	0.26	99.02	1896.0	0.17	56.00	2515.6	0.29	49.41	3138.4	0.07	42.24
627.2	0.56	58.08	1274.8	0.27	98.92	1896.2	0.18	55.06	2515.8	0.32	48.64	3138.6	0.08	42.56
627.4	0.48	58.31	1275.0	0.25	96.78	1896.4	0.15	53.01	2516.0	0.33	48.20	3138.8	0.11	42.75
627.6	0.55	58.84	1275.2	0.28	93.82	1896.6	0.14	50.42	2516.2	0.29	48.13	3139.0	0.09	42.63
627.8	0.55	59.59	1275.4	0.25	91.36	1896.8	0.12	48.00	2516.4	0.29	49.06	3139.2	0.08	42.20
628.0	0.59	60.42	1275.6	0.33	90.09	1897.0	0.11	46.30	2516.6	0.31	51.64	3139.4	0.08	41.59
628.2	0.53	61.18	1275.8	0.30	89.70	1897.2	0.11	45.56	2516.8	0.35	56.04	3139.6	0.06	40.99
628.4	0.32	61.84	1276.0	0.28	89.41	1897.4	0.12	45.61	2517.0	0.34	61.58	3139.8	0.08	40.48
628.6	0.57	62.46	1276.2	0.30	88.61	1897.6	0.13	46.04	2517.2	0.36	66.86	3140.0	0.10	40.05
628.8	0.62	63.17	1276.4	0.29	87.41	1897.8	0.14	46.51	2517.4	0.28	70.30	3140.2	0.10	39.63
629.0	0.47	64.13	1276.6	0.34	86.28	1898.0	0.16	46.84	2517.6	0.40	70.92	3140.4	0.07	39.18
629.2	0.62	65.45	1276.8	0.23	85.64	1898.2	0.13	46.99	2517.8	0.41	68.94	3140.6	0.06	38.72
629.4	0.62	67.06	1277.0	0.27	85.60	1898.4	0.17	47.06	2518.0	0.41	65.60	3140.8	0.06	38.34
629.6	0.68	68.70	1277.2	0.24	85.87	1898.6	0.14	47.16	2518.2	0.46	62.38	3141.0	0.05	38.07
629.8	0.66	70.06	1277.4	0.28	86.07	1898.8	0.15	47.35	2518.4	0.42	60.27	3141.2	0.05	37.93
630.0	0.69	70.88	1277.6	0.30	85.90	1899.0	0.14	47.65	2518.6	0.33	59.38	3141.4	0.06	37.90
630.2	0.66	71.09	1277.8	0.28	85.24	1899.2	0.15	47.98	2518.8	0.39	59.10	3141.6	0.06	37.94
630.4	0.59	70.88	1278.0	0.28	84.17	1899.4	0.16	48.27	2519.0	0.41	58.68	3141.8	0.06	38.05
630.6	0.67	70.57	1278.2	0.30	82.93	1899.6	0.16	48.51	2519.2	0.42	57.87	3142.0	0.06	38.25
630.8	0.62	70.46	1278.4	0.27	81.70	1899.8	0.16	48.83	2519.4	0.41	56.82	3142.2	0.06	38.55
631.0	0.49	70.63	1278.6	0.28	80.47	1900.0	0.16	49.29	2519.6	0.41	55.90	3142.4	0.05	38.94
631.2	0.66	70.97	1278.8	0.27	79.24	1900.2	0.16	49.90	2519.8	0.49	55.44	3142.6	0.06	39.38
631.4	0.69	71.27	1279.0	0.27	78.10	1900.4	0.16	50.56	2520.0	0.41	55.54	3142.8	0.05	39.75
631.6	0.69	71.42	1279.2	0.28	77.26	1900.6	0.17	51.08	2520.2	0.52	56.05	3143.0	0.05	39.96
631.8	0.74	71.39	1279.4	0.25	76.95	1900.8	0.18	51.29	2520.4	0.59	56.68	3143.2	0.05	39.91
632.0	0.62	71.26	1279.6	0.25	77.43	1901.0	0.18	51.13	2520.6	0.50	57.15	3143.4	0.05	39.63
632.2	0.63	71.16	1279.8	0.30	78.87	1901.2	0.17	50.74	2520.8	0.63	57.40	3143.6	0.04	39.22
