

MOLYBDENUM, VANADIUM AND NICKEL COVARIATION AS AN INDICATOR OF
PALEO-REDOX CONDITIONS AND BASIN RESTRICTION WITHIN THE EAGLE FORD
FORMATION- IMPLICATIONS FOR THE INTERPRETATION OF VOLCANIC ASH
FERTILIZATION

A Thesis

by

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ABSTRACT

Trace metal analyses of organic carbon rich sediments yields an understanding of the paleoredox conditions at the time of deposition. The specific behaviors of V and Mo differ within strongly reducing versus weakly reducing conditions, allowing additional further classification of the redox conditions by including Ni as a proxy for organic matter flux.

Principal component analyses of V, Mo, and Ni yield four specific zones within the Eagle Ford core where the covariation of the trace metals is distinct. Redox zone I is interpreted as generally oxygenated, and dominates the upper Eagle Ford. Redox zone II is characterized as anoxic, and dominates the middle Eagle Ford. Redox zone III and IV are both characterized as euxinic, however, redox zone IV is hydrographically more restricted than redox zone III, reducing the enrichment of V and Mo. The transition from redox zone IV within the lower portion of the lower Eagle Ford through redox zone I within the upper Eagle Ford suggests an evolving basin morphology through time. As the sediments filled in the restricted accommodation space provided by the pre-existing basin morphology, circulation improved, allowing the redox potential of the water column to drive trace metal enrichment rather than hydrographic effects.

Interpretation of the effect of volcanic ash input to the water column on primary productivity was constrained by an understanding of the principal drivers of trace metal enrichment in the different redox zones of the Eagle Ford. Stark Ni enrichment within many of the ash beds located within redox zones II and III show a similarly large Mo enrichment. This relationship indicates that the input of volcanic ash to the water column enhanced primary productivity (spike in Ni), inducing strongly reducing, euxinic conditions (spike in Mo) compared to the surrounding areas. Stark Ni enrichment within redox zone IV ash beds do not

show the same magnitude of Mo enrichment, likely as a result of the hydrographic factors controlling Mo enrichment, which reduces the amount of Mo that can be deposited.

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NOMENCLATURE

Al	Aluminum
C/T	Cenomanian/Turonian
Cd	Cadmium
CO ₂	Carbon Dioxide
Cr	Chromium
Cu	Copper
DOP	Degree of pyritization
EF	Enrichment Factor
Fe	Iron
H ₂ S	Hydrogen Sulfide
Mn	Manganese
Mo	Molybdenum
Ni	Nickel
NIST	National Institute for Standards and Technology
OAE II	Oceanic Anoxic Event II
OM	Organic Matter
P	Phosphorus
ppm	Parts per million
Ti	Titanium
TOC	Total organic carbon
UV	Ultraviolet
V	Vanadium
Wt %	Weight percent

XRD	X-ray Diffraction
XRF	X-ray Fluorescence
Zn	Zinc

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1. INTRODUCTION

The application of trace metals to black shale research has seen an increase in the last decade as it is useful as a proxy for paleo-redox conditions at the time of deposition and, thus, a reliable indicator for the presence of preserved organic matter (Brumsack, 2006). Traditionally, trace metals have been used to determine differences between oxic, suboxic, anoxic, and euxinic conditions, but recent studies have even shown relationships between trace metal accumulations and hydrographic factors (e.g., limited deep water renewal) (Algeo, 2012; Tribovillard et al., 2006), as well as correlations of several trace metals to TOC (Tinnin, 2013).

Oxidation-reduction reactions can result in trace metal enrichments as a result of the differing solubilities of the variable valence species under oxygenated or oxygen-deficient waters, or as a result of differing redox conditions (Hillaire-Marcel and De Vernal, 2007). Redox-sensitive elements, which behave differently under oxic, anoxic or euxinic marine

Reaction	Energy Yield (kcal/mole CH ₂ O)
Aerobic Respiration	119.6
Denitrification	113.6
Manganese Respiration	98.4
Iron Respiration	50.4
Sulfate Reduction	24.4
Methane Fermentation	22.4

Table 1: Classical sequence of organic matter respiration and energy yield, adapted from Libes, 2011 and Li *et al.*, 2015. Bacteria consume the organic matter via various electron acceptors as shown.

environments, fall into two general categories: those for which valency varies according to the redox potential (Fe, Mn, Cr, Mo, U, Cu and V) and those for which valency does not vary, but which forms insoluble sulfides in the presence of H₂S (Ni, and Zn) (Calvert and Pedersen, 2007; Hillaire-Marcel and De Vernal, 2007).

Oxidation-reduction reactions progress in a well-defined sequence (Table 1). As the dissolved oxygen becomes depleted, the decomposition of the organic matter continues via alternate oxidant sources (Tribovillard *et al.*, 2006). The order of the reactions is dictated by the relative free energy gained from each microbial process (Froelich *et al.*, 1979), and generally progresses as follows: aerobic respiration, nitrate reduction, manganese reduction, iron reduction, sulphate reduction, and methanogenesis (Tribovillard *et al.*, 2006). The state of a marine environment has evolved over time into a somewhat ambiguous categorization. In an effort to align terms with straightforward definitions, this paper will use the following distinct classification scheme: Oxic, Anoxic, and Euxinic as defined in Table 2 and illustrated in Figure

Redox Class	H ₂ S Presence	[O ₂] in the bottom waters (ml O ₂ /l H ₂ O)
Oxic	No free H ₂ S in the water column	[O ₂] > .2
Anoxic	No free H ₂ S in the water column	0 > [O ₂] < .2
Euxinic	Free H ₂ S present in the water column	[O ₂] = 0

Table 2 Redox classification of depositional environments, adapted from Algeo and Tribovillard, 2009, Tyson and Pearson, 1991 and Tribovillard *et.al.*, 2006.

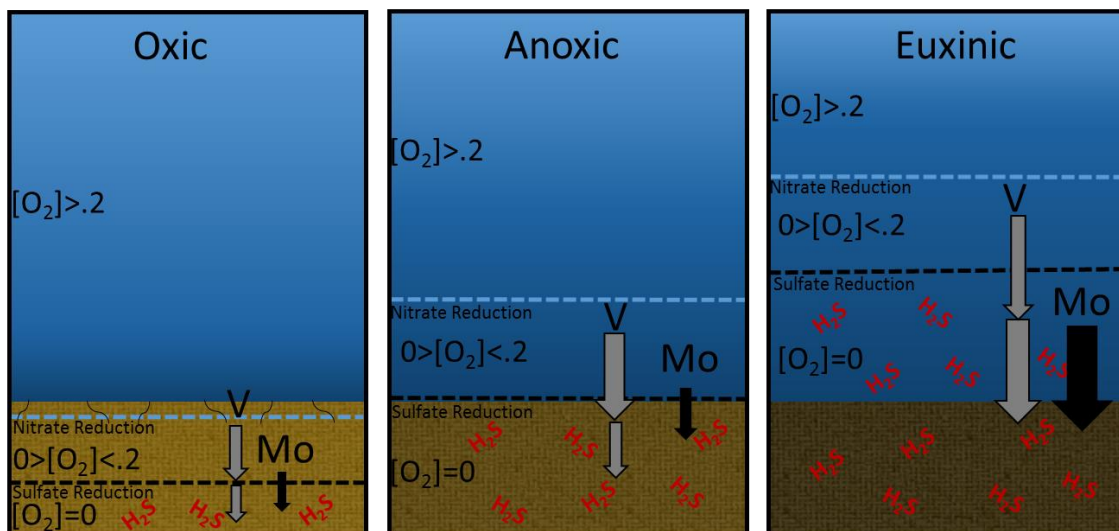


Figure 1 Schematic diagram of oxic, anoxic and euxinic conditions adapted from Algeo and Tribovillard, 2009, Tyson and Pearson, 1991, and Tribovillard, *et al.*, 2006. Classification of depositional environments.

1 (Tribovillard *et al.*, 2006; Tyson and Pearson, 1991).

The conditions favorable for trace metal enrichment are closely linked with the organic matter rain rate and subsequent respiration of that organic matter (Algeo and Lyons, 2006). As such, estimating the extent of surface water productivity can enhance understanding of the controls on trace metal enrichment. Iron has been shown to be a key limiting micro-nutrient in surface oceans potentially restricting marine primary productivity. Conventional thought supports iron supply to the surface ocean by way of atmospheric dust deposition. However, volcanic ash contains approximately 1-10% FeO by weight and represents another external and potentially significant source of natural iron fertilization (Abrajevitch, 2014; Duggen, 2007; Lanmann, 2010; Olgun *et al.*, 2013). Analysis of trace metal enrichment within the study area will enhance understanding of the paleo-redox conditions and controls at the time of deposition.

2. GEOLOGIC SETTING

The mid-lower Cretaceous was conducive to deposition of many hydrocarbon source rock intervals and accounts for approximately 29% of currently known petroleum source intervals, including the highly prolific Shilaif and Mishrif formations of the Middle East, the La Luna Formation of Venezuela and the Eagle Ford Shale of South Texas, the focus of this study (Klemme and Ulmishek, 1991).

The warm moist climate of the Cretaceous made this time period highly favorable for source rock deposition (Klemme and Ulmishek, 1991). Global eustatic sea level was high and there was an expansion of extensive tropical epicontinental seas (Miller *et al.*, 2005). Additionally, this time period is marked by the rise and rapid evolution of planktonic foraminifera and calcareous nannoplankton, as well as widespread volcanic activity potentially emitting high volumes of CO₂ into the atmosphere (Leckie *et al.*, 2002). This shift in the balance of the global carbon cycle, climate changes, and evolution caused an abundance of marine primary productivity and subsequent burial and preservation of organic carbon during the late Cretaceous and coinciding Oceanic Anoxic Event (OAE II) (Jenkyns, 2010; Leckie *et al.*, 2002).

Although many of the *global* controls that often lead to increased primary productivity and enhanced preservation dominate this time period, there are additional *local* controls on source rock deposition that can have a significant effect on the quality and richness of the interval, including effective nutrient renewal, preservation potential of both the water column and sediment-water interface, and sedimentation rate (Katz, 2005). The integrated chemostratigraphic approach of this study will afford a better understanding of the *local* variations through time, inherent in a complex marine system as they relate to the occurrence and preservation of trace metal enrichments.

2.1 Eagle Ford Shale Geology

The Eagle Ford Shale is a well-known black shale of South Texas, enriched in trace metals and with a high proportion of ash beds interbedded. It is a regionally expansive formation generally characterized as a mixed siliciclastic and carbonate mud rock that is enriched in organic carbon. It extends approximately 250 miles from the East Texas Basin near the Texas/Louisiana border and Sabine Uplift, south to the Rio Grande Embayment, near the Texas-Mexico border, and east to the Sligo and Edwards reef trends that served as the shelf margin and paleobathymetric highs during deposition (Donovan and Staerker, 2010). To the northeast, this

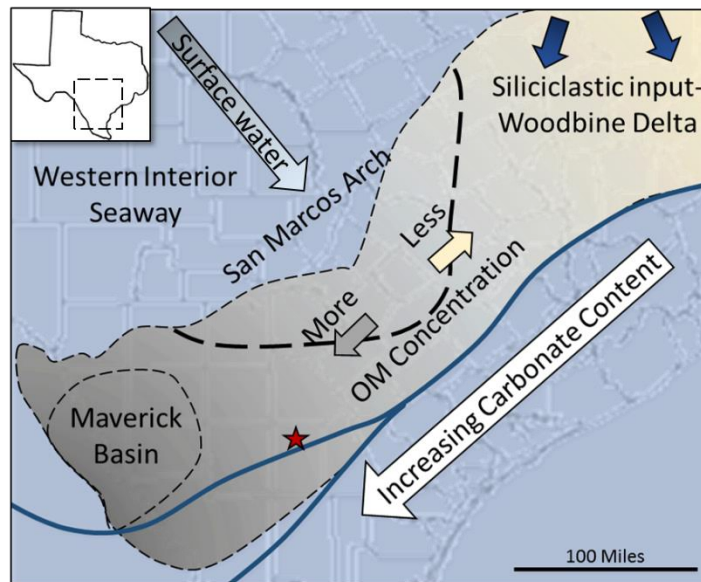


Figure 2 Map of the study area, adapted from Chesapeake, Inc (<http://eaglefordshale.com/geology/>), 2015. Geologic setting of the Eagle Ford Formation. Studied core shown by red star. Surface waters from Trabucho Alexandre *et al.*, 2010.

system is primarily dominated by siliciclastics as a result of proximity to the Woodbine Delta. The San Marcos Arch acts as a partial barrier to the input from the Woodbine Delta, resulting in a primarily carbonate dominated system to the southwest (Hentz and Ruppel, 2010). The study area was deposited at approximately 30° N latitude (Roberts and Kirschbaum, 1995) at the southern opening of the Western Interior Seaway on a shallow carbonate shelf (Hentz and Ruppel, 2010). Modeled surface water circulation from the Cretaceous suggests estuarine like circulation, with the surface waters moving from northwest to southeast, driven by the northeast trade winds (Trabucho Alexandre *et al.*, 2010) (Figure 2).

2.2 Cretaceous Volcanism

There is evidence of frequent and wide spread volcanism throughout the Cenomanian and Turonian including both the traditional volcanic eruptions producing ash as well as large submarine basaltic flows. The three dominant large igneous provinces (LIPs) of that time are the Caribbean and the Ontong Java LIPs, and the subaerial Madagascar flood basalt. The occurrence of these three LIPs within the relatively short period of geologic time likely caused elevated atmospheric CO₂ and hydrothermal Fe enrichment of the ocean, a proposed key driver for the Oceanic Anoxic Event II (OAE II) (Eldrett *et al.*, 2014; Mahoney *et al.*, 1993; Ramana *et al.*, 2001; Sinton *et al.*, 1998; Storey *et al.*, 1995; Tejada *et al.*, 1996). Although the magnitude of these geochemical changes is not well constrained, these LIPs undoubtedly had an effect on ocean chemistry and paleoclimate.

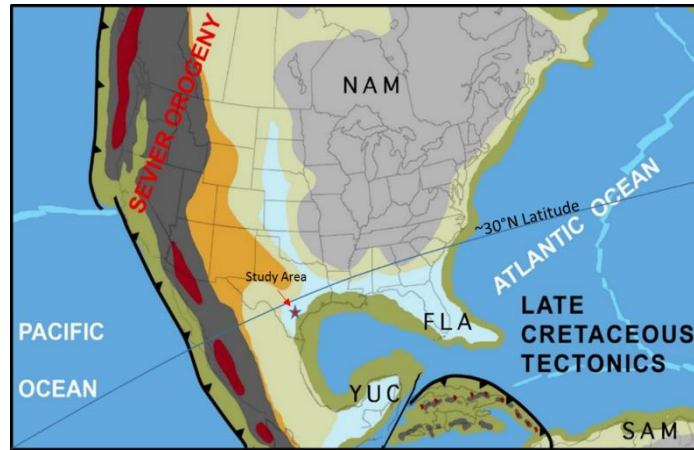


Figure 3 Map of the locations of active volcanic arcs during the late-Cretaceous adapted from Ron Blakey, Northern Arizona University, 2015. Estimation of the subduction zone volcanic arcs of the Sevier Orogeny and the Caribbean during the Late-Cretaceous.

There are extensive subduction zone volcanic arc provinces along both the western coast of what is now Mexico, as well as the Caribbean (Figure 3). Northeast trade winds could potentially prevent significant deposition of volcanic ash within the study area. However, Plinian and Sub-Plinian eruptions, which are common with subduction zone volcanic arcs, have the potential to erupt ash tens of kilometers into the stratosphere (Lockwood and Hazlett, 2013). Once within the stratosphere, the Hadley cell circulation patterns take over, depositing the ash over the study area, which sits at approximately 30°N latitude at the time of deposition (Frierson, 2007).

3. SAMPLE AND DATA COLLECTION METHODOLOGY

131 samples of the Eagle Ford formation within the Swenson #1H core were collected at approximately 30-cm intervals and homogeneously powdered for digestion. Approximately 80-90 mg of each sample were placed into individual Savillex (Teflon) beakers and grouped into rounds. Each round of samples was paired with a blank and the standard, National Institute for Standards and Technology (NIST) 2702 for quality control, and digested in their respective heated Savillex (Teflon) beakers using a combination of ultrapure hydrofluoric, perchloric, nitric, and hydrochloric acids, as well as hydrogen peroxide and aqua regia. Upon complete digestion, the samples were diluted in ultrapure 2% nitric acid, and trace, minor, and major elemental concentrations were measured by conventional ICP-MS analysis.

The methodology of digestion evolved over the course of the first three rounds as a result of the high volume of kerogen that was not digested using the traditional methodology. The nitric acid was effective in digesting the carbonate content, and the perchloric acid appeared to be effective at digesting short chain hydrocarbons. The hydrofluoric and nitric acids were effective in digesting the siliciclastic portion. After completion of the traditional method of digestion, the solution was black instead of clear for a majority of the samples, indicating the presence of undissolved kerogen. Continued repetition of HF was ineffective on this organic residue. However, addition of multiple iterations of alternating hydrogen peroxide and aqua regia succeeded at dissolving the residual kerogen. Two duplicate rounds of 15 samples each were chosen at random (with at least one from each round) and digested again with the final methodology to compare to the original results obtained. This resulted in an average reproducibility of 7.6%.

An AvaaTech X-ray Fluorescence (XRF) core scanner was used to obtain relative elemental abundances at a much higher sampling interval than is possible with traditional

complete digestion concentration analysis by ICP-MS. 49 meters of the Eagle Ford Shale core were irradiated with high energy X-rays at 5mm intervals. The energies of the return x-rays are measured and recorded as counts of the specific elements present within the sample interval.

In order to identify the location of the ash beds within the studied core, ultraviolet fluorescence was used. Based upon their bright orange/yellow glow under UV light, the beds were visually identified, and confirmed by their high Ti, Al, and Fe counts relative to the same counts in the surrounding marls. A total of 51 ash beds were identified ranging in thickness from approximately 0.05 cm to 5.5 cm.

4. RESULTS

Al concentrations ranged from approximately 0.46% to 8.92%. The upper and middle Eagle Ford averaged 3.95% while the lower averaged 2.8%. Ti concentrations ranged from approximately 0.13% to 0.53%, with the upper and middle Eagle Ford averaging 0.24% and the lower averaging 0.20%. Ti and Al are positively correlated with an r^2 of 0.764 (Figure 4a).

Fe concentrations range from 0.18% to 7.43%. Upper Eagle Ford concentrations average 2.32%, middle concentrations average 1.36%, and lower concentrations average 1.15%. Fe and Al as well as Fe and Ti are positively correlated with correlation coefficients (r^2) of 0.714 and 0.717 respectively (Figures 4b and 4c).

Mo and V concentrations range from 0.35 ppm and 31.63 ppm to 57.80 ppm and 788.28 ppm respectively. Mo shows a progressive decrease, on average, as you go up section, with lower, middle, and upper averages equaling 25.09 ppm, 19.55 ppm and 4.29 ppm respectively. V averages, however, do not progress. The lower, middle, and upper averages are 251.06 ppm, 467.74 ppm, and 172.79 ppm respectively. Mo and V have a positive correlation with an r^2 of 0.396 (Figure 4d). Ni shows a progressive decrease, on average, as you move up section. Ni lower, middle, and upper averages are 61.24 ppm, 51.50 ppm and 29.16 ppm respectively. Ni has a positive correlation with TOC, with an r^2 of 0.529 (Figure 4e).

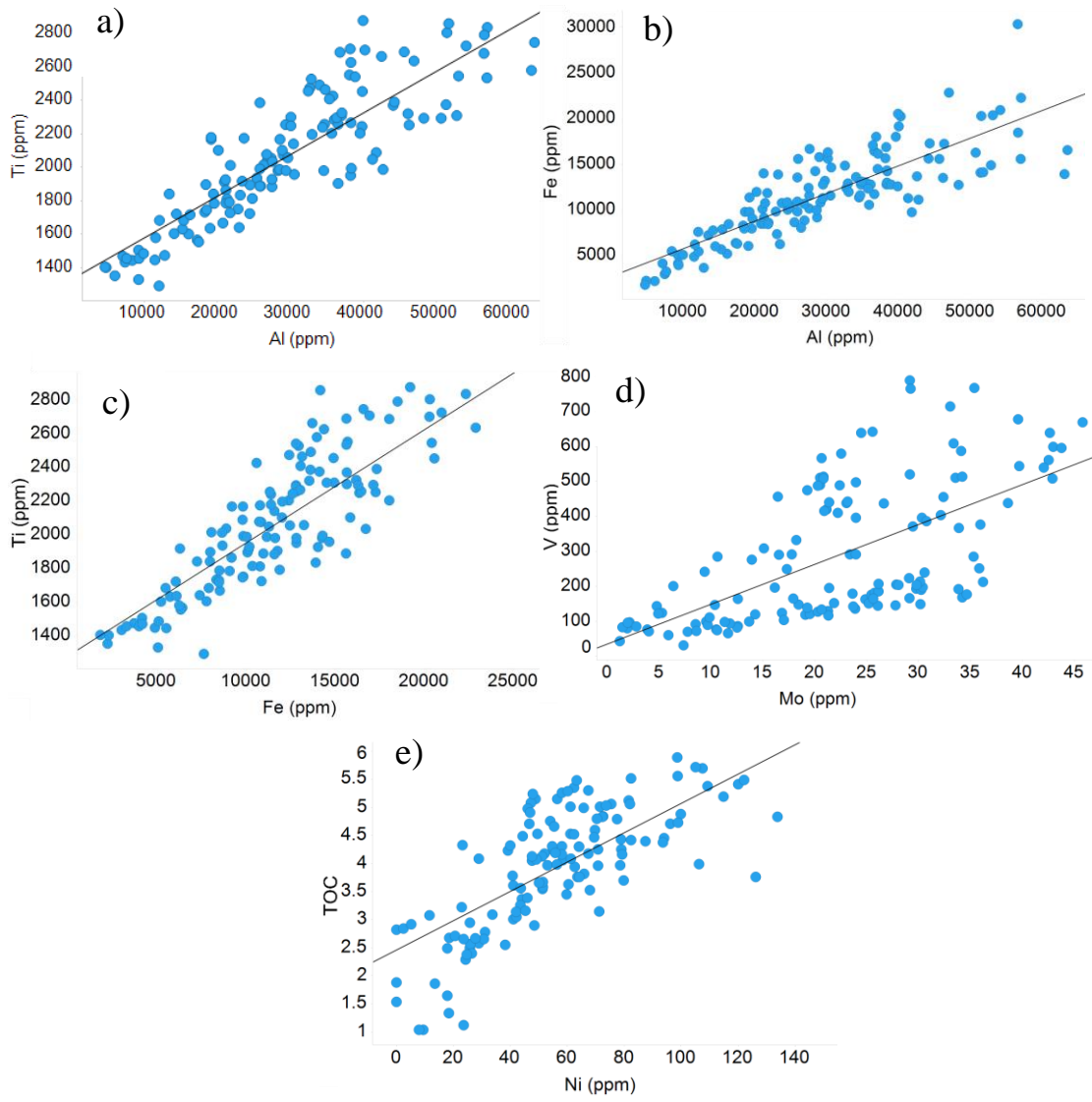


Figure 4 Basic Ti, Al, Fe, V, Mo and TOC trends. Results and general correlations of ICP-MS analysis of the Eagle Ford formation, Swenson #1H core, McMullen County, TX.

5. DISCUSSION

5.1 Preservation Potential and Basin Restriction

5.1.1 Normalization and Enrichment Factors

The total trace metal concentration of sediments is a result of at least four separate sources that are not easily distinguished: particulate shuttle within a reducing water column, biogenous plankton remains, early diagenetic enrichment, and terrigenous material from eolian and/or fluvial origin (Tribovillard et al., 2006). Ideally, researchers would remove the terrigenous fraction in order to get an idea of the trace metal enrichment or depletion as a result of the redox conditions, biogenous plankton input or diagenesis, but many of the dominant elements cannot broadly be considered unaffected by biological processes or diagenesis. (Brumsack, 2006; Canfield, 1994; Lewis and Luther III, 2000)

The element least effected by biological or diagenetic processes is Al. It forms part of the structural component of most sediments brought in by fluvial and eolian processes. As a result, Al is often used for estimating the terrigenous detrital fraction by comparing it to average shale. Any deviation from published average shale compositions will indicate excess or depletion and is evident in the enrichment factors (EF) for each element (Brumsack, 2006; Tribovillard *et al.*, 2006). Enrichment factors are calculated as follows:

$$EF = (M/Al)_{\text{sample}} / (M/Al)_{\text{shale}}$$

Where M represents the trace metal under consideration, and EF values great than 1 indicate a relative enrichment, while those less than 1 indicate relative depletion.

There are potentially intrinsic downsides to normalizing to aluminum. If the coefficient of variation (standard deviation/mean) of the aluminum is much larger than the coefficient of variation of the trace metal, then this can cause false correlations or can even blur or change the correlations of unmodified data sets (Van der Weijden, 2002). An additional quality control check can be performed by comparing the aluminum concentrations to other detrital and immobile elements, like titanium (Tribovillard *et al.*, 2006; Van der Weijden, 2002). Samples

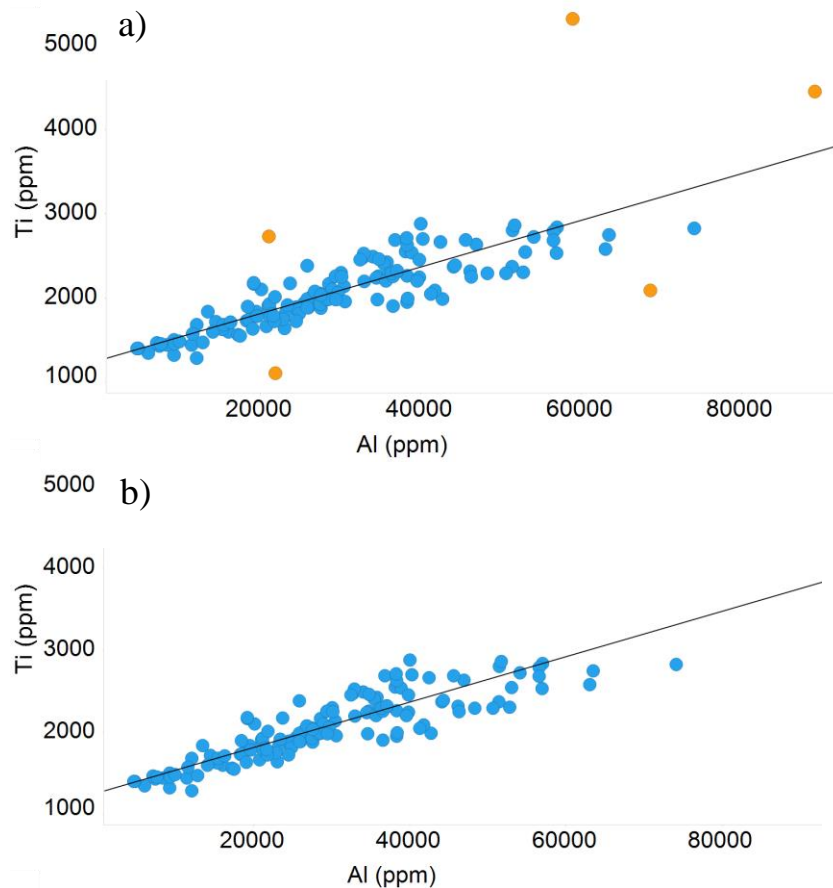


Figure 5 Check on normalization using Al. a) Al (ppm) versus Ti (ppm) used as a check on the validity of using Al to normalize data. b) Al (ppm) versus Ti (ppm) with 5 outliers identified in Figure 8 a) removed.

with higher than expected aluminum can be attributed to authigenic clay (kaolinite) formation (Calvert and Pedersen, 2007), while samples with higher than expected titanium can be attributed to incorporation of the titanium into the aluminosilicate lattice (Tribovillard *et al.*, 2006). These samples can be flagged in order to increase confidence in the analysis of the normalized data sets. For this study, the coefficients of variation for each trace metal were higher than those for aluminum for all elements except U and Re, and only a minor scatter can be seen in the Al/Ti cross plot (Figure 5). The five outliers in the Al/Ti cross plot were flagged and removed.

The calculated EF values for Cu, Mo, Ni, and V for the study area are in agreement with published values for similar organic-rich Cenomanian and Turonian (C/T) black shales as well as modern day sapropels and sediments derived from coastal upwelling areas (Brumsack, 2006) (Figure 6). Cu, Ni, and V show enrichment values ranging from 1 to about 50, while Mo shows enrichment values from 1 to much greater than 100, indicating high productivity and highly reducing conditions. In today's oceans, organic-carbon-rich sediments are thought to be deposited most commonly under two scenarios: basins with a sill that allows the establishment of stagnant euxinic conditions (Demaison and Moore, 1980) or coastal upwelling areas along the west coast of continents (Thiede and Suess, 1983). Cretaceous black shales exhibit many trace metal accumulation signatures of both environments, so understanding the fundamental behaviors of the elements under both conditions is crucial to being able to confidently interpret the data (Brumsack, 2006).

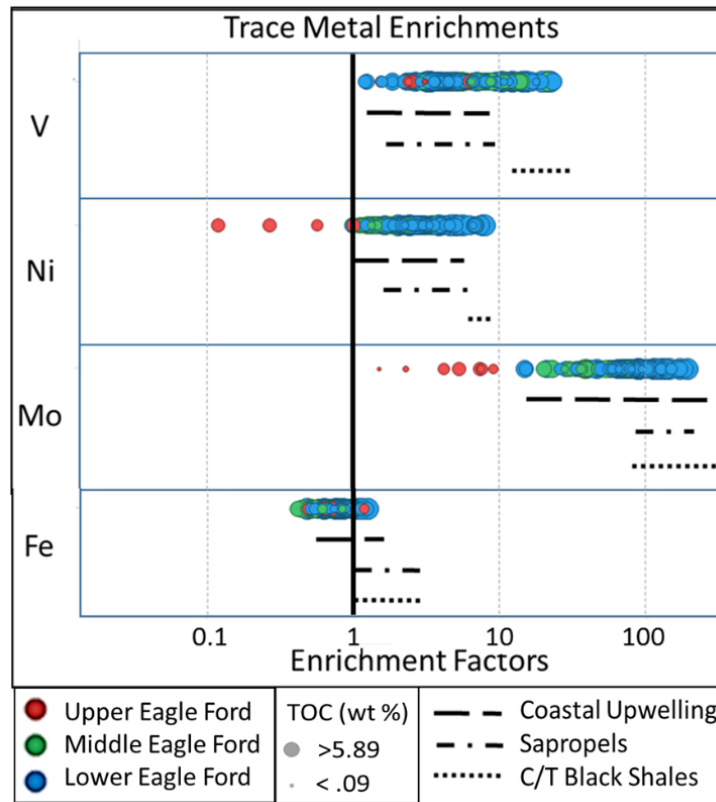


Figure 6 V, Ni, Mo and Fe enrichment factors of the studied core. Calculated enrichment factors of selected elements for the Eagle Ford formation of Swenson #1H core, McMullen County, TX. EF values for sediments deposited under coastal upwelling conditions, sapropels and C/T black shales are from Brumsak, 2006 and sources within.

V enrichment factors within the sampled core range from 1-23, with a right skew and multi-modal distribution. V is the most abundant transition metal, often making up ~140 ppm within the upper crust, but its concentration within seawater is relatively low at 2,150 µg/L. (Bruland and Lohan, 2006; Mackenzie, 2005). Within oxygenated water, V is stable as V (V) in vanadate

oxyanions (HVO_4^{2-} and H_2VO_4^-), and is reduced to V (IV) under mildly reducing conditions forming soluble vanadyl ions (VO_2^-) and insoluble hydroxides ($\text{VO}(\text{OH})_2$). Under more strongly reducing conditions, V is further reduced to V (III), which can be precipitated as the solid V_2O_3 or $\text{V}(\text{OH})_3$ and incorporated into the sediments (Tribovillard *et al.*, 2006). This two-step reduction process of V could potentially explain the multi-modal distribution of the V EF within the study area, indicating an interplay between strongly reducing and weakly reducing conditions (Figure 7).

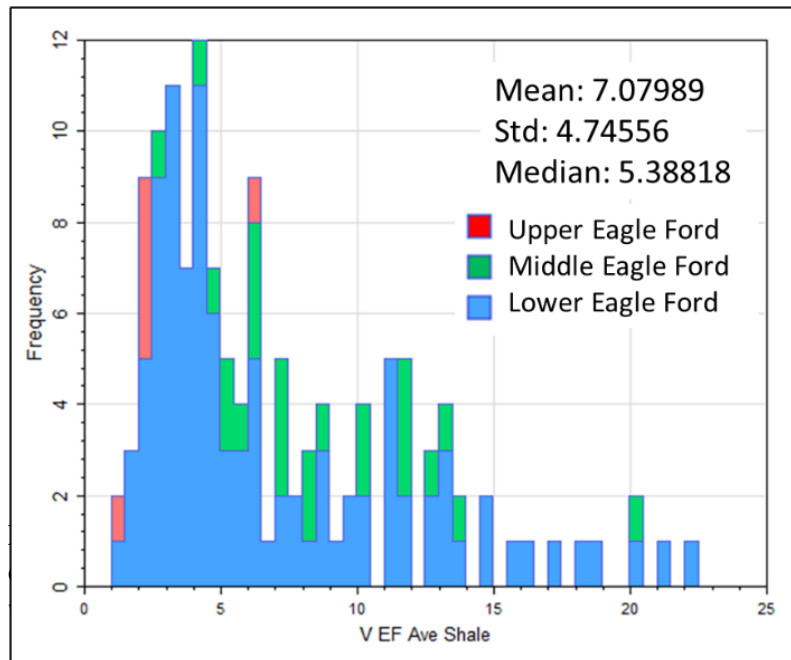


Figure 7 V enrichment factor histogram. Histogram of the calculated V enrichment factors of the Eagle Ford formation within Swenson #1H core, McMullen County, TX.

Mo enrichment factors within the studied core have a wide range, from 0-150, with a multi-modal distribution. Mo concentrations in the upper crust are quite low (~1.6 ppm), but it is the most abundant transition metal in the oceans (~10,300 µg/L) (Mackenzie, 2005). Therefore, it is likely that much of the Mo present within shales was authigenically precipitated from seawater (Bruland and Lohan, 2006). Under normal seawater conditions, Mo is a conservative type trace metal existing as the oxyanion molybdate (MoO_4^{2-}) (Bruland and Lohan, 2006). However, a key step in the removal of Mo from seawater involves the conversion of the highly stable molybdate ion to particle-reactive thiomolybdates ($\text{MoO}_x\text{S}_{4-x}^{2-}$) in the presence of H_2S . These thiomolybdates can then be easily scavenged out of solution by humic substances

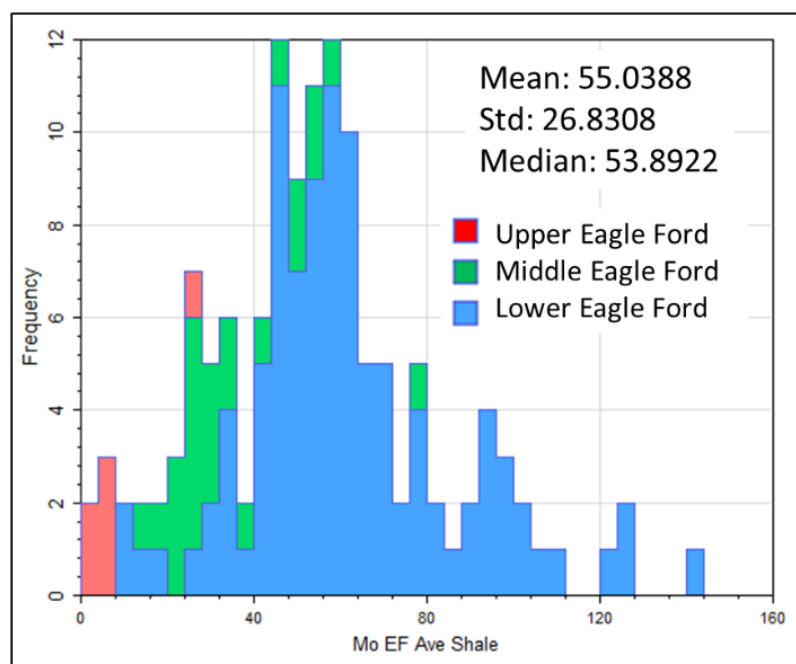


Figure 8 Mo enrichment factor histogram Histogram of the calculated Mo enrichment factors of the Eagle Ford formation within Swenson #1H core, McMullen County, TX.

and Fe sulfides under euxinic conditions. Thiomolybdate formation increases significantly in the presence of H₂S at a concentration above 11 μM, often termed the “switch point” (Calvert and Pedersen, 2007; Helz *et al.*, 1996). However, hydrographic factors have been shown to limit the flux of Mo to the sediments even under strongly reducing conditions, impeding any further enrichment (Algeo and Lyons, 2006; Algeo and Rowe, 2012). The wide and multi-modal distribution of the Mo EFs within this core suggests there are multiple variables affecting the enrichment of Mo within the sediments, including both the concentration of H₂S, as well as bottom water renewal (Figure 8).