632.4	0.65	71.08	1280.0	0.34	81.24	1901.4	0.15	50.39	2521.0	0.55	57.51	3143.8	0.05	38.81
632.6	0.53	70.96	1280.2	0.30	84.25	1901.6	0.17	50.36	2521.2	0.52	57.64	3144.0	0.06	38.50
632.8	0.49	70.72	1280.4	0.29	87.41	1901.8	0.16	50.76	2521.4	0.63	57.88	3144.2	0.05	38.36
633.0	0.69	70.32	1280.6	0.31	90.17	1902.0	0.17	51.42	2521.6	0.68	58.18	3144.4	0.04	38.36

635.0	0.63	64.15	1282.6	0.34	96.69	1904.0	0.18	53.72	2523.6	0.69	59.17	3146.4	0.06	39.16
635.2	0.64	63.60	1282.8	0.37	94.08	1904.2	0.19	53.72	2523.8	0.77	58.53	3146.6	0.06	39.19
635.4	0.70	62.79	1283.0	0.38	91.66	1904.4	0.17	53.30	2524.0	0.64	57.73	3146.8	0.06	39.19
635.6	0.49	61.88	1283.2	0.32	89.77	1904.6	0.18	52.61	2524.2	0.64	57.78	3147.0	0.06	39.15
635.8	0.46	61.08	1283.4	0.36	88.36	1904.8	0.14	51.86	2524.4	0.67	59.94	3147.2	0.05	39.06
636.0	0.47	60.57	1283.6	0.35	87.11	1905.0	0.17	51.23	2524.6	0.60	64.85	3147.4	0.05	38.91
636.2	0.54	60.37	1283.8	0.35	85.57	1905.2	0.18	50.78	2524.8	0.57	72.00	3147.6	0.05	38.71
636.4	0.56	60.41	1284.0	0.31	83.53	1905.4	0.19	50.46	2525.0	0.34	79.44	3147.8	0.05	38.50
636.6	0.56	60.56	1284.2	0.32	81.17	1905.6	0.17	50.19	2525.2	0.18	84.55	3148.0	0.06	38.29
636.8	0.57	60.70	1284.4	0.33	79.02	1905.8	0.18	49.90	2525.4	0.40	85.30	3148.2	0.06	38.09
637.0	0.53	60.88	1284.6	0.31	77.81	1906.0	0.18	49.58	2525.6	0.60	81.59	3148.4	0.05	37.89
637.2	0.50	61.28	1284.8	0.29	78.36	1906.2	0.18	49.23	2525.8	0.62	75.02	3148.6	0.05	37.60
637.4	0.51	62.07	1285.0	0.28	81.17	1906.4	0.18	48.92	2526.0	0.50	68.03	3148.8	0.04	37.18
637.6	0.60	63.21	1285.2	0.30	86.25	1906.6	0.20	48.72	2526.2	0.53	62.57	3149.0	0.05	36.70
637.8	0.52	64.51	1285.4	0.42	93.17	1906.8	0.18	48.69	2526.4	0.55	59.49	3149.2	0.05	36.30
638.0	0.55	65.85	1285.6	0.52	100.99	1907.0	0.16	48.93	2526.6	0.52	58.25	3149.4	0.04	36.16
638.2	0.65	67.12	1285.8	0.70	108.51	1907.2	0.20	49.48	2526.8	0.53	57.75	3149.6	0.04	36.35
638.4	0.50	68.20	1286.0	0.80	114.82	1907.4	0.19	50.35	2527.0	0.58	57.51	3149.8	0.05	36.88
638.6	0.45	69.06	1286.2	0.76	119.54	1907.6	0.23	51.47	2527.2	0.62	57.34	3150.0	0.06	37.61
638.8	0.45	69.65	1286.4	0.86	122.83	1907.8	0.22	52.66	2527.4	0.61	57.37	3150.2	0.06	38.31
639.0	0.44	69.80	1286.6	0.90	125.22	1908.0	0.20	53.62	2527.6	0.48	57.73	3150.4	0.05	38.79
639.2	0.44	69.48	1286.8	0.91	127.07	1908.2	0.21	54.06	2527.8	0.60	58.49	3150.6	0.05	38.91
639.4	0.49	68.90	1287.0	0.89	128.28	1908.4	0.21	53.86	2528.0	0.53	59.54	3150.8	0.04	38.70