Ni enrichment factors within the studied core range from 0 (depleted) to 9. Ni enrichment within the sediments occurs via complexation of Ni with organic matter even if the

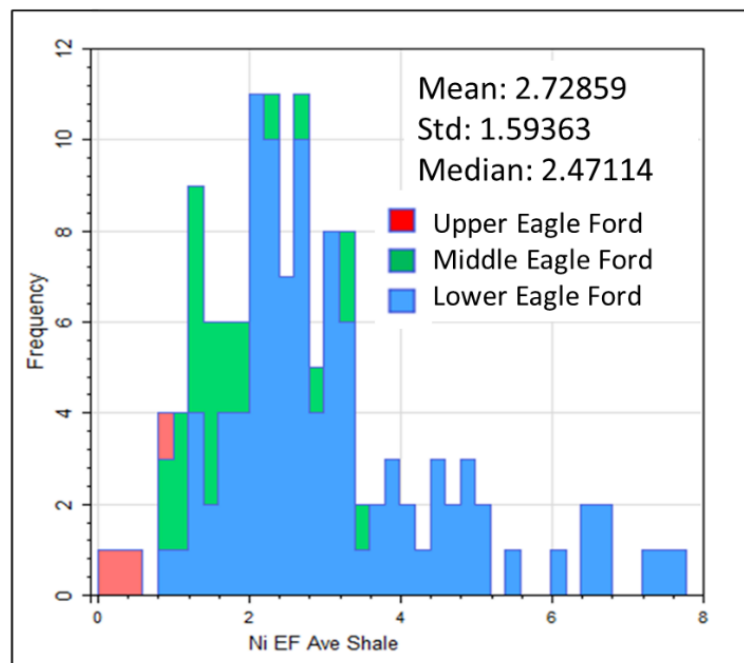


Figure 9 Ni enrichment factor histogram. Histogram of the calculated Ni enrichment factors of the Eagle Ford formation within Swenson #1H core, McMullen County, TX.

organic matter is totally or partially decomposed. During organic matter decay, Ni is retained within the reducing sediments by integration into authigenic pyrite, and is thus not significantly mobilized during diagenesis (Tribovillard *et al.*, 2006). As a result of the mechanism in which Ni is enriched within the sediments, as well as the relative stability following deposition and through diagenesis, Ni enrichments are used to indicate relative degree of primary productivity (Tribovillard *et al.*, 2006). The majority of the Ni enrichment factors within the studied core range from 1-3, indicating a general baseline productivity for the area, with some sections of the lower Eagle Ford showing a marked increase in productivity. Conversely, some areas of the upper Eagle Ford show a significant decrease in Ni content, indicating lower primary productivity. This relationship may indicate a change in the efficiency of nutrient renewal to the surface waters through time (Figure 9).

5.1.2 Covariation of Mo, V, and Ni

The conditions favorable for trace metal enrichment are closely linked with the conditions favorable to organic matter preservation and vary as a function of the organic matter rain rate and subsequent respiration of that organic matter, as well as the circulation patterns of the bottom waters (Algeo and Lyons, 2006; Algeo and Maynard, 2008; Algeo and Rowe, 2012; Algeo and Tribovillard, 2009). As a result of the many processes affecting deposition and stability of the trace metals following deposition, analysis of the redox conditions is most reliable when multiple proxies are analyzed based upon not only their enrichment relative to average shales, but also upon relative covariance. Specifically, this integrated approach will hinge upon those elements whose behavior is the least vulnerable to remobilization within irreversibly reducing sediments (i.e., V, Mo, and Ni) (Tribovillard *et al.*, 2006).

Z-scale normalization, in which the elemental concentrations are normalized to a mean of 0 and a standard deviation of 1, is useful in comparing elements by equalizing the total variance for each of them. This method can give greater insight to the pattern of variations within the section (Algeo and Maynard, 2008). Z-scores were calculated for Mo enrichment factors and V enrichment factors and plotted as a function of depth (Figure 10). The Z-score patterns show a

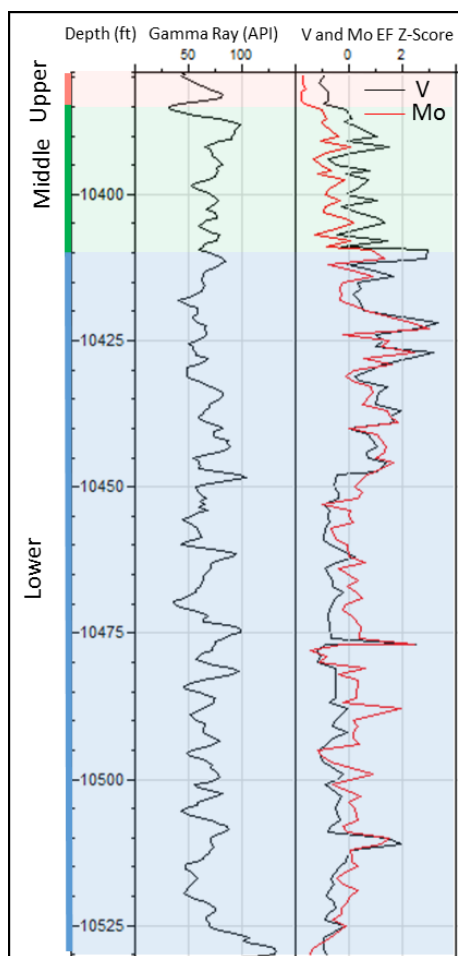


Figure 10 V and Mo enrichment factor Z-scores as a function of depth. Eagle Ford formation, Swenson #1H core, McMullen County, TX.

complex relationship that evolves as you move up-section. The lower half of the lower Eagle Ford shows Z-scores for Mo that are consistently higher than those for V, while the upper half of the lower Eagle Ford show increasing Z-scores for both elements, with relative enrichments that are much more comparable. Within the middle Eagle Ford, the Z-scores for V enrichment surpass those for Mo enrichment, and within the upper Eagle Ford, Z-scores for both elements decrease proportionally together. Plotting Mo EF versus V EF, colored by the stratigraphic interval, shows the same trends emphasizing the coincidence with stratigraphic location, suggesting a potential link between changes through time and variable enrichments in Mo and V (Figure 11a).

Algeo and Lyons (2006) have shown that trace metal to TOC covariation patterns can indicate the interplay between redox potential and hydrographic factors. Very low TOC values with similarly low trace metal enrichment are largely indicative of an oxic environment. As TOC values increase, the preserved V values should also increase within an anoxic environment. Once euxinic conditions are established, Mo and V will positively covary with TOC as long as the input flux is higher than the sink flux. Once the sink flux is greater than the input flux, the correlation between TOC and trace metal concentrations is no longer dependent on the redox potential, but instead is dependent upon hydrographic factors (Algeo, 2012; Algeo and Lyons, 2006; Brumsack, 2006; Tribovillard et al., 2006). As a result, in order to constrain the degree of basin restriction, incorporation of the organic matter flux (via Ni as a proxy) is included in the analysis (Figure 11b).

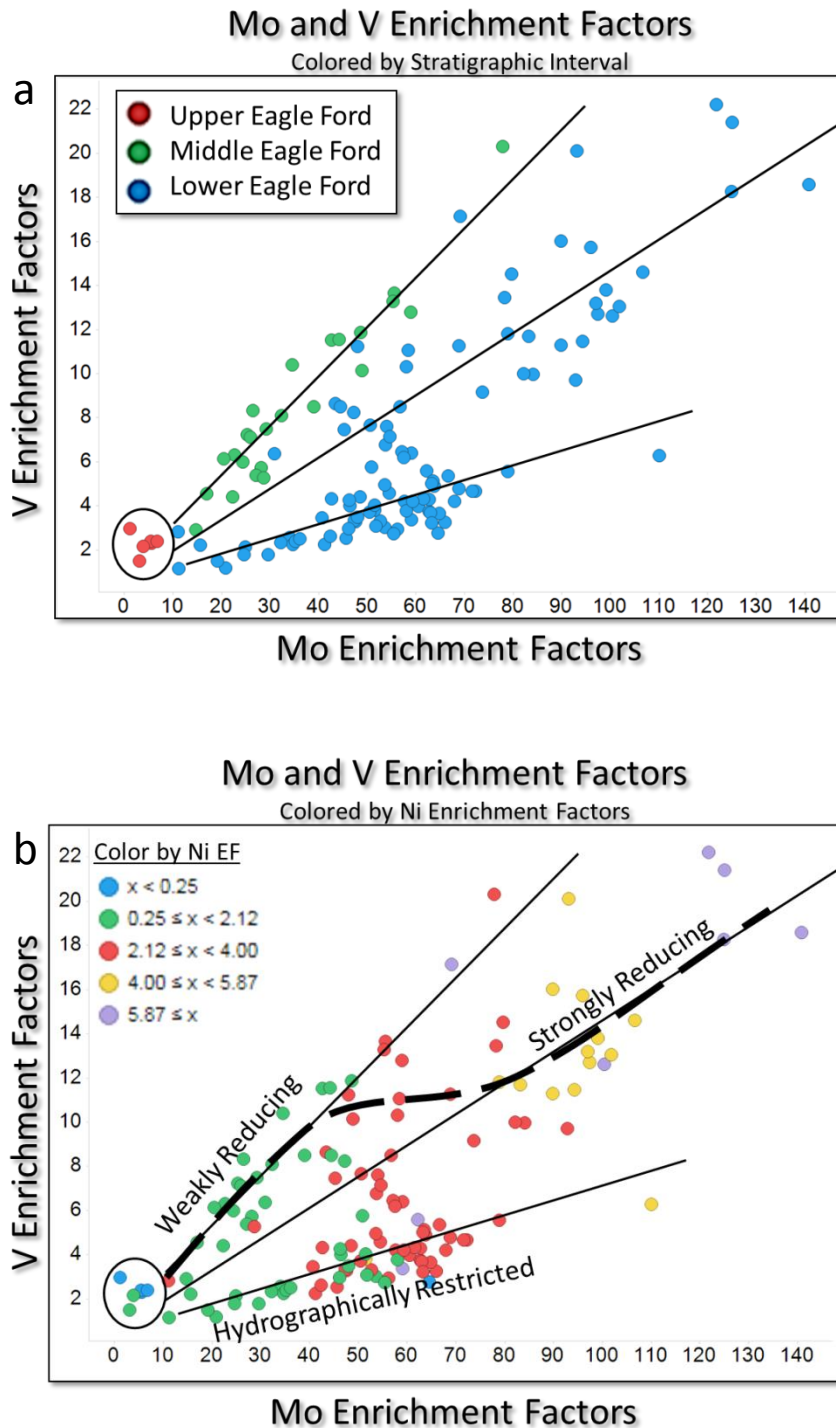


Figure 11 V enrichment factors versus Mo enrichment factors. Eagle Ford formation of Swenson #1H core, McMullen County, TX. a) Colored by stratigraphic interval. b) Colored by Ni enrichment factors.

As a result of the multiple variables being used to characterize the paleoredox conditions at the time of deposition, a principal component analysis using hierarchical clustering was conducted. The results produced four main cluster groups. For the purposes of this study, these clusters will henceforth be termed “redox IDs”. Sections with the same redox ID will be termed redox zones.

Redox ID I is characterized by low V, low Mo and variable Ni enrichment factors, while redox ID II is characterized by high V, moderate Mo, and moderate Ni enrichment. Redox ID III can be described by high V, high Mo, and high Ni, while Redox ID IV can be described by low V, moderate Mo, and moderate Ni.

Given the behaviors of V, Mo, and Ni under specific conditions (section 5.1.1), the basin can be characterized based upon these redox IDs. As a result of the relatively low V, and Mo and variable Ni content within redox zone I, this zone can be characterized as generally oxygenated throughout. Oxidic conditions exist where aerobic respiration dominates through the water column and potentially into the sediments. It is usually marked by an increase in bioturbation, lack of organic matter preservation, and low to no trace metal enrichment (Tribovillard *et al.*, 2006). Redox ID I is exclusively within the upper Eagle Ford, where the highest proportions of burrows are present (Kruse, 2014), which suggests the oxygenation potentially persisted through the top layer of sediments. There is some enrichment of V and Mo, however, suggesting precipitation within deeper reduced pore waters. The variable Ni content combined with the low V and Mo suggests primary productivity continued, but the bottom water circulation was not conducive to enhanced organic matter preservation. This is additionally supported by the relatively low TOC values present within the upper Eagle Ford interval (~0-2%).

As a result of the high V, moderate Mo and moderate Ni within redox zone II, these intervals can be characterized as anoxic (low O₂, no free H₂S within the water column). Anoxic

conditions persist when the rate of organic matter degradation consumes O_2 faster than it is replenished, but the redox potential does not progress so far as to have free H_2S within the water column (Tribovillard *et al.*, 2006). These low oxygen, but no free H_2S , conditions result in enriched V concentrations because V can precipitate directly from the water column under weakly reducing conditions (nitrate, manganese, and iron reduction intervals). Mo is only moderately enriched because it is only precipitated in the presence of H_2S at or below the sediment water interface, where the influx of Mo is limited (Algeo, 2012; Brumsack, 2006; Erickson and Helz, 2000; Tribovillard *et al.*, 2006). Redox zone II dominates the middle Eagle Ford interval, and is generally characterized as a high TOC, low bioturbation interval (Kruse, 2014), consistent with the classification assigned.

Redox zone III is described as having very high Mo, V, and Ni. The high organic carbon rain rate (high Ni EF) facilitated the establishment of strongly euxinic conditions and subsequent enrichment of both V and Mo. The concurrent enrichment of V and Mo is indicative of an environment where there is free H_2S within the water column and the rate of renewal of V and Mo to the water column from outside the system is greater than or equal to the rate of flux of V and Mo to the sediments through reductive precipitation (Algeo, 2012; Algeo and Lyons, 2006; Brumsack, 2006; Erickson and Helz, 2000; Tribovillard *et al.*, 2006). This zone dominates the upper portion of the lower Eagle Ford and has the highest TOC values of the entire section, consistent with the very high primary productivity (Ni) as well as the increased preservation potential of the bottom waters (V and Mo).

Redox Zone IV is the most unique and counter-intuitive. It is characterized by low V, moderate Mo, and moderate but variable Ni. This combination of factors cannot be explained by redox trends alone. The transition from weakly euxinic to strongly euxinic often shows this decline in the trace metal accumulation rates stemming from the accompanying restricted

circulation that dominates over the influences of the redox state of the water column. Under these circumstances where the deeper water is hydrographically restricted, (the flux of sinking reduced particles exceeds the flux of total input to the system), Mo and V concentrations can be significantly lower given the high TOC values (Algeo, 2012; Algeo and Lyons, 2006). This concept of hydrographically restricted bottom waters is supported by modern analog studies done by Algeo and Rowe in 2012, comparing Mo versus TOC values in Saanich Inlet, the Cariaco Basin, the Framvaren Fjord, and the Black Sea as well as studies of paleo-environments, including the Fort Worth Basin. The restricted circulation causes the rate of renewal of V and Mo to the water column from outside the system to be less than the rate of flux of V and Mo to the sediments through reductive precipitation. As a result, even though the organic matter rain rate is high enough to produce enhanced enrichment in both V and Mo, we only see a moderate enrichment in Mo and low to no enrichment in V. This difference in V enrichment versus Mo enrichment, given the hydrographic restrictions inferred, can be explained by the relative differences in the average concentrations of V and Mo within seawater (2,150 µg/L, and 10,300 µg/L respectively).

Within Redox zone IV, the Ni concentrations do not consistently increase with increasing Mo enrichment as was seen in redox zones II and III, but instead are highly variable, indicating the dominant factor is low circulation and not necessarily organic matter rain rate. Redox zone IV dominates the lower portion of the lower Eagle Ford section, which has high TOC values, but not as high as redox zone III, indicating the restricted circulation also potentially affected nutrient renewal of primary productivity. Figure 12 is a schematic diagram showing the relative enrichment of Ni, V, and Mo versus TOC as progress is made from a euxinic and restricted environment of the lower Eagle Ford to an oxic environment of the upper Eagle Ford.

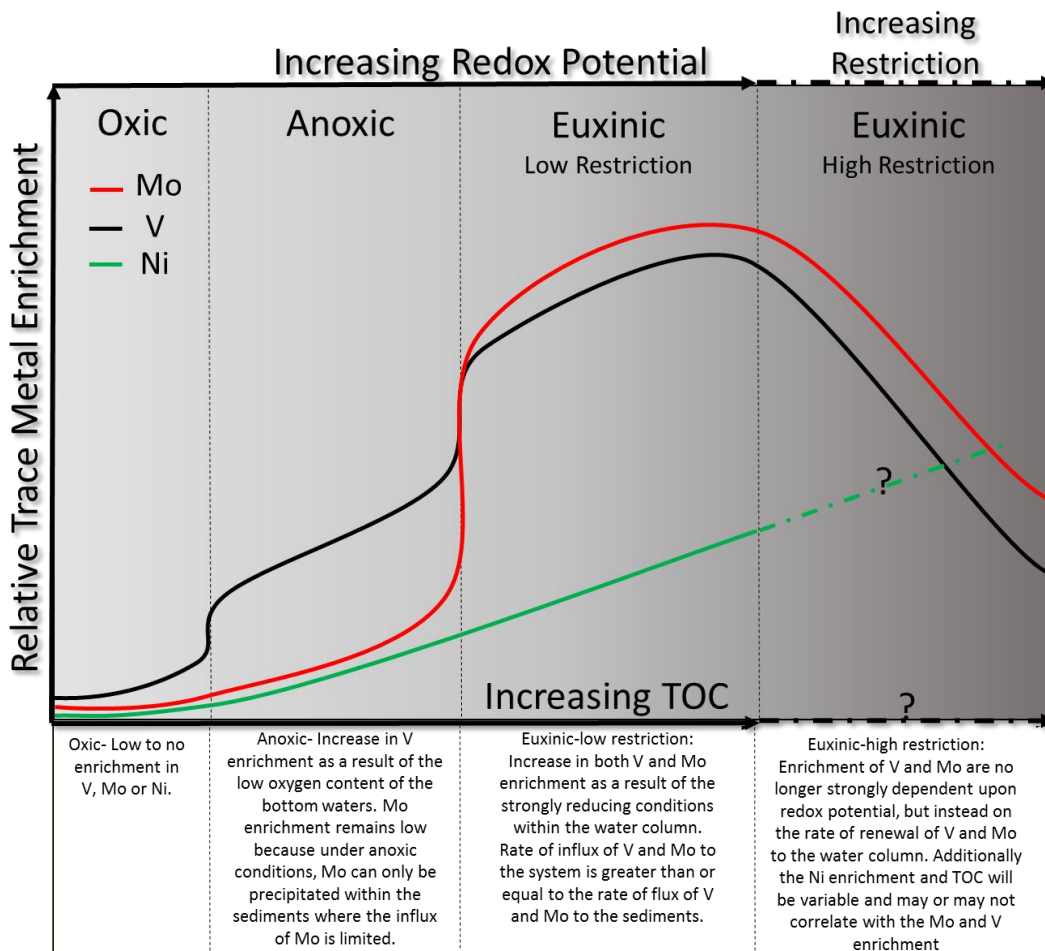


Figure 12 Schematic diagram illustrating the relative enrichment of V, Mo and Ni versus TOC, modified after Tribovillard, *et. al.*, 2006 and Algeo and Maynard, 2004.

Displaying the redox zones as a function of depth (Figure 13) may be an oversimplification, given the highly variable thin bed heterogeneity present within the Eagle Ford versus the coarse ~30 cm sample resolution studied here. However, it adequately illustrates how the redox

potential of the water column changes as a function of depth within the core. The progression through time from redox zone IV (strongly euxinic and restricted) within the lower Eagle Ford through redox zone I (oxic) within the upper Eagle Ford suggests an evolving basin morphology. The pre-existing Sligo and Stuart City reef trends served as paleobathymetric highs during deposition of the Eagle Ford (Hentz and Ruppel, 2010) and likely served as the sill that reduced bottom water circulation within redox zone IV. As the sediments within the lower Eagle Ford fill in the accommodation space provided by this pre-existing bathymetry, the bottom water circulation improved, continuing up-section, until the system is fully oxygenated, and subsequently ending deposition of this organic rich mudstone. Figure 14 illustrates the concept of changing morphology within the Eagle Ford. This interpretation is consistent with previously published U/Mo covariation from Lozier Canyon outcrops of the Eagle Ford by Gardner, *et al.* (2013).

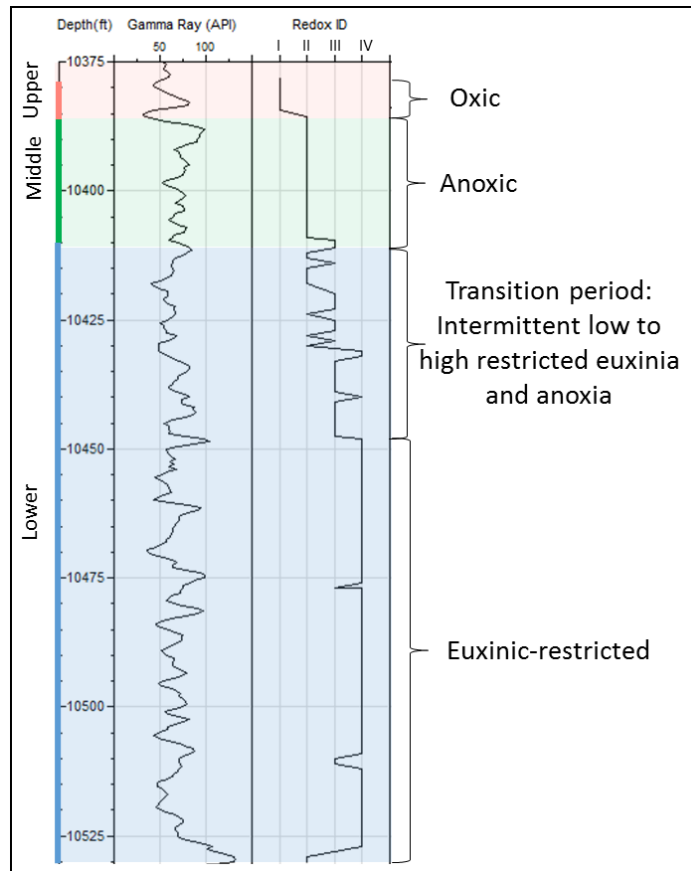


Figure 13 Changes in redox ID as a function of depth. Eagle Ford Formation, Swenson #1H, McMullen County, TX.

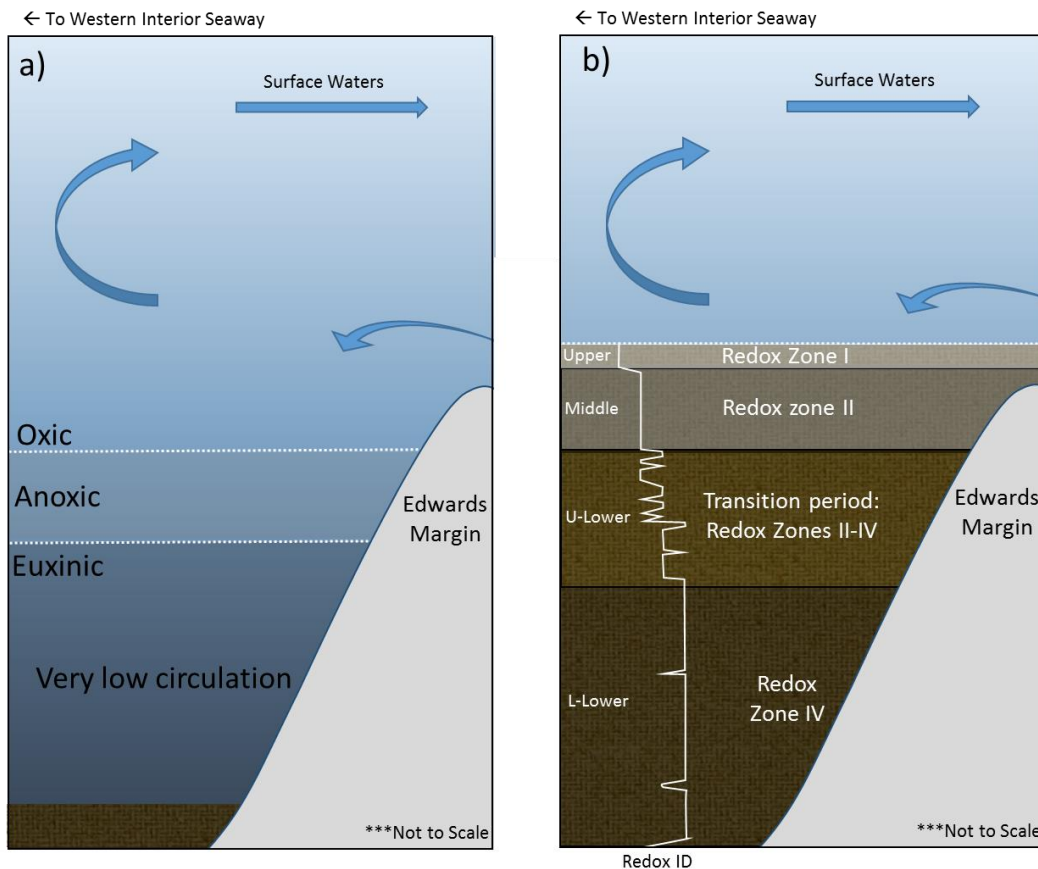


Figure 14 Conceptual model of the evolving basin morphology with time. Schematic diagram illustrating the effect of evolving basin morphology on the redox potential of the water column with the Eagle Ford formation. A) Early within deposition of the Eagle Ford. B) At the conclusion of deposition of the Eagle Ford.

5.2 Volcanic Ash Fertilization

Understanding the broad trends of organic matter rain rate, as well as preservation potential of the water column outlined above, is crucial to being able to interpret the effect of input of volcanic ash to the water column. The depositional controls inferred above within each redox zone appear to be the dominant controlling factors on Ni, V, and Mo enrichment. Therefore, examining the intervals with volcanic ash input relative to the intervals immediately surrounding

the ash, but still within the respective redox zone can give insight to the effect that volcanic ash has on primary productivity.

5.2.1 Fe Enrichment Factors

Throughout much of the core, Fe is depleted with respect to average shale, C/T mean black shales, and modern sapropels, but generally falls in line with the enrichment values for modern sediments derived from coastal upwelling (Figure 9). C/T mean black shale and modern day sapropel enrichment factors range from approximately 1-5, while enrichment factors for sediments deposited in coastal upwelling zones range from about 0.9-2. Enrichment factors for the Eagle Ford samples studied here range from 0.4-1.4.

Fe depletion within organic and trace metal rich sediments can indicate one or a combination of two most likely scenarios. 1: The Fe/Al content of the major sediment input for the “average shale” is higher than the Fe/Al content of the major sediment input for this locality or 2: the relatively shallow nature of the carbonate shelf upon which the Eagle Ford was deposited allowed for enhanced efficiency of the Fe-biogeochemical cycle, keeping bioavailable Fe in the water column and thus reducing the amount of Fe deposited relative to aluminum. These scenarios can lead one to opposite conclusions on the bioavailability of Fe within the surface waters.

The dominant processes for Fe input to a marine system are fluvial and atmospheric. The magnitude of Fe input to the study area via river processes does not appear significant given the distance of this area to the dominant river system associated with the Woodbine delta. In addition, the increase in salinity that occurs when river waters meet seawater, causes flocculation and sedimentation of trace metals, especially Fe (Boyle et al., 1977; Bruland and Lohan, 2006; Sholkovitz and Copland, 1981). As a result, the predominant source of Fe to the study area is

likely dust. The greatest uncertainty with estimating atmospheric input of trace metals is approximating the percentage of the dust that is soluble upon contact with the surface ocean (Bruland and Lohan, 2006). Approximations from Jickells and Spokes (2001) estimate the mean solubility of Fe from atmospheric dust is about ~2%.

As a result of the solubility differences between Fe (III) (less soluble) and Fe (II) (more soluble), the distribution of dissolved Fe concentrations can change drastically across the Fe redox boundary (Tribovillard *et al.*, 2006). Depending on the position of the redox-cline and the efficiency of the cycling versus settling velocity, the Fe/Al ratios preserved within the sediments can be significantly different than the total Fe/Al present within the system. Because of the significant overlap within the nitrate, manganese, and iron reduction zones it is difficult to estimate their thicknesses. They are, however, generally considered thin relative to the oxic and euxinic zones (Tribovillard *et al.*, 2006). The thin nature of the zone of Fe reduction can enhance the efficiency of the cycling between Fe (II) to Fe (III) and vice versa. If the Fe redox boundary is just above or within the sediments, Fe enrichment should be seen. However, if the Fe redox boundary is sufficiently high above the sediment water interface, then the cycling of Fe (III) to Fe (II) can be efficient enough that the sediments would show depletion even when the system is not necessarily depleted of Fe. Rapid settling, however, can overcome this process, allowing particulate Fe-oxyhydroxides to reach the sediment water interface or the zone of sulfate reduction. These Fe-oxyhydroxides can then be reductively dissolved and incorporated into pyrite in the presence of dissolved H₂S or taken up into Fe-carbonates (siderite) further complicating the analysis (Tribovillard *et al.*, 2006). The Fe EFs within the studied core show an even distribution from 0.4-1.4, with no apparent separation between upper, middle or lower (Figure 15). As a result, no distinction can be made with our data to suggest the dominant process for Fe enrichment or depletion within the sediments.

The two scenarios for Fe enrichment outlined above may both be operating here, and so clear insight as to the bioavailable Fe content of the surface waters is not possible. Low Fe/Al in the dust fraction can cause low concentration of bioavailable Fe in the surface waters, while an efficient Fe cycling process can cause adequate concentration of bioavailable Fe within the surface waters. As such, a broad assertion that all of the volcanic ash within the Eagle Ford provided bioavailable Fe to an iron-limited photic zone promoting increased primary productivity cannot be supported or refuted with our data. Regardless, the effect of individual volcanic ash layers on primary productivity can be inferred by comparing the composition of the ash to that of the surrounding marls, assuming the only change to the system is the input of volcanic ash.

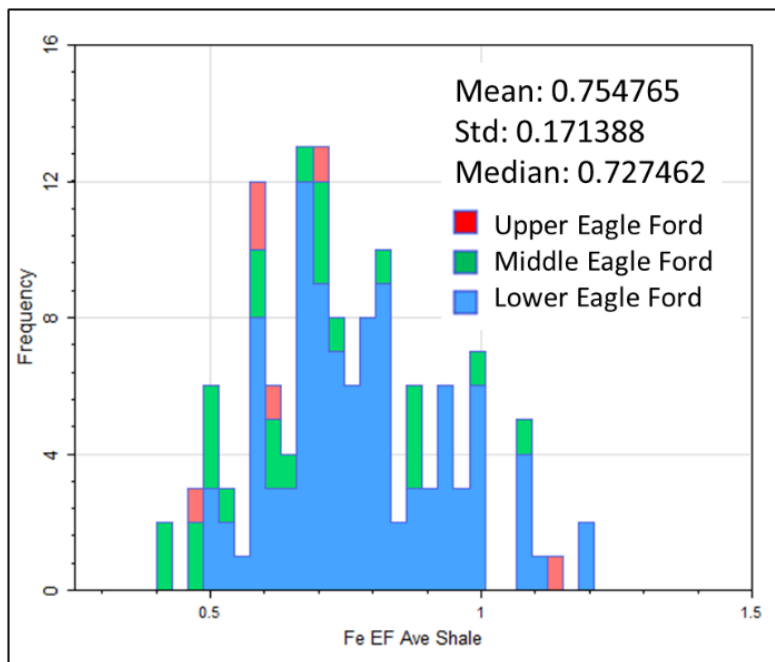


Figure 15 Fe enrichment factor histogram. Histogram of the calculated Fe enrichment factors of the Eagle Ford formation within Swenson #1H core, McMullen County, TX.

5.2.2 Ni and Mo within Volcanic Ash

Depending on the particle size, the residence time of volcanic ash within the photic zone can range from only a few minutes to a few days. However, phytoplankton blooms have been shown to respond within 24 hours, with the macronutrient supply depleted after only 7 days (Greene *et al.*, 1994). As a result, ash deposition and subsequent enhanced primary productivity occur geologically instantaneous, and any enrichment in Mo and Ni within the ash bed relative to the surrounding marls likely resulted from an ash-induced increase in primary productivity (Zeng, 2014).

Analysis of the ash beds at the mm to cm scale requires use of the high resolution XRF data. Calibration of the XRF counts to ppm was done through statistical analysis of the correlation between the XRF and ICP-MS data. For the purposes of the correlation, a running average of the XRF data was conducted in order to get the 5 mm per data point interval up to a 1 cm per data point interval. Each sample taken for ICP-MS measurement was removed from the core over a 1 cm interval of depth, likely crossing laminations considering the thin bed heterogeneity of the Eagle Ford. The running average of the XRF counts is a way to “homogenize” the XRF counts to match the homogenized ICP-MS samples taken at the same location. The running average XRF data points corresponding to the same depth of each ICP-MS data point was correlated using linear regression techniques, and the equation of the best fit line was used to convert Ni, Fe, and Mo XRF counts to ppm with correlation coefficients (r^2) of 0.155, 0.370, and 0.621. This method is intrinsically difficult given the lamination-scale heterogeneity and should not be expected to give the exact concentrations of each lamination. Rather, this method is used to constrain the concentrations within the core where the only data available is XRF counts. Using the calibrated XRF peaks and troughs provides only an estimation of the concentrations expected.

To analyze the relative differences between authigenic enrichment of Ni and Mo in the ash beds versus the surrounding marls, normalization to Al, or the average shale, cannot be used

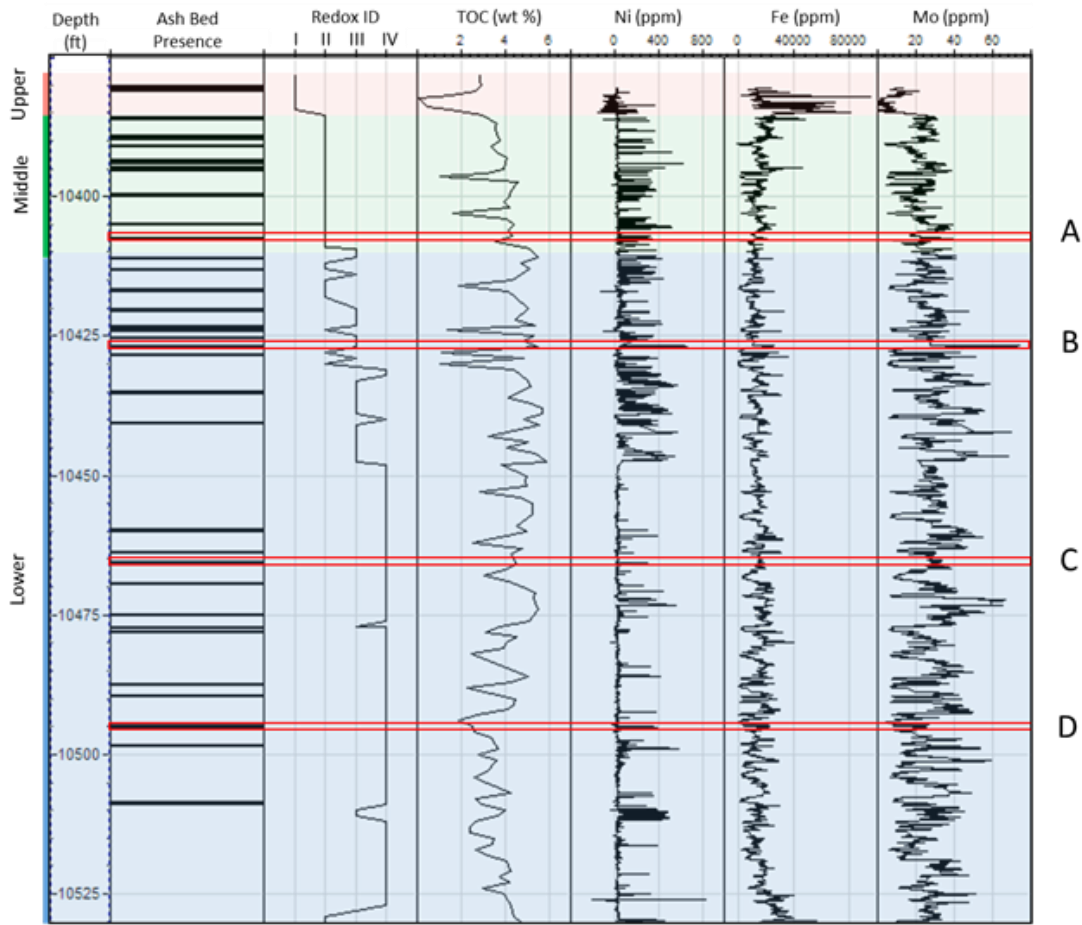


Figure 16 Geochemical logs of the Eagle Ford formation. Swenson #1H core, McMullen County, TX.

because they potentially have starkly different sources. The difference in concentration of Al on average between ash and the surrounding marls is ~30,000 ppm and can significantly bias the interpretation. Because Ni and Mo are not major constituents of ash prior to deposition

(suggested by the highly variable content of Ni and Mo shown), the amount deposited with the ash can be assumed to be primarily of authigenic origin (Zeng, 2014).

Figure 16 highlights some examples of where the data suggest that the volcanic ash input fertilized the surface waters, enhancing primary productivity and bottom water euxinia as evidenced by a sharp increase in Ni and Mo relative to the surrounding marls. The composition of ash beds D1, D2, and C show a stark increase in Ni relative to the composition of the

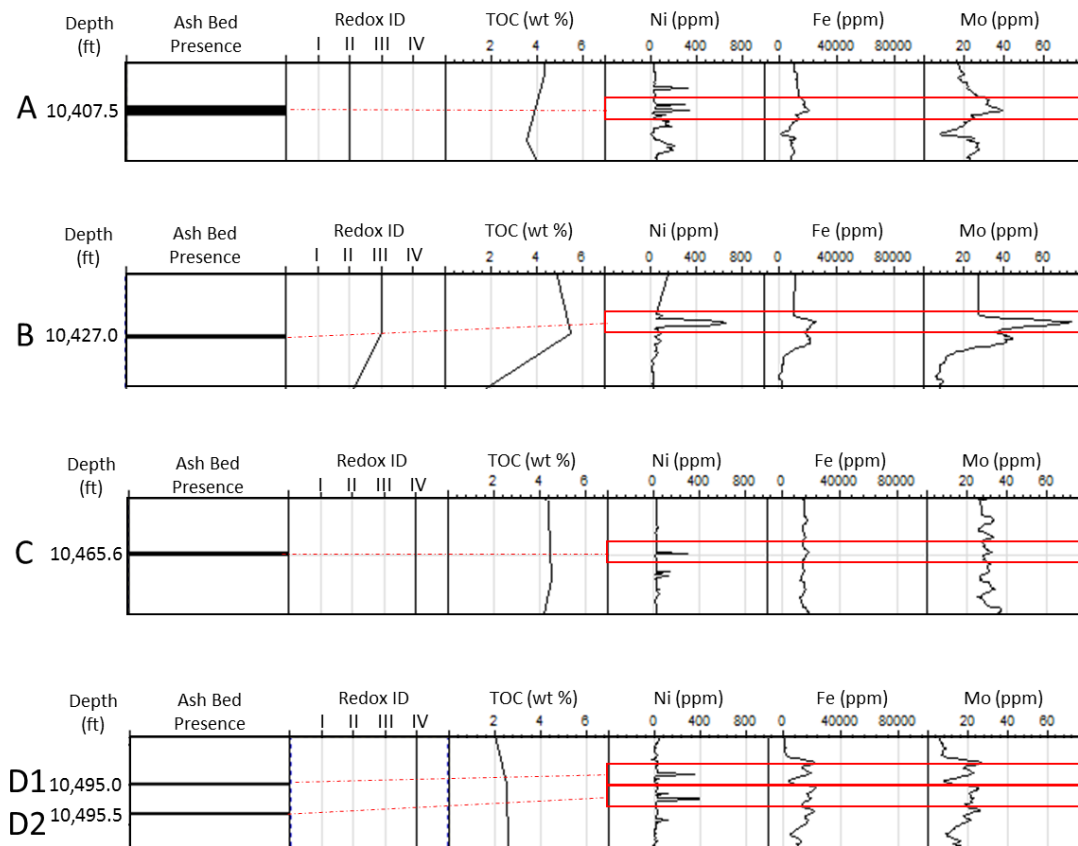


Figure 17 Geochemical logs of selected ash beds. Eagle Ford formation, Swenson #1H core, McMullen County, TX.

surrounding marls indicating the presence of ash within the water column enhanced primary productivity. It also shows a similar, but less stark increase in the Mo concentration. This relatively low Mo peak, given the stark increase in Ni, can be explained by its firm location within redox zone IV, indicating the primary control on Mo enrichment is hydrographic effects, rather than primary productivity (Figure 17).

Ash beds A and B show a similarly large peak in the Ni concentration again indicating increased primary productivity as a result of the volcanic ash input. In contrast to ash beds D1, D2, and C, however, ash beds A and B show a significant increase in the Mo concentration coincident with the increase in Ni concentration, indicating the increased primary productivity further enhanced bottom water euxinia. This ash bed falls within redox zone II or within a transition zone from redox zone II to redox zone III (potentially caused by the input of ash), which can explain the substantial rise in Mo deposition as compared to ash beds D1, D2 and C (Figure 17).

5.3 Proposed Future Work

The redox zones inferred within the studied core represent only a small portion of the Eagle Ford Formation. Incorporation of geochemical data from additional cores can enhance understanding of the extent of the redox zones spatially as they evolve farther from the Sligo and Edwards Reef trends, or deeper into the Maverick Basin. This will enhance understanding of the controls on deposition of trace metals not just temporally, as it has been shown here, but spatially as well. This technique could also potentially be used to characterize other basins with complex or changing basin morphology.

Incorporation of the redox zone results into the exploration and development of hydrocarbons can also potentially be fruitful. If there is a relationship between organic matter

quality and/or type with respect to the redox zones, particularly restricted euxinic vs euxinic, then target intervals can be better constrained using geochemical proxies.

The question of whether or not the surface waters were Fe limited or not remains to be answered. Comparing the preserved Fe/Al ratios to those of the average shales alone cannot adequately estimate the concentration of bioavailable Fe within the photic zone. However, Cullen *et. al.*, (2003) has shown the effect of Fe limitation on phytoplankton, providing evidence of decreased growth rates, which leads to elevated cadmium content. The decrease in assimilation of P, but continuation of Cd assimilation resulted in enhanced cellular Cd/P ratios. Measurement of the planktonic Cd/P ratios within the Eagle Ford could enhance understanding of the availability of bioavailable Fe within the photic zone.

Additionally, analysis of the degree of pyritization (DOP) versus total Fe content may give insight into the proportions of authigenic versus un-altered detrital Fe (Algeo and Maynard, 2008). Integration of dust provenance analysis, DOP analysis, and X-ray diffraction may enhance understanding of the controls on low total Fe/Al ratios measured within this section as compared to those of the average shale.

6. CONCLUSION

Enrichment factors of the studied Eagle Ford core show similar trends as compared to other C/T black shales, as well as modern sapropels and sediments deposited in zones of coastal upwelling. Analysis of the covariation between V, Mo, and Ni within the studied core has shown that the redox potential of the water column changed through time from strongly euxinic, but restricted, within the lower Eagle Ford to oxygenated within the upper Eagle Ford. The transition from redox zone IV through redox zone I suggests an evolving basin morphology through time. Within the lower portion of the lower Eagle Ford, hydrographic factors predominantly control trace metal enrichments. As the sediments filled in the restricted accommodation space provided by the pre-existing basin morphology, circulation improved, allowing the redox potential of the water column to drive trace metal enrichment.

Interpretation of the effect of volcanic ash input to the water column on primary productivity was constrained by an understanding of the principal drivers of trace metal enrichment in the different redox zones of the Eagle Ford. Stark Ni enrichment within redox zone IV ash beds do not show the same magnitude of Mo enrichment, likely as a result of the hydrographic factors controlling Mo enrichment. Conversely, many of the ash beds within redox zones II and III show a large Mo enrichment coincident with the large Ni enrichment indicating the ash beds enhanced primary productivity and euxinia.

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UML	Depth(ft)	Redox ID	TOC	Al (ppm)	Cr (ppm)	Cu (ppm)	Fe (ppm)	Mn (ppm)	Mo (ppm)	Ni (ppm)	Re (ppm)	Th (ppm)	Ti (ppm)	U (ppm)	V (ppm)	Zr (ppm)
U	10378	1	2.82	23013.450	56.182	27.684	7367.431	89.053	1.9300	0.0000	0.0603	2.2919	1640.139	1.4777	80.036	41.767
U	10379	1	2.84	26832.697	55.112	29.047	8851.366	123.375	2.1770	2.4454	0.0596	2.5051	2037.397	1.8788	97.012	48.759
U	10380	1	2.92	25416.647	58.295	30.471	8654.715	112.922	1.4843	5.2095	0.0582	2.3574	1934.924	2.0373	83.236	51.135
U	10381	1	2.68	42705.159	23.671	21.955	11124.346	90.322	1.9774	18.5530	0.0291	2.6754	1987.263	2.7044	95.818	42.573
U	10382	1	1.54	12039.021	49.652	11.935	7611.935	220.568	1.2167	0.0000	0.0579	1.1008	1290.614	2.5492	43.134	20.104
U	10382.5	1	0.09	21013.858	70.500	39.150	20671.375	300.674	0.3546	0.0000	0.0591	0.1477	2729.701	0.2659	93.488	21.688
U	10384	1	0.45	58921.918	315.890	144.599	74335.175	242.964	1.5098	127.1650	0.0570	1.7947	5310.734	1.5098	264.585	47.345
U	10384.5	1	1.45	89161.817	207.167	55.674	48831.907	374.653	7.4329	95.7601	0.0578	5.9579	4450.110	3.7309	307.641	74.705
U	10385.5	2	3.01	54070.030	111.159	32.866	20932.652	74.177	20.5183	41.0976	0.0915	7.2561	2727.957	4.3902	490.122	30.335
M	10387	2	3.61	46929.807	2394.905	57.142	22857.160	278.825	20.5183	41.0976	0.1197	5.2682	2636.794	5.0287	509.758	53.670
M	10387.5	2	3.55	56967.741	126.657	35.392	22299.910	81.898	20.8434	51.2952	0.0904	6.9880	2839.036	4.1265	513.494	67.952
M	10388	2	3.58	53054.253	115.287	31.379	20390.747	70.776	20.6322	51.4080	0.1149	6.2644	2547.931	4.1954	565.948	16.034
M	10390	2	3.76	45619.446	140.116	51.200	15608.755	94.203	29.1637	63.4949	0.1188	5.1972	2691.465	5.4645	788.281	80.126
M	10391	2	3.37	48306.224	57.281	27.686	12766.618	74.105	16.4416	44.0986	0.0881	4.2572	2295.302	3.9930	456.694	49.794
M	10392	2	3.63	23162.173	84.137	49.107	13882.381	60.030	19.2857	60.4464	0.1488	2.7083	1833.839	4.5536	474.137	17.470
M	10393	2	4.06	51464.454	159.368	40.891	20283.305	57.011	22.5287	58.3621	0.1149	5.8621	2806.178	3.5920	578.793	54.224
M	10394	2	4.05	63028.282	116.457	35.853	13936.189	62.780	13.9347	47.5784	0.0884	4.8609	2581.222	3.8593	276.367	59.068
M	10395	2	3.97	63446.349	99.247	39.834	16559.825	101.364	21.1371	53.0339	0.0882	5.8502	2748.853	4.3215	419.538	67.527
M	10396	2	3.08	9226.534	19.148	9.091	5032.102	86.619	4.7727	11.5909	0.0852	0.8239	1328.438	1.5625	144.034	11.307
M	10396.5	2	1.04	9238.843	16.006	11.127	4133.851	169.939	2.8264	9.3717	0.0298	0.6545	1503.897	0.9520	85.327	11.722
M	10397.5	2	4.60	32685.353	141.581	93.800	12381.655	103.811	23.9477	69.7099	0.1138	4.2947	2475.427	4.3231	497.184	40.188
M	10399	2	4.31	52788.724	93.191	50.230	14910.634	40.254	25.5414	58.0567	0.1471	4.7964	2309.528	5.3555	642.008	56.762
M	10400	2	4.23	35802.701	163.445	51.891	10553.271	60.924	15.0960	39.0756	0.0900	4.1417	2428.001	3.9016	308.974	60.774
M	10401	2	3.94	44084.676	64.999	57.233	15612.177	72.070	29.2106	62.6521	0.1449	3.6513	2372.667	5.7378	764.663	45.120
M	10402	2	4.24	51373.475	79.761	48.013	14100.064	41.768	20.9132	54.9262	0.1452	4.2407	2375.595	4.4731	415.214	49.959
M	10403	2	1.65	16036.914	37.222	13.642	5195.741	72.840	6.3580	17.8086	0.1852	2.0062	1603.148	1.8827	200.340	17.130
M	10404	2	4.09	28557.858	124.175	38.316	9183.919	58.477	20.8382	28.8847	0.0884	2.9769	2169.477	3.7137	508.253	53.496
M	10405	2	4.40	39978.565	176.669	95.127	19160.820	131.868	35.3520	87.4291	0.1509	4.8907	2879.332	5.4643	767.117	52.168
M	10406	2	4.18	38278.962	55.154	38.144	12791.215	47.477	22.3988	51.9930	0.1505	3.1912	1952.613	5.1481	488.469	37.000
M	10407	2	4.32	41758.179	88.237	35.520	9769.220	35.347	10.6069	40.0000	0.2023	3.6994	2090.173	3.2659	284.740	50.116
M	10408	2	3.56	24480.901	44.855	28.808	10041.570	89.128	20.2907	43.5756	0.1163	2.9360	1896.395	4.9128	487.355	17.645
M	10409	2	4.83	51723.024	266.679	94.700	14130.935	78.704	22.1985	133.8141	0.1187	5.7870	2860.844	4.8967	410.345	89.951
M	10409.5	3	5.15	20975.618	89.647	48.235	10120.912	50.912	24.4706	56.4118	0.1176	1.9706	1912.735	4.2647	638.647	25.118
L	10411	3	5.52	23663.171	151.343	95.514	10749.800	82.714	33.0286	82.3714	0.1429	3.0286	2175.400	5.5143	713.457	46.400
L	10412	2	4.76	46144.623	100.387	44.088	13511.301	44.499	21.3690	53.9509	0.1174	3.5811	2321.269	4.1681	440.501	46.407
L	10413	2	5.15	26348.927	157.785	47.212	8038.521	50.912	23.0610	48.8756	0.1147	2.9830	2014.743	3.8148	437.844	31.752
L	10414	3	4.71	15245.240	135.180	93.293	5712.515	76.198	18.2036	46.7066	0.0898	2.1856	1630.479	3.3832	331.856	32.575
L	10415	2	4.33	23403.618	106.881	46.046	6267.159	51.656	16.5587	23.1581	0.0900	3.0898	1917.927	3.7497	289.807	42.597
L	10416	2	1.86	5970.030	25.241	14.729	2200.693	127.892	3.8855	13.4940	0.0602	0.6024	1352.259	1.1446	77.319	13.253
L	10417	2	4.18	35383.879	152.443	42.213	13035.345	61.724	23.9655	67.3276	0.1149	6.3793	2410.374	4.8851	396.006	34.109
L	10418	2	4.49	34697.588	144.500	41.059	12811.971	42.676	23.1471	44.2647	0.1176	3.6765	2259.353	3.5882	442.412	13.912
L	10420	3	5.08	21171.494	93.171	32.287	9154.268	11.829	23.3841	47.2256	0.1220	2.2561	1864.329	3.1707	291.433	27.500
L	10422	3	4.45	18263.841	52.726	34.392	8309.467	100.989	33.3733	94.0084	0.1198	1.7675	1733.164	5.3925	608.328	105.303
L	10423	3	5.41	20118.855	124.940	91.114	11981.596	82.892	42.5000	119.9699	0.1506	2.8916	2103.313	4.7892	560.452	33.012
L	10424	2	1.34	7360.214	9.583	6.625	2988.171	142.004	5.2889	18.4258	0.0569	1.0521	1432.666	1.6777	124.090	13.819
L	10425	3	5.30	20739.655	98.259	36.937	8488.075	94.473	30.3184	67.4040	0.1192	2.2359	1667.392	3.3985	395.540	24.446
L	10426	3	4.84	22815.505	74.248	38.904	9825.273	101.959	30.7302	72.4823	0.1139	2.5347	1752.079	3.7309	386.392	26.287
L	10427	3	5.49	21100.114	65.227	48.210	14004.545	53.665	39.5739	122.0739	0.1420	2.5000	1927.642	6.9886	677.472	29.176
L	10428	2	1.12	4754.464	21.982	12.566	2258.927	149.138	4.9223	23.6028	0.0611	0.4586	1400.575	1.7733	122.233	9.508

L	10429	3	4.88	21345.034	92.527	50.961	10747.614	109.685	32.1411	99.8369	0.1208	2.3260	1810.899	4.3197	403.607	19.847
L	10430	2	1.04	4614.110	9.819	9.968	1800.791	175.553	4.0169	7.8553	0.0595	0.4761	1403.713	0.6546	71.441	9.760
L	10431	4	4.38	44270.408	72.575	43.281	17304.632	157.762	33.5359	93.5852	0.1147	6.7072	2391.596	3.8409	510.118	40.014
L	10432	4	4.71	40217.197	100.974	86.245	20246.253	142.742	34.2154	96.0740	0.1153	8.0999	2703.332	5.9091	513.144	108.757
L	10433	3	5.06	29041.526	80.914	35.564	10810.889	104.734	34.0882	75.4336	0.1205	3.4329	2075.163	4.9687	586.305	32.281
L	10434	3	5.19	36018.465	71.293	39.607	12776.442	101.054	42.6197	114.8053	0.1116	4.2118	2286.567	6.6942	638.151	73.301
L	10436	3	4.13	17233.593	62.827	27.730	6386.643	105.260	17.7767	51.1689	0.0913	1.7351	1565.628	2.4656	290.911	32.266
L	10437	3	5.01	18521.006	80.091	36.280	9783.628	31.829	26.6463	71.4329	0.0915	2.3476	1746.646	5.0305	436.921	30.122
L	10438	3	5.70	28912.093	112.026	86.382	15808.605	6.220	42.9626	107.5131	0.1220	3.5675	2102.208	6.6167	599.036	58.117
L	10439	3	5.72	24806.161	73.065	46.786	10334.792	31.548	39.6726	105.0595	0.1190	3.4524	1814.286	5.9821	543.482	60.863
L	10440	4	4.83	36553.855	80.934	45.422	11738.102	51.476	29.4578	72.2892	0.1205	4.7590	1903.524	5.7831	371.024	52.500
L	10441	3	5.56	33988.262	98.171	243.323	13598.841	53.598	42.8963	98.7805	0.1220	4.6646	2492.866	6.2500	507.896	63.872
L	10443	3	3.26	11428.929	41.548	24.018	4871.935	48.631	16.1607	43.5417	0.0893	1.6667	1446.994	2.1429	196.429	45.387
L	10444	3	5.03	25838.998	120.833	82.136	13574.390	102.986	35.9583	73.6836	0.1178	4.0346	2386.500	4.3291	376.399	62.610
L	10445	3	4.07	19442.771	62.380	47.319	7946.175	67.259	23.9458	49.0663	0.1205	2.7108	1840.572	3.4036	291.867	47.048
L	10446	3	5.38	27509.412	68.412	47.265	11570.118	44.618	42.0294	109.2353	0.1176	4.2059	1884.118	6.4118	539.029	75.353
L	10447.5	3	5.89	25952.344	60.100	57.366	15574.721	37.221	32.3661	98.6607	0.1116	3.4319	1888.170	7.0313	455.246	43.331
L	10448	4	3.82	27490.291	107.587	43.430	10158.198	43.517	29.7674	65.9012	0.1163	3.5756	1929.767	3.0814	192.878	44.593
L	10450	4	4.98	27377.990	120.983	65.898	12429.210	25.217	24.8550	46.0860	0.1208	3.3825	2055.448	5.4361	163.596	47.515
L	10451	4	4.91	21159.518	86.506	34.970	8475.030	44.217	21.8373	46.9578	0.1205	2.7711	1788.012	3.4036	152.169	62.349
L	10452	4	5.01	30419.176	118.324	41.364	11562.955	53.494	29.0625	61.0511	0.1136	3.9773	2141.023	3.5795	223.494	68.523
L	10453	4	2.85	21886.548	35.982	15.565	6824.762	24.851	8.1548	18.3333	0.0893	2.8571	1110.060	1.6369	69.970	36.369
L	10454	4	4.66	25854.226	93.988	48.452	9820.030	92.440	21.2500	55.4167	0.1190	2.7381	1992.143	2.3810	129.494	38.839
L	10455	4	5.24	29688.234	128.475	66.798	13216.151	8.896	23.8737	47.9272	0.1198	4.0139	2058.890	3.8342	135.694	61.497
L	10456	4	5.23	32886.096	122.444	48.034	12910.562	98.230	29.1292	183.1461	0.1124	4.3258	2529.944	3.4551	166.180	76.629
L	10457	4	5.26	46280.512	157.922	47.590	17242.922	69.096	23.6446	58.0723	0.1205	5.0602	2255.271	2.2892	178.976	44.639
L	10459	4	4.53	34437.557	120.747	46.724	11376.293	86.207	21.2931	61.0920	0.1149	4.7989	2241.006	2.6437	117.241	84.195
L	10460	4	4.99	38293.052	137.180	35.698	12996.308	99.273	30.2326	65.7849	0.1163	5.1744	2266.715	3.1395	190.262	64.738
L	10462	4	2.50	12812.173	26.012	12.589	3686.726	198.452	10.3571	25.7440	0.0893	2.0833	1473.601	2.7083	146.488	26.250
L	10463	4	4.79	28295.976	144.573	52.043	14236.951	60.915	30.3963	77.4695	0.1220	3.3537	1982.012	3.0183	197.896	55.274
L	10464	4	4.31	30069.509	110.000	77.312	15619.133	116.965	19.0751	54.7399	0.1156	5.5491	2301.416	4.5954	118.960	95.405
L	10466	4	4.52	26787.011	137.529	37.759	10699.684	115.517	25.2011	62.2989	0.1149	4.0517	2079.310	2.7299	150.747	27.902
L	10467	4	3.97	21812.151	106.105	50.959	8634.419	142.326	16.8314	78.5756	0.0872	3.0233	2012.413	2.6453	124.506	35.959
L	10468	4	3.05	8319.294	97.941	31.676	5505.353	167.500	7.7647	42.1765	0.0882	1.1765	1444.088	1.2353	70.000	24.235
L	10469	4	4.13	19183.694	118.724	36.088	9799.831	91.091	19.5258	47.5651	0.1162	3.0800	2167.800	2.7313	121.252	37.918
L	10470	4	4.80	36785.963	175.629	53.777	18007.669	98.998	27.8355	70.4290	0.1222	6.1415	2690.632	3.2388	205.298	68.901
L	10471	4	5.35	35676.818	150.426	40.966	12365.625	73.409	25.4545	62.2727	0.1420	4.9148	2205.426	2.5852	176.136	35.057
L	10472	4	5.29	32958.503	115.585	71.690	12001.349	97.715	27.7645	60.0864	0.1199	7.8256	2198.309	4.5574	146.168	63.205
L	10474	4	5.48	34579.398	118.163	40.783	11609.307	38.313	34.1867	63.2229	0.1205	4.0663	1982.229	3.1928	168.614	68.404
L	10476	4	5.12	34787.864	114.770	73.290	13111.379	101.738	33.8285	81.5303	0.1401	5.0448	2465.247	3.5874	191.704	77.803
L	10477	3	3.76	24432.887	64.494	45.952	10831.815	30.595	45.7738	126.1905	0.1190	4.0179	1723.512	7.3810	669.137	48.304
L	10477	4	3.76	38079.221	112.831	86.127	15667.855	142.654	26.0637	64.1847	0.1392	4.9009	2554.244	4.0098	144.687	58.114
L	10478	4	3.14	56936.110	83.080	58.068	15601.714	131.992	9.5366	42.0372	0.0878	9.4196	2536.187	4.3003	99.315	53.417
L	10479	4	4.53	38368.235	114.029	40.088	14262.706	77.324	17.0000	49.5588	0.1176	5.3824	1994.500	4.2647	103.882	74.735
L	10480	4	4.11	68640.412	132.853	39.824	15177.853	26.000	21.5000	57.9706	0.1176	11.2647	2088.559	4.9706	122.529	126.794
L	10481	4	3.98	19142.176	126.398	43.740	11363.016	93.301	20.2865	56.3798	0.1141	3.1100	2179.839	3.9375	127.568	41.429
L	10482	4	2.49	9267.098	33.477	15.489	3968.247	183.362	5.9195	17.9310	0.0862	1.1494	1455.057	1.3793	60.259	33.678
L	10483	4	3.09	13406.407	70.141	37.339	7232.955	156.162	12.5996	33.6297	0.0920	1.7167	1840.926	2.4831	86.573	25.353
L	10486	4	5.06	38874.880	141.777	70.994	12777.681	98.223	35.8434	81.8976	0.1506	5.7229	2543.042	4.4578	251.777	105.301
L	10487	4	4.25	42480.909	129.432	58.722	13679.233	112.358	30.1136	78.9773	0.1420	6.5057	2664.915	3.4091	213.381	101.847
L	10488	4	2.29	7047.887	44.702	23.185	4160.327	169.911	11.6369	24.2560	0.0893	0.7440	1468.958	1.6964	66.458	18.363

L	10490	4	4.47	32456.875	111.458	59.792	14877.292	128.958	28.0655	69.3750	0.1190	3.8988	2456.548	4.9405	204.613	51.399
L	10491	4	4.42	38317.043	151.128	66.250	14351.585	106.341	36.1890	82.3171	0.1524	4.4207	2628.720	3.5366	212.774	25.854
L	10492	4	4.16	38228.631	116.845	66.607	16888.661	101.042	33.8690	79.1667	0.1190	4.5536	2711.161	5.0893	366.310	21.905
L	10493	4	2.71	14411.518	38.601	15.714	6031.339	153.125	12.5298	20.5952	0.0893	2.2024	1721.935	3.1250	82.024	21.280
L	10494	4	1.88	7589.988	-4.005	36.042	3265.293	148.955	7.3418	0.0000	0.0580	1.7992	1455.746	1.8282	31.631	14.742
L	10495	4	2.55	41265.701	63.019	28.562	11272.239	120.693	11.8218	38.2454	0.0916	9.5308	2048.479	4.3988	94.208	69.312
L	10496	4	2.58	28538.876	51.047	21.830	10010.437	137.051	10.5263	28.9474	0.0897	6.2201	1987.769	3.1699	76.824	82.835
L	10497	4	3.39	39790.301	94.412	35.669	12573.480	110.625	20.6427	45.9757	0.1158	6.1378	2244.239	3.8217	133.845	67.458
L	10499	4	3.67	21746.635	65.415	33.954	8449.159	95.643	25.7212	51.4724	0.1202	3.0048	1728.095	2.9748	181.851	28.606
L	10500	4	2.78	17434.613	43.366	26.124	6314.621	111.969	14.2411	31.1160	0.0919	2.2969	1555.341	3.4301	120.054	18.621
L	10501	4	3.66	56578.370	178.002	96.370	18462.310	22.681	29.8079	50.0725	0.1208	9.0300	2792.764	5.5871	204.186	122.946
L	10503	4	3.16	18426.476	53.547	35.670	7962.401	128.519	18.4166	45.2611	0.1135	2.3269	1897.645	2.8093	148.468	12.457
L	10504	4	2.57	12045.930	35.479	19.226	5458.603	206.784	9.6709	25.8949	0.0866	1.6455	1684.267	1.9342	89.636	21.969
L	10505	4	3.15	29369.215	99.797	88.023	11304.767	119.273	26.1337	71.2209	0.1453	4.4477	2256.308	3.3430	185.552	57.500
L	10507	4	4.25	37040.133	134.100	50.129	14488.298	83.941	35.2817	70.7103	0.1470	5.9097	2310.743	5.5863	285.429	109.432
L	10508	4	2.66	19024.116	46.974	20.458	6067.256	130.502	13.6678	30.7012	0.0878	4.3608	1636.122	2.3999	99.479	26.136
L	10509	4	2.90	30534.585	142.186	77.717	14649.084	50.794	23.6874	48.4432	0.1221	4.4261	1958.944	3.5409	142.125	63.828
L	10510	3	3.99	30079.466	222.602	112.170	16330.396	28.118	43.7650	106.1751	0.1499	4.0168	2250.779	6.4748	595.713	81.145
L	10511	3	3.70	21631.818	110.975	77.422	11856.818	35.018	29.1567	79.7249	0.1196	2.6615	1791.358	5.5921	519.378	36.633
L	10512	4	2.67	15363.010	58.072	40.855	7885.904	83.447	12.5946	27.7019	0.0931	1.8613	1683.770	2.5437	164.661	37.163
L	10513	4	2.40	11524.927	72.748	43.463	6217.490	89.977	9.8780	26.4672	0.0872	1.4236	1578.646	2.6438	111.679	26.380
L	10514	4	2.38	9890.284	48.925	37.201	5083.324	183.661	8.5211	24.7055	0.0858	1.2581	1484.187	2.2018	92.159	23.047
L	10515	4	3.53	27555.633	167.541	99.207	16689.454	38.940	26.1277	67.8874	0.1117	3.4893	2034.697	3.6009	207.626	57.503
L	10516	4	3.45	29422.297	149.695	80.124	12796.161	45.115	21.3765	59.7943	0.1196	3.5279	1982.122	3.6773	195.348	50.108
L	10517	4	2.66	14060.866	57.131	33.390	7748.132	114.120	8.5739	23.5993	0.0849	1.8676	1603.396	2.1222	72.920	24.590
L	10518	4	3.22	16239.621	69.444	46.604	8454.973	97.639	11.3015	22.8706	0.0892	2.0224	1716.720	2.2603	98.055	34.083
L	10519	4	4.09	36525.878	162.022	94.282	16435.879	38.786	34.6242	61.2559	0.1206	4.3733	2259.229	3.6193	177.072	55.887
L	10520	4	4.16	36321.563	191.755	80.906	17109.483	38.921	30.1844	58.0937	0.1213	4.8841	2296.778	3.6707	148.920	82.969
L	10521	4	4.30	39534.762	201.819	87.116	18010.417	27.438	30.5596	64.0610	0.1201	4.6530	2205.211	4.5629	239.643	54.065
L	10522	4	3.78	25833.858	104.648	63.370	10946.768	66.245	17.9155	40.7638	0.0908	2.6329	1889.239	2.8750	165.507	48.299
L	10523	4	4.19	37052.732	142.508	96.099	16159.717	73.879	25.6204	55.7146	0.1193	5.0704	2327.338	3.7282	165.563	95.562
L	10524	4	2.95	19582.423	78.214	43.544	9056.883	159.073	10.5802	25.7110	0.0853	2.9010	1785.068	2.1615	74.317	42.264
L	10525	4	3.96	50655.391	58.287	84.412	16262.754	98.706	38.6014	70.8256	0.1232	7.1473	2295.256	5.8534	437.646	85.120
L	10527	4	4.30	39837.000	148.975	99.821	20541.205	86.217	19.2588	64.1585	0.1120	5.1226	2454.092	7.7539	139.570	78.771
L	10529	2	4.43	74124.630	304.608	116.126	28181.172	53.043	17.2924	78.7543	0.1138	14.5051	2829.096	9.5848	249.090	113.197
L	10530	2	4.73	56546.636	321.054	110.244	30354.636	22.398	9.3754	98.9087	0.0904	5.5770	2682.232	9.5848	241.408	92.699

APPENDIX B

Depth (ft)	Ash Bed Presence	Ni (ppm)	Fe (ppm)	Mo (ppm)
10380.46063	1	24.222	22810.691	13.535
10380.47703	1	21.901	23801.073	13.623
10380.49344	1	17.740	22544.192	12.869
10380.69029	0	19.240	19814.676	12.015
10380.70669	0	16.005	15355.281	9.418
10380.7231	0	21.655	13465.741	9.255
10380.7395	0	17.248	10524.746	8.944
10380.75591	0	16.368	8922.273	8.004
10380.77231	0	21.420	8473.980	7.465
10380.78871	0	22.698	8214.984	7.447
10380.80512	0	19.393	7755.870	7.141
10380.82152	0	18.560	7766.995	7.193
10380.83793	0	17.259	8026.949	7.788
10380.85	0	17.083	8555.809	7.213
10380.86	0	16.357	9347.007	8.580
10380.87	0	14.610	10054.810	8.575
10380.88	0	18.291	10725.847	8.588
10380.89	0	16.966	11397.095	8.264
10380.9	0	17.705	12462.317	9.270
10380.91	0	16.228	12979.116	7.990
10380.92	0	14.974	12608.515	7.963
10380.93	0	18.560	12286.622	7.656
10380.94	0	16.462	12292.466	8.068
10380.96	0	18.853	10588.624	6.789
10380.97	0	17.623	9547.640	7.094
10380.98	0	16.169	10862.672	8.803
10381.01	0	16.450	13945.518	11.354
10381.0164	0	21.174	18235.856	14.053
10381.03281	0	29.262	21965.689	16.994
10381.04921	0	26.320	25175.730	20.068
10381.06562	0	29.942	27713.378	21.738
10381.08202	0	30.856	27380.827	21.449
10381.09843	0	30.083	24759.948	19.145
10381.11483	0	17.259	24662.740	17.298
10381.13123	0	12.301	25278.687	14.700
10381.14764	1	11.012	23914.245	12.257
10381.16404	0	14.950	23459.127	11.459
10381.18045	0	17.681	25225.444	10.836
10381.19685	0	21.596	24833.853	11.622
10381.21325	0	20.705	22799.682	11.978
10381.22966	0	19.744	21871.496	12.147
10381.24606	0	15.958	21010.015	11.835
10381.26247	0	17.154	17785.810	12.122
10381.27887	0	19.463	20841.590	10.545
10381.29528	0	14.727	26448.854	11.087
10381.31168	0	125.357	31081.279	11.302
10381.32808	0	15.208	35207.260	11.983

10381.34449	0	17.869	37293.412	12.659
10381.36089	0	16.638	33458.729	14.125
10381.3773	0	13.508	27356.426	13.945
10381.3937	0	14.516	21819.631	12.624
10381.4101	0	14.751	17183.396	11.789
10381.42651	0	11.387	15430.378	11.215
10381.44291	0	14.024	13552.992	10.561
10381.45932	0	10.144	12388.716	10.043
10381.47572	0	13.239	11928.128	10.786
10381.49213	0	10.566	10559.829	10.816
10381.50853	0	7.718	9031.518	10.018
10381.52493	0	10.695	9087.567	9.664
10381.54134	0	13.438	10244.364	9.756
10381.55774	0	10.648	10958.618	9.851
10381.57415	0	15.009	12712.337	9.759
10381.59055	0	12.090	14669.238	11.405
10381.60696	0	5.291	14405.708	11.878
10381.62336	0	6.803	13527.563	12.117
10381.63976	0	2.584	13930.349	13.196
10381.65617	0	6.862	13880.751	15.492
10381.67257	0	12.817	14130.585	16.616
10381.68898	0	16.298	13688.298	17.633
10381.70538	0	22.053	11678.926	17.040
10381.72178	0	16.521	9596.139	15.861
10381.771	0	21.057	7156.073	12.632
10381.7874	0	10.590	4082.390	9.801
10381.80381	0	2.537	2597.459	7.554
10381.82021	0	6.370	5915.530	6.290
10381.83661	0	12.418	11104.068	5.634
10381.86942	0	0.000	14188.900	5.302
10381.88583	0	14.552	16494.642	6.130
10381.90223	0	11.375	20985.076	6.428
10381.91864	0	13.684	25196.882	5.948
10381.93504	0	13.004	23053.372	5.452
10381.95144	0	0.000	27749.161	6.833
10381.96785	0	12.266	43623.742	6.570
10382.03346	0	21.045	61180.521	8.182
10382.04987	0	41.851	71355.164	10.792
10382.06627	0	44.454	85950.753	11.696
10382.08268	0	43.891	94893.174	9.743
10382.09908	0	30.376	90532.786	9.937
10382.11549	0	0.000	82446.657	7.651
10382.13189	0	41.593	81061.179	7.941
10382.14829	0	0.000	79983.873	8.782
10382.1647	0	40.738	72934.264	9.959
10382.1811	0	41.406	61869.859	8.665
10382.19751	0	30.259	50563.405	9.356
10382.21391	0	15.606	36520.399	7.553
10382.23031	0	11.141	21560.402	5.959
10382.24672	0	0.000	13704.846	4.873
10382.26312	0	2.021	12910.306	4.744
10382.27953	0	0.000	12956.935	4.771

10382.29593	0	0.000	13182.531	4.324
10382.31234	0	52.647	13319.987	4.442
10382.32874	0	0.000	13808.085	4.295
10382.34514	0	15.267	14433.662	3.780
10382.36155	0	0.000	14722.037	2.979
10382.37795	0	0.000	13873.529	3.021
10382.39436	0	0.000	13963.375	2.510
10382.41076	0	5.034	14185.838	2.491
10382.44357	0	0.000	14299.197	2.303
10382.45997	0	0.000	14871.928	2.187
10382.47638	0	0.000	16290.526	1.906
10382.49278	0	0.000	16488.565	1.477
10382.50919	0	0.000	16366.137	1.306
10382.52559	0	0.000	17004.710	1.703
10382.54199	0	0.000	16999.521	1.914
10382.5584	0	0.000	16328.670	2.153
10382.5748	0	0.000	15722.283	2.432
10382.59121	0	0.000	14739.310	2.218
10382.60761	0	0.000	13576.108	2.023
10382.62402	0	0.000	12564.714	2.376
10382.64042	0	0.000	12229.592	2.686
10382.70604	0	0.000	10648.412	2.358
10382.72244	0	0.000	9577.534	2.897
10382.73885	0	3.826	9829.307	3.012
10382.77165	0	12.254	11229.417	2.006
10382.78806	0	0.000	12450.607	0.807
10382.80446	0	0.000	13978.707	1.126
10382.82087	0	0.000	13924.342	1.887
10382.83727	0	6.217	13850.436	1.893
10382.85367	0	10.226	12971.029	2.489
10382.88648	0	0.000	12718.157	3.308
10382.90289	0	0.000	13997.803	2.984
10382.91929	0	0.000	16796.784	1.614
10382.9357	0	0.000	18169.290	1.349
10382.9521	0	0.000	20631.046	0.778
10382.9685	0	0.000	22750.365	0.170
10382.98491	0	0.000	22411.902	0.007
10383.00131	0	0.000	20966.401	0.790
10383.01772	0	0.000	20014.234	0.657
10383.03412	0	0.000	19490.213	0.788
10383.05052	0	0.000	18230.901	1.176
10383.06693	0	0.000	17718.286	1.967
10383.08333	0	0.000	25560.261	2.893
10383.09974	0	0.000	36778.787	3.015
10383.11614	0	20.987	42637.450	5.237
10383.13255	0	76.876	51779.640	7.393
10383.14895	0	22.077	59419.252	7.318
10383.16535	0	26.426	69544.298	7.528
10383.18176	0	22.300	67967.325	8.941
10383.26378	0	30.716	65283.713	7.517
10383.28018	0	31.548	59186.785	5.420
10383.29659	0	0.000	54815.365	4.952