639.6	0.58	68.31	1287.2	0.88	128.41	1908.6	0.19	53.10	2528.2	0.49	60.64	3151.0	0.04	38.31
639.8	0.46	67.90	1287.4	0.93	127.01	1908.8	0.20	52.06	2528.4	0.43	61.60	3151.2	0.04	37.95
640.0	0.46	67.77	1287.6	0.79	124.00	1909.0	0.21	51.05	2528.6	0.48	62.42	3151.4	0.05	37.78
640.2	0.48	67.85	1287.8	0.99	119.66	1909.2	0.22	50.26	2528.8	0.44	63.24	3151.6	0.04	37.77
640.4	0.58	67.90	1288.0	0.81	114.71	1909.4	0.21	49.72	2529.0	0.51	64.30	3151.8	0.06	37.81
640.6	0.50	67.74	1288.2	0.89	109.95	1909.6	0.21	49.30	2529.2	0.50	65.76	3152.0	0.08	37.79
640.8	0.58	67.43	1288.4	0.80	105.80	1909.8	0.21	48.85	2529.4	0.62	67.42	3152.2	0.06	37.83
641.0	0.48	66.92	1288.6	0.82	102.35	1910.0	0.21	48.28	2529.6	0.56	68.95	3152.4	0.06	37.69
641.2	0.58	66.16	1288.8	0.77	99.53	1910.2	0.21	47.66	2529.8	0.59	70.15			
641.4	0.50	65.17	1289.0	0.99	97.23	1910.4	0.19	47.09	2530.0	0.61	71.37			
641.6	0.51	64.05	1289.2	0.85	95.33	1910.6	0.20	46.64	2530.2	0.64	73.09			
641.8	0.56	62.89	1289.4	0.62	93.98	1910.8	0.19	46.38	2530.4	0.52	75.51			
642.0	0.44	61.81	1289.6	0.58	93.29	1911.0	0.19	46.34	2530.6	0.51	78.30			
642.2	0.47	60.97	1289.8	0.59	93.21	1911.2	0.18	46.54	2530.8	0.55	80.52			
642.4	0.54	60.46	1290.0	0.68	93.56	1911.4	0.21	46.95	2531.0	0.44	81.18			
642.6	0.57	60.31	1290.2	0.66	94.09	1911.6	0.17	47.54	2531.2	0.52	79.87			
642.8	0.56	60.54	1290.4	0.61	94.48	1911.8	0.20	48.19	2531.4	0.48	77.00			
643.0	0.44	61.12	1290.6	0.57	94.48	1912.0	0.20	48.82	2531.6	0.49	73.46			
643.2	0.55	61.85	1290.8	0.63	94.07	1912.2	0.22	49.35	2531.8	0.39	70.14			
643.4	0.47	62.55	1291.0	0.59	93.43	1912.4	0.22	49.77	2532.0	0.50	67.51			
643.6	0.52	63.06	1291.2	0.64	92.79	1912.6	0.22	50.15	2532.2	0.49	65.56			
643.8	0.49	63.34	1291.4	0.50	92.30	1912.8	0.17	50.54	2532.4	0.40	64.07			
644.0	0.50	63.59	1291.6	0.48	92.16	1913.0	0.21	51.02	2532.6	0.44	62.89			
644.2	0.41	64.23	1291.8	0.48	92.47	1913.2	0.20	51.52	2532.8	0.38	62.08			
644.4	0.50	65.65	1292.0	0.60	93.26	1913.4	0.22	51.95	2533.0	0.35	61.61			
644.6	0.48	67.82	1292.2	0.56	94.51	1913.6	0.22	52.20	2533.2	0.45	61.37			
644.8	0.45	70.36	1292.4	0.52	96.02	1913.8	0.24	52.20	2533.4	0.40	61.20			
645.0	0.47	72.55	1292.6	0.60	97.46	1914.0	0.21	51.97	2533.6	0.39	61.02			
645.2	0.37	73.60	1292.8	0.51	98.50	1914.2	0.27	51.70	2533.8	0.41	60.85			

Table 10: Interstitial water chemistry for KNR197-4 cruise cores.