10383.31299	0	0.000	39637.392	3.133
10383.3294	0	0.000	31803.130	1.619
10383.3458	0	0.000	27290.304	1.054
10383.3622	0	0.000	23506.153	1.129
10383.42782	0	0.000	20272.903	1.201
10383.44423	0	0.000	17467.704	1.435
10383.46063	0	0.000	14841.870	1.922
10383.47703	0	0.000	14268.532	2.065
10383.49344	0	0.000	14586.217	1.967
10383.50984	0	0.000	15847.001	1.409
10383.52625	0	0.000	16917.131	1.740
10383.54265	0	0.000	16629.106	2.070
10383.55906	0	0.000	15181.853	2.752
10383.57546	0	0.000	13708.446	2.759
10383.59186	0	0.000	11890.474	3.081
10383.60827	0	0.000	10565.111	2.951
10383.62467	0	0.000	10714.955	2.489
10383.64108	0	0.000	12118.758	1.695
10383.65748	0	0.000	12871.811	1.474
10383.67388	0	0.000	17201.229	1.193
10383.69029	0	0.000	32890.977	0.722
10383.70669	0	0.000	49808.225	1.677
10383.7231	0	360.986	54134.792	3.505
10383.7395	0	38.136	54996.576	5.210
10383.80512	0	17.283	51856.584	6.604
10383.82152	0	13.485	41279.646	7.259
10383.83793	0	10.074	28305.017	5.748
10383.85433	0	111.009	26523.320	4.347
10383.87073	0	0.000	31890.872	2.649
10383.91995	0	99.545	43162.874	2.948
10383.93	0	0.000	51027.522	3.696
10383.94	0	23.941	57079.456	4.952
10383.95	0	29.930	64856.665	6.317
10383.96	0	33.681	68568.407	7.402
10383.97	0	43.305	66492.515	7.854
10383.98	0	35.287	62421.671	7.641
10383.99	0	39.155	52148.909	7.613
10384	0	38.569	42656.850	7.102
10384.01	0	17.646	33174.467	7.668
10384.0164	0	17.400	23820.496	6.708
10384.03281	0	13.262	15139.291	6.068
10384.04921	0	0.000	15104.465	5.805
10384.06562	0	0.000	13280.838	5.674
10384.08202	0	0.000	11897.673	5.035
10384.09843	0	0.000	10932.698	4.781
10384.11483	0	0.000	15814.980	5.828
10384.13123	0	0.000	26131.192	7.359
10384.14764	0	19.744	36371.840	6.323
10384.16404	0	26.801	45461.908	5.448
10384.18045	0	0.000	54905.515	6.061
10384.19685	0	0.000	58411.785	5.849
10384.24606	0	28.618	56781.919	4.900

10384.26247	0	24.421	54149.891	5.641
10384.27887	0	21.983	50956.491	5.341
10384.29528	0	18.982	46411.060	4.753
10384.31168	0	0.000	41795.604	3.464
10384.32808	0	26.777	37751.078	4.468
10384.34449	0	0.000	37986.537	3.520
10384.36089	0	23.823	41229.464	3.481
10384.3773	0	0.000	45276.654	2.664
10384.3937	0	0.000	50027.790	2.722
10384.4101	0	0.000	53573.888	0.592
10384.42651	0	0.000	52857.507	2.496
10384.44291	0	0.000	51283.619	3.104
10384.45932	0	39.659	49472.589	4.563
10384.47572	0	190.131	47287.148	6.200
10384.49213	0	31.138	46484.030	8.631
10384.50853	0	29.227	47476.259	8.485
10384.52493	0	34.361	48017.740	9.278
10384.54134	0	39.073	48057.638	8.333
10384.55774	0	38.124	48914.256	8.664
10384.57415	0	195.745	51713.564	6.470
10384.59055	0	42.742	51963.725	4.688
10384.60696	0	0.000	55095.280	4.639
10384.62336	0	0.000	59504.961	4.309
10384.65617	0	33.271	64288.259	2.264
10384.67257	0	0.000	66695.415	2.053
10384.68898	0	0.000	69845.528	2.101
10384.70538	0	200.153	63979.736	0.894
10384.72178	0	0.000	63562.926	2.583
10384.73819	0	0.000	65294.417	3.594
10384.80381	0	30.704	66798.069	3.837
10384.82021	0	207.549	69449.614	5.902
10384.83661	0	0.000	78498.078	9.055
10384.85302	0	36.389	80755.671	8.081
10384.86942	0	32.556	77576.342	7.259
10384.88583	0	0.000	72147.951	8.062
10384.90223	0	0.000	65605.581	6.869
10384.93504	0	178.292	56152.298	6.928
10384.95144	0	170.380	43538.595	8.588
10384.96785	0	28.993	32378.408	10.018
10384.98425	0	26.859	26023.560	10.949
10385.00066	0	22.194	24623.497	12.068
10385.01706	0	33.564	29627.762	10.765
10385.03346	0	22.956	35504.073	11.275
10385.04987	0	196.296	40079.725	13.790
10385.06627	0	28.313	40060.629	14.300
10385.08268	0	22.604	34245.696	14.869
10385.09908	0	16.896	28041.931	19.142
10385.52559	0	19.721	24729.026	21.573
10385.54199	0	29.661	23118.700	22.743
10385.5584	0	26.695	23462.446	24.864
10385.5748	0	28.641	25827.952	26.542
10385.59121	0	28.301	24846.311	25.337

10385.60761	0	23.108	23641.646	24.956
10385.64042	0	29.333	23587.374	24.990
10385.65682	0	28.102	25194.521	26.102
10385.67323	0	23.894	26559.432	27.268
10385.68963	0	21.713	26438.453	27.971
10385.70604	0	24.398	26768.970	28.810
10385.72244	0	26.719	26951.653	29.117
10385.73885	0	23.331	25774.545	29.630
10385.75525	0	29.473	24669.822	29.816
10385.77165	0	25.382	24198.133	29.245
10385.78806	0	24.456	23021.655	28.384
10385.80446	0	25.394	21494.466	27.396
10385.82087	0	22.218	19340.883	25.870
10385.83727	0	21.702	16847.947	24.035
10385.85367	0	22.616	15089.927	22.003
10385.87008	0	28.078	13704.963	19.927
10385.90289	0	280.704	12913.555	18.999
10385.91929	0	131.358	12756.302	18.304
10385.9357	0	29.133	13190.875	18.456
10385.9521	1	34.338	13675.817	19.344
10385.9685	0	35.111	14922.016	20.932
10385.98491	0	23.284	16539.307	21.583
10386.00131	0	17.142	19368.697	22.231
10386.01772	0	18.889	24065.421	24.443
10386.03412	0	24.058	29306.080	26.135
10386.05052	0	26.906	35042.293	27.705
10386.06693	0	27.609	41401.021	29.273
10386.08333	0	32.075	44877.678	30.981
10386.09974	0	44.934	46633.758	31.015
10386.11614	0	33.072	48118.454	27.057
10386.13255	0	26.261	42739.263	24.944
10386.14895	0	0.000	34603.980	23.296
10386.16535	0	19.592	28295.294	20.637
10386.18176	1	21.303	22298.075	19.495
10386.19816	1	20.061	16107.048	22.692
10386.21457	1	25.113	15513.843	23.153
10386.23097	1	21.948	16391.964	23.792
10386.24738	1	25.171	16957.800	23.993
10386.26378	1	43.727	16997.254	24.421
10386.28018	1	27.199	17845.598	25.085
10386.29659	0	28.418	18867.838	25.818
10386.3294	0	33.283	19826.877	25.534
10386.3458	0	31.478	20862.579	26.378
10386.3622	0	34.279	21905.129	26.172
10386.37861	0	32.919	22008.391	25.947
10386.39501	0	31.630	22127.990	25.795
10386.41142	0	33.974	21867.873	26.805
10386.42782	0	308.320	21392.046	27.212
10386.44423	0	31.958	21522.958	27.219
10386.46063	0	31.091	21394.010	27.015
10386.49344	0	34.162	20952.915	27.208
10386.50984	0	30.540	21271.699	26.098

10386.52625	0	29.086	22308.616	25.476
10386.54265	0	32.345	22795.849	25.697
10386.55906	0	298.474	23236.499	25.046
10386.57546	0	36.143	24411.948	25.343
10386.59186	0	26.191	24682.911	25.966
10386.60827	0	24.093	22214.891	24.588
10386.62467	0	26.543	20482.137	22.443
10386.64108	0	20.952	19350.840	22.215
10386.81	0	21.092	17768.327	20.733
10386.82	0	28.336	16846.966	20.124
10386.83	0	26.613	18629.130	21.232
10386.84	0	25.593	18545.665	22.064
10386.85	0	31.009	16221.155	19.516
10386.86	0	30.774	16684.383	21.150
10386.87	0	21.678	16859.236	21.296
10386.89	0	22.581	15150.884	20.686
10386.9	0	26.648	13840.316	19.273
10386.91	0	25.992	16259.931	21.896
10386.98	0	23.448	13708.235	18.620
10386.99	0	25.968	12273.090	18.402
10387	0	23.144	13048.581	20.270
10387.01	0	21.631	14325.749	22.068
10387.0164	0	25.335	14355.806	21.790
10387.03281	0	23.554	16636.118	24.845
10387.04921	0	23.648	17334.245	24.583
10387.06562	0	26.320	16938.938	23.575
10387.08202	0	24.550	17372.132	24.399
10387.09843	0	21.338	17251.925	25.936
10387.11483	0	27.645	16879.080	26.388
10387.13123	0	24.386	17562.435	27.787
10387.14764	0	25.382	18207.248	28.821
10387.16404	0	25.816	18014.117	28.649
10387.18045	0	27.445	18004.955	28.442
10387.19685	0	24.327	17844.897	27.961
10387.21325	0	28.582	17283.876	27.423
10387.22966	0	24.304	18092.744	26.144
10387.24606	0	28.125	19033.458	25.821
10387.26247	0	25.406	18899.111	24.968
10387.27887	0	32.415	19191.693	24.006
10387.29528	0	28.477	19571.691	23.598
10387.31168	0	20.588	18724.211	23.992
10387.32808	0	24.398	17789.199	22.717
10387.34449	0	24.808	17583.284	22.493
10387.36089	0	23.706	17369.725	21.848
10387.3773	0	18.572	17152.754	20.896
10387.3937	0	24.058	16769.718	20.254
10387.4101	0	23.038	16118.220	20.207
10387.42651	0	24.445	15746.497	19.114
10387.44291	0	28.957	15285.279	18.337
10387.47572	0	22.311	14483.867	18.188
10387.49213	0	21.842	14062.873	16.460
10387.50853	0	20.752	14619.897	16.607

10387.52493	0	20.119	16544.964	18.005
10387.54134	0	21.749	17978.544	19.840
10387.55774	0	24.691	19291.613	20.974
10387.57415	0	29.040	20476.808	23.925
10387.59055	0	29.790	21641.365	24.608
10387.60696	0	25.464	19953.792	24.302
10387.62336	0	28.114	17225.444	21.302
10387.63976	0	18.525	16203.275	20.623
10387.65617	0	16.603	16423.378	20.420
10387.67257	0	22.053	16234.033	21.865
10387.68898	0	25.769	17543.129	23.084
10387.70538	0	22.815	20427.538	26.056
10387.72178	0	26.215	22000.374	27.742
10387.73819	0	22.956	23482.523	28.181
10387.75459	0	29.837	25278.150	28.170
10387.771	0	26.168	25522.911	28.058
10387.7874	0	26.824	25567.811	28.183
10387.80381	0	32.275	25665.463	27.746
10387.82021	0	24.984	22282.065	26.046
10387.83661	0	26.719	20581.239	25.443
10387.85302	0	21.983	20023.069	25.589
10387.86942	0	29.262	20021.480	25.484
10387.88583	0	26.426	20176.700	25.469
10387.90223	0	26.367	21667.193	26.694
10387.91864	0	23.624	18705.326	23.037
10387.93504	0	22.323	18784.303	21.568
10387.96785	0	201.805	19435.707	23.187
10387.98425	0	28.700	19583.167	23.827
10388.04987	0	34.642	20759.644	24.755
10388.06627	0	35.404	24310.346	28.949
10388.08268	0	35.147	24046.232	30.020
10388.09908	0	33.810	23054.751	29.388
10388.11549	0	362.791	22660.216	29.296
10388.14829	0	30.317	22569.318	28.204
10388.1647	0	29.801	22492.538	28.389
10388.1811	0	318.448	23220.909	28.793
10388.19751	0	36.084	23364.396	28.096
10388.21391	0	31.091	23384.240	28.663
10388.23031	0	32.732	23226.846	29.341
10388.24672	0	39.179	22843.834	29.261
10388.26312	0	36.448	22692.914	28.952
10388.27953	0	32.216	22781.591	29.702
10388.29593	0	35.264	22064.720	28.742
10388.31234	0	31.103	21348.479	28.655
10388.32874	0	31.079	21092.592	28.787
10388.34514	0	27.141	20763.968	29.084
10388.36155	0	30.892	20313.127	28.929
10388.37795	0	28.137	20539.237	29.421
10388.39436	0	29.696	20236.534	28.684
10388.41076	0	28.442	19913.988	27.170
10388.42717	0	27.680	19875.469	27.990
10388.45997	0	35.311	20082.951	27.942

10388.47638	0	31.982	20120.721	26.707
10388.49278	0	27.750	20378.385	26.961
10388.50919	0	29.180	20462.317	27.726
10388.52559	0	33.517	20761.444	27.595
10388.54199	0	28.407	21237.644	28.716
10388.5584	0	27.492	21956.409	29.993
10388.5748	0	26.742	22358.845	30.287
10388.59121	0	32.451	22471.806	30.630
10388.60761	0	28.688	22405.848	29.870
10388.62402	0	30.223	22015.520	28.307
10388.64042	0	28.266	21546.869	27.921
10388.65682	0	24.620	21686.195	28.426
10388.67323	0	30.165	22331.171	28.728
10388.68963	0	31.618	23174.631	29.210
10388.70604	0	28.571	23196.695	29.774
10388.72244	0	26.250	23305.005	31.326
10388.73885	0	27.234	23666.515	31.799
10388.75525	0	30.540	23590.973	31.715
10388.77165	0	29.907	22880.646	31.502
10388.78806	0	31.009	22899.578	31.991
10388.80446	0	30.563	21980.460	30.892
10388.82087	0	27.949	21137.655	29.852
10388.83727	0	28.957	20521.895	29.710
10388.87008	0	28.723	20734.355	29.994
10388.90289	0	30.739	21158.854	29.895
10388.91929	0	28.524	21978.707	29.635
10388.9357	0	31.302	22557.375	30.241
10388.9521	0	30.048	23206.582	30.510
10388.9685	0	31.489	23203.286	30.100
10388.98491	0	31.442	22914.794	29.168
10389.00131	0	33.459	22413.421	28.724
10389.01772	0	32.556	21667.076	27.921
10389.05052	0	25.031	20853.674	28.067
10389.06693	0	26.250	20203.532	28.810
10389.08333	0	30.423	20005.680	28.991
10389.09974	0	32.826	20046.863	28.822
10389.11614	0	26.379	19641.646	28.517
10389.13255	0	34.279	19413.993	27.683
10389.16535	0	22.815	19722.025	27.422
10389.18176	0	21.948	19406.210	27.291
10389.19816	0	26.977	19079.293	27.293
10389.21457	0	27.727	19444.121	27.596
10389.23097	0	26.930	18615.550	26.805
10389.24738	0	25.230	16214.610	23.304
10389.26378	1	26.894	14471.947	21.061
10389.28018	1	35.029	14062.055	20.386
10389.29659	1	22.253	14435.111	21.479
10389.31299	1	24.187	15531.185	21.935
10389.3294	1	27.023	15738.176	22.208
10389.3458	1	19.170	19999.462	23.121
10389.3622	1	12.946	25782.515	23.954
10389.47703	1	15.829	30697.636	23.719

10389.49344	0	17.658	30219.005	23.318
10389.50984	0	15.372	31661.139	24.867
10389.54265	0	22.909	27895.196	24.242
10389.55906	0	25.371	21199.874	22.163
10389.57546	0	19.486	14100.878	19.180
10389.59186	0	30.141	12391.146	18.482
10389.60827	0	25.265	11083.804	17.907
10389.62467	0	22.780	10880.249	18.702
10389.64108	1	29.356	11893.560	19.869
10389.65748	1	30.048	13545.186	21.886
10389.67388	0	24.843	15173.673	22.747
10389.69029	0	28.184	16438.617	23.640
10389.70669	0	30.985	17684.138	25.041
10389.7231	0	41.523	18149.026	26.299
10389.7395	0	341.504	17785.039	26.783
10389.75591	0	34.889	17679.650	26.953
10389.77231	0	30.329	18140.565	27.557
10389.78871	0	29.649	18740.689	28.067
10389.80512	0	29.790	19269.034	28.654
10389.82152	0	31.044	20022.228	28.597
10389.83793	0	32.052	21027.218	29.730
10389.85433	0	29.930	20560.507	29.569
10389.87073	0	30.622	18359.336	26.334
10389.88714	0	295.403	16571.586	24.070
10389.90354	0	213.855	15853.031	23.911
10389.94	0	24.304	15008.964	25.191
10389.95	0	29.544	16014.585	26.729
10389.96	0	33.681	18755.881	31.846
10389.97	0	32.075	18908.320	31.892
10389.98	0	33.271	16663.465	28.526
10389.99	0	23.601	16235.903	26.234
10390.01	0	21.174	15118.536	24.738
10390.0164	0	29.579	13932.592	21.301
10390.03281	0	29.016	15126.366	23.267
10390.04921	0	28.254	17651.416	26.854
10390.06562	0	30.012	17399.128	26.376
10390.08202	0	25.816	16613.610	25.492
10390.09843	0	24.269	15729.996	24.705
10390.13123	0	37.725	15008.075	23.721
10390.14764	0	30.212	14590.751	23.059
10390.16404	0	29.040	15096.776	23.269
10390.18045	0	32.064	16039.991	24.021
10390.19685	0	28.477	16444.904	24.221
10390.21325	0	34.185	15314.892	22.325
10390.22966	0	346.076	14482.862	21.236
10390.24606	0	200.528	13408.711	19.697
10390.26247	0	29.016	11923.360	17.382
10390.27887	0	238.600	10780.633	16.039
10390.29528	0	239.373	10444.927	15.138
10390.31168	0	204.607	9451.904	13.144
10390.32808	0	228.660	8770.349	11.946
10390.34449	0	229.609	8960.511	11.859

10390.36089	0	201.594	9857.892	12.853
10390.3773	0	67.651	10845.002	14.557
10390.3937	0	31.841	11462.259	15.491
10390.4101	0	24.023	10779.278	15.152
10390.42651	0	21.303	8593.159	13.043
10390.44291	0	15.923	5606.329	10.313
10390.45932	0	21.163	2810.130	6.930
10390.47572	0	20.635	624.268	4.793
10390.49213	0	16.157	0.000	3.971
10390.50853	0	18.666	0.000	4.280
10390.52493	0	11.867	0.000	4.344
10390.54134	0	16.333	0.000	4.170
10390.55774	0	8.292	0.000	4.641
10390.57415	0	8.292	232.771	4.907
10390.59055	0	10.414	601.246	4.891
10390.60696	0	9.160	747.888	4.642
10390.62336	0	7.308	870.713	5.274
10390.63976	0	5.010	973.086	5.258
10390.65617	0	9.019	1056.481	5.002
10390.67257	0	11.258	1129.521	5.163
10390.68898	0	28.043	1247.204	5.414
10390.70538	0	8.644	1279.926	5.600
10390.72178	0	6.862	1524.992	5.778
10390.73819	0	7.507	1871.192	5.905
10390.75459	0	8.280	2207.295	5.970
10390.771	0	11.457	2583.249	6.297
10390.7874	0	10.238	2930.454	6.429
10390.80381	0	11.715	2980.846	5.975
10390.82021	0	11.762	2643.785	6.076
10390.83661	0	10.402	2286.669	5.807
10390.85302	0	11.691	1872.127	5.383
10390.86942	0	10.191	1576.482	4.606
10390.88583	0	8.761	3242.833	6.937
10390.90223	0	11.856	8370.157	8.753
10390.91864	0	10.719	10935.993	10.347
10390.93504	0	96.181	12812.187	12.123
10390.95144	0	13.731	14587.666	15.046
10391.00066	0	19.920	14836.915	15.110
10391.01706	0	26.390	12211.736	15.456
10391.03346	1	27.844	12139.490	16.736
10391.04987	1	29.086	12607.907	17.337
10391.06627	0	26.894	13048.557	17.327
10391.08268	0	30.118	13485.889	17.628
10391.09908	1	27.551	12728.558	16.649
10391.11549	1	271.057	10565.275	13.841
10391.13189	0	194.151	10628.265	12.872
10391.14829	0	15.372	15165.749	14.091
10391.1647	0	20.448	14787.014	13.772
10391.1811	0	24.749	15575.734	14.320
10391.21391	0	21.045	17816.943	16.066
10391.23031	0	239.045	17811.497	16.910
10391.24672	0	278.301	13380.967	15.320

10391.26312	0	28.360	13577.627	15.429
10391.27953	0	25.980	13585.878	16.716
10391.29593	0	24.316	13709.755	17.676
10391.31234	0	25.629	13937.150	18.036
10391.32874	0	29.450	14258.154	18.140
10391.34514	0	28.957	14570.697	18.099
10391.36155	0	27.258	14873.681	17.007
10391.37795	0	32.263	15055.359	17.188
10391.39436	0	30.247	15215.557	17.390
10391.41076	0	29.602	15491.428	17.423
10391.42717	0	28.641	15893.536	17.928
10391.44357	0	29.004	16174.082	19.016
10391.45997	0	29.192	16257.570	18.736
10391.47638	0	32.626	16070.025	18.434
10391.49278	0	28.629	15497.949	18.552
10391.50919	0	32.685	14760.883	17.907
10391.52559	0	26.156	14105.576	16.451
10391.54199	0	25.769	13617.291	16.028
10391.5584	0	25.277	13569.237	15.111
10391.5748	0	24.656	13761.596	14.708
10391.59121	0	29.040	13801.236	14.977
10391.60761	0	31.173	13951.080	16.271
10391.62402	0	27.434	14223.819	16.442
10391.64042	0	24.421	14407.204	17.241
10391.65682	0	26.836	14442.006	17.671
10391.67323	0	27.961	14684.150	17.067
10391.68963	0	25.101	14822.728	16.659
10391.70604	0	24.808	15094.041	17.031
10391.72244	0	26.766	15176.664	18.002
10391.73885	0	28.840	14785.588	17.669
10391.75525	0	22.112	14981.898	18.838
10391.77165	0	24.597	15024.273	19.534
10391.80446	0	25.019	14792.179	20.121
10391.82087	0	25.546	14656.196	20.387
10391.83727	0	23.847	14843.296	21.089
10391.85367	0	27.211	14407.835	21.575
10391.87008	0	26.238	14024.588	21.760
10391.88648	0	27.809	13501.361	21.646
10391.90289	0	23.612	12956.141	20.921
10391.91929	0	20.084	12338.627	20.190
10391.9357	0	25.511	11869.322	19.547
10391.9521	0	33.224	11730.931	18.957
10391.9685	0	33.037	11855.742	18.722
10391.98491	0	307.347	11952.062	18.580
10392.00131	0	446.202	12272.085	19.003
10392.01772	0	438.150	12493.847	18.227
10392.03412	0	450.071	12700.160	18.189
10392.05052	0	518.689	12586.310	17.874
10392.06693	0	483.841	12549.334	17.690
10392.08333	0	482.926	13072.351	18.686
10392.09974	0	388.661	13496.921	19.644
10392.11614	0	32.697	13156.587	18.677

10392.13255	0	54.968	12871.834	18.266
10392.14895	0	305.683	12682.186	18.173
10392.16535	0	264.247	11856.771	16.983
10392.18176	0	266.087	10706.588	15.738
10392.19816	0	240.018	10845.306	16.837
10392.21457	0	247.485	11160.280	17.190
10392.24738	0	29.098	11594.783	17.710
10392.26378	0	26.965	12279.307	19.098
10392.28018	0	25.488	13139.081	20.440
10392.29659	0	22.323	13691.734	21.311
10392.31299	0	20.471	14841.309	23.087
10392.3294	0	25.113	15849.011	24.190
10392.3458	0	24.714	16580.491	24.564
10392.3622	0	20.952	17383.679	24.935
10392.39501	0	25.042	17777.723	25.145
10392.41142	0	25.218	17742.804	25.263
10392.42782	0	23.964	15715.294	22.779
10392.44423	0	22.218	14567.752	21.028
10392.46063	0	22.159	14460.634	21.135
10392.54265	0	18.009	14989.938	21.500
10392.55906	0	24.984	15243.675	20.585
10392.57546	0	27.949	17147.869	22.470
10392.59186	0	27.375	18040.155	22.943
10392.60827	0	27.516	17911.627	21.811
10392.62467	0	29.215	17686.756	20.507
10392.64108	0	24.058	17992.240	20.367
10392.65748	0	28.231	18567.542	20.167
10392.69029	0	28.149	19523.309	20.627
10392.70669	0	30.903	20772.102	22.056
10392.7231	0	27.949	21483.715	22.811
10392.7395	0	30.329	21664.131	22.585
10392.75591	0	26.742	21820.800	22.616
10392.77231	0	26.484	21556.989	21.860
10392.78871	0	32.521	20875.878	21.649
10392.80512	0	32.638	20119.015	20.891
10392.82152	0	26.449	19010.179	20.374
10392.83793	0	31.278	18776.099	20.427
10392.85433	0	26.801	18798.467	21.292
10392.88714	0	32.462	17630.731	20.260
10392.90354	0	28.313	15726.022	18.922
10392.91995	0	27.070	15546.705	19.023
10392.93635	0	24.351	15227.547	20.083
10392.95276	0	26.519	15166.708	21.489
10392.96	0	28.172	16554.173	22.894
10392.97	0	28.782	18048.265	25.244
10392.98	0	36.143	16092.463	23.534
10392.99	0	28.055	14741.086	22.502
10393	0	17.283	13219.273	21.045
10393.6	1	21.303	12774.883	19.631
10393.6164	0	23.788	12290.502	17.910
10393.68202	0	30.259	13875.773	19.453
10393.69843	0	26.015	14252.942	19.005

10393.71483	0	26.133	14785.074	18.254
10393.73123	0	29.708	14516.659	18.481
10393.74764	0	28.043	15750.961	19.925
10393.76404	0	31.560	17163.272	20.926
10393.78045	0	32.744	18355.923	21.899
10393.79685	0	30.645	19394.594	23.213
10393.81325	0	29.684	20339.609	24.108
10393.82966	0	30.470	20556.276	24.511
10393.84606	0	30.458	20438.500	25.282
10393.86247	0	31.700	20375.393	25.288
10393.87887	0	30.399	20558.053	26.831
10393.89528	0	29.168	21196.391	27.801
10393.91168	0	28.008	21413.900	28.306
10393.92808	0	32.744	21386.109	29.080
10393.94449	0	31.782	21299.069	30.312
10393.96089	0	27.563	21314.261	30.171
10393.9773	0	29.883	20620.435	30.936
10393.9937	0	30.223	20591.569	33.334
10394.0101	0	33.576	20789.562	34.499
10394.04291	0	28.711	20261.052	34.973
10394.05932	1	32.216	17107.574	30.886
10394.07572	1	284.771	16343.863	28.600
10394.09213	1	32.615	16152.579	26.477
10394.14134	1	587.941	15775.012	25.282
10394.15774	1	630.069	16180.837	24.970
10394.17415	1	548.275	19017.518	29.047
10394.19055	1	440.494	19840.900	31.716
10394.20696	1	30.305	19930.582	33.538
10394.22336	1	26.766	20877.210	34.631
10394.23976	0	27.035	20718.929	35.718
10394.25617	0	26.531	18836.752	32.434
10394.27257	0	18.197	16169.875	28.612
10394.28898	0	9.324	14358.190	25.398
10394.30538	0	17.294	13285.956	24.702
10394.32178	0	15.489	13265.739	23.278
10394.33819	0	21.209	15231.217	26.270
10394.35459	0	25.007	18716.474	30.632
10394.371	0	22.733	21237.481	33.270
10394.3874	0	28.641	21881.616	33.832
10394.40381	0	28.407	21069.616	31.980
10394.42021	0	20.319	19144.644	29.904
10394.43661	0	15.876	17776.765	28.791
10394.55144	0	18.537	16422.443	26.984
10394.56785	0	24.351	15425.797	25.815
10394.58425	0	28.946	15842.209	26.827
10394.60066	0	23.401	17213.126	28.582
10394.61706	0	19.967	17129.007	28.120
10394.63346	0	19.041	16770.022	27.829
10394.64987	0	21.502	16608.702	27.338
10394.66627	0	26.859	16504.155	27.166
10394.68268	0	26.625	16044.783	26.739
10394.69908	0	26.191	15614.861	25.830

10394.71549	0	23.566	15693.674	25.671
10394.73189	0	26.426	15684.465	25.178
10394.74829	0	23.272	15061.202	24.669
10394.7647	0	21.784	15389.989	24.799
10394.7811	0	25.406	16271.430	25.356
10394.79751	0	22.628	17925.884	26.672
10394.81391	0	25.183	19402.026	28.111
10394.83031	0	30.692	21291.963	29.962
10394.84672	0	27.211	22375.837	30.597
10394.86312	0	27.645	23039.886	31.444
10394.87953	0	27.668	23127.581	31.812
10394.89593	0	24.034	27499.351	32.270
10394.91234	0	27.609	40415.220	31.257
10394.92874	0	34.443	45881.663	30.995
10394.94514	0	452.427	44989.728	30.510
10394.96155	0	29.321	43709.544	28.426
10394.97795	1	23.390	39156.517	27.129
10394.99436	1	25.371	26231.603	26.906
10395.01076	1	29.755	20257.523	26.323
10395.02717	0	29.919	20310.066	25.065
10395.04357	0	23.976	20012.341	25.788
10395.05997	0	29.262	18888.733	24.472
10395.07638	0	23.823	18145.730	23.956
10395.09278	0	24.972	17757.763	23.067
10395.10919	0	26.308	17162.290	22.838
10395.12559	0	22.464	16669.916	21.030
10395.14199	0	24.609	20219.355	22.790
10395.1584	0	23.214	24366.488	24.987
10395.1748	0	32.122	25287.709	25.814
10395.19121	0	38.112	26421.181	27.771
10395.20761	0	34.150	27519.382	29.372
10395.22402	0	32.615	24890.346	29.464
10395.24042	1	28.899	21827.835	28.258
10395.25682	1	32.990	22261.543	29.417
10395.27323	0	37.174	22735.523	29.012
10395.28963	0	37.948	23235.424	29.218
10395.30604	0	35.440	23507.836	29.266
10395.32244	0	32.579	23691.571	29.977
10395.33885	0	31.970	23816.803	31.051
10395.35525	0	33.881	23906.742	31.513
10395.37165	0	34.244	24254.976	34.245
10395.38806	0	330.556	24515.187	35.187
10395.40446	0	38.218	24877.491	35.901
10395.42087	0	342.548	25978.614	36.784
10395.43727	0	41.101	26632.846	38.462
10395.45367	0	26.918	26208.978	37.391
10395.47008	0	28.207	25875.259	37.020
10395.48648	0	32.521	25141.465	37.218
10395.50289	0	30.552	23569.260	36.375
10395.51929	0	33.248	21650.060	33.444
10395.5357	0	31.419	20884.432	32.742
10395.5521	0	29.872	20052.776	32.403

10395.5685	0	296.528	18520.329	30.838
10395.60131	0	40.105	16655.004	28.448
10395.61772	0	38.323	14428.917	25.690
10395.63412	0	47.103	11377.017	20.704
10395.65052	0	24.855	8380.745	15.598
10395.66693	0	4.916	5985.158	11.200
10395.68333	0	6.112	3822.366	7.750
10395.69974	0	4.319	2876.439	6.521
10395.71614	0	0.239	2412.626	6.374
10395.73255	0	0.000	2293.518	6.697
10395.74895	0	0.000	2299.898	6.694
10395.76535	0	0.087	1933.130	6.029
10395.78176	0	0.000	1934.532	6.218
10395.79816	0	7.472	2238.474	6.188
10395.83097	0	3.392	2718.251	6.125
10395.84738	0	0.000	3063.306	6.014
10395.86378	0	19.979	3490.376	6.408
10395.88018	0	24.351	4245.883	6.871
10395.89659	0	5.643	4940.224	7.915
10395.91299	0	19.346	8156.412	12.103
10395.9294	0	15.290	11526.347	16.850
10396	0	28.360	15316.949	21.595
10396.0164	0	28.688	18271.477	25.380
10396.03281	0	30.927	21438.979	29.926
10396.04921	0	28.067	21638.841	30.330
10396.06562	0	30.610	21744.884	30.459
10396.08202	0	28.524	21711.835	30.727
10396.09843	0	31.442	21785.086	30.456
10396.11483	0	29.286	21679.346	29.068
10396.13123	0	31.325	21523.426	29.119
10396.14764	0	28.102	21646.087	29.398
10396.16404	0	27.692	21913.543	28.531
10396.18045	0	41.359	21579.614	28.055
10396.19685	0	296.622	19004.897	25.349
10396.21325	0	23.343	15346.609	20.463
10396.22966	0	12.383	11365.471	15.506
10396.24606	0	8.011	7261.321	11.400
10396.26247	0	7.858	3702.088	7.362
10396.27887	0	6.909	2310.650	5.888
10396.29528	0	15.841	2133.226	6.130
10396.31168	0	38.487	2046.278	6.611
10396.32808	0	44.582	1955.334	6.594
10396.34449	0	19.873	1815.961	6.761
10396.36089	0	18.361	1689.397	7.085
10396.3773	0	18.431	1543.690	6.187
10396.3937	0	14.094	1419.603	5.395
10396.4101	0	9.124	1498.533	5.172
10396.42651	0	8.656	1634.657	5.551
10396.44291	0	5.936	1829.938	5.429
10396.45932	0	6.464	2393.741	6.438
10396.47572	0	0.790	3110.799	7.006
10396.49213	0	14.165	3309.750	6.825

10396.50853	0	49.635	3360.212	6.403
10396.52493	0	27.891	3416.284	6.344
10396.54134	0	5.092	2990.031	5.944
10396.55774	0	5.420	2420.433	5.049
10396.57415	0	8.937	2316.797	5.501
10396.59055	0	9.793	2366.254	6.221
10396.60696	0	9.910	2381.049	6.333
10396.62336	0	12.969	2473.419	6.744
10396.63976	0	14.880	2414.987	7.663
10396.65617	0	12.910	2343.956	7.771
10396.67257	0	17.658	2267.831	7.537
10396.68898	0	21.127	2135.400	7.880
10396.70538	0	21.819	2082.366	7.711
10396.72178	0	50.725	2223.095	7.171
10396.73819	0	42.004	2519.511	7.460
10396.75459	0	58.332	2336.243	6.663
10396.771	0	45.790	5905.994	9.717
10396.7874	0	10.625	9605.979	13.791
10396.82021	0	33.752	13081.233	18.284
10396.83661	0	29.872	16260.258	21.398
10396.85302	0	32.169	19959.565	26.468
10396.86942	0	28.442	19968.727	27.064
10396.88583	0	30.622	19857.589	26.547
10396.90223	0	30.821	19724.970	24.593
10396.91864	0	31.712	19778.191	24.308
10396.93504	0	34.748	20118.571	23.629
10396.95144	0	321.824	20464.117	23.278
10396.96785	0	313.103	20668.677	23.815
10396.98425	0	304.358	20929.612	25.946
10397.00066	0	328.986	20893.501	26.666
10397.01706	0	319.714	20582.805	27.917
10397.03346	0	37.514	20205.074	27.714
10397.04987	0	35.486	19801.751	27.577
10397.06627	0	35.533	19447.347	27.245
10397.08268	0	34.936	19316.668	27.899
10397.09908	0	31.009	19470.556	27.442
10397.11549	0	29.192	19797.053	28.759
10397.13189	0	30.739	20043.965	29.424
10397.14829	0	33.306	19734.787	29.535
10397.1647	0	34.045	19394.828	29.531
10397.1811	0	29.368	18611.857	28.562
10397.19751	0	33.974	17430.471	28.097
10397.21391	0	32.169	15910.458	27.224
10397.23031	0	85.585	14533.698	26.192
10397.24672	0	147.241	13894.868	25.390
10397.27953	0	117.292	13934.602	26.623
10397.29593	0	34.490	13854.947	25.689
10397.31234	0	339.348	14699.669	26.059
10397.32874	0	31.255	16065.327	27.670
10397.34514	0	27.680	16350.641	28.163
10397.36155	0	26.555	16200.330	27.748
10397.37795	0	27.246	16287.300	27.589

10397.39436	0	25.171	16169.501	27.090
10397.41076	0	34.103	16240.484	26.446
10397.42717	0	310.840	16591.149	26.896
10397.44357	0	28.114	16955.463	27.676
10397.45997	0	26.601	17246.339	28.773
10397.47638	0	24.116	16766.937	29.595
10397.49278	0	26.637	16393.086	28.737
10397.50919	0	29.204	16013.626	28.033
10397.52559	0	26.027	15750.260	28.580
10397.54199	0	23.179	15477.428	28.043
10397.5748	0	25.464	15553.787	28.538
10397.60761	0	21.713	15266.393	29.979
10397.62402	0	23.272	15142.213	29.810
10397.64042	0	25.652	14739.170	27.553
10397.65682	0	23.401	14372.775	27.088
10397.67323	0	20.342	13423.179	24.361
10397.68963	0	27.727	10895.301	19.966
10397.70604	0	30.130	8959.086	16.234
10397.72244	0	21.702	6502.472	12.298
10397.78806	0	23.636	4091.786	8.384
10397.80446	0	2.502	2592.060	5.399
10397.82087	0	3.228	2635.651	4.733
10397.83727	0	11.258	1998.364	4.331
10397.85367	0	0.298	3116.245	4.747
10397.87008	0	0.000	4385.630	4.832
10397.88648	0	0.000	4867.347	6.453
10397.90289	0	0.000	6375.720	9.758
10397.91929	0	36.870	9208.569	13.632
10397.9357	0	27.316	10803.282	18.833
10397.9685	0	35.744	12429.151	23.997
10397.98491	0	31.032	14734.355	26.938
10398.00131	0	328.763	16002.992	29.131
10398.01772	0	36.940	15981.863	29.503
10398.03412	0	76.735	15972.093	28.510
10398.05052	0	300.994	15822.155	27.788
10398.06693	0	32.134	15813.694	27.665
10398.08333	0	34.654	16065.514	26.784
10398.09974	0	37.444	16554.780	27.161
10398.11614	0	35.815	16870.011	27.905
10398.13255	0	29.661	16885.297	27.333
10398.14895	0	31.220	16552.022	27.530
10398.16535	0	60.172	15974.033	27.643
10398.18176	0	34.654	15135.925	27.288
10398.19816	0	30.188	14308.453	26.004
10398.21457	0	31.900	13831.481	25.860
10398.23097	0	30.341	13999.813	25.712
10398.24738	0	28.899	13921.654	24.903
10398.26378	0	29.872	13560.916	23.458
10398.28018	0	29.614	13856.350	22.342
10398.29659	0	289.425	14135.446	21.703
10398.3294	0	302.823	14056.656	20.800
10398.3458	0	312.587	14315.862	20.563

10398.3622	0	288.839	15027.966	20.679
10398.37861	0	280.669	16498.942	21.552
10398.39501	0	285.229	18591.102	23.038
10398.41142	0	27.680	19038.460	22.643
10398.42782	0	28.336	18837.266	22.099
10398.44423	0	28.031	18447.241	22.530
10398.46063	0	38.276	16953.102	21.553
10398.47703	0	27.117	14902.336	20.726
10398.49344	0	60.184	14611.483	20.584
10398.50984	0	310.934	15108.112	19.284
10398.52625	0	290.070	15843.425	18.080
10398.54265	0	306.843	16457.385	19.109
10398.55906	0	327.087	16863.467	19.070
10398.57546	0	302.870	16951.162	19.453
10398.59186	0	290.574	17480.466	22.024
10398.60827	0	30.751	17747.946	24.474
10398.64108	0	30.200	18047.120	25.040
10398.65748	0	35.580	18552.934	26.205
10398.67388	0	328.259	19330.458	27.998
10398.69029	0	360.845	19510.383	28.773
10398.70669	0	321.402	19376.199	28.277
10398.7231	0	321.906	19482.172	28.898
10398.7395	0	289.507	19219.180	29.077
10398.77231	0	354.996	19141.512	29.400
10398.78871	0	311.614	18953.383	29.704
10398.80512	0	367.187	18586.451	29.450
10398.82152	0	376.576	17712.162	28.921
10398.83793	0	340.016	15629.562	26.224
10398.85433	0	313.021	12993.748	23.132
10398.87073	0	185.290	12041.604	21.670
10398.88714	0	170.696	11992.918	22.324
10398.90354	0	287.690	12019.493	22.685
10398.91995	0	324.285	13915.203	25.696
10398.93635	0	312.059	16083.722	28.622
10398.95276	0	320.218	15410.745	27.518
10398.96916	0	319.397	13420.655	23.974
10398.98556	0	249.665	12761.444	22.110
10399	0	194.620	11874.908	20.023
10399.0164	0	304.382	11603.688	18.207
10399.03281	0	297.536	12872.536	20.025
10399.04921	0	28.793	14675.619	22.199
10399.06562	0	26.777	14990.546	22.993
10399.08202	0	23.179	15172.340	22.743
10399.09843	0	26.050	14869.544	22.853
10399.11483	0	27.481	14243.733	21.731
10399.13123	0	26.109	14528.533	22.932
10399.14764	0	21.444	14926.293	23.233
10399.18045	0	27.117	15155.979	23.999
10399.19685	0	38.862	15146.139	25.456
10399.21325	0	273.378	14841.450	24.942
10399.22966	0	29.837	13583.494	22.984
10399.24606	0	22.593	12527.761	21.618

10399.26247	0	26.508	10935.479	18.972
10399.27887	0	25.781	8890.556	14.627
10399.29528	0	25.464	6941.042	12.015
10399.31168	0	20.037	5330.412	9.868
10399.32808	0	23.437	3575.968	8.234
10399.34449	0	19.522	2587.152	7.281
10399.36089	0	25.453	2159.333	7.493
10399.3773	0	32.978	2077.061	7.229
10399.3937	0	42.848	2420.736	7.745
10399.4101	0	43.023	3417.569	8.557
10399.42651	0	41.758	4838.692	10.970
10399.44291	0	33.740	9279.529	14.385
10399.45932	0	62.681	12954.668	19.007
10399.49213	0	26.273	15176.314	21.614
10399.50853	0	32.486	16536.012	23.068
10399.52493	0	26.531	17394.547	24.008
10399.54134	0	25.804	15935.561	24.158
10399.55774	0	24.796	14823.055	23.186
10399.57415	0	26.355	14485.900	23.884
10399.59055	0	30.399	14462.153	24.543
10399.60696	0	27.774	14170.272	24.930
10399.62336	0	27.375	12865.197	23.657
10399.63976	0	35.428	11416.892	21.666
10399.65617	0	25.148	11052.484	20.704
10399.67257	0	23.319	11219.577	21.241
10399.68898	0	23.554	11586.346	20.848
10399.70538	0	27.082	12288.422	21.457
10399.72178	0	35.944	13539.530	23.108
10399.73819	0	28.606	13797.006	23.514
10399.75459	0	28.301	14019.166	22.287
10399.771	0	40.996	14364.525	21.410
10399.7874	1	25.629	14918.043	20.666
10399.80381	1	247.602	15690.098	19.395
10399.82021	1	272.757	16300.553	19.098
10399.83661	1	263.063	15916.418	18.429
10399.85302	1	340.473	13737.989	17.348
10399.86942	1	294.547	11151.866	14.973
10399.88583	1	45.825	9241.150	14.347
10399.93504	1	181.316	8095.292	12.630
10399.95144	1	319.784	7642.815	12.389
10399.96785	0	296.493	9038.226	11.942
10399.98425	0	251.423	10679.802	13.230
10400.00066	0	223.326	11223.457	14.065
10400.01706	0	27.633	11442.134	15.121
10400.03346	0	29.239	11570.078	14.925
10400.04987	0	27.129	11533.406	16.340
10400.06627	0	25.582	11450.175	16.852
10400.08268	0	30.165	11543.082	16.776
10400.09908	0	31.841	11488.670	16.198
10400.11549	0	29.473	11330.155	15.620
10400.13189	0	223.655	11041.803	15.432
10400.14829	0	238.236	10699.856	15.011

10400.1647	0	30.305	10587.058	15.101
10400.1811	0	30.634	10648.716	15.489
10400.19751	0	30.481	10401.127	16.490
10400.21391	0	26.508	10251.236	16.736
10400.23031	0	20.295	10099.545	16.751
10400.24672	0	25.441	9584.639	15.820
10400.26312	0	25.335	8920.777	14.195
10400.27953	0	28.700	8653.484	12.926
10400.29593	0	25.031	8237.259	12.245
10400.31234	0	28.020	7785.506	12.064
10400.32874	0	24.034	8021.830	12.967
10400.34514	0	22.206	8309.411	14.370
10400.36155	0	23.190	8553.238	14.894
10400.37795	0	25.089	9084.271	15.207
10400.39436	0	28.231	9681.497	15.938
10400.41076	0	27.398	9581.648	15.991
10400.42717	0	23.929	9018.804	15.496
10400.44357	0	22.159	10030.455	18.092
10400.45997	0	23.448	10775.304	19.346
10400.49278	0	28.008	11357.501	20.029
10400.50919	0	27.996	12007.596	20.182
10400.52559	0	27.082	12875.294	20.959
10400.54199	0	34.678	11944.022	19.200
10400.5584	0	29.227	10922.484	18.050
10400.5748	0	213.820	9776.578	16.801
10400.59121	0	207.291	7552.081	14.174
10400.60761	0	191.268	6410.803	12.627
10400.62402	0	112.263	5818.976	11.908
10400.67323	0	181.304	5678.458	11.611
10400.68963	0	218.696	5823.137	12.278
10400.70604	0	212.085	6880.015	14.503
10400.72244	0	170.133	6257.734	14.151
10400.73885	0	208.159	5731.118	13.670
10400.75525	0	112.568	6282.836	15.179
10400.77165	0	21.878	6864.963	16.016
10400.78806	0	25.300	7669.787	17.043
10400.80446	0	28.360	9146.280	19.375
10400.82087	0	26.332	10011.944	20.823
10400.83727	0	33.681	10010.354	20.989
10400.85367	0	56.398	10046.839	21.661
10400.87008	0	25.218	10133.296	21.717
10400.88648	0	27.293	10925.966	22.989
10400.90289	0	25.312	12402.833	24.576
10400.91929	0	23.202	12828.080	25.297
10400.9357	0	21.139	12344.237	24.058
10400.9521	0	16.826	11831.598	22.953
10400.9685	0	24.421	11166.731	22.055
10400.98491	0	35.100	10156.832	20.457
10401.00131	0	22.804	9233.157	18.001
10401.01772	0	19.885	9481.728	17.344
10401.03412	0	20.518	10501.981	18.403
10401.65748	0	22.018	11175.145	17.461

10401.67388	0	26.109	11463.614	17.401
10401.69029	0	21.960	12269.443	18.369
10401.70669	0	21.842	16942.841	20.314
10401.7231	0	18.197	21047.459	21.036
10401.7395	0	24.445	20426.299	20.172
10401.75591	0	30.235	19888.815	19.231
10401.77231	0	22.171	19386.063	18.079
10401.78871	0	25.535	14758.639	15.976
10401.80512	0	21.842	10035.130	13.843
10401.82152	0	21.620	10377.613	14.930
10401.83793	0	21.057	11151.422	15.917
10401.85433	0	25.828	12196.917	17.349
10401.87073	0	24.714	13349.811	19.072
10401.88714	0	26.566	13344.249	19.461
10401.90354	0	27.328	19596.115	25.441
10401.91995	0	22.921	23727.892	29.562
10402	0	20.283	24826.795	31.419
10402.0164	0	23.718	24984.843	31.538
10402.03281	0	26.695	26236.674	33.301
10402.04921	0	27.961	20972.175	28.357
10402.06562	0	27.856	17335.928	25.639
10402.08202	0	29.590	16117.683	23.912
10402.09843	0	26.133	15211.280	23.324
10402.11483	0	31.759	13741.729	21.923
10402.13123	0	34.971	12155.080	20.217
10402.14764	0	62.622	10704.344	18.625
10402.16404	0	94.470	9854.480	17.812
10402.18045	0	100.706	9901.109	17.411
10402.19685	0	122.930	10476.084	16.866
10402.21325	0	44.266	11224.883	17.401
10402.22966	0	34.021	12132.151	17.876
10402.24606	0	34.912	12950.368	18.589
10402.26247	0	30.892	13766.387	19.670
10402.27887	0	27.481	14576.283	21.245
10402.29528	0	25.617	15028.270	21.783
10402.31168	0	27.809	15312.531	22.116
10402.32808	0	35.275	14872.138	21.681
10402.34449	0	37.280	14341.152	19.904
10402.36089	0	240.381	14685.949	19.834
10402.3773	0	22.253	15413.199	20.919
10402.3937	0	23.589	15976.604	21.222
10402.4101	0	22.089	17047.809	22.600
10402.42651	0	26.144	17881.406	24.121
10402.44291	0	24.070	17588.730	23.047
10402.45932	0	27.762	16906.777	22.097
10402.47572	0	24.843	16493.076	21.433
10402.49213	0	30.798	16464.724	20.485
10402.50853	0	36.366	16287.604	20.185
10402.52493	0	26.730	16110.741	20.614
10402.54134	0	29.626	16260.094	20.882
10402.55774	0	27.492	16191.027	21.778
10402.57415	0	25.675	15424.207	20.484

10402.59055	0	25.511	15213.851	19.820
10402.60696	0	26.637	14950.134	19.968
10402.63976	0	26.859	14206.313	18.811
10402.65617	0	27.035	13165.632	16.323
10402.67257	0	27.375	12223.843	15.278
10402.68898	0	26.097	10829.833	13.595
10402.72178	0	41.605	9751.803	12.129
10402.73819	0	41.218	8848.485	11.016
10402.75459	0	32.193	8382.124	10.663
10402.771	0	32.955	8202.527	10.725
10402.7874	0	36.307	8202.083	10.737
10402.80381	0	36.330	8425.388	10.873
10402.82021	0	25.406	8974.372	11.087
10402.83661	0	22.511	9071.743	11.137
10402.85302	0	22.276	8648.903	10.627
10402.86942	0	23.554	7700.850	10.248
10402.88583	0	34.560	6249.413	8.463
10402.90223	0	25.652	4662.202	7.120
10402.91864	0	44.747	3564.492	6.101
10402.93504	0	42.859	2949.082	5.735
10402.95144	0	25.746	2533.932	5.612
10402.96785	0	27.785	2337.108	5.513
10402.98425	0	21.667	2170.155	5.394
10403.00066	0	12.875	1919.924	5.535
10403.01706	0	7.190	1745.188	5.440
10403.03346	0	4.998	1938.576	5.207
10403.04987	0	0.896	2121.563	5.565
10403.06627	0	6.909	2915.635	6.305
10403.08268	0	11.000	4881.394	7.921
10403.1811	0	25.500	6881.885	10.221
10403.19751	0	35.920	8361.603	12.436
10403.21391	0	31.231	10015.870	14.736
10403.23031	0	37.596	11580.269	16.226
10403.24672	0	35.428	12028.258	17.485
10403.26312	0	30.622	11971.228	17.242
10403.27953	0	27.047	12322.851	17.449
10403.29593	0	30.130	12277.484	16.883
10403.31234	0	34.713	12325.351	17.701
10403.32874	0	24.597	12654.583	17.234
10403.36155	0	27.129	13357.220	17.855
10403.37795	0	24.386	13471.280	17.419
10403.39436	0	21.374	13895.009	18.088
10403.41076	0	25.980	13666.632	17.653
10403.42717	0	29.098	13470.930	18.337
10403.44357	0	28.301	14458.507	19.269
10403.45997	0	26.965	15479.858	20.281
10403.47638	0	26.941	16077.575	21.991
10403.49278	0	26.261	16610.034	23.440
10403.50919	0	30.270	16898.176	23.313
10403.52559	0	28.067	16722.692	23.701
10403.54199	0	22.921	16880.763	26.630
10403.5584	0	21.069	17070.551	26.537

10403.5748	0	24.855	18051.958	27.650
10403.59121	0	27.445	19144.644	29.461
10403.60761	0	28.301	19072.094	30.737
10403.62402	0	28.805	18809.429	29.415
10403.64042	0	29.895	18645.584	29.588
10403.65682	0	29.567	17854.690	29.632
10403.67323	0	36.999	17024.857	28.964
10403.68963	0	34.420	16655.822	28.486
10403.70604	0	34.842	16275.964	27.839
10403.72244	0	322.492	15731.936	27.620
10403.73885	0	37.807	15447.347	27.129
10403.75525	0	39.870	14982.131	26.360
10403.77165	0	34.982	14455.796	24.995
10403.78806	0	62.728	13786.652	24.238
10403.80446	0	67.123	13585.761	23.350
10403.82087	0	35.967	13373.021	22.464
10403.83727	0	35.604	13081.583	22.578
10403.85367	0	29.321	12603.303	21.641
10403.87008	0	25.711	12963.176	21.675
10403.88648	0	33.646	13098.155	21.099
10403.91929	0	30.657	12721.757	19.684
10403.9357	0	26.215	12577.078	18.884
10403.9521	0	39.425	13355.047	20.254
10403.9685	0	31.138	13680.048	20.544
10403.98491	0	28.477	13867.312	21.189
10404.00131	0	25.195	14464.397	21.793
10404.01772	0	26.062	14426.463	21.774
10404.03412	0	26.250	13807.734	21.980
10404.05052	0	32.955	13497.762	22.111
10404.06693	0	32.310	13170.424	20.987
10404.08333	0	28.758	12455.258	21.173
10404.09974	0	27.844	13211.958	22.387
10404.11614	0	22.651	14312.192	22.658
10404.13255	0	31.349	15091.306	22.727
10404.14895	0	285.533	15891.129	24.522
10404.16535	0	30.470	16693.101	24.375
10404.18176	0	25.593	16857.296	23.962
10404.19816	0	32.029	16523.624	22.436
10404.21457	0	26.074	15787.774	21.339
10404.23097	0	26.472	15587.514	20.194
10404.24738	0	23.519	15589.992	20.972
10404.28018	0	38.335	15185.710	20.677
10404.29659	0	25.968	14793.956	20.974
10404.31299	0	25.054	14865.641	21.230
10404.3294	0	25.359	14905.141	22.344
10404.3458	0	22.276	14973.180	22.501
10404.3622	0	26.660	14861.106	22.149
10404.37861	0	274.515	14700.417	22.325
10404.39501	0	275.898	14846.101	23.208
10404.41142	0	29.262	15399.292	24.427
10404.42782	0	21.866	15477.544	24.174
10404.44423	0	27.809	15423.109	25.252

10404.46063	0	28.700	15555.446	25.843
10404.47703	0	26.086	15062.230	24.547
10404.49344	0	28.582	13941.007	21.916
10404.50984	0	27.270	13370.730	21.300
10404.52625	0	29.403	13608.526	21.256
10404.54265	0	25.464	14298.660	21.598
10404.55906	0	271.936	15040.751	22.890
10404.57546	0	29.895	15683.951	23.933
10404.59186	0	24.210	16299.010	24.974
10404.60827	0	25.746	15899.613	23.466
10404.62467	0	26.179	15774.381	22.888
10404.64108	0	24.515	16436.911	23.318
10404.67388	0	24.726	16875.878	23.919
10404.69029	0	24.761	16905.375	23.563
10404.70669	0	23.378	17483.902	24.615
10404.7231	0	24.445	17301.429	24.492
10404.7395	0	25.382	16539.822	23.321
10404.75591	0	26.496	16148.699	22.583
10404.77231	0	24.761	16244.294	22.121
10404.78871	0	28.078	16140.004	22.251
10404.80512	0	24.503	18254.976	24.145
10404.82152	0	23.390	19987.425	25.806
10404.83793	0	25.242	19716.229	26.312
10404.85433	0	27.059	19651.650	26.719
10404.87073	0	25.289	20161.530	27.024
10404.88714	0	25.699	18540.640	25.940
10404.90354	0	35.240	17551.707	25.462
10404.91995	0	337.484	18679.288	25.569
10404.93635	0	33.869	19596.022	26.945
10404.95276	0	32.263	20232.888	28.310
10404.96	0	27.774	20957.309	29.218
10404.97	0	29.778	22188.106	30.967
10404.98	0	30.763	22371.373	32.013
10404.99	1	34.279	21872.664	33.351
10405	1	32.779	24939.569	36.527
10405.01	0	30.739	26503.827	38.705
10405.0164	0	35.779	25054.073	38.734
10405.03281	0	38.827	24544.940	38.950
10405.04921	0	316.103	24560.320	38.467
10405.06562	0	54.651	21028.316	35.646
10405.08202	0	378.943	18989.611	34.126
10405.09843	0	333.944	19203.286	33.621
10405.11483	0	33.236	19392.373	33.394
10405.13123	0	29.626	19695.287	33.107
10405.14764	0	33.095	20005.352	33.109
10405.16404	0	33.634	19824.866	32.763
10405.18045	0	34.010	19565.473	32.269
10405.19685	0	34.678	19483.949	33.185
10405.21325	0	46.036	18928.864	32.869
10405.22966	0	370.328	18452.383	32.132
10405.24606	0	405.903	19416.448	32.922
10405.26247	0	386.000	20604.378	34.302

10405.27887	0	39.167	20245.159	33.640
10405.29528	0	36.600	20428.333	33.936
10405.31168	0	364.045	20936.414	35.188
10405.32808	0	51.604	20803.539	36.403
10405.34449	0	378.369	19726.700	35.702
10405.36089	0	502.150	19856.443	35.516
10405.3773	0	442.580	19753.649	35.023
10405.4101	0	491.483	19298.554	33.758
10405.42651	0	435.571	18514.509	32.037
10405.44291	0	134.734	18740.665	32.770
10405.45932	0	378.709	19222.896	33.689
10405.47572	0	478.847	19611.612	35.217
10405.49213	0	520.401	19728.827	35.789
10405.50853	0	474.710	19679.043	36.206
10405.52493	0	57.242	19170.050	34.590
10405.54134	0	35.651	17924.061	32.859
10405.55774	0	43.223	16737.300	31.001
10405.57415	0	141.368	16295.107	30.927
10405.59055	0	89.781	16515.935	30.424
10405.60696	0	40.222	16993.561	31.361
10405.62336	0	38.546	17797.240	32.877
10405.63976	0	22.839	20393.507	35.227
10405.65617	0	21.081	22757.961	36.888
10405.67257	0	28.911	22851.149	37.151
10405.68898	0	30.071	22968.318	37.258
10405.70538	0	44.793	23862.964	37.443
10405.72178	0	33.400	23408.664	37.466
10405.73819	0	35.826	22188.900	36.337
10405.75459	0	33.294	21804.579	35.594
10405.771	0	29.333	20342.063	33.054
10405.7874	0	36.553	17907.560	29.655
10405.80381	0	34.174	16160.151	26.709
10405.82021	0	51.991	15083.804	25.790
10405.83661	0	320.628	14925.616	26.020
10405.85302	0	37.983	15978.941	27.498
10405.86942	0	29.567	17276.257	30.026
10405.88583	0	27.762	17424.698	30.894
10405.90223	0	28.149	17995.769	32.009
10405.91864	0	27.445	18267.457	33.127
10405.93504	0	30.399	18175.484	34.003
10405.95144	0	36.940	18250.465	34.237
10405.96785	0	35.697	18178.149	34.699
10405.98425	0	30.786	17209.410	33.343
10406.00066	0	27.445	16632.121	31.755
10406.01706	0	28.407	16295.691	31.517
10406.03346	0	30.552	15943.835	32.391
10406.04987	0	27.070	16017.810	32.620
10406.06627	0	25.980	16286.178	32.762
10406.08268	0	30.048	16127.149	33.183
10406.09908	0	32.451	15835.478	33.017
10406.11549	0	33.236	15537.496	31.646
10406.13189	0	28.981	15070.551	31.319

10406.14829	0	39.952	14724.982	31.066
10406.1647	0	40.902	14776.262	30.719
10406.1811	0	28.160	15001.461	31.044
10406.19751	0	25.382	15272.938	31.216
10406.21391	0	30.493	15040.961	30.090
10406.23031	0	26.133	14370.648	29.923
10406.24672	0	24.152	14095.034	29.302
10406.26312	0	23.554	13788.522	27.702
10406.27953	0	24.562	13239.070	26.898
10406.29593	0	23.730	12953.990	26.203
10406.31234	0	25.804	13016.560	24.448
10406.32874	0	24.691	12728.675	22.939
10406.34514	0	27.328	12264.699	22.284
10406.36155	0	46.095	12083.839	20.934
10406.37795	0	47.114	12327.712	21.269
10406.39436	0	31.806	12418.049	21.661
10406.41076	0	38.733	12217.602	21.553
10406.42717	0	28.453	12199.605	21.035
10406.44357	0	33.763	12122.007	20.775
10406.45997	0	33.646	11912.983	19.961
10406.47638	0	31.829	11869.602	19.735
10406.49278	0	29.239	11795.417	19.304
10406.50919	0	30.341	11463.264	18.857
10406.52559	0	34.056	11103.601	18.967
10406.54199	0	38.264	10837.570	18.916
10406.5584	0	34.127	10445.208	18.676
10406.5748	0	46.364	10135.680	18.876
10406.59121	0	44.160	10129.439	19.268
10406.60761	0	42.297	10272.552	18.966
10406.62402	0	38.159	10414.519	18.405
10406.64042	0	43.504	10751.137	18.744
10406.65682	0	84.460	11004.453	19.140
10406.67323	0	59.035	11048.394	18.735
10406.68963	0	54.675	10967.570	19.418
10406.70604	0	42.953	10814.010	19.477
10406.72244	0	57.383	10576.844	18.839
10406.73885	0	46.950	10403.885	18.316
10406.75525	0	48.685	10334.444	18.431
10406.77165	0	42.144	9222.055	16.670
10406.78806	0	44.430	9669.203	16.719
10406.80446	0	27.820	10122.755	17.292
10406.9357	0	33.505	10723.720	18.161
10406.9521	0	46.939	11248.373	18.589
10406.9685	0	35.510	12731.597	19.867
10406.98491	0	35.967	12620.645	19.670
10407.00131	0	36.002	12519.581	19.113
10407.01772	0	43.785	12254.368	18.607
10407.03412	0	37.045	11935.163	17.142
10407.05052	0	37.514	11889.423	17.744
10407.06693	0	37.409	11933.013	18.481
10407.08333	0	38.757	11916.582	18.743
10407.09974	0	32.579	12203.251	19.430

10407.11614	0	31.689	12556.861	21.743
10407.13255	0	39.249	12513.457	21.841
10407.14895	0	32.451	12444.998	21.819
10407.16535	0	30.821	12658.743	21.940
10407.18176	0	42.426	12605.570	21.933
10407.19816	0	322.726	12680.223	21.418
10407.21457	0	32.802	13080.181	22.075
10407.23097	0	31.653	13458.215	23.051
10407.24738	0	28.782	13484.393	23.898
10407.26378	0	28.383	13476.469	24.722
10407.28018	0	36.706	13460.926	25.395
10407.29659	0	35.193	13290.748	25.830
10407.31299	0	37.995	13218.432	26.024
10407.3294	0	30.681	13689.023	28.428
10407.3458	0	40.410	14403.300	29.769
10407.3622	0	29.602	15717.374	31.299
10407.37861	0	28.700	16275.520	31.489
10407.39501	0	29.145	16767.685	32.773
10407.41142	0	30.915	17171.756	31.729
10407.44423	0	49.564	17232.128	31.672
10407.46063	0	299.963	16574.180	31.255
10407.47703	0	51.639	17030.677	33.189
10407.49344	0	35.674	17482.453	33.737
10407.50984	1	34.326	18268.719	35.277
10407.52625	1	35.428	19498.323	36.668
10407.54265	1	339.688	20559.104	39.187
10407.55906	1	37.632	19815.868	37.669
10407.57546	1	21.924	17627.973	34.375
10407.59186	1	18.103	15360.352	31.472
10407.60827	1	36.483	12988.068	27.857
10407.62467	0	137.711	11188.468	24.006
10407.64108	0	62.224	11957.555	23.500
10407.65748	0	33.658	13562.225	24.921
10407.67388	0	26.578	13298.905	23.651
10407.69029	0	43.234	13009.992	23.784
10407.70669	0	150.945	12256.331	22.670
10407.7231	0	158.037	10236.955	21.046
10407.7395	0	135.390	9100.071	19.903
10407.75591	0	129.061	9038.858	20.918
10407.77231	0	125.966	8374.458	20.152
10407.78871	0	186.098	7745.702	19.509
10407.80512	0	119.965	7543.830	18.137
10407.82152	0	28.582	7332.913	17.343
10407.83793	0	24.187	7393.355	16.331
10407.85433	0	33.822	7172.527	14.977
10407.86	0	26.543	6283.117	13.539
10407.87	0	27.879	5093.550	12.545
10407.89	0	21.878	3503.792	11.140
10407.9	0	15.560	1928.245	8.672
10407.91	0	7.132	1260.129	7.811
10407.92	0	6.030	1519.990	8.042
10407.93	0	9.359	1865.839	8.612

10407.94	0	9.757	2842.992	9.303
10407.95	0	12.957	4954.949	13.801
10407.96	0	23.026	7629.772	18.954
10407.97	0	33.505	9995.653	23.286
10407.98	0	33.916	11305.707	24.846
10407.99	0	28.700	10845.657	24.588
10408	0	50.303	10139.092	23.628
10408.01	0	45.743	8882.703	22.213
10408.0164	0	71.706	7783.730	21.663
10408.03281	0	99.100	7831.715	23.618
10408.04921	0	113.471	8880.249	27.100
10408.06562	0	119.613	8828.197	27.278
10408.08202	0	160.135	8645.000	26.873
10408.09843	0	205.193	8747.701	26.866
10408.11483	0	164.425	8861.831	26.447
10408.13123	0	142.259	9136.276	26.027
10408.14764	0	176.147	9684.863	27.319
10408.16404	0	193.588	10227.092	27.735
10408.18045	0	169.653	10345.756	26.941
10408.19685	0	152.914	10218.023	26.205
10408.21325	0	60.465	9963.071	25.285
10408.22966	0	57.090	9509.495	23.806
10408.24606	0	66.338	9055.102	22.900
10408.26247	0	54.968	8546.483	22.008
10408.27887	0	42.074	8334.911	21.708
10408.29528	0	51.498	8328.928	22.605
10408.32808	0	52.670	8372.051	22.958
10408.34449	0	44.125	8531.033	23.233
10408.36089	0	59.692	9024.436	24.818
10408.3773	0	38.100	9519.382	25.445
10408.3937	0	41.523	9961.575	24.492
10408.4101	0	31.642	9865.068	21.988
10408.42651	0	28.395	9262.186	19.613
10408.44291	0	21.409	8565.672	16.324
10408.45932	0	17.236	7810.048	13.880
10408.47572	0	20.905	7558.228	12.308
10408.49213	0	23.061	8276.806	13.804
10408.50853	0	23.636	9896.247	16.301
10408.52493	0	25.441	11778.495	18.820
10408.54134	0	30.376	13513.749	20.376
10408.55774	0	31.935	14931.365	22.809
10408.57415	0	29.649	15301.569	23.121
10408.59055	0	27.375	15537.706	23.167
10408.60696	0	27.363	15733.478	22.952
10408.63976	0	28.512	16178.336	23.466
10408.65617	0	32.662	16590.938	22.770
10408.67257	0	268.326	17283.011	23.362
10408.68898	0	279.051	17552.198	23.480
10408.70538	0	32.251	17171.896	23.024
10408.72178	0	315.166	14429.735	20.723
10408.73819	0	266.638	11552.548	18.582
10408.75459	0	125.368	11043.649	19.961

10409.34514	0	23.413	10929.869	22.280
10409.36155	0	37.385	11452.185	25.578
10409.37795	0	30.528	14098.774	31.161
10409.39436	0	30.704	16573.502	36.704
10409.41076	0	33.529	17388.330	38.474
10409.42717	0	30.505	17457.023	38.617
10409.44357	0	28.629	16837.687	38.393
10409.45997	0	31.337	16512.312	37.860
10409.47638	0	30.048	16174.386	36.409
10409.49278	0	28.758	15019.575	34.346
10409.50919	0	34.619	14107.866	32.671
10409.52559	0	45.508	13814.045	31.234
10409.54199	0	55.566	13223.901	29.834
10409.5584	0	55.460	12596.992	29.918
10409.5748	0	71.390	12341.362	30.486
10409.59121	0	372.215	12272.599	31.435
10409.60761	0	374.817	12057.053	32.605
10409.62402	0	371.125	12104.056	33.528
10409.64042	0	298.603	12281.878	33.391
10409.65682	0	81.494	12484.101	32.907
10409.67323	0	35.768	12501.841	31.917
10409.68963	0	38.194	11895.196	31.123
10409.70604	0	150.453	11488.132	30.376
10409.72244	0	250.626	11110.776	29.820
10409.75525	0	62.142	10775.772	29.628
10409.77165	0	63.009	10428.847	29.551
10409.78806	0	63.935	10654.817	28.978
10409.80446	0	112.006	10312.122	28.220
10409.82087	0	119.449	9840.339	26.863
10409.83727	0	99.827	9264.593	25.241
10409.85367	0	66.455	7616.146	21.533
10409.87008	0	36.834	6179.761	17.838
10409.88648	0	20.776	6812.771	17.450
10409.90289	0	46.481	7755.519	19.275
10409.91929	0	33.365	8262.151	19.813
10409.9357	0	45.813	10548.166	23.655
10409.9521	0	60.653	12765.955	27.801
10409.9685	0	38.429	12438.944	27.817
10409.98491	0	29.614	11945.003	26.069
10410.01772	0	33.142	12069.885	26.385
10410.03412	0	30.587	11619.909	25.182
10410.05052	0	33.470	11011.301	24.259
10410.06693	0	29.790	11046.314	23.691
10410.08333	0	27.985	10953.009	23.149
10410.09974	0	36.061	11185.780	23.695
10410.11614	0	45.004	11675.724	24.030
10410.13255	0	31.771	12022.976	23.634
10410.14895	0	27.903	12372.121	24.704
10410.16535	0	27.270	13857.986	25.263
10410.18176	0	26.707	14548.236	24.539
10410.19816	0	21.514	13641.623	23.825
10410.21457	0	19.123	13051.152	23.454

10410.23097	0	30.704	12540.453	23.334
10410.24738	0	40.245	11242.880	22.906
10410.26378	0	29.907	10785.728	22.800
10410.28018	0	26.613	11687.737	23.453
10410.29659	0	26.695	12109.736	23.979
10410.31299	0	24.480	12331.241	22.883
10410.3294	0	24.808	12274.772	23.069
10410.3458	0	23.296	11953.161	22.876
10410.3622	0	25.711	11576.973	23.735
10410.37861	0	30.024	11400.741	23.855
10410.39501	0	42.895	11202.258	23.514
10410.41142	0	38.159	10489.383	22.895
10410.42782	0	38.053	11167.315	25.500
10410.44423	0	23.167	11682.268	25.777
10410.47703	0	27.996	12043.100	27.062
10410.49344	0	34.080	12411.434	28.438
10410.50984	0	38.815	13633.278	31.186
10410.52625	0	38.663	13836.997	30.417
10410.54265	0	31.243	14032.746	30.962
10410.55906	0	31.243	13996.938	30.730
10410.57546	0	35.932	14095.689	30.895
10410.59186	0	34.959	13752.551	30.598
10410.60827	0	45.544	12865.898	30.333
10410.62467	0	104.211	12474.377	30.508
10410.64108	0	82.057	12855.473	32.918
10410.65748	0	42.531	13220.863	35.843
10410.67388	0	340.086	13611.401	38.410
10410.69029	0	379.166	13771.062	39.496
10410.70669	0	308.098	13664.879	40.718
10410.7231	0	114.362	13339.177	38.908
10410.7395	0	298.943	12967.149	37.036
10410.75591	0	54.898	12928.701	35.369
10410.77231	0	105.195	13232.549	36.043
10410.78871	0	301.756	13492.924	36.366
10410.80512	0	305.132	13638.818	37.486
10410.82152	0	360.095	13874.347	38.307
10410.83793	0	329.923	13928.993	37.985
10410.85433	0	325.071	12811.252	35.013
10410.87073	0	321.156	11731.679	32.300
10410.88714	0	236.795	11661.256	32.086
10411	0	289.284	11463.334	32.439
10411.0164	0	350.378	11335.086	33.122
10411.03281	0	384.664	12285.711	35.766
10411.04921	0	427.635	15604.927	38.445
10411.06562	0	352.628	21600.697	41.103
10411.08202	1	30.434	24623.053	41.038
10411.09843	1	34.654	24745.574	39.498
10411.11483	1	31.032	24131.660	37.095
10411.13123	0	39.050	21092.054	33.915
10411.14764	0	97.295	14639.063	29.073
10411.16404	0	104.891	11400.811	25.985
10411.18045	0	73.183	11063.633	24.454

10411.19685	0	49.166	10837.570	23.541
10411.21325	0	44.571	10084.283	22.503
10411.22966	0	55.484	9167.923	21.167
10411.24606	0	117.480	8197.291	21.045
10411.26247	0	181.820	7413.152	21.361
10411.27887	0	204.865	7542.288	21.933
10411.29528	0	194.561	7482.055	21.356
10411.31168	0	113.025	7694.632	21.803
10411.32808	0	66.408	8345.896	21.884
10411.36089	0	67.311	8884.783	21.972
10411.3773	0	58.309	8897.708	21.727
10411.3937	0	56.023	9684.629	23.065
10411.4101	0	63.736	10104.874	22.820
10411.42651	0	55.296	9984.527	22.732
10411.44291	0	49.834	9871.683	22.663
10411.45932	0	47.747	9868.924	22.521
10411.47572	0	38.429	9532.751	22.582
10411.49213	0	45.907	9310.264	22.628
10411.50853	0	57.066	9179.726	23.143
10411.52493	0	55.765	8868.819	23.014
10411.54134	0	51.639	8687.959	22.956
10411.55774	0	45.919	8887.377	22.514
10411.57415	0	47.712	9000.643	23.024
10411.59055	0	50.725	9042.527	22.483
10411.60696	0	54.100	9240.870	23.023
10411.62336	0	46.341	9525.038	23.701
10411.63976	0	40.609	9730.370	24.169
10411.65617	0	42.508	9808.155	23.057
10411.67257	0	32.146	9879.349	23.599
10411.68898	0	33.107	9348.806	22.257
10411.70538	0	37.456	7617.572	18.646
10411.72178	0	30.012	6314.904	15.632
10411.73819	0	25.593	5884.538	15.235
10411.75459	0	24.703	5409.997	13.505
10411.771	0	39.472	5893.980	12.925
10411.7874	0	44.289	7823.558	15.935
10411.80381	0	30.212	8458.507	17.256
10411.82021	0	29.977	8611.530	17.018
10411.85302	0	30.599	8835.653	17.379
10411.86942	0	39.906	8525.494	17.977
10411.88583	0	45.989	7831.715	17.142
10411.90223	0	234.696	8185.605	17.741
10411.91864	0	51.240	8675.011	19.094
10411.93504	0	48.884	9499.982	19.857
10411.95144	0	52.307	10676.600	21.061
10411.96785	0	35.604	11852.984	22.784
10411.98425	0	30.259	12775.608	24.390
10412.00066	0	36.284	13622.433	25.067
10412.01706	0	25.124	14030.104	26.716
10412.03346	0	33.716	14138.742	26.614
10412.04987	0	31.947	13988.594	26.742
10412.06627	0	32.896	13571.457	25.572