Core	Depth (m)	Ca (mM)	Mg (mM)	Alk (mM)	SO4 (mM)	Cl (mM)	$\delta^{18}\text{O}$ (‰)
CDH5	32.20	4.70	42.71	4.59	5.14	561.49	0.20
CDH5	29.28	3.95	44.65	5.91	0.32	558.67	-0.10
CDH5	27.72	4.21	44.65	6.70	0.00	560.55	-0.10
CDH5	26.16	4.12	44.26	5.17	0.00	564.31	0.01
CDH5	24.62	4.66	45.43	6.96	2.32	568.07	0.12
CDH5	21.52	4.57	45.82	7.72	0.00	568.07	0.35
CDH5	19.98	4.70	45.43	8.14	0.00	551.14	-0.08
CDH5	18.43	4.75	43.49	9.08	0.97	564.31	0.11
CDH5	16.89	4.80	49.78	12.33	0.00	565.25	0.29
CDH5	13.83	4.98	47.40	14.38	2.66	565.25	0.01
CDH5	12.30	5.49	49.38	12.38	0.38	569.95	-0.12
CDH5	10.76	6.53	50.59	14.85	3.45	570.89	0.06
CDH5	1.55	9.62	57.96	5.89	25.34	564.31	-0.06
CDH22	30.57	4.48	45.43	4.57	0.04	572.78	0.24
CDH22	29.15	4.93	40.80	6.65	0.56	562.43	0.13
CDH22	27.64	4.70	44.26	7.42	0.00	557.73	0.10
CDH22	26.07	5.12	46.22	9.96	0.00	560.55	0.08
CDH22	24.55	4.57	43.10	11.43	2.90	560.55	0.00

CDH22	22.96	5.86	45.43	12.85	1.71	564.31	0.02
CDH22	21.45	6.15	44.65	14.50	3.74	560.55	0.06
CDH22	19.87	6.39	48.59	15.67	0.18	556.79	0.03
CDH22	18.38	6.63	50.59	15.50	0.00	558.67	-0.02
CDH22	15.31	6.58	48.19	17.06	0.80	561.49	0.09
CDH22	10.69	6.43	50.19	21.73	0.60	554.91	-0.27
CDH22	9.51	7.07	48.19	19.25	1.16	543.62	-0.16
CDH22	7.61	8.16	53.83	15.48	14.53	556.79	0.19
CDH22	4.52	8.32	56.71	7.04	18.10	552.08	0.08
CDH22	1.45	9.62	60.06	4.09	23.96	560.55	-0.21
CDH43	34.98	4.43	44.26	4.75	3.70	556.79	0.24
CDH43	33.63	4.39	43.10	5.18	4.20	560.00	0.13
CDH43	32.05	4.80	41.95	6.75	0.00	561.49	0.13
CDH43	30.52	3.55	43.49	7.19	0.00	567.13	0.26
CDH43	28.99	4.39	45.82	7.88	0.00	552.08	0.36
CDH43	27.48	4.89	44.26	8.04	2.51	572.78	0.72
CDH43	25.93	4.75	45.82	9.74	1.10	575.60	0.48
CDH43	24.39	4.93	47.00	12.22	0.88	558.67	0.14
CDH43	22.89	5.53	46.22	13.10	1.22	562.43	0.30
CDH43	21.36	6.00	49.78	15.80	0.00	576.54	0.48
CDH43	19.83	6.10	48.59	18.28	0.72	558.67	0.26
CDH43	18.28	6.19	45.82	18.30	0.76	566.19	-0.18
CDH43	16.77	6.82	50.99	19.96	5.09	582.18	0.24
CDH43	15.27	5.86	48.99	20.07	0.95	576.54	0.58
CDH43	13.70	6.48	53.42	21.36	0.01	564.31	0.36
CDH43	12.17	7.11	55.88	20.17	2.69	586.88	0.55
CDH43	9.11	7.26	52.61	26.63	1.69	562.43	0.55
CDH43	6.04	7.81	54.65	17.66	11.57	558.67	0.20
CDH43	3.22	9.14	56.71	8.82	16.70	554.91	0.20