10412.08268	0	30.962	12810.551	25.018
10412.09908	0	31.009	12032.535	23.228
10412.11549	0	49.869	11259.755	21.908
10412.13189	0	39.261	10783.438	20.352
10412.14829	0	27.832	10706.611	20.630
10412.1647	0	29.977	10721.172	20.617
10412.1811	0	27.434	10681.322	20.749
10412.19751	0	30.399	10607.276	21.351
10412.21391	0	28.711	10582.080	21.158
10412.23031	0	28.922	10201.896	20.041
10412.24672	0	25.124	10754.596	20.678
10412.26312	0	29.438	11149.996	22.568
10412.29593	0	34.631	11740.350	23.336
10412.31234	0	46.856	11961.388	24.486
10412.32874	0	37.796	12271.453	26.220
10412.34514	0	41.183	11672.031	26.355
10412.36155	0	50.221	11312.485	25.948
10412.37795	0	49.130	10826.234	26.378
10412.39436	0	318.999	11167.409	26.954
10412.41076	0	302.788	11979.175	28.118
10412.42717	0	57.336	12693.078	28.431
10412.44357	0	304.300	13192.184	28.232
10412.45997	0	47.126	13381.154	27.801
10412.47638	0	46.446	13082.144	27.476
10412.49278	0	57.465	12413.701	26.094
10412.50919	0	44.899	11824.212	26.005
10412.52559	0	36.916	10728.582	24.297
10412.54199	0	32.157	10530.823	23.699
10412.5584	0	25.453	11207.003	25.020
10412.62402	0	42.519	11643.703	25.217
10412.64042	0	36.553	12208.417	25.528
10412.65682	0	41.324	13867.499	28.503
10412.67323	0	49.541	15023.315	31.151
10412.68963	0	376.130	15359.978	31.747
10412.70604	0	352.816	15754.701	32.685
10412.72244	0	321.835	15796.328	33.061
10412.73885	0	296.810	15385.432	32.387
10412.75525	0	315.810	14826.678	30.949
10412.77165	0	323.887	13737.241	28.629
10412.78806	0	79.841	13186.154	27.496
10412.80446	0	41.394	12839.369	26.157
10412.82087	0	34.807	12476.785	25.621
10412.83727	0	32.357	12012.154	25.143
10412.85367	0	43.809	11995.886	24.350
10412.87008	0	262.043	11400.460	23.883
10412.88648	0	38.522	10576.447	23.514
10412.90289	0	29.508	10097.909	23.092
10412.91929	0	49.447	9710.643	22.276
10412.9357	0	62.142	9287.990	23.022
10412.9521	0	59.598	9161.636	22.880
10412.9685	0	53.010	9290.514	23.749
10412.98491	0	89.406	9221.541	23.520

10413.00131	0	279.672	9190.852	23.373
10413.01772	0	268.912	9129.708	23.098
10413.03412	0	81.670	9051.035	22.113
10413.05052	0	44.829	8967.734	20.572
10413.06693	0	49.177	9099.767	20.214
10413.08333	0	51.006	9317.019	21.300
10413.09974	0	44.489	9665.697	20.932
10413.11614	0	248.973	9908.799	22.637
10413.14895	0	36.788	10304.363	23.955
10413.16535	0	39.612	10611.927	24.879
10413.18176	0	50.912	11176.244	25.174
10413.19816	1	47.208	12183.548	28.189
10413.21457	1	34.877	14337.202	30.674
10413.23097	0	29.086	16872.723	33.764
10413.24738	0	31.138	17448.796	34.494
10413.26378	0	33.037	17175.543	34.696
10413.28018	0	32.029	16570.183	33.056
10413.29659	0	44.114	15234.933	32.083
10413.31299	0	45.860	13383.702	29.697
10413.3294	0	48.169	13320.244	29.425
10413.3458	0	44.067	13467.190	28.789
10413.3622	0	39.261	13365.939	28.549
10413.37861	0	40.011	12909.138	27.124
10413.39501	0	55.003	12312.169	27.057
10413.41142	0	45.180	11806.028	26.676
10413.42782	0	315.494	11721.511	26.496
10413.44423	0	363.717	11865.255	27.229
10413.46063	0	332.619	11918.849	27.979
10413.47703	0	295.426	11793.757	28.278
10413.49344	0	45.684	12262.315	29.021
10413.50984	0	311.427	13003.705	31.469
10413.52625	0	338.644	13497.295	32.891
10413.54265	0	40.867	14176.466	33.128
10413.55906	0	41.511	15056.224	34.099
10413.57546	0	48.076	15700.803	34.746
10413.59186	0	37.573	16332.597	35.734
10413.60827	0	44.032	16752.702	34.998
10413.62467	0	361.924	16600.825	35.492
10413.64108	0	57.594	16372.705	34.438
10413.65748	0	43.059	15909.944	34.301
10413.67388	0	42.859	15213.056	32.936
10413.69029	0	333.874	14840.211	33.410
10413.70669	0	337.179	15072.000	33.406
10413.7231	0	45.544	15326.672	34.381
10413.7395	0	98.971	15443.210	34.382
10413.75591	0	37.585	15377.134	34.178
10413.77231	0	39.144	15234.349	34.043
10413.78871	0	43.539	14604.635	33.440
10413.80512	0	43.387	13668.478	31.223
10413.82152	0	281.267	12113.990	27.613
10413.83793	0	259.582	10143.884	23.546
10413.85433	0	157.720	8065.561	18.416

10413.87073	0	67.088	6425.224	14.747
10413.88714	0	33.365	4945.039	12.147
10413.90354	0	36.752	3633.091	10.527
10413.91995	0	74.942	2918.767	9.565
10413.93635	0	72.539	2884.947	10.089
10413.95276	0	95.044	3161.379	10.974
10413.96916	0	54.886	3965.805	12.828
10413.98	0	48.392	5036.357	14.829
10413.99	0	58.449	5588.917	15.532
10414	0	52.682	6952.284	18.102
10414.01	0	268.091	8197.642	20.481
10414.0164	0	336.616	9259.054	21.991
10414.03281	0	122.368	10558.123	23.808
10414.04921	0	100.096	12176.326	26.545
10414.06562	0	39.859	12282.556	27.046
10414.08202	0	40.714	11929.390	25.902
10414.09843	0	36.495	11423.927	25.099
10414.11483	0	38.112	11131.017	24.292
10414.13123	0	47.196	10943.589	23.184
10414.14764	0	41.535	10720.985	21.636
10414.16404	0	76.911	10937.442	21.872
10414.18045	0	48.029	11243.090	22.004
10414.19685	0	42.015	11196.274	21.687
10414.21325	0	45.930	11144.270	22.903
10414.22966	0	37.092	11348.082	23.892
10414.24606	0	51.416	11373.885	24.916
10414.26247	0	107.938	11290.257	24.377
10414.27887	0	43.317	11157.849	23.855
10414.29528	0	38.323	11059.940	22.929
10414.31168	0	36.858	11165.749	23.405
10414.32808	0	33.904	11297.129	22.109
10414.34449	0	32.005	11774.825	22.882
10414.36089	0	34.572	12393.951	24.386
10414.3773	0	44.454	12922.741	25.450
10414.3937	0	31.173	13279.996	24.922
10414.4101	0	32.919	13433.066	26.145
10414.42651	0	38.733	13282.544	25.515
10414.44291	0	31.864	13004.453	24.976
10414.47572	0	256.639	12792.250	25.003
10414.49213	0	31.689	12616.368	25.585
10414.50853	0	29.661	12602.344	24.931
10414.52493	0	34.912	12853.253	26.322
10414.54134	0	44.700	13983.616	29.303
10414.55774	0	29.743	14854.468	30.732
10414.57415	0	33.119	15478.853	32.683
10414.59055	0	49.529	16110.577	34.455
10414.60696	0	329.056	16300.389	34.916
10414.62336	0	306.117	15847.959	34.364
10414.63976	0	54.628	16086.059	34.875
10414.65617	0	373.903	16929.192	36.515
10414.67257	0	321.050	18257.944	38.477
10414.68898	0	353.402	18576.424	39.002

10414.70538	0	448.980	17746.474	36.750
10414.72178	0	411.811	16408.138	35.275
10414.73819	0	85.421	14491.393	31.757
10414.75459	0	314.322	11827.858	28.560
10414.771	0	124.055	10376.141	27.181
10414.7874	0	95.419	9845.388	27.706
10414.80381	0	99.182	9245.241	26.407
10414.82021	0	87.847	8584.768	26.018
10414.83661	0	80.861	8438.593	25.298
10414.86942	0	106.508	8232.117	23.906
10414.88583	0	137.348	7964.380	22.757
10414.90223	0	86.687	7851.652	22.224
10414.91864	0	68.483	8140.705	20.846
10414.93504	0	62.142	8137.176	20.196
10414.95144	0	59.434	8039.570	20.645
10414.96785	0	47.782	7945.518	19.920
10414.98425	0	42.461	7886.548	19.313
10415.00066	0	55.003	7778.144	20.206
10415.01706	0	69.854	7775.830	19.657
10415.03346	0	61.872	7870.935	18.478
10415.04987	0	66.303	8157.370	18.827
10415.06627	0	57.230	8418.002	18.949
10415.08268	0	51.604	8592.621	18.509
10415.09908	0	44.641	9354.603	18.557
10415.11549	0	41.101	10248.104	19.308
10415.13189	0	312.716	11773.119	21.324
10415.14829	0	38.569	13328.963	22.897
10415.1647	0	27.141	14503.243	24.139
10415.1811	0	24.351	14915.635	25.257
10415.19751	0	30.212	15738.971	26.629
10415.21391	0	25.195	16313.572	26.258
10415.23031	0	25.582	16484.708	27.054
10415.24672	0	30.434	17142.633	27.614
10415.26312	0	28.641	18043.263	28.960
10415.27953	0	32.204	17544.438	28.330
10415.29593	0	29.626	16552.840	28.378
10415.31234	0	43.317	16523.063	28.088
10415.32874	0	28.805	16699.950	28.414
10415.34514	0	28.418	16307.635	29.077
10415.36155	0	33.927	16199.278	30.341
10415.37795	0	318.342	16299.034	30.613
10415.39436	0	330.967	16387.430	32.216
10415.41076	0	70.499	17069.499	34.730
10415.42717	0	29.790	17962.767	35.978
10415.44357	0	28.887	16808.657	34.014
10415.45997	0	29.485	14130.889	29.600
10415.47638	0	21.549	12076.687	25.976
10415.52559	0	138.508	9094.368	22.023
10415.54199	0	239.573	6178.079	18.472
10415.5584	0	121.078	5948.369	18.127
10415.5748	0	101.175	6979.397	20.173
10415.59121	0	82.502	6729.610	19.268

10415.60761	0	76.911	6475.055	17.873
10415.62402	0	54.769	6386.028	16.880
10415.64042	0	58.578	6174.222	16.424
10415.65682	0	75.235	6115.018	15.894
10415.67323	0	73.910	6041.861	16.287
10415.68963	0	64.498	5842.957	16.830
10415.70604	0	73.066	5602.449	16.570
10415.72244	0	69.139	5480.466	16.690
10415.73885	0	79.115	5457.140	16.774
10415.75525	0	114.045	5686.966	17.301
10415.77165	0	125.755	6169.220	17.927
10415.78806	0	92.161	6950.368	19.214
10415.80446	0	95.431	7822.646	19.529
10415.82087	0	99.030	8008.928	19.790
10415.83727	0	75.997	7849.572	19.336
10415.85367	0	63.701	7493.508	17.532
10415.88648	0	58.379	6711.426	16.096
10415.90289	0	41.441	5597.214	14.934
10415.91929	0	37.655	4841.894	14.446
10415.9357	0	26.730	4134.768	12.911
10415.9521	0	18.619	3339.106	12.399
10415.9685	0	12.688	2624.034	11.565
10415.98491	0	12.078	2186.072	10.759
10416.00131	0	16.368	1828.887	9.144
10416.01772	0	18.385	1571.644	8.381
10416.03412	0	18.338	1444.986	7.833
10416.06693	0	12.231	1434.351	6.923
10416.08333	0	6.921	1368.112	6.434
10416.09974	0	11.352	1448.842	7.107
10416.11614	0	13.051	1543.082	7.690
10416.13255	0	17.693	1620.727	7.697
10416.14895	0	14.329	1590.015	7.588
10416.16535	0	13.145	1630.217	7.462
10416.18176	0	16.404	1642.464	7.651
10416.19816	0	15.618	1492.129	7.675
10416.21457	0	19.416	1420.187	7.859
10416.23097	0	17.611	1458.285	8.058
10416.24738	0	20.190	1480.069	7.817
10416.26378	0	18.771	1461.978	7.123
10416.28018	0	19.873	1573.350	7.433
10416.29659	0	19.217	1651.720	6.920
10416.31299	0	21.034	1685.143	7.218
10416.3294	0	15.044	1733.081	7.924
10416.3458	0	12.922	1769.730	8.213
10416.3622	0	15.747	1766.551	8.105
10416.37861	0	16.521	1747.035	8.544
10416.39501	0	10.250	1745.258	8.565
10416.41142	0	18.326	1694.773	8.471
10416.42782	0	17.834	1731.702	8.395
10416.44423	0	14.575	1519.686	8.424
10416.46063	0	17.459	1292.524	8.229
10416.47703	0	47.853	1085.066	8.023

10416.50984	0	34.818	878.262	7.391
10416.52625	0	27.832	635.978	7.153
10416.54265	0	22.241	643.621	6.320
10416.55906	0	19.592	751.090	6.049
10416.57546	0	15.771	959.226	6.208
10416.59186	0	19.967	1250.219	6.932
10416.60827	0	19.287	1609.789	7.851
10416.62467	0	18.513	2073.251	8.835
10416.64108	0	65.623	2445.021	9.643
10416.65748	0	83.440	2752.936	10.431
10416.67388	0	36.272	3262.957	10.680
10416.69029	0	35.709	3725.181	11.019
10416.70669	0	50.385	4204.817	11.510
10416.7231	0	33.799	4846.241	11.355
10416.7395	0	19.803	5922.612	12.116
10416.75591	0	25.910	8673.608	15.439
10416.77231	0	26.766	12557.071	19.031
10416.78871	0	18.584	14274.889	21.408
10416.80512	0	22.651	14801.926	23.094
10416.82152	0	20.565	14717.363	23.826
10416.83793	0	33.154	12688.988	22.257
10416.85433	1	39.823	9633.676	20.278
10416.87073	1	39.132	8912.129	19.802
10416.88714	1	40.574	8878.613	19.961
10416.90354	0	28.618	9758.090	20.548
10416.91995	0	37.573	13942.853	22.952
10416.95276	0	26.953	21420.631	23.132
10416.96916	0	16.884	25411.820	22.552
10416.99	0	0.000	24104.711	21.068
10417	0	18.361	22303.334	18.930
10417.01	0	5.960	17249.074	15.669
10417.0164	0	15.466	9100.422	14.492
10417.03281	0	22.030	4503.150	14.754
10417.04921	0	36.893	5580.105	16.891
10417.06562	0	41.922	6419.591	18.604
10417.08202	0	186.239	7261.719	19.987
10417.09843	0	211.792	7762.998	20.354
10417.11483	0	68.155	7883.205	20.790
10417.13123	0	63.618	7981.886	20.735
10417.14764	0	80.591	8036.672	21.177
10417.16404	0	81.482	8063.832	21.424
10417.18045	0	57.699	8269.443	22.598
10417.19685	0	65.846	8495.834	23.368
10417.21325	0	56.199	8602.718	23.675
10417.22966	0	54.851	8699.693	23.532
10417.24606	0	110.482	8872.325	23.660
10417.26247	0	74.438	8797.579	24.056
10417.27887	0	44.102	8620.715	23.598
10417.29528	0	46.493	8493.894	23.332
10417.31168	0	51.639	8459.115	22.750
10417.32808	0	58.039	8306.396	22.864
10417.34449	0	51.592	8393.741	22.718

10417.36089	0	54.382	8768.806	22.595
10417.3773	0	59.387	9660.858	24.377
10417.3937	0	61.626	10895.605	27.259
10417.4101	0	53.901	11427.550	28.068
10417.42651	0	43.270	12030.595	29.272
10417.44291	0	50.103	12323.341	30.803
10417.47572	0	56.785	12446.120	30.428
10417.49213	0	67.311	12173.053	29.561
10417.50853	0	52.577	12932.674	30.694
10417.52493	0	51.404	13632.040	31.016
10417.54134	0	47.607	13869.298	30.024
10417.55774	0	31.630	13474.249	28.956
10417.57415	0	41.476	13232.713	29.270
10417.59055	0	51.334	12826.538	29.218
10417.60696	0	46.751	12142.575	29.212
10417.62336	0	62.798	12402.061	30.898
10417.63976	0	71.038	13329.430	33.476
10417.65617	0	54.780	14127.312	35.503
10417.67257	0	30.786	14841.847	35.811
10417.68898	0	35.850	15389.615	36.135
10417.70538	0	43.305	15199.874	34.705
10417.72178	0	32.708	14370.975	32.274
10417.73819	0	42.730	13590.529	28.986
10417.75459	0	28.102	12607.393	26.668
10417.771	0	42.156	11946.453	25.238
10417.7874	0	36.061	11676.822	25.095
10417.80381	0	39.003	11491.031	25.186
10417.82021	0	37.596	10931.786	24.273
10417.83661	0	52.893	10048.733	23.292
10417.85302	0	66.701	10807.489	24.972
10417.86942	0	44.665	11401.232	26.704
10417.90223	0	35.006	12149.704	27.879
10417.91864	0	30.376	12936.577	30.023
10417.93504	0	28.207	14214.961	31.906
10417.95144	0	36.577	13819.210	30.583
10417.96785	0	35.768	13653.940	29.174
10417.98425	0	33.857	13437.460	28.063
10418.00066	0	27.809	13123.538	26.445
10418.01706	0	43.504	12416.529	25.583
10418.03346	0	41.851	10116.561	21.788
10418.04987	0	55.554	7499.141	17.617
10418.06627	0	43.352	6395.330	16.456
10418.65682	0	62.493	6445.255	16.700
10418.67323	0	33.130	6720.705	16.466
10418.68963	0	72.996	8139.186	19.019
10418.70604	0	293.961	8983.066	20.520
10418.72244	0	151.308	8453.716	19.582
10418.73885	0	63.407	7983.499	18.560
10418.75525	0	41.113	7726.163	18.285
10418.77165	0	59.211	7871.075	17.970
10418.78806	0	75.000	9079.550	19.973
10418.80446	0	58.672	10473.092	21.965

10418.82087	0	53.128	11023.011	23.648
10418.83727	0	56.832	11474.903	24.952
10418.85367	0	56.046	11660.087	25.127
10418.87008	0	52.295	11375.031	24.364
10418.88648	0	66.842	10763.805	23.961
10418.90289	0	85.503	10149.470	22.287
10418.91929	0	69.210	9556.639	21.359
10418.9357	0	65.189	9327.864	21.304
10418.9521	0	76.055	9457.070	21.472
10418.9685	0	75.575	9755.098	21.861
10418.98491	0	65.881	10150.124	23.431
10419.00131	0	85.667	10632.355	24.524
10419.01772	0	88.914	10810.738	25.095
10419.03412	0	84.331	10899.438	25.705
10419.05052	0	85.163	10870.526	25.599
10419.06693	0	100.612	10511.797	25.276
10419.08333	0	100.542	10065.655	24.165
10419.09974	0	77.626	9974.290	23.364
10419.11614	0	85.913	9854.316	22.398
10419.13255	0	71.847	9710.082	22.063
10419.14895	0	55.929	9785.483	21.205
10419.16535	0	61.368	9888.324	21.495
10419.18176	0	67.123	9707.604	22.573
10419.19816	0	92.981	9366.149	22.736
10419.21457	0	98.983	8555.154	20.871
10419.23097	0	61.192	8740.478	21.458
10419.24738	0	66.010	9046.500	21.164
10419.28018	0	66.221	9603.852	20.782
10419.29659	0	53.889	9899.496	21.361
10419.31299	0	52.319	10605.009	22.503
10419.3294	0	70.616	10259.089	22.175
10419.3458	0	75.832	9846.229	22.227
10419.3622	0	72.890	9360.680	22.158
10419.37861	0	66.596	9469.224	21.729
10419.39501	0	70.476	9851.255	23.042
10419.41142	0	62.927	10274.866	23.337
10419.42782	0	81.060	10380.769	23.400
10419.44423	0	94.892	10382.428	23.564
10419.46063	0	79.454	10438.897	24.376
10419.47703	0	75.035	10617.256	24.123
10419.49344	0	54.405	10715.376	24.611
10419.50984	0	52.389	11034.837	25.087
10419.52625	0	63.220	11369.678	24.910
10419.54265	0	58.789	11411.235	24.471
10419.55906	0	64.287	11399.829	25.087
10419.57546	0	55.847	11518.961	24.994
10419.59186	0	44.020	11472.846	24.999
10419.60827	0	39.425	11489.184	25.184
10419.62467	0	41.875	11214.716	24.897
10419.64108	0	38.522	10097.348	23.350
10419.65748	0	69.374	9410.067	22.916
10419.67388	0	102.804	8896.423	21.981

10419.70669	0	78.704	8328.951	21.181
10419.7231	0	86.417	8391.637	20.923
10419.7395	0	85.186	9310.872	22.103
10419.75591	0	68.835	9794.762	21.885
10419.77231	0	66.783	10367.727	23.248
10419.78871	0	46.939	10701.773	24.792
10419.80512	0	54.511	10765.230	26.287
10419.82152	0	61.638	10694.878	26.668
10419.83793	0	63.220	10520.983	27.890
10419.85433	0	89.711	10019.516	27.836
10419.87073	0	86.206	8454.300	24.842
10419.88714	0	66.701	8067.150	23.618
10419.90354	0	87.355	7957.228	23.006
10420	0	49.986	7945.494	22.586
10420.0164	0	51.592	8192.383	22.538
10420.03281	0	51.920	9750.844	25.204
10420.04921	0	50.373	10181.842	26.126
10420.06562	0	44.934	10388.131	27.067
10420.08202	0	48.310	10622.936	27.698
10420.09843	0	40.902	10905.819	28.746
10420.11483	0	43.586	11267.492	30.499
10420.13123	0	47.419	11521.369	31.581
10420.14764	0	51.604	11750.985	32.094
10420.16404	0	47.572	11997.990	32.774
10420.18045	0	45.403	12121.422	32.607
10420.19685	0	49.365	12188.479	31.634
10420.21325	0	59.621	12262.852	30.905
10420.22966	0	47.794	12341.198	30.478
10420.24606	0	32.427	12444.320	30.183
10420.26247	0	35.803	12555.785	30.661
10420.27887	0	32.451	12644.977	30.265
10420.29528	0	33.529	12755.461	30.966
10420.31168	0	31.618	12852.248	30.688
10420.32808	0	33.599	12769.882	30.325
10420.34449	0	27.492	12814.197	29.613
10420.36089	0	26.496	12989.307	30.780
10420.3773	0	25.711	13189.566	30.108
10420.3937	0	30.165	13025.021	30.341
10420.4101	0	30.681	13377.087	31.171
10420.42651	1	28.231	14063.948	32.579
10420.44291	1	30.587	14972.595	33.231
10420.45932	0	31.560	16777.034	35.385
10420.47572	0	33.177	19049.539	38.079
10420.49213	0	30.434	21089.787	39.745
10420.50853	0	26.332	22706.892	40.194
10420.52493	0	31.466	24311.141	41.163
10420.54134	0	36.424	25167.759	41.929
10420.55774	0	313.372	26254.555	42.481
10420.57415	0	33.388	27845.949	43.873
10420.59055	1	32.169	30029.637	46.215
10420.60696	1	25.406	32395.914	47.533
10420.62336	1	25.582	32706.985	47.023

10420.63976	1	31.501	30228.845	44.943
10420.65617	1	31.349	26615.223	41.577
10420.67257	0	26.484	22239.175	36.983
10420.68898	0	88.890	17237.037	33.398
10420.70538	0	60.934	13941.381	30.449
10420.72178	0	32.908	13162.500	29.583
10420.73819	0	39.519	13079.877	29.475
10420.75459	0	314.544	13143.288	30.535
10420.771	0	308.074	13472.917	31.189
10420.7874	0	34.185	14010.985	32.499
10420.80381	0	43.621	14387.921	33.043
10420.82021	0	42.449	14369.667	33.645
10420.83661	0	40.257	14225.011	32.367
10420.85302	0	37.409	13900.712	31.184
10420.86942	0	52.541	13142.937	30.152
10420.88583	0	53.010	13451.671	31.162
10420.90223	0	35.733	13863.315	31.842
10420.93504	0	31.794	14345.826	33.502
10420.95144	0	36.752	14334.163	33.492
10420.96785	0	32.931	14617.864	33.572
10420.98425	0	42.988	13874.160	31.710
10421.00066	0	40.550	13299.676	30.630
10421.01706	0	41.265	12769.180	29.553
10421.03346	0	32.802	12856.058	31.407
10421.04987	0	31.126	13311.596	32.981
10421.06627	0	41.125	13596.513	34.597
10421.08268	0	31.278	13695.123	34.787
10421.09908	0	30.540	13745.866	34.651
10421.11549	0	36.096	13674.415	33.740
10421.13189	0	34.221	13299.115	33.610
10421.14829	0	45.966	12828.968	31.364
10421.1647	0	44.090	12321.729	30.441
10421.1811	0	48.498	11925.838	30.165
10421.19751	0	56.070	11585.901	28.818
10421.21391	0	59.235	11349.437	27.534
10421.23031	0	63.197	11231.170	27.223
10421.24672	0	73.676	11016.817	26.541
10421.26312	0	87.730	11014.012	26.384
10421.27953	0	83.709	11034.954	26.670
10421.29593	0	81.611	10668.840	25.818
10421.31234	0	90.414	11293.646	27.539
10421.32874	0	146.983	10620.996	26.429
10421.36155	0	72.187	9465.718	24.114
10421.37795	0	34.092	10618.355	26.253
10421.41076	0	30.599	12598.745	28.723
10421.42717	0	31.548	13302.154	29.678
10421.44357	0	28.606	15014.106	32.198
10421.45997	0	28.746	16249.109	34.864
10421.47638	0	42.719	14859.610	32.486
10421.49278	0	61.696	13195.176	30.680
10421.50919	0	70.593	11687.948	27.560
10421.52559	0	48.521	10710.468	26.859

10421.5584	0	57.195	11482.920	27.326
10421.5748	0	80.791	12429.712	27.855
10421.59121	0	57.652	12420.760	27.608
10421.60761	0	27.914	12710.561	28.518
10421.62402	0	59.000	12875.107	28.422
10421.64042	0	78.892	12123.573	27.747
10421.65682	0	72.820	11437.343	27.083
10421.67323	0	60.383	12984.305	28.885
10421.68963	0	59.469	16385.630	33.658
10421.70604	0	28.184	19034.347	35.223
10421.72244	0	24.808	19412.638	35.653
10421.73885	0	0.000	18931.622	35.898
10421.75525	0	94.611	16698.594	34.059
10421.77165	0	105.125	13099.791	30.275
10421.78806	0	110.822	10726.151	30.760
10421.80446	0	193.084	9682.478	30.169
10421.82087	0	227.136	10045.858	31.237
10421.83727	0	170.895	10510.021	32.099
10421.9521	0	142.259	10619.874	31.649
10421.9685	0	116.765	10933.609	31.006
10421.98491	0	129.928	11895.593	32.399
10422.00131	0	119.859	11718.894	31.744
10422.01772	0	113.729	11467.260	31.404
10422.03412	0	105.359	10915.028	31.030
10422.05052	0	103.589	9779.990	29.631
10422.06693	0	118.335	8984.586	28.417
10422.08333	0	118.605	9232.292	28.808
10422.09974	0	113.260	9917.447	29.113
10422.11614	0	105.781	10535.498	29.371
10422.13255	0	88.340	10812.677	29.773
10422.14895	0	110.493	10934.988	29.438
10422.16535	0	102.792	10602.204	28.650
10422.18176	0	103.261	10402.716	28.856
10422.19816	0	96.756	10575.536	29.291
10422.21457	0	93.814	10407.344	28.842
10422.23097	0	101.351	10898.129	30.386
10422.24738	0	110.236	12395.237	35.625
10422.26378	0	208.862	12560.343	36.438
10422.28018	0	414.671	12034.031	35.876
10422.29659	0	208.311	12238.498	35.968
10422.31299	0	143.572	12003.155	35.219
10422.3294	0	132.718	10280.639	29.369
10422.3458	0	133.023	9051.970	26.019
10422.3622	0	118.945	8020.171	23.326
10422.37861	0	82.432	6745.153	20.282
10422.39501	0	43.574	5514.287	17.189
10422.41142	0	32.005	4939.125	15.512
10422.42782	0	45.426	4920.590	15.229
10422.44423	0	60.641	5367.107	15.735
10422.46063	0	51.276	6681.508	18.130
10422.47703	0	49.846	7689.934	20.218
10422.49344	0	54.909	8473.419	20.970

10422.50984	0	53.221	9146.256	22.071
10422.52625	0	49.834	9754.748	23.602
10422.54265	0	58.098	9897.743	23.501
10422.55906	0	150.089	10145.637	23.444
10422.57546	0	39.343	10526.686	24.440
10422.59186	0	37.596	11281.025	25.028
10422.60827	0	38.053	11796.164	25.390
10422.62467	0	34.021	12043.497	25.247
10422.64108	0	32.275	12534.680	25.984
10422.65748	0	48.462	13009.595	27.329
10422.67388	0	37.315	12841.006	27.886
10422.69029	0	44.149	11824.399	25.799
10422.70669	0	46.036	11588.332	25.847
10422.7231	0	35.967	11173.369	25.434
10422.75591	0	43.785	11000.222	25.629
10422.77231	0	31.958	11336.185	25.891
10422.78871	0	29.848	12726.361	29.250
10422.80512	0	34.572	13988.641	33.275
10422.82152	0	33.412	15710.152	36.964
10422.83793	0	374.489	16784.139	39.611
10422.85433	0	424.588	17502.881	40.408
10422.87073	0	37.796	18434.106	42.676
10422.88714	0	48.263	18890.019	42.190
10422.90354	0	57.195	18617.654	41.455
10422.91995	0	43.129	18496.254	39.427
10422.93635	0	49.986	18367.984	39.679
10422.95276	0	77.954	17864.834	38.113
10422.96	0	62.106	17280.931	36.566
10422.97	0	56.820	16810.527	35.983
10422.98	0	90.414	15381.692	34.227
10422.99	0	212.460	14865.290	33.589
10423	0	45.051	14963.877	33.118
10423.01	0	35.275	16464.608	34.743
10423.0164	0	30.036	17184.985	35.484
10423.03281	0	26.742	17367.645	35.055
10423.04921	0	27.668	16805.782	34.364
10423.06562	0	47.278	15628.347	32.720
10423.08202	0	47.196	13072.842	29.177
10423.09843	0	65.049	11117.578	25.989
10423.11483	0	59.364	10334.233	25.199
10423.13123	0	38.616	9526.441	23.580
10423.14764	0	51.850	8760.275	22.497
10423.16404	0	274.339	7857.822	22.554
10423.18045	0	362.627	8599.656	25.436
10423.19685	0	214.887	9834.052	28.117
10423.22966	0	28.817	10707.149	29.687
10423.24606	0	30.915	11790.789	30.278
10423.26247	0	38.722	13273.428	31.779
10423.27887	0	42.473	13215.347	30.455
10423.29528	0	27.774	14364.641	31.559
10423.31168	0	33.611	15925.136	33.527
10423.32808	0	24.187	15706.599	33.988

10423.34449	0	20.998	14939.312	32.444
10423.36089	0	24.081	13862.661	29.986
10423.3773	0	33.564	12116.117	26.500
10423.3937	0	35.486	10801.552	24.691
10423.4101	0	22.171	10526.242	24.251
10423.42651	0	20.354	10343.302	24.359
10423.44291	0	24.585	10506.749	24.747
10423.45932	0	50.936	9652.771	23.733
10423.47572	0	49.201	8108.567	21.123
10423.49213	1	35.651	6937.279	18.557
10423.50853	1	40.597	5492.293	15.530
10423.52493	0	38.276	4079.515	12.190
10423.54134	0	28.207	3209.223	9.959
10423.55774	0	6.616	2527.317	8.386
10423.57415	0	7.190	2218.771	7.519
10423.59055	0	1.775	2372.939	6.864
10423.60696	0	0.000	2481.717	6.876
10423.62336	0	0.286	2508.479	7.354
10423.63976	0	0.000	2633.103	7.171
10423.65617	1	0.000	2521.544	7.905
10423.67257	1	0.000	2262.805	8.334
10423.68898	0	8.738	2198.693	8.581
10423.70538	0	6.006	2156.669	8.339
10423.72178	0	7.870	2154.706	9.081
10423.73819	0	7.612	2187.171	9.010
10423.75459	0	5.256	2234.711	9.447
10423.771	0	2.982	2033.610	9.751
10423.80381	0	9.886	1927.894	9.965
10423.82021	0	1.306	1821.851	9.610
10423.83661	0	1.599	1866.260	9.096
10423.85302	0	5.526	2033.096	9.128
10423.86942	0	1.681	2278.676	8.609
10423.88583	0	0.000	2707.195	8.974
10423.90223	0	2.549	3861.983	9.872
10423.91864	0	0.000	4300.366	9.963
10423.93504	1	7.976	4192.523	9.454
10423.95144	1	15.829	4173.310	9.452
10423.96785	0	3.076	4011.406	9.190
10423.98425	0	1.283	3045.075	7.715
10424.00066	0	8.304	2701.352	8.076
10424.01706	0	7.308	2708.808	8.311
10424.03346	0	7.882	2415.828	8.543
10424.04987	0	74.789	1854.831	7.643
10424.06627	0	51.522	2383.106	9.067
10424.08268	0	19.733	3723.101	9.175
10424.11549	0	10.250	5150.393	9.477
10424.13189	0	0.000	7223.878	10.640
10424.14829	0	0.000	14937.653	15.040
10424.1647	0	0.000	24460.494	21.141
10424.1811	0	0.000	27746.357	27.486
10424.19751	1	16.615	30193.902	33.229
10424.23031	1	36.436	31113.277	37.015

10424.24672	1	29.356	24983.160	36.606
10424.26312	0	30.012	16333.649	32.999
10424.27953	0	53.913	13183.723	29.876
10424.29593	0	60.653	10932.627	27.629
10424.31234	0	89.477	9917.961	26.525
10424.32874	0	99.510	10463.299	27.411
10424.34514	0	85.233	10739.660	28.007
10424.36155	0	92.512	11014.152	28.767
10424.37795	0	65.084	11687.270	29.560
10424.39436	0	68.671	12328.226	30.626
10424.41076	0	65.306	12640.723	31.406
10424.42717	0	61.462	12954.318	32.672
10424.44357	0	184.668	13185.079	32.543
10424.45997	0	63.958	12973.998	32.338
10424.47638	0	72.011	12340.030	31.220
10424.49278	0	90.555	11659.479	29.438
10424.50919	0	62.470	10273.090	26.430
10424.52559	0	69.878	8484.872	24.387
10424.54199	0	102.218	7141.558	22.280
10424.5584	0	112.498	6447.989	21.819
10424.5748	0	118.171	6307.682	22.136
10424.59121	0	137.617	6800.594	22.619
10424.60761	0	100.190	7640.477	23.139
10424.62402	0	64.123	7981.605	23.740
10424.64042	0	55.261	7650.761	22.603
10424.65682	0	106.227	7087.403	21.816
10424.67323	0	124.231	6939.780	21.983
10424.68963	0	109.087	7294.394	23.274
10424.70604	0	88.902	7835.595	24.401
10424.72244	0	51.768	8684.851	25.834
10424.73885	0	88.035	9386.554	25.979
10424.75525	0	109.603	9727.775	26.133
10424.77165	0	62.622	9504.657	25.523
10424.78806	0	52.928	8721.476	23.605
10424.80446	0	63.536	7953.394	21.940
10424.82087	0	72.058	6991.831	20.729
10424.83727	0	348.045	5097.220	17.387
10424.85367	0	279.708	4934.310	16.174
10424.87008	0	58.531	6412.299	18.823
10424.9521	0	36.026	8159.871	21.490
10424.9685	0	57.218	10364.057	24.784
10424.98491	0	56.117	13244.353	29.913
10425.00131	0	64.123	13666.328	31.019
10425.01772	0	103.531	12074.326	29.143
10425.03412	0	133.773	11103.110	29.008
10425.05052	0	202.872	10978.485	31.027
10425.06693	0	271.467	10710.655	30.398
10425.08333	0	333.018	11391.392	31.632
10425.09974	0	79.349	12899.882	33.493
10425.11614	0	65.717	13740.186	34.456
10425.13255	0	60.196	13784.057	32.567
10425.14895	0	56.351	14044.712	33.946

10425.16535	0	69.210	13668.572	34.310
10425.18176	0	86.019	12623.871	33.204
10425.19816	0	70.862	11422.080	31.372
10425.21457	0	120.562	10379.810	29.606
10425.23097	0	125.005	9359.815	27.344
10425.24738	0	84.413	9060.080	26.488
10425.26378	0	73.945	9439.867	26.157
10425.28018	0	61.216	9627.342	27.069
10425.29659	1	64.251	9535.953	27.778
10425.31299	0	68.295	9550.071	27.173
10425.3294	0	67.756	9329.056	26.614
10425.3458	1	52.495	8826.748	25.544
10425.3622	0	130.256	8294.195	23.448
10425.37861	0	89.441	7706.693	21.909
10425.39501	0	61.298	6830.347	21.051
10425.41142	0	71.847	6055.698	19.453
10425.42782	0	191.537	5933.527	19.653
10425.44423	0	156.900	6358.167	19.995
10425.46063	0	61.180	7137.655	21.287
10425.47703	0	66.772	8209.211	22.761
10425.49344	0	103.625	9141.862	23.987
10425.50984	0	94.822	9828.256	24.692
10425.52625	0	69.139	10368.825	26.268
10425.54265	0	65.295	10840.842	26.944
10425.55906	0	68.178	10351.927	26.127
10425.57546	0	86.581	10218.654	26.236
10425.59186	0	85.679	10545.501	28.536
10425.62467	0	133.445	10556.183	27.892
10425.64108	0	302.729	10027.533	26.901
10425.65748	0	61.497	10479.987	27.625
10425.67388	0	122.801	10820.157	28.140
10425.69029	0	140.384	10796.480	27.009
10425.70669	0	67.745	10788.603	27.520
10425.7231	0	58.754	10843.483	27.427
10425.7395	0	75.082	10802.744	27.543
10425.75591	0	71.531	10774.019	27.829
10425.77231	0	53.444	10496.254	26.713
10425.78871	0	49.693	10510.605	26.213
10425.80512	0	56.691	10894.179	27.363
10425.82152	0	71.531	11340.088	27.089
10425.83793	0	83.780	11562.505	26.573
10425.85433	0	70.757	11689.327	26.560
10425.87073	0	65.084	12026.271	26.718
10425.88714	0	83.780	12551.158	27.223
10425.90354	0	57.887	12904.697	28.337
10425.91995	0	42.367	12942.561	28.851
10425.93635	0	50.127	11312.485	26.506
10425.95276	0	40.984	11583.938	26.958
10425.96916	0	168.762	11011.371	27.077
10426.7	0	54.147	10640.956	27.740
10426.7164	0	106.414	10706.307	28.208
10426.73281	0	80.838	13296.100	33.466

10426.74921	0	65.951	15619.652	42.020
10426.76562	0	57.816	18763.781	51.023
10426.78202	0	521.831	21620.564	59.353
10426.79843	0	563.243	24140.214	68.365
10426.81483	0	616.038	25221.424	73.912
10426.83123	0	665.140	24139.233	71.739
10426.84764	0	579.396	22713.249	65.551
10426.86404	0	482.059	21817.037	58.595
10426.88045	0	213.750	21598.803	53.461
10426.89685	0	52.518	21076.558	46.846
10426.91325	0	43.375	20052.729	41.160
10426.92966	0	71.062	20039.290	39.325
10426.94606	0	71.882	19901.717	38.878
10426.96247	0	75.997	18595.403	35.990
10426.97887	0	73.172	17916.979	35.325
10426.99528	0	96.111	18955.346	36.752
10427.01168	0	84.342	20022.859	41.183
10427.02808	0	47.665	19147.869	40.582
10427.04449	1	44.793	19796.515	41.986
10427.06089	1	58.789	21465.788	44.542
10427.0773	0	72.644	21716.954	44.696
10427.0937	0	70.112	20820.811	40.472
10427.1101	0	90.215	21704.356	41.250
10427.12651	0	77.380	21954.119	41.801
10427.14291	0	65.154	21179.726	39.581
10427.15932	0	42.391	20036.251	36.925
10427.17572	0	34.338	19015.952	34.987
10427.19213	0	50.514	17865.746	32.541
10427.20853	0	55.554	15589.945	27.484
10427.22493	0	47.700	12722.037	23.592
10427.24134	0	51.522	10819.362	21.120
10427.25774	0	39.226	9373.091	18.975
10427.27415	0	54.265	7843.284	16.957
10427.29055	0	68.671	6842.174	15.613
10427.30696	0	54.675	6372.799	15.130
10427.32336	0	57.863	5406.537	14.154
10427.33976	0	52.999	4468.651	12.897
10427.35617	0	38.030	3716.954	11.266
10427.38898	0	23.800	3334.572	11.160
10427.40538	0	19.557	3381.014	10.858
10427.42178	0	19.029	3552.922	10.631
10427.43819	0	19.861	3361.077	10.030
10427.45459	0	24.070	3130.129	10.160
10427.471	0	22.768	3002.115	9.086
10427.4874	0	28.266	2716.054	8.469
10427.50381	0	20.928	2614.031	8.079
10427.52021	0	14.598	2561.021	7.908
10427.53661	0	21.139	2430.296	7.990
10427.55302	0	15.208	2299.828	8.043
10427.56942	0	18.654	2298.753	8.486
10427.58583	0	19.240	2091.482	8.505
10427.60223	0	21.491	1921.514	8.325

10427.61864	0	24.996	1186.738	7.451
10427.65144	0	21.549	464.187	6.303
10427.66785	0	27.621	353.212	6.225
10427.68425	0	23.659	533.160	6.591
10427.70066	0	22.417	582.664	6.968
10427.71706	0	23.179	1322.512	7.797
10427.73346	0	23.448	2073.438	9.320
10427.74987	0	29.930	2213.629	9.397
10427.76627	0	22.358	1912.538	8.519
10427.78268	0	17.083	1934.252	8.329
10427.79908	0	25.629	1930.699	8.500
10427.8647	0	25.546	1956.526	8.221
10427.8811	0	24.609	1767.416	7.913
10427.89751	0	23.355	1984.550	8.793
10427.91391	0	30.681	2917.038	9.758
10427.93031	0	41.875	5579.264	12.431
10427.94672	0	53.690	10427.538	20.596
10427.96312	0	25.136	17032.500	29.387
10427.97953	0	31.513	23299.980	36.026
10427.99593	0	30.563	26862.555	39.995
10428.01234	0	25.922	28913.555	43.304
10428.02874	0	25.886	28507.497	41.723
10428.04514	0	28.700	26064.299	38.243
10428.06155	0	43.715	23307.156	35.876
10428.07795	0	57.887	22088.396	35.847
10428.09436	0	72.246	21100.726	34.194
10428.11076	0	72.668	19940.563	31.564
10428.12717	0	50.912	18133.109	28.831
10428.14357	0	46.270	16130.889	25.945
10428.15997	0	36.061	14435.111	22.532
10428.17638	0	33.916	12197.782	19.810
10428.19278	0	42.871	9614.977	16.496
10428.20919	0	53.456	7526.978	14.688
10428.22559	0	56.726	6140.518	13.090
10428.24199	0	33.588	4501.443	11.403
10428.2584	0	24.726	3055.265	9.645
10428.2748	0	13.649	2378.946	9.110
10428.29121	0	14.481	2333.018	8.664
10428.30761	0	10.132	2333.485	8.607
10428.32402	0	7.659	2455.866	8.997
10428.34042	0	7.835	2374.762	9.030
10428.35682	0	11.504	2368.381	8.776
10428.38963	0	3.205	2447.195	8.125
10428.40604	0	1.646	2427.748	8.147
10428.42244	0	2.549	2348.608	7.287
10428.47165	0	0.000	2430.319	6.598
10428.48806	0	0.000	2371.794	6.351
10428.50446	0	0.000	2282.766	6.833
10428.52087	0	0.000	2430.390	7.343
10428.53727	1	0.000	4133.109	9.147
10428.55367	1	0.000	7716.860	15.828
10428.57008	0	27.996	12186.236	22.752

10428.58648	0	36.307	17815.938	31.492
10428.60289	0	52.248	23331.277	38.432
10428.61929	0	66.561	28429.805	44.956
10428.6357	0	31.724	32506.211	48.306
10428.6521	0	32.392	35774.825	51.054
10428.6685	0	30.329	35355.374	49.003
10428.68491	0	35.428	31437.553	45.220
10428.70131	0	32.040	26481.763	42.047
10428.73412	0	308.660	20700.300	36.484
10428.75052	0	212.753	14606.528	30.420
10428.76693	0	82.385	10911.849	26.430
10428.78333	0	103.226	10801.716	26.715
10428.79974	0	105.559	10983.908	26.650
10428.81614	0	129.424	11616.076	27.582
10428.83255	0	121.184	12553.869	28.868
10428.84895	0	71.531	14434.223	32.289
10428.86535	0	61.473	16206.290	34.540
10428.88176	0	55.273	17389.335	35.457
10428.89816	0	56.691	18130.000	36.998
10428.91457	0	151.824	18407.367	37.422
10428.93097	0	397.218	16809.732	34.558
10428.94738	0	119.097	15105.120	31.246
10428.96378	0	46.399	14644.790	30.226
10429	0	26.789	13857.028	27.666
10429.0164	0	29.837	12639.554	25.399
10429.03281	0	27.703	11986.467	24.135
10429.04921	0	40.621	11402.961	23.764
10429.06562	0	62.728	10064.696	21.526
10429.08202	0	74.027	8871.624	19.557
10429.09843	0	56.984	8386.846	18.419
10429.11483	0	73.711	8397.270	18.488
10429.13123	0	107.282	8700.674	18.365
10429.14764	0	106.707	8943.099	18.220
10429.16404	0	81.154	9046.945	18.815
10429.18045	0	106.145	9177.599	19.804
10429.19685	0	220.841	9516.647	20.936
10429.21325	0	286.178	9225.981	20.509
10429.22966	0	278.254	7457.350	18.626
10429.24606	0	128.428	5576.739	15.698
10429.26247	0	71.308	4112.845	13.336
10429.27887	0	41.617	3051.432	11.237
10429.29528	0	56.128	2958.735	11.480
10429.32808	0	25.347	4686.300	14.526
10429.34449	0	39.601	7338.662	18.822
10429.36089	0	28.641	9667.006	22.639
10429.3773	0	28.664	11323.867	26.070
10429.3937	0	24.785	12947.843	29.062
10429.4101	0	25.324	14383.083	31.572
10429.42651	0	28.899	14505.931	32.144
10429.44291	0	27.234	14469.820	32.077
10429.45932	0	29.626	14818.310	31.940
10429.47572	0	28.829	13910.295	29.530

10429.49213	0	28.735	11294.674	24.974
10429.50853	0	26.848	8925.639	21.003
10429.52493	0	25.570	6699.155	17.083
10429.54134	0	16.122	4040.342	12.693
10429.55774	0	11.269	1974.897	9.389
10429.57415	0	8.163	1169.559	8.020
10429.59055	0	13.075	875.013	6.857
10429.60696	0	13.860	577.546	6.945
10429.62336	0	10.707	371.957	6.212
10429.63976	0	76.852	208.533	5.983
10429.65617	0	92.301	129.720	5.923
10429.67257	0	18.103	273.136	6.213
10429.68898	0	22.874	476.060	6.171
10429.72178	0	17.834	594.211	6.703
10429.73819	0	13.379	742.956	7.135
10429.75459	0	15.513	899.041	7.037
10429.771	0	19.311	852.435	7.393
10429.7874	0	17.201	793.558	7.284
10429.80381	0	17.001	801.529	7.408
10429.82021	0	18.525	798.140	7.508
10429.83661	0	12.348	837.313	7.704
10429.85302	0	15.302	824.995	7.543
10429.86942	0	17.224	747.303	7.257
10429.88583	0	11.234	699.412	7.078
10429.90223	0	7.038	678.821	6.875
10429.93504	0	29.848	662.319	6.621
10429.95144	0	30.434	672.907	6.598
10429.96785	0	14.481	686.113	6.638
10429.98425	0	13.075	712.291	6.548
10430.00066	0	10.109	732.695	6.217
10430.01706	0	10.742	719.887	5.891
10430.03346	0	10.824	699.950	5.648
10430.04987	0	13.567	685.014	5.203
10430.06627	0	11.598	487.723	5.093
10430.08268	0	12.617	553.682	4.933
10430.09908	0	198.816	554.897	5.863
10430.13189	0	8.820	583.926	6.068
10430.14829	0	7.694	695.112	6.148
10430.1647	0	6.382	916.897	7.055
10430.1811	0	5.643	877.047	7.545
10430.19751	0	7.014	856.455	6.875
10430.21391	0	9.816	875.247	6.990
10430.23031	0	8.480	936.040	7.699
10430.24672	0	16.509	1091.564	6.988
10430.26312	0	18.513	1287.663	7.365
10430.27953	0	17.869	1598.383	8.107
10430.29593	0	19.592	1900.501	8.389
10430.31234	0	20.295	2123.923	8.539
10430.32874	0	18.490	2341.245	9.169
10430.34514	0	64.826	2603.583	9.648
10430.36155	0	69.057	2758.265	10.042
10430.37795	0	26.461	2836.284	10.687

10430.39436	0	24.843	2962.521	11.269
10430.41076	0	25.300	2959.857	11.580
10430.42717	0	27.539	2701.072	11.522
10430.44357	0	24.245	2234.711	11.029
10430.45997	0	25.863	1715.130	9.992
10430.47638	0	11.012	1145.345	8.747
10430.49278	0	5.397	736.996	8.180
10430.50919	0	5.760	870.292	7.895
10430.52559	0	16.497	1739.368	8.867
10430.54199	0	24.116	2914.560	10.773
10430.5584	0	31.103	5262.607	14.852
10430.5748	0	34.725	9307.623	21.743
10430.59121	0	28.137	13337.447	29.811
10430.60761	0	287.116	16737.720	36.655
10430.62402	0	341.399	18466.571	39.965
10430.64042	0	325.305	17931.073	39.263
10430.65682	0	231.063	15166.731	34.102
10430.68963	0	27.270	12714.371	28.679
10430.70604	0	35.100	10470.264	24.515
10430.75525	0	27.516	9855.555	22.962
10430.77165	0	30.388	10300.693	23.468
10430.78806	0	34.666	11023.572	25.066
10430.80446	0	275.582	11060.922	24.523
10430.82087	0	286.823	11027.335	23.083
10430.83727	0	26.390	10712.174	22.683
10430.85367	0	22.874	10284.496	22.191
10430.87008	0	32.521	9936.168	21.648
10430.88648	0	26.449	9627.622	22.396
10430.90289	0	27.363	9335.414	22.816
10430.91929	0	23.507	8988.886	22.521
10430.9357	0	23.964	8666.924	21.719
10430.9521	0	24.691	8465.005	20.584
10430.9685	0	23.847	8289.007	20.472
10430.98491	0	26.332	7979.011	19.676
10431.00131	0	21.444	7726.092	18.433
10431.01772	0	26.461	7519.055	17.246
10431.03412	0	18.678	7316.505	17.363
10431.05052	0	23.308	7284.227	16.429
10431.06693	0	25.148	7581.484	17.066
10431.08333	0	23.601	8107.819	17.600
10431.09974	0	23.636	8823.195	19.677
10431.11614	0	21.807	9556.568	21.419
10431.13255	0	23.566	10009.583	22.142
10431.14895	0	27.750	10298.636	23.216
10431.16535	0	25.136	10049.621	23.365
10431.18176	0	30.118	10461.709	24.015
10431.19816	0	40.585	10942.444	24.496
10431.23097	0	31.149	11369.702	24.973
10431.24738	0	30.493	11603.361	24.703
10431.26378	0	55.753	12386.402	25.627
10431.28018	0	282.978	12539.448	25.760
10431.29659	0	40.410	12279.283	25.648

10431.31299	0	29.567	12133.132	25.809
10431.3294	0	24.363	12462.247	26.518
10431.3458	0	22.487	12751.814	27.387
10431.3622	0	30.751	12787.926	27.839
10431.37861	0	36.143	12939.452	27.573
10431.39501	0	29.848	13527.913	28.372
10431.41142	0	44.618	14344.774	28.981
10431.42782	0	33.330	15607.451	30.790
10431.44423	0	30.634	17346.492	32.695
10431.46063	0	31.044	17323.330	32.357
10431.47703	0	33.177	17160.397	32.576
10431.49344	0	29.883	16521.614	31.828
10431.52625	0	47.138	15468.055	30.220
10431.54265	0	46.833	14133.132	28.899
10431.55906	0	43.176	14891.818	30.776
10431.57546	0	328.470	15618.413	31.909
10431.59186	0	326.841	16199.792	33.589
10431.60827	0	36.495	16575.138	34.704
10431.62467	0	34.267	16710.351	34.705
10431.64108	0	38.300	16576.868	33.766
10431.65748	0	37.303	16508.151	33.485
10431.67388	0	30.118	16815.739	33.874
10431.69029	0	28.278	17297.199	34.401
10431.70669	0	35.615	18183.267	35.845
10431.7231	0	363.072	19172.738	38.505
10431.7395	0	32.240	19338.031	38.653
10431.75591	0	30.153	19464.806	38.136
10431.77231	0	34.490	19821.548	39.201
10431.80512	0	39.108	20277.554	39.801
10431.82152	0	36.471	20722.084	40.122
10431.83793	0	373.844	21917.657	42.017
10431.85433	0	386.539	22600.311	43.219
10431.87073	0	411.412	22488.144	41.644
10431.88714	0	371.934	22014.164	40.221
10431.90354	0	417.062	22116.093	39.353
10431.91995	0	389.657	22084.330	39.010
10431.93635	0	39.566	22326.707	38.689
10431.95276	0	362.510	23324.568	39.587
10431.96916	0	368.945	21589.758	36.536
10431.98556	0	372.977	23237.761	37.746
10432.00197	0	221.439	24586.755	39.578
10432.01	0	411.284	25577.440	41.149
10432.0164	0	42.402	26492.515	41.840
10432.03281	0	35.264	30992.205	48.833
10432.04921	0	32.240	31748.577	49.831
10432.06562	0	32.040	30904.533	48.163
10432.08202	0	35.299	28253.339	44.067
10432.09843	0	38.581	25108.135	41.619
10432.11483	0	59.926	21072.538	37.052
10432.13123	0	187.106	16801.155	32.768
10432.14764	0	346.533	14328.834	30.266
10432.16404	0	95.244	13911.346	30.476

10432.18045	0	99.018	13677.266	30.637
10432.19685	0	116.225	13501.128	29.404
10432.21325	0	71.859	13244.142	29.098
10432.22966	0	67.686	13011.605	28.966
10432.24606	0	62.575	13130.713	31.329
10432.26247	0	92.559	13217.801	33.533
10432.27887	0	347.623	12936.227	34.906
10432.29528	0	392.939	13188.935	36.524
10432.31168	0	374.067	13811.637	38.397
10432.32808	0	337.859	13985.088	37.308
10432.34449	0	191.291	14131.029	35.179
10432.36089	0	104.562	14524.022	35.368
10432.3773	0	58.543	14387.594	34.015
10432.3937	0	65.435	13779.126	32.185
10432.4101	0	53.280	13378.326	31.754
10432.42651	0	57.933	13396.744	32.298
10432.44291	0	123.856	13466.653	31.701
10432.45932	0	149.105	13461.955	32.181
10432.47572	0	119.800	13554.231	33.130
10432.49213	0	144.006	13655.319	33.367
10432.50853	0	118.312	13554.418	32.477
10432.52493	0	125.439	13355.888	31.977
10432.54134	0	77.450	13452.722	31.788
10432.55774	0	68.717	13662.284	32.144
10432.57415	0	86.921	13741.261	32.412
10432.59055	0	67.451	13592.422	32.629
10432.60696	0	90.742	13635.078	33.662
10432.62336	0	112.791	13681.544	33.812
10432.63976	0	140.243	12979.490	31.709
10432.65617	0	143.021	12360.434	29.766
10432.67257	0	122.356	12654.419	31.083
10432.68898	0	143.490	12982.295	31.836
10432.72178	0	72.433	13231.334	33.614
10432.73819	0	121.922	13891.082	35.408
10432.75459	0	123.129	14491.323	37.119
10432.771	0	121.031	14373.874	36.633
10432.7874	0	188.021	14230.831	35.623
10432.80381	0	235.658	13890.544	34.445
10432.82021	0	199.613	13597.448	33.479
10432.83661	0	133.679	13341.140	32.365
10432.85302	0	191.971	13317.860	30.960
10432.86942	0	141.544	13509.402	30.617
10432.88583	0	107.235	13218.619	29.590
10432.90223	0	75.164	11467.471	26.396
10432.91864	0	297.079	10255.864	24.723
10432.93504	0	165.621	10299.711	25.687
10432.95144	0	202.708	10069.114	25.555
10432.98425	0	50.056	10490.715	26.428
10433.00066	0	39.273	12768.970	31.108
10433.01706	0	30.704	15310.638	35.802
10433.03346	0	34.138	15913.871	36.040
10433.04987	0	48.087	16242.307	37.008

10433.06627	0	79.220	16759.364	37.031
10433.08268	0	232.962	17100.585	37.431
10433.09908	0	125.439	16644.182	38.802
10433.11549	0	240.792	16866.015	41.955
10433.13189	0	378.826	17441.737	45.193
10433.14829	0	415.972	17488.740	47.234
10433.1647	0	419.758	17473.431	47.371
10433.1811	0	392.681	17639.355	46.955
10433.19751	0	298.462	17927.380	47.650
10433.21391	0	410.100	18034.265	47.645
10433.23031	0	424.037	18604.822	49.031
10433.24672	0	471.732	18994.309	49.133
10433.26312	0	443.788	18970.609	48.973
10433.27953	0	127.959	18018.324	46.708
10433.29593	0	434.809	16914.864	44.383
10433.31234	0	402.727	14430.109	37.939
10433.32874	0	364.596	13889.142	39.837
10433.36155	0	248.786	14321.495	42.774
10433.45997	0	383.480	15287.733	46.657
10433.47638	0	493.359	16789.585	50.009
10433.49278	0	494.578	19706.225	57.205
10433.50919	0	446.542	21090.278	58.439
10433.52559	0	460.280	21628.019	57.183
10433.54199	0	512.113	21513.586	55.524
10433.5584	0	472.787	20769.297	53.962
10433.5748	0	453.810	19820.332	53.048
10433.59121	0	406.020	18939.149	51.760
10433.60761	0	401.707	18282.953	50.479
10433.62402	0	458.194	18352.184	48.645
10433.64042	0	427.143	19124.286	48.434
10433.65682	0	77.755	20218.864	47.267
10433.67323	0	118.722	20871.273	48.034
10433.68963	0	113.951	21376.410	49.084
10433.70604	0	405.165	21802.732	51.647
10433.72244	0	443.225	21682.572	53.375
10433.73885	0	467.712	21100.469	55.230
10433.75525	0	480.289	20632.308	55.313
10433.77165	0	418.340	20252.288	55.206
10433.78806	0	452.684	19848.964	54.700
10433.80446	0	538.722	19714.149	54.994
10433.82087	0	479.926	19809.183	55.054
10433.83727	0	465.754	19923.594	54.796
10433.85367	0	454.032	19950.706	54.768
10433.87008	0	450.692	19973.448	54.139
10433.88648	0	489.983	20408.396	54.124
10433.90289	0	531.618	21102.619	55.827
10433.91929	0	520.330	20559.174	54.102
10433.9357	0	568.460	16900.233	44.667
10433.9521	0	515.419	13536.608	36.393
10434.65748	0	22.827	9691.804	26.178
10434.67388	0	13.930	5507.415	15.773
10434.69029	0	13.907	2522.549	8.375

10434.70669	0	18.408	2762.613	8.665
10434.7231	0	10.508	2704.461	8.219
10434.7395	0	8.562	2664.283	8.849
10434.75591	0	12.864	2685.575	8.404
10434.77231	0	19.240	2805.455	8.538
10434.78871	0	12.852	2930.173	9.384
10434.80512	0	39.589	3354.579	10.264
10434.82152	0	41.148	4011.686	10.802
10434.83793	0	39.366	4815.015	12.283
10434.85433	0	42.215	6179.411	14.256
10434.87073	0	47.173	8356.718	18.473
10434.88714	0	31.454	11051.666	22.689
10434.90354	0	24.808	14219.145	27.597
10434.91995	0	368.464	17304.187	32.229
10434.93635	0	354.832	19473.898	36.091
10434.95276	0	31.911	20706.868	36.716
10434.96916	0	29.731	20024.074	36.326
10434.98556	0	29.555	17688.111	33.168
10435.00197	0	26.789	17299.536	33.815
10435.2	1	29.333	17326.508	32.124
10435.2164	1	34.010	17518.026	29.735
10435.23281	1	337.285	18796.714	30.209
10435.24921	1	362.240	20725.940	32.689
10435.26562	1	37.139	20293.494	30.260
10435.28202	1	28.418	19209.293	29.012
10435.29843	1	26.543	18263.577	29.401
10435.31483	0	29.473	18098.821	28.536
10435.33123	0	32.603	18506.562	28.019
10435.34764	0	35.545	19550.725	28.452
10435.36404	0	26.496	21317.931	30.366
10435.38045	0	25.804	22750.856	31.253
10435.39685	0	25.922	22984.469	31.143
10435.41325	0	24.105	22541.294	29.511
10435.42966	0	15.466	22244.364	29.021
10435.44606	0	20.635	23300.822	28.852
10435.46247	0	22.405	27529.713	30.610
10435.47887	0	12.254	31139.221	32.090
10435.49528	0	18.736	29888.932	32.053
10435.51168	0	20.424	26914.069	29.653
10435.52808	0	21.514	22945.039	27.858
10435.54449	0	53.538	15967.535	24.699
10435.56089	0	326.348	9881.686	21.941
10435.5773	0	326.864	9030.654	22.338
10435.5937	0	103.285	9294.978	23.301
10435.6101	0	257.999	8772.476	22.006
10435.62651	0	270.518	8415.407	20.983
10435.64291	0	51.194	8549.732	21.145
10435.65932	0	56.632	8602.952	20.141
10435.67572	0	84.354	8459.769	19.595
10435.69213	0	63.349	8378.291	20.001
10435.70853	0	90.461	7981.442	19.750
10435.72493	0	70.265	7656.908	19.615

10435.74134	0	60.512	7781.229	20.790
10435.75774	0	61.415	8373.897	21.606
10435.77415	0	47.431	9079.176	24.341
10435.79055	0	54.640	9765.429	26.161
10435.80696	0	291.851	9962.790	26.257
10435.82336	0	272.921	9910.832	26.439
10435.83976	0	128.346	9883.673	27.131
10435.85617	0	273.319	9732.660	25.143
10435.87257	0	275.922	9534.434	23.895
10435.88898	0	63.372	9500.053	23.921
10435.90538	0	95.912	9458.215	22.694
10435.93819	0	77.895	9280.510	21.711
10435.95459	0	85.737	8996.436	21.055
10435.971	0	115.874	8724.515	21.392
10435.9874	0	256.299	8477.065	21.133
10436.00381	0	253.768	8007.222	21.290
10436.02021	0	118.933	7393.565	20.591
10436.03661	0	66.924	7214.575	20.704
10436.05302	0	59.879	7264.009	20.227
10436.06942	0	42.836	7210.602	19.800
10436.08583	0	47.056	7223.644	19.574
10436.10223	0	49.435	7393.191	19.378
10436.11864	0	62.364	7470.065	19.520
10436.13504	0	66.232	7211.817	19.115
10436.15144	0	131.839	7248.139	19.001
10436.16785	0	122.133	7441.270	19.220
10436.20066	0	85.116	7506.574	19.454
10436.21706	0	66.373	7440.381	19.098
10436.23346	0	53.385	7734.530	19.589
10436.24987	0	41.840	7966.179	20.347
10436.26627	0	33.388	8139.209	20.038
10436.28268	0	38.042	8525.611	21.051
10436.29908	0	32.720	9098.739	22.471
10436.31549	0	62.177	9470.462	23.236
10436.33189	0	98.772	9360.726	23.063
10436.34829	0	76.547	9075.343	22.332
10436.3647	0	61.731	8759.738	21.428
10436.3811	0	62.810	8408.349	20.673
10436.39751	0	76.583	8589.068	21.249
10436.41391	0	62.599	9603.642	23.571
10436.43031	0	34.162	11059.122	27.365
10436.44672	0	28.582	12362.444	29.599
10436.46312	0	33.482	12890.720	31.615
10436.47953	0	42.719	12760.042	32.035
10436.49593	0	46.657	11934.205	30.240
10436.52874	0	62.763	11208.288	28.636
10436.54514	0	64.298	10579.065	27.963
10436.56155	0	51.487	10347.673	26.910
10436.57795	0	43.340	10345.429	25.841
10436.59436	0	58.883	10496.301	26.500
10436.61076	0	50.842	10200.820	26.513
10436.62717	0	69.831	9855.906	25.974

10436.64357	0	143.209	9805.163	25.697
10436.65997	0	195.276	9765.826	26.150
10436.67638	0	125.732	9830.640	26.839
10436.69278	0	80.662	10149.750	27.048
10436.70919	0	83.334	10817.633	28.449
10436.72559	0	103.121	11273.569	29.880
10436.74199	0	98.279	11779.523	30.810
10436.7584	0	77.544	12064.112	30.209
10436.7748	0	42.203	11746.403	30.092
10436.79121	0	48.357	11111.781	29.186
10436.80761	0	78.400	10860.382	28.133
10436.82402	0	84.589	10488.051	27.652
10436.84042	0	102.476	9639.846	26.696
10436.85682	0	141.591	9370.566	25.686
10436.87323	0	185.981	7700.569	22.426
10436.90604	0	95.302	7314.354	21.350
10436.92244	0	105.840	7784.572	21.916
10436.95525	0	62.528	9125.454	24.616
10436.97165	0	124.231	10504.295	27.241
10436.98806	0	130.924	13265.856	31.942
10437.00446	0	102.816	14265.984	33.838
10437.02087	0	106.684	14171.090	34.049
10437.03727	0	121.524	13600.276	33.050
10437.05367	0	270.553	12863.444	31.827
10437.07008	0	249.665	12329.722	30.774
10437.08648	0	138.215	11973.495	30.223
10437.10289	0	113.576	11845.622	29.433
10437.11929	0	95.572	11995.699	29.157
10437.1357	0	119.507	12138.718	29.113
10437.1521	0	121.524	12087.742	29.815
10437.1685	0	125.228	12143.042	30.384
10437.18491	0	189.697	12276.479	30.634
10437.20131	0	129.084	12441.445	31.925
10437.21772	0	114.936	12406.923	32.978
10437.23412	0	273.952	12089.074	31.941
10437.25052	0	301.803	12019.937	31.307
10437.26693	0	236.513	12292.583	31.961
10437.28333	0	172.185	12670.453	31.098
10437.29974	0	86.734	13017.074	31.427
10437.31614	0	66.314	13466.489	32.471
10437.33255	0	120.996	13645.853	33.725
10437.34895	0	147.511	13584.382	33.431
10437.36535	0	157.298	13169.956	33.137
10437.38176	0	127.033	13231.614	32.561
10437.39816	0	244.343	13780.879	34.663
10437.41457	0	168.797	14503.617	36.668
10437.43097	0	397.346	14896.166	36.663
10437.44738	0	394.252	15001.344	36.807
10437.46378	0	73.898	14946.651	36.608
10437.48018	0	72.668	14541.692	34.259
10437.49659	0	91.844	13880.447	31.069
10437.51299	0	95.220	13481.401	30.628

10437.5294	0	90.555	13610.069	30.530
10437.5458	0	63.548	13008.683	29.393
10437.5622	0	60.454	12971.240	29.070
10437.57861	0	49.470	13225.140	30.092
10437.61142	0	118.277	13084.832	30.950
10437.62782	0	238.893	12808.961	30.498
10437.64423	0	196.882	13293.155	31.378
10437.66063	0	79.243	13094.929	31.159
10437.67703	0	84.811	12370.929	29.818
10437.69344	0	161.752	11943.695	27.516
10437.70984	0	213.398	11999.252	26.581
10437.72	0	79.208	12812.911	27.334
10437.73	0	50.725	13318.001	29.907
10437.74	0	60.536	13691.173	31.078
10437.75	0	345.337	14169.197	32.629
10437.76	0	249.220	14233.659	33.476
10437.77	0	86.019	13587.631	32.946
10437.78	0	61.743	13329.290	30.803
10437.79	0	57.605	13255.922	30.611
10437.8	0	50.092	13489.792	31.593
10437.81	0	44.676	13746.357	33.459
10437.83	0	39.835	13856.724	34.619
10437.84	0	36.248	13801.003	36.701
10437.85	0	45.579	14030.876	38.727
10437.86	0	335.655	13662.144	38.272
10437.87	0	374.606	12761.210	35.986
10437.88	0	239.831	12036.438	33.784
10437.89	0	126.060	11709.030	31.229
10437.91	0	86.663	11026.704	30.920
10437.92	0	310.360	11098.412	33.190
10437.94	0	311.216	11279.786	34.199
10437.95	0	95.818	11219.904	32.440
10437.96	0	118.640	11667.496	33.990
10437.97	0	179.710	12718.111	36.102
10437.98	0	324.766	12115.906	36.004
10437.99	0	356.672	14299.618	39.719
10438	0	235.435	15549.206	44.370
10438.01	0	60.958	16048.242	46.143
10438.0164	0	440.353	16217.111	46.369
10438.03281	0	453.353	17709.427	51.397
10438.04921	0	444.315	16466.945	51.883
10438.06562	0	451.161	16398.509	52.484
10438.08202	0	400.933	16205.939	52.648
10438.09843	0	395.190	15656.815	51.794
10438.11483	0	449.731	15399.152	50.516
10438.13123	0	454.009	15407.332	47.966
10438.14764	0	400.593	15337.424	44.748
10438.16404	0	51.369	15456.345	44.749
10438.18045	0	44.008	15737.031	45.948
10438.19685	0	379.565	15703.911	46.484
10438.21325	0	431.070	15525.038	49.366
10438.22966	0	388.555	15531.279	53.125

10438.24606	0	453.083	15822.973	53.358
10438.26247	0	487.545	16149.984	53.830
10438.27887	0	486.408	16513.971	54.778
10438.29528	0	465.977	16643.948	55.590
10438.31168	0	449.778	16445.068	54.718
10438.32808	0	423.404	16175.437	53.905
10438.34449	0	408.013	15637.743	52.121
10438.36089	0	417.707	14687.398	49.581
10438.3773	0	394.451	14269.327	48.224
10438.3937	0	374.958	14537.251	45.817
10438.4101	0	343.978	14804.520	47.431
10438.42651	0	74.379	15257.511	48.728
10438.44291	0	367.808	16214.610	51.401
10438.45932	0	425.748	16744.171	51.971
10438.47572	0	446.038	16722.972	53.367
10438.49213	0	427.776	16660.262	52.160
10438.50853	0	381.053	16749.173	52.900
10438.52493	0	400.019	16910.657	52.463
10438.54134	0	422.384	16861.130	51.512
10438.55774	0	416.898	16775.117	51.031
10438.57415	0	395.588	16563.849	50.781
10438.59055	0	363.940	16015.216	48.576
10438.60696	0	398.355	15349.017	46.687
10438.62336	0	412.772	14674.730	45.957
10438.63976	0	375.099	14009.489	45.427
10438.65617	0	366.319	14100.153	45.833
10438.67257	0	356.391	14555.692	47.933
10438.68898	0	343.274	14893.688	49.044
10438.70538	0	390.642	15310.591	49.579
10438.72178	0	427.037	15195.830	49.078
10438.73819	0	393.490	14534.259	47.312
10438.75459	0	349.206	14270.869	46.005
10438.771	0	370.035	13986.607	45.507
10438.7874	0	421.622	13841.812	45.882
10438.80381	0	442.850	14309.902	47.586
10438.82021	0	471.510	14869.030	48.947
10438.83661	0	462.953	15308.371	50.034
10438.85302	0	423.837	15908.588	51.694
10438.86942	0	445.147	16453.529	52.287
10438.88583	0	443.635	16558.029	51.413
10438.90223	0	443.249	16364.548	48.697
10438.91864	0	381.253	16016.852	46.403
10438.93504	0	211.616	15638.678	45.253
10438.95144	0	362.990	15358.833	47.820
10438.96785	0	470.947	15357.781	46.491
10438.98425	0	521.749	15091.564	46.906
10439.00066	0	432.910	14672.276	44.523
10439.01706	0	357.153	14449.906	41.282
10439.03346	0	214.289	13779.359	33.802
10439.04987	0	219.341	13544.975	32.158
10439.06627	0	62.212	13730.931	30.713
10439.08268	0	36.213	12888.920	29.019

10439.09908	0	29.227	10933.960	25.072
10439.11549	0	34.959	9095.467	21.888
10439.13189	0	34.033	6661.197	17.618
10439.14829	0	25.570	4315.979	13.321
10439.1811	0	40.234	3010.646	10.805
10439.19751	0	12.008	2549.498	9.578
10439.21391	0	5.643	2320.256	8.869
10439.23031	0	11.984	2350.734	8.812
10439.24672	0	7.847	2402.435	8.602
10439.26312	0	1.623	2394.302	8.219
10439.27953	0	15.689	2378.572	8.555
10439.29593	0	16.767	2347.556	8.647
10439.31234	0	7.917	2429.268	8.933
10439.32874	0	8.796	2476.855	9.372
10439.34514	0	6.370	2558.917	10.210
10439.36155	0	10.156	2649.908	10.237
10439.37795	0	17.306	2666.830	10.203
10439.39436	0	16.615	2643.270	9.994
10439.41076	0	10.789	2609.029	9.526
10439.42717	0	8.960	2601.643	9.160
10439.44357	0	16.075	2596.244	8.762
10439.45997	0	14.106	2634.786	8.576
10439.47638	0	4.131	2645.725	8.295
10439.49278	0	7.495	2634.692	8.405
10439.50919	0	9.019	2576.073	7.854
10439.52559	0	3.908	2514.369	8.084
10439.54199	0	7.472	2155.126	7.463
10439.5584	0	5.116	1821.711	6.818
10439.5748	0	5.924	1521.579	6.192
10439.59121	0	5.256	1344.085	6.227
10439.60761	0	6.663	1498.837	6.636
10439.62402	0	16.861	1956.924	7.354
10439.64042	0	24.937	2609.520	9.047
10439.65682	0	24.445	3991.212	11.841
10439.70604	0	31.829	5920.812	15.750
10439.72244	0	43.574	7990.838	19.131
10439.75525	0	37.819	10164.639	23.418
10439.77165	0	31.489	12301.441	27.020
10439.78806	0	28.758	13806.939	29.464
10439.80446	0	27.621	14478.655	30.839
10439.82087	0	30.751	14678.774	31.629
10439.83727	0	29.040	14754.619	31.347
10439.85367	0	29.239	14724.281	31.995
10439.87008	0	27.738	14394.676	31.369
10439.88648	0	27.938	12429.688	27.953
10439.90289	0	32.591	10475.546	24.371
10439.91929	0	29.251	10329.769	23.691
10439.9357	0	31.431	10664.867	24.255
10439.9521	0	29.743	11180.942	24.939
10439.9685	0	31.020	13497.622	29.336
10439.98491	0	34.783	16089.285	34.462
10440.00131	0	36.284	17135.528	36.768