CDH51	26.40	5.35	44.65	10.28	0.00	560.55	0.45
CDH51	25.00	5.07	45.82	10.12	0.00	581.24	0.38
CDH51	23.46	4.80	47.00	12.58	0.62	575.60	-0.34
CDH51	21.91	5.12	47.00	15.64	0.00	558.67	0.76
CDH51	20.39	5.39	49.78	14.06	0.00	558.67	0.05
CDH51	18.86	5.58	45.43	15.54	0.00	559.61	0.15
CDH51	17.33	5.72	49.78	17.92	0.19	553.96	-0.12
CDH51	15.80	6.43	45.82	19.08	0.00	556.79	-0.02
CDH51	11.21	8.06	49.78	21.77	3.22	554.91	-0.02
CDH51	6.62	8.73	54.65	14.63	9.60	547.38	0.30
CDH51	2.04	9.04	56.30		23.77	551.14	-0.24
CDH53	32.54	4.08	45.04	5.34	0.25	572.78	0.20
CDH53	31.15	4.26	47.79	7.15	0.95	553.02	0.55
CDH53	29.62	4.70	46.22	7.28	5.21	564.31	0.59
CDH53	28.07	4.43	48.99	11.13	0.00	563.37	0.27
CDH53	24.55	4.52	45.43	12.10	0.00	566.19	0.42
CDH53	23.00	5.16	45.04	12.27	5.15	562.43	0.33
CDH53	10.75	7.46	51.80	19.53	11.44	557.73	0.11
CDH53	3.07	8.99	55.88	14.31	19.73	558.67	-0.05
CDH72	24.05	4.26	42.71	4.35	0.00	560.55	-0.08
CDH72	19.59	4.34	41.95	6.92	0.00	564.31	0.00
CDH72	14.99	6.24	44.26	15.60	3.31	556.79	0.08
CDH72	10.40	6.29	46.22	19.03	0.00	562.43	-0.18
CDH72	5.82	7.66	53.01	12.75	11.90	557.73	0.00
CDH72	1.23	9.41	55.88	6.53	17.13	545.50	-0.01
CDH79	32.19	9.62	60.90	2.93	26.93	561.49	0.33
CDH86	30.52	3.34	44.65	9.78	0.00	549.26	0.01

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Biography

Trevor Eaton Nace was born on May 13, 1985 on the island of Kauai, Hawaii. Growing up in Hawaii laid the foundation for Trevor's love of the outdoors and constant awe and curiosity of the surrounding world. At the age of 10, Trevor moved to Fayetteville, NC, then to Chapel Hill, NC the end of his sophomore year in high school. He attended the nearby University of North Carolina at Chapel Hill, studying geology and marine science and developing a love for Carolina basketball. Immediately after graduation from UNC, in the spring of 2008, Trevor started graduate school at Duke University, to the chagrin of many of his UNC friends. Graduate school at Duke University has provided Trevor the opportunity to travel to China, Tibet, Barbados, Brazil, Mexico, Hawaii and California. For Trevor, graduate school has been an incredible experience, both intellectually and personally.