10440.01772	0	41.500	17511.272	37.260
10440.03412	0	41.300	17875.095	38.913
10440.05052	0	328.564	18271.804	38.233
10440.06693	0	42.730	18238.568	37.563
10440.08333	0	44.289	18228.027	38.032
10440.09974	0	36.389	18502.892	38.678
10440.11614	0	37.538	19009.969	39.656
10440.13255	0	36.459	19654.104	42.360
10440.14895	0	44.747	20289.988	44.278
10440.16535	0	395.494	20699.716	44.847
10440.18176	0	377.197	21062.230	44.955
10440.19816	0	46.188	20761.561	43.778
10440.21457	0	332.678	19965.221	41.803
10440.23097	0	38.792	18501.490	39.210
10440.24738	0	32.896	16984.469	37.274
10440.26378	0	253.627	16082.086	35.837
10440.28018	0	31.712	15182.531	33.800
10440.29659	0	32.790	14421.274	31.775
10440.31299	0	32.955	14438.290	31.415
10440.3294	0	37.397	14617.420	31.029
10440.3458	0	50.502	15256.787	31.240
10440.3622	0	274.996	16557.655	33.825
10440.37861	0	51.217	17688.579	35.804
10440.39501	0	42.906	18798.537	37.197
10440.41142	0	36.893	19589.033	39.237
10440.42782	0	32.896	19427.503	40.264
10440.44423	0	28.805	19442.976	40.149
10440.46063	0	31.736	19592.773	41.353
10440.47703	0	35.111	19445.944	41.296
10440.49344	0	37.233	19624.677	41.234
10440.50984	0	317.182	19749.606	40.842
10440.52625	0	326.723	19715.691	39.352
10440.54265	0	29.122	19877.035	39.072
10440.55906	0	31.384	20288.586	38.716
10440.57546	0	32.626	20988.629	37.954
10440.59186	0	32.685	22402.132	37.689
10440.60827	0	28.664	22710.608	38.300
10440.62467	0	40.245	21681.988	37.044
10440.64108	0	36.916	20731.924	36.950
10440.65748	0	298.521	18997.861	34.842
10440.67388	0	334.213	15843.495	30.727
10440.69029	0	100.636	13948.743	28.482
10440.70669	1	38.827	14229.616	27.861
10440.7231	0	46.681	14484.685	27.611
10440.7395	0	32.509	15261.859	30.467
10440.75591	0	30.212	16694.901	34.045
10440.77231	0	31.407	17223.223	34.878
10440.78871	0	35.334	16370.718	32.908
10440.80512	0	46.352	15855.181	31.470
10440.82152	0	57.019	15512.043	29.524
10440.83793	0	75.750	15533.266	31.527
10440.85433	0	211.230	16280.966	33.002

10440.87073	0	393.478	17645.783	35.798
10440.88714	0	110.247	18471.876	40.575
10440.90354	0	66.338	16735.710	39.548
10440.91995	0	353.882	15120.920	38.192
10440.93635	0	204.654	14922.787	43.884
10442.2	0	395.225	14868.913	50.722
10442.2164	0	570.792	15128.423	54.340
10442.23281	0	509.793	17774.848	63.481
10442.24921	0	460.304	19989.996	69.941
10442.26562	0	519.826	20284.589	69.948
10442.28202	0	556.562	20085.054	66.826
10442.29843	0	497.250	19528.848	63.898
10442.31483	0	498.094	18603.209	59.533
10442.33123	0	510.425	17438.325	54.988
10442.34764	0	533.939	15653.145	48.746
10442.36404	0	513.649	14288.866	44.707
10442.38045	0	382.354	14885.461	45.917
10442.39685	0	354.422	16596.548	49.485
10442.41325	0	475.061	18272.786	49.676
10442.42966	0	515.665	20936.507	53.536
10442.44606	0	396.221	23741.028	59.987
10442.46247	0	426.182	22638.572	54.029
10442.47887	0	526.648	19037.011	44.006
10442.49528	0	179.745	16355.222	38.946
10442.51168	0	26.789	13299.887	32.400
10442.52808	0	28.547	9722.914	22.999
10442.54449	0	34.830	8425.598	20.593
10442.56089	0	33.787	8961.376	21.373
10442.5773	0	38.030	8569.622	19.939
10442.5937	0	38.546	8333.158	19.987
10442.6101	0	34.818	8345.195	19.507
10442.62651	0	38.370	7188.725	17.405
10442.64291	0	36.026	6299.174	15.935
10442.65932	0	18.900	5133.962	14.819
10442.77415	0	35.381	4566.373	14.002
10442.79055	0	28.453	3971.602	13.753
10442.80696	0	30.118	4475.827	15.210
10442.82336	0	30.798	4401.290	15.448
10442.83976	0	26.367	4806.647	15.356
10442.85617	0	25.101	4776.286	15.363
10442.87257	0	20.787	4755.157	14.666
10442.88898	0	23.765	4749.103	14.717
10442.90538	0	62.282	4716.942	14.440
10442.92178	0	29.942	4537.181	14.670
10442.93819	0	38.569	4290.409	13.117
10442.95459	0	42.719	4067.688	13.213
10442.971	0	23.859	3846.463	12.933
10442.9874	0	27.750	3694.913	13.110
10443.00381	0	50.701	3682.969	12.802
10443.02021	0	60.958	3834.075	13.737
10443.03661	0	48.509	4076.780	13.947
10443.05302	0	61.438	4363.075	14.548

10443.06942	0	95.208	4510.559	14.433
10443.08583	0	92.700	4621.463	14.705
10443.10223	0	59.762	4124.367	14.372
10443.11864	0	62.306	3206.699	12.569
10443.13504	0	43.903	3482.920	12.857
10443.15144	0	45.426	3768.631	13.302
10443.18425	0	78.634	4127.172	14.135
10443.20066	0	65.717	5130.550	15.238
10443.21706	0	56.562	6397.153	17.442
10443.23346	0	62.950	6484.288	17.162
10443.24987	0	60.079	6916.594	18.455
10443.26627	0	57.781	7294.838	19.912
10443.28268	0	89.547	7887.506	21.948
10443.29908	0	117.667	9017.775	25.128
10443.31549	0	120.539	10218.467	27.864
10443.33189	0	155.165	10953.149	28.881
10443.34829	0	80.709	11568.208	29.497
10443.3647	0	57.300	11462.446	28.923
10443.3811	0	57.500	10208.767	25.892
10443.39751	0	50.549	8948.965	23.845
10443.41391	0	60.524	7096.121	20.307
10443.43031	0	56.374	6114.925	18.405
10443.44672	0	51.194	7018.617	20.186
10443.76	0	95.970	8957.987	24.832
10443.77	0	122.637	11104.699	29.171
10443.78	0	84.682	14280.569	36.801
10443.79	0	59.879	16700.370	42.094
10443.8	0	60.231	17385.876	43.763
10443.81	0	68.424	17081.139	42.370
10443.82	0	59.703	16414.566	40.817
10443.83	0	51.662	15719.641	37.881
10443.84	0	41.371	14987.273	35.534
10443.85	0	54.862	14381.750	33.323
10443.86	0	58.168	14227.956	32.779
10443.87	0	55.109	14256.261	32.038
10443.88	0	68.096	14247.239	31.659
10443.89	0	54.534	14078.323	31.315
10443.9	0	58.766	14047.120	30.780
10443.91	0	79.478	14051.140	30.761
10443.92	0	59.926	13692.505	29.977
10443.93	0	52.952	13418.014	28.958
10443.94	0	67.967	13660.040	28.824
10443.95	0	42.285	14429.501	31.426
10443.96	0	48.392	15509.752	33.351
10443.97	0	31.595	15977.609	34.635
10443.98	0	29.321	14816.277	32.671
10443.99	0	31.032	14369.222	32.176
10444	0	42.015	13701.831	28.853
10444.01	0	38.264	12774.790	26.394
10444.0164	0	39.683	12361.042	24.687
10444.03281	0	36.963	13000.199	25.593
10444.04921	0	54.558	12643.995	24.316

10444.06562	0	91.200	12077.855	24.258
10444.08202	0	56.292	11585.574	24.100
10444.09843	0	45.673	11490.329	24.935
10444.11483	0	49.330	11950.122	26.149
10444.13123	0	32.052	12349.870	27.185
10444.14764	0	44.196	12525.658	27.566
10444.16404	0	52.717	12852.762	27.248
10444.18045	0	64.029	13099.277	27.202
10444.19685	0	95.443	12931.809	26.841
10444.21325	0	73.125	12964.976	27.731
10444.22966	0	39.261	13196.859	28.162
10444.24606	0	43.727	13226.940	28.436
10444.26247	0	43.363	12664.960	27.509
10444.27887	0	42.613	11551.380	25.725
10444.29528	0	34.678	10297.117	23.032
10444.31168	0	62.353	9448.258	20.830
10444.32808	0	53.514	8591.920	20.066
10444.34449	0	62.833	8582.431	19.936
10444.36089	0	50.561	9432.528	21.347
10444.3773	0	54.054	10000.654	21.944
10444.3937	0	36.354	10394.793	23.318
10444.4101	0	49.635	10877.047	23.296
10444.42651	0	46.048	11072.678	23.225
10444.44291	0	45.087	10948.217	23.035
10444.45932	0	45.966	10921.923	24.029
10444.47572	0	62.306	10769.835	23.512
10444.49213	0	61.720	10727.880	23.608
10444.50853	0	52.987	10845.143	24.347
10444.52493	0	69.890	11259.498	24.859
10444.54134	0	68.799	11903.259	25.485
10444.55774	0	47.302	12236.441	26.747
10444.57415	0	46.763	12416.296	27.220
10444.59055	0	54.054	12535.661	27.391
10444.60696	0	75.797	12658.790	28.084
10444.62336	0	48.791	12243.873	27.294
10444.63976	0	122.262	11743.809	26.417
10444.65617	0	130.573	11822.903	27.002
10444.67257	0	70.230	11753.883	26.723
10444.68898	0	83.627	11375.638	26.330
10444.70538	0	63.032	11448.726	26.150
10444.72178	0	61.110	11893.396	26.583
10444.73819	0	76.829	11935.187	25.896
10444.75459	0	61.415	12305.648	26.737
10444.771	0	54.675	13004.593	27.257
10444.7874	0	36.389	13749.909	28.647
10444.80381	0	72.843	13812.081	29.252
10444.82021	0	81.600	13371.945	29.113
10444.83661	0	59.000	13182.601	28.915
10444.85302	0	42.672	13199.032	29.050
10444.86942	0	44.196	13092.195	28.627
10444.88583	0	33.623	12975.938	27.768
10444.90223	0	38.522	12849.350	27.589

10444.91864	0	29.274	12283.654	26.166
10444.93504	0	36.788	11411.773	24.959
10444.95144	0	43.059	10480.828	23.401
10444.96785	0	45.450	9999.112	22.677
10444.98425	0	55.706	9929.834	21.982
10445.00066	0	47.208	9783.239	21.761
10445.01706	0	59.235	9502.460	20.655
10445.03346	0	56.832	8963.994	19.769
10445.04987	0	51.674	8152.088	17.632
10445.06627	0	55.026	7055.335	15.595
10445.08268	0	46.317	5966.460	13.626
10445.09908	0	40.269	4156.739	10.951
10445.11549	0	39.741	5083.313	14.298
10445.13189	0	28.875	7335.671	20.141
10445.59121	0	252.255	9883.626	25.571
10445.60761	0	227.452	12629.901	31.868
10445.62402	0	211.054	16366.394	39.159
10445.64042	0	196.847	17435.567	40.351
10445.65682	0	187.821	17232.830	40.096
10445.67323	0	284.959	17272.891	40.584
10445.68963	0	309.973	17548.996	40.766
10445.70604	0	249.454	17837.441	40.739
10445.72244	0	229.527	18245.860	40.342
10445.73885	0	182.043	19363.368	41.328
10445.75525	0	89.781	20343.232	43.101
10445.77165	0	98.279	20693.546	44.851
10445.78806	0	333.475	20810.551	46.938
10445.80446	0	407.826	20816.931	51.932
10445.82087	0	360.751	17838.890	48.412
10445.83727	0	427.682	16386.705	47.235
10445.85367	0	230.066	15517.091	45.758
10446.24738	0	386.105	14807.535	45.364
10446.26378	0	286.952	13914.081	41.189
10446.28018	0	433.613	15596.770	44.705
10446.29659	0	455.896	15807.757	44.266
10446.31299	0	388.614	15791.724	43.854
10446.3294	0	300.010	16093.959	42.865
10446.3458	0	314.884	17257.395	43.402
10446.3622	0	272.663	18234.501	43.654
10446.37861	0	78.622	18701.726	46.465
10446.39501	0	262.934	19044.467	47.650
10446.41142	0	420.274	19119.775	50.310
10446.42782	0	337.789	18946.044	53.921
10446.44423	0	455.533	19080.929	56.127
10446.46063	0	490.944	19731.772	58.887
10446.47703	0	402.352	20455.866	63.652
10446.49344	0	511.879	21083.453	66.520
10446.50984	0	544.125	21425.633	68.264
10446.52625	0	538.194	20798.747	68.036
10446.54265	0	542.777	19576.365	63.969
10446.55906	0	438.853	18697.776	60.417
10446.57546	0	392.470	18246.561	58.206

10446.59186	0	444.737	17774.989	56.305
10446.60827	0	486.853	17977.422	57.767
10446.62467	0	479.246	18657.294	60.085
10446.64108	0	467.313	17896.621	57.276
10446.65748	0	443.624	16523.998	52.270
10446.67388	0	363.822	15577.253	48.288
10447	0	408.224	14360.621	41.876
10447.0164	0	379.635	12288.936	33.944
10447.03281	0	201.161	11281.282	31.742
10447.04921	0	168.739	10713.553	31.798
10447.06562	0	299.271	9702.486	29.976
10447.08202	0	363.846	9284.180	31.399
10447.11483	0	321.894	10505.557	36.858
10447.13123	0	341.903	12053.805	40.643
10447.14764	0	375.286	13316.435	43.929
10447.16404	0	477.417	14180.416	44.784
10447.18045	0	446.835	14878.940	46.206
10447.19685	0	433.402	15327.210	45.034
10447.21325	0	387.195	14735.360	41.635
10447.22966	0	281.126	14581.168	39.504
10447.24606	0	277.527	14519.581	38.276
10447.26247	0	286.049	14304.690	35.844
10447.27887	0	284.666	14263.250	33.758
10447.29528	0	215.742	14256.471	31.124
10447.31168	0	120.797	14568.009	28.887
10447.32808	0	77.872	14516.519	26.754
10447.34449	0	64.005	13864.390	24.700
10447.36089	0	73.969	11979.385	21.995
10447.3773	0	105.817	10278.161	20.812
10447.3937	0	81.412	9756.477	21.997
10448.42717	0	23.355	9695.310	23.119
10448.44357	0	30.833	10166.439	25.332
10448.45997	0	34.795	11644.871	28.620
10448.47638	0	26.730	12762.472	30.221
10448.49278	0	22.850	12450.303	29.042
10448.50919	0	26.555	12253.667	29.612
10448.52559	0	27.199	11500.356	28.116
10448.54199	0	26.859	10900.980	26.850
10448.5584	0	24.585	11406.935	27.111
10448.5748	0	24.234	11599.551	27.209
10448.60761	0	29.274	11746.333	26.693
10448.62402	0	26.449	12422.653	27.633
10448.64042	0	28.149	12946.114	29.826
10448.65682	0	30.329	12537.181	29.402
10448.67323	0	28.782	12384.625	28.944
10448.68963	0	31.466	12151.083	28.123
10448.70604	0	29.333	12215.078	28.575
10448.72244	0	25.722	12350.431	28.238
10448.73885	0	27.457	12328.741	28.181
10448.75525	0	27.692	12233.449	29.529
10448.77165	0	34.021	12191.752	29.648
10448.78806	0	32.193	12264.488	30.087

10448.80446	0	31.876	12455.562	30.146
10448.82087	0	31.560	12652.690	31.311
10448.83727	0	37.069	12677.114	30.108
10448.85367	0	44.993	12702.684	30.316
10448.87008	0	31.161	12801.669	29.355
10448.88648	0	29.684	12697.122	28.285
10448.90289	0	33.974	12559.735	27.453
10448.91929	0	29.567	12632.729	27.547
10448.9357	0	24.011	12670.850	26.897
10448.9521	0	25.464	12384.555	26.413
10448.9685	0	35.381	12281.925	26.465
10448.98491	0	24.831	12190.069	26.037
10449.00131	0	26.742	11946.780	26.216
10449.01772	0	24.081	10758.078	25.146
10449.03412	0	22.522	10017.787	24.235
10449.05052	0	22.171	10079.234	24.100
10449.06693	0	22.358	10260.305	25.186
10449.09974	0	33.412	10515.374	25.665
10449.11614	0	25.699	11538.688	27.629
10449.13255	0	24.269	12445.068	29.586
10449.14895	0	25.570	12562.587	29.692
10449.16535	0	23.823	12534.025	29.289
10449.18176	0	27.633	12716.615	29.566
10449.19816	0	28.067	13146.069	29.926
10449.21457	0	25.687	13236.780	30.024
10449.23097	0	29.649	13178.862	30.153
10449.24738	0	28.289	13019.738	29.690
10449.26378	0	30.364	12675.759	29.376
10449.28018	0	30.704	12294.125	28.010
10449.29659	0	26.379	12029.520	27.392
10449.31299	0	30.388	11912.305	26.742
10449.3294	0	26.168	12322.593	26.662
10449.3458	0	26.332	12756.021	26.226
10449.3622	0	23.355	12787.552	26.218
10449.37861	0	23.448	12756.746	25.632
10449.39501	0	26.344	12645.351	26.722
10449.41142	0	26.133	12364.501	26.709
10449.42782	0	28.336	12211.689	27.390
10449.44423	0	31.466	12399.794	28.030
10449.46063	0	31.032	12513.434	28.324
10449.47703	0	28.629	12623.170	27.065
10449.49344	0	27.023	12780.960	28.172
10449.50984	0	28.137	12932.651	28.260
10449.52625	0	23.566	12776.940	28.600
10449.54265	0	24.785	12769.087	29.382
10449.55906	0	28.817	12487.490	29.682
10449.57546	0	26.109	12126.191	29.266
10449.59186	0	32.357	11830.803	29.054
10449.60827	0	26.941	11776.204	28.286
10449.62467	0	29.743	11781.603	28.355
10449.64108	0	30.376	12118.477	29.458
10449.65748	0	31.360	12368.030	29.366

10449.67388	0	24.667	12529.538	29.098
10449.69029	0	29.063	12384.952	29.095
10449.70669	0	27.223	10506.889	25.004
10449.7231	0	24.058	10705.699	23.996
10449.7395	0	20.049	10927.626	24.252
10450	0	30.552	11159.976	24.264
10450.0164	0	25.793	11679.440	24.649
10450.03281	0	22.979	13418.130	27.124
10450.04921	0	26.648	13130.713	27.190
10450.06562	0	24.292	13083.850	26.836
10450.08202	0	23.741	13007.748	27.037
10450.09843	0	25.863	13215.066	28.205
10450.11483	0	22.686	13729.972	29.799
10450.13123	0	21.995	14099.055	30.929
10450.14764	0	26.941	14207.528	30.710
10450.16404	0	27.680	14194.276	30.201
10450.18045	0	24.773	14183.992	30.160
10450.19685	0	26.133	14295.037	30.030
10450.21325	0	26.015	14357.396	29.472
10450.22966	0	35.733	14397.808	29.911
10450.24606	0	33.224	14424.172	30.321
10450.26247	0	28.981	14306.419	28.735
10450.27887	0	29.590	14213.605	28.388
10450.29528	0	32.837	14224.334	28.058
10450.31168	0	31.138	14636.913	27.480
10450.32808	0	23.261	15571.644	27.225
10450.34449	0	20.494	15789.597	27.940
10450.36089	0	21.936	15575.547	27.015
10450.3773	0	23.425	15132.279	26.496
10450.3937	0	31.501	14446.260	25.418
10450.4101	0	29.485	13386.367	24.380
10450.42651	0	26.156	13268.357	24.700
10450.44291	0	26.578	14062.102	26.897
10450.45932	0	21.725	15239.678	29.553
10450.47572	0	24.644	15761.689	31.594
10450.49213	0	26.285	16104.500	33.180
10450.50853	0	29.766	16348.374	33.775
10450.52493	0	34.303	16181.351	33.547
10450.54134	0	34.830	15535.790	31.195
10450.55774	0	35.674	15117.601	29.960
10450.57415	0	46.399	15157.475	29.443
10450.59055	0	41.300	15155.138	29.344
10450.60696	0	24.292	15128.820	28.594
10450.62336	0	24.210	15453.050	29.466
10450.63976	0	26.590	16061.658	30.822
10450.65617	0	26.379	16073.391	30.692
10450.67257	0	25.242	15841.181	30.694
10450.68898	0	29.450	15632.904	30.719
10450.70538	0	30.798	15268.053	30.511
10450.72178	0	35.064	14665.077	30.056
10450.73819	0	50.115	14296.813	29.545
10450.75459	0	31.876	14005.843	28.117

10450.771	0	26.988	13492.012	26.878
10450.7874	0	31.771	13056.761	25.729
10450.80381	0	30.657	12874.172	23.832
10450.82021	0	24.538	12702.614	22.886
10450.83661	0	28.653	12346.808	21.209
10450.85302	0	26.519	12456.661	21.351
10450.86942	0	28.770	13074.408	22.997
10450.88583	0	23.577	12418.563	23.105
10450.90223	0	29.555	12258.762	24.551
10450.91864	0	22.393	12771.097	26.753
10451.32874	0	23.741	13240.683	27.950
10451.34514	0	26.449	13182.812	28.674
10451.36155	0	40.187	14030.174	30.786
10451.37795	0	35.545	14384.649	30.682
10451.39436	0	28.817	14118.548	30.547
10451.41076	0	34.678	13561.757	30.031
10451.42717	0	25.582	13102.479	28.545
10451.44357	0	24.996	13316.481	28.432
10451.45997	0	28.829	13813.554	30.981
10451.47638	0	27.352	14558.637	33.269
10451.49278	0	26.625	15175.098	33.959
10451.50919	0	31.384	15698.536	34.516
10451.52559	0	31.231	15932.943	34.669
10451.54199	0	32.333	15945.518	33.475
10451.5584	0	31.630	15634.798	31.621
10451.5748	0	31.782	15184.074	30.907
10451.59121	0	27.551	15052.858	31.499
10451.60761	0	28.770	14822.097	31.582
10451.62402	0	28.289	14838.902	31.951
10451.64042	0	27.199	15611.518	33.938
10451.65682	0	27.152	16627.447	36.234
10451.67323	0	23.519	16821.863	35.952
10451.68963	0	29.497	16707.920	36.060
10451.70604	0	46.306	16425.341	35.896
10451.72244	0	57.359	15737.615	35.055
10451.73885	0	78.997	15098.529	33.786
10451.75525	0	62.376	15245.381	34.807
10451.77165	0	55.554	15770.057	35.933
10451.78806	0	48.040	15651.579	34.648
10451.80446	0	37.174	13295.446	29.885
10451.82087	0	34.596	10569.412	25.160
10451.83727	0	26.613	9578.118	21.896
10451.88648	0	17.060	9333.894	19.580
10451.9357	0	46.411	9817.714	20.457
10451.9521	0	37.303	12741.320	25.088
10451.9685	0	27.316	16050.906	30.591
10451.98491	0	26.531	17340.906	32.818
10452.00131	0	27.352	17973.215	34.386
10452.01772	0	29.743	18295.574	34.868
10452.03412	0	27.926	18145.356	34.334
10452.05052	0	26.390	17752.761	33.865
10452.06693	0	34.314	17368.440	34.069

10452.08333	0	27.047	16974.091	34.800
10452.09974	0	27.633	16698.454	34.846
10452.11614	0	27.598	16548.540	35.272
10452.13255	0	32.064	16432.516	34.570
10452.14895	0	29.356	16238.708	34.404
10452.16535	0	25.347	15992.006	33.147
10452.18176	0	24.667	15705.618	32.209
10452.19816	0	23.507	15420.608	30.756
10452.21457	0	25.453	15188.187	30.791
10452.23097	0	24.960	15028.106	30.476
10452.24738	0	24.339	15078.124	30.035
10452.26378	0	25.078	14827.099	28.939
10452.28018	0	23.542	13874.744	27.174
10452.29659	0	22.393	13690.332	26.420
10452.31299	0	24.913	14107.492	26.595
10452.3294	0	27.234	14261.123	26.828
10452.3458	0	22.182	14374.365	27.561
10452.3622	0	24.831	15323.914	29.305
10452.37861	0	26.261	15611.308	29.551
10452.39501	0	25.523	15337.307	28.962
10452.41142	0	21.971	15000.269	28.499
10452.42782	0	22.651	14947.165	28.350
10452.44423	0	20.893	14711.309	28.502
10452.46063	0	118.933	14484.381	27.591
10452.47703	0	18.748	14150.148	26.666
10452.49344	0	25.277	13811.544	25.404
10452.50984	0	28.266	13482.126	24.517
10452.52625	0	20.916	12965.770	23.168
10452.54265	0	20.647	11854.316	21.785
10452.55906	0	21.163	10650.189	20.171
10452.57546	0	17.552	10479.496	19.544
10452.59186	0	18.596	10439.271	19.117
10452.62467	0	24.679	10742.021	19.270
10452.64108	0	25.687	11883.112	20.243
10452.65748	0	25.066	13566.736	21.405
10452.67388	0	18.349	14615.363	23.099
10452.69029	0	19.990	15593.451	24.154
10452.70669	0	21.338	16352.885	25.049
10452.7231	0	19.486	16860.686	26.134
10452.7395	0	20.682	17715.504	28.219
10452.75591	0	20.436	18278.395	29.128
10452.77231	0	26.601	19017.004	29.682
10452.78871	0	29.719	19929.671	31.181
10452.80512	0	28.125	20891.421	32.166
10452.82152	0	22.628	21436.338	32.276
10452.83793	0	20.623	21971.275	32.005
10452.85433	0	24.421	22803.562	32.901
10452.87073	0	21.268	23375.148	32.422
10452.88714	0	30.786	23503.746	31.244
10452.90354	0	25.558	22918.954	29.770
10452.91995	0	23.624	21450.876	27.726
10452.93635	0	19.041	18413.912	23.719

10452.95276	0	15.993	15070.341	19.531
10452.96916	0	9.992	11417.008	15.473
10452.98	0	7.132	7236.476	11.049
10452.99	0	13.415	4686.674	8.063
10453	0	14.927	3183.980	6.940
10453.01	0	21.397	2277.156	6.549
10453.0164	0	7.296	2105.319	6.940
10453.03281	0	7.999	2456.053	7.286
10453.04921	0	12.782	5009.524	10.247
10453.06562	0	25.968	7861.095	13.781
10453.3937	0	18.009	10793.395	17.238
10453.4101	0	17.623	13738.807	22.126
10453.42651	0	27.082	16532.015	27.212
10453.44291	0	33.740	16780.680	29.774
10453.45932	0	27.809	17110.636	31.075
10453.47572	0	25.054	17103.530	32.576
10453.49213	0	31.689	17078.825	33.333
10453.50853	0	23.050	17982.681	33.853
10453.52493	0	22.534	18719.349	34.918
10453.54134	0	23.343	18631.771	34.736
10453.55774	0	28.723	17908.027	33.066
10453.57415	0	25.289	16490.458	30.115
10453.59055	0	20.682	15570.078	28.270
10453.60696	0	18.736	14820.601	25.574
10453.62336	0	25.699	14340.076	24.630
10453.63976	0	28.301	14321.588	23.750
10453.65617	0	24.785	14587.129	23.518
10453.67257	0	18.502	12776.029	20.899
10453.68898	0	17.951	12602.368	21.461
10453.70538	0	18.009	12809.522	22.425
10453.73819	0	27.985	13219.671	24.444
10453.75459	0	23.355	13693.183	25.279
10453.771	0	28.184	15480.676	28.124
10453.7874	0	26.836	15506.761	27.961
10453.80381	0	34.947	15369.725	27.411
10453.82021	0	20.870	15429.466	28.024
10453.83661	0	21.327	14699.365	26.858
10453.85302	0	25.007	14361.369	26.365
10453.86942	0	21.807	13955.264	25.775
10454.23031	0	28.606	13669.577	25.746
10454.24672	0	19.146	13267.866	24.051
10454.26312	0	22.733	13875.469	25.172
10454.27953	0	25.207	14208.791	25.950
10454.29593	0	29.684	14402.786	27.311
10454.31234	0	25.804	14581.005	27.088
10454.32874	0	25.933	14727.647	27.449
10454.34514	0	24.386	14835.045	28.024
10454.36155	0	23.612	15012.586	28.081
10454.37795	0	24.152	15172.481	28.433
10454.39436	0	24.796	15321.623	29.331
10454.41076	0	27.586	15634.728	31.039
10454.42717	0	26.660	15833.351	32.077

10454.44357	0	26.062	15814.302	32.771
10454.45997	0	27.281	15900.104	31.745
10454.47638	0	23.483	15907.233	30.757
10454.49278	0	23.882	15814.232	29.629
10454.50919	0	24.198	15327.350	27.851
10454.52559	0	25.042	15783.029	28.710
10454.54199	0	23.155	15996.471	31.009
10454.60761	0	28.735	16133.062	32.026
10454.62402	0	28.149	16449.205	33.419
10454.64042	0	28.008	17374.937	35.514
10454.65682	0	29.204	17082.168	35.451
10454.67323	0	31.079	16562.517	33.372
10454.68963	0	35.475	16118.431	32.750
10454.70604	0	28.442	15755.706	32.611
10454.72244	0	26.859	15547.079	32.424
10454.73885	0	29.379	15520.153	32.330
10454.75525	0	27.457	15627.669	33.059
10454.77165	0	30.763	15739.321	33.705
10454.78806	0	27.645	15812.222	33.387
10454.80446	0	28.922	15675.163	32.929
10454.82087	0	29.379	15542.942	32.858
10454.83727	0	33.974	15865.606	33.271
10454.85367	0	29.930	16178.780	33.111
10454.87008	0	25.324	16045.998	32.338
10454.88648	0	26.121	15956.877	32.544
10454.90289	0	27.856	15910.084	32.742
10454.91929	0	29.333	15833.444	32.897
10454.9357	0	31.642	16021.293	34.217
10454.9521	0	27.715	16394.979	35.476
10454.9685	0	34.701	16345.359	35.322
10454.98491	0	31.501	15963.351	33.264
10455.00131	0	28.266	15222.499	31.216
10455.01772	0	31.325	14534.142	28.977
10455.03412	0	26.660	14086.340	28.422
10455.05052	0	29.098	14158.352	29.228
10455.06693	0	25.945	14554.126	31.773
10455.08333	0	33.810	15067.863	32.695
10455.09974	0	28.864	15282.778	33.586
10455.11614	0	31.513	15234.232	33.820
10455.13255	0	26.261	14979.490	33.398
10455.14895	0	23.964	14810.527	33.047
10455.16535	0	24.058	14648.903	33.318
10455.18176	0	23.612	14816.277	33.833
10455.19816	0	28.477	15212.729	33.708
10455.21457	0	29.321	15510.804	33.913
10455.23097	0	28.571	15633.115	33.882
10455.24738	0	25.218	15946.663	35.208
10455.26378	0	24.620	15888.862	35.018
10455.28018	0	26.156	15478.783	34.911
10455.29659	0	31.032	15409.973	33.973
10455.31299	0	30.411	15535.930	33.031
10455.3294	0	35.697	15452.091	31.009

10455.3458	0	29.883	15448.772	30.993
10455.3622	0	28.453	16013.206	31.045
10455.37861	0	30.130	17059.519	32.793
10455.39501	0	29.684	17798.408	34.015
10455.41142	0	27.586	18295.504	35.033
10455.42782	0	26.285	18489.126	35.242
10455.44423	0	26.156	17737.054	33.531
10455.46063	0	24.902	16427.468	31.297
10455.47703	0	25.042	15751.055	29.341
10455.49344	0	23.249	15261.929	27.923
10455.52625	0	25.933	15375.592	26.757
10455.54265	0	26.238	16289.194	29.288
10455.55906	0	27.023	17296.170	30.198
10455.57546	0	29.602	18104.454	31.987
10455.59186	0	28.325	19034.417	33.489
10455.60827	0	23.624	19691.360	35.246
10455.62467	0	23.659	20021.947	35.002
10455.64108	0	26.707	20062.710	36.492
10455.65748	0	26.426	19722.096	36.077
10455.67388	0	28.196	18025.406	34.666
10455.69029	0	26.133	17170.471	34.366
10455.70669	0	22.264	16067.291	32.973
10456.2	0	28.700	14761.935	30.256
10456.2164	0	22.487	13444.238	28.506
10456.23281	0	22.593	13657.563	28.939
10456.24921	0	26.332	12979.864	27.170
10456.26562	0	32.556	12366.745	25.857
10456.28202	0	31.782	11962.603	25.421
10456.29843	0	27.398	11643.983	24.593
10456.31483	0	29.426	11111.431	23.384
10456.33123	0	29.872	10817.282	23.007
10456.34764	0	28.137	10980.168	23.544
10456.36404	0	25.230	11272.891	23.506
10456.38045	0	30.352	11943.508	25.256
10456.39685	0	28.278	12672.066	26.691
10456.41325	0	24.843	13311.339	28.398
10456.42966	0	22.182	13848.824	29.439
10456.44606	0	30.669	14481.319	31.367
10456.46247	0	30.938	14774.743	31.906
10456.47887	0	26.179	14690.928	31.190
10456.49528	0	25.980	14282.322	29.368
10456.51168	0	28.453	14097.442	28.959
10456.52808	0	30.305	13959.448	28.414
10456.54449	0	25.183	13862.240	28.087
10456.56089	0	27.844	14340.170	29.483
10456.5773	0	26.367	14984.445	31.295
10456.5937	0	29.860	15504.213	31.607
10456.6101	0	33.951	16211.432	32.504
10456.62651	0	38.288	16845.236	33.060
10456.64291	0	36.741	16873.026	33.128
10456.65932	0	27.363	16830.114	33.159
10456.67572	0	30.751	17068.401	34.629

10456.69213	0	28.067	16915.448	35.126
10456.70853	0	26.074	16574.554	35.015
10456.72493	0	27.973	16329.418	35.025
10456.74134	0	27.211	15552.899	32.818
10456.75774	0	21.444	14200.587	29.043
10456.77415	0	29.977	13094.415	25.325
10456.79055	0	26.848	12235.225	22.473
10456.80696	0	25.242	11060.945	19.431
10456.82336	0	23.800	10462.317	17.817
10456.83976	0	14.270	9622.901	16.270
10456.85617	0	16.368	7292.828	13.622
10456.87257	0	19.264	5997.686	11.649
10456.88898	0	18.842	5142.937	10.140
10456.9874	0	29.907	4204.093	8.774
10457.00381	0	17.775	3663.453	8.246
10457.02021	0	25.160	4361.369	8.860
10457.03661	0	24.175	4106.511	8.403
10457.05302	0	17.998	3999.673	7.723
10457.06942	0	20.272	3911.019	8.147
10457.08583	0	21.796	3653.847	7.882
10457.10223	0	25.300	3450.549	8.414
10457.11864	0	23.976	3210.532	8.120
10457.13504	0	29.708	2841.239	8.043
10457.15144	0	36.049	2453.529	7.760
10457.16785	0	27.375	1932.031	7.462
10457.18425	0	22.686	1843.541	7.189
10457.20066	0	16.872	1720.156	7.838
10457.26627	0	9.570	1673.620	7.520
10457.28268	0	8.550	1705.594	7.661
10457.29908	0	6.991	2177.985	7.923
10457.31549	0	10.156	2150.919	7.682
10457.33189	0	10.508	2173.965	8.059
10457.34829	0	8.972	2178.079	8.822
10457.3647	0	9.464	2417.231	8.510
10457.3811	0	9.464	2939.920	8.640
10457.39751	0	4.963	3363.742	8.895
10457.41391	0	0.000	3289.065	8.423
10457.43031	0	0.000	3121.084	7.634
10457.44672	0	5.690	2716.778	7.472
10457.46312	0	8.409	1959.425	7.255
10457.47953	0	11.434	1458.075	6.804
10457.49593	0	28.852	1445.874	7.279
10457.51234	0	23.097	1446.271	7.185
10457.52874	0	14.458	1540.254	7.182
10457.54514	0	12.031	1754.070	7.058
10457.56155	0	18.830	1919.574	7.177
10457.57795	0	12.406	2019.423	6.753
10457.59436	0	6.077	2160.549	7.370
10457.61076	0	6.299	2398.275	7.829
10457.62717	0	6.159	2851.079	8.575
10457.64357	0	11.012	3650.107	9.776
10457.65997	0	20.787	4699.342	10.782

10457.67638	0	20.834	5825.030	12.135
10457.69278	0	10.636	6764.786	13.147
10457.70919	0	16.814	7278.360	14.137
10457.72559	0	22.534	7852.727	14.978
10457.74199	0	23.061	8769.180	17.566
10457.7584	0	23.823	9720.109	20.130
10457.7748	0	26.332	10661.408	22.008
10457.79121	0	25.124	11548.107	23.766
10457.80761	0	21.127	11946.312	24.048
10457.82402	0	17.294	11820.005	23.610
10457.84042	0	12.852	11795.487	22.459
10457.85682	0	23.226	11547.523	21.960
10457.87323	0	19.885	11117.250	20.559
10457.88963	0	19.838	10754.175	20.377
10457.90604	0	23.859	10335.706	20.029
10457.92244	0	30.458	9763.349	19.758
10457.93885	0	20.494	9474.085	19.930
10457.95525	0	21.936	9463.871	20.587
10457.97165	0	123.493	10134.885	22.038
10457.98806	0	18.326	11385.432	23.685
10458.00446	0	19.416	12670.406	26.084
10458.02087	0	21.092	14017.904	27.695
10458.03727	0	20.588	15393.869	30.676
10458.05367	0	23.601	15960.079	31.184
10458.07008	0	26.977	15964.263	31.446
10458.08648	0	22.089	16126.705	31.934
10458.10289	0	23.730	16087.041	32.226
10458.11929	0	24.726	15871.542	32.468
10458.1357	0	21.948	15838.283	33.359
10458.1521	0	22.405	16189.461	32.573
10458.1685	0	21.573	16832.989	31.974
10458.18491	0	20.448	16649.908	30.846
10458.20131	0	26.039	14298.215	26.337
10458.21772	0	23.355	13709.638	25.124
10458.23412	0	16.767	14448.106	27.141
10459	0	19.041	14644.649	29.145
10459.0164	0	27.961	15497.248	31.441
10459.03281	0	28.829	18576.868	35.816
10459.04921	0	23.941	19844.523	37.810
10459.06562	0	27.832	19517.255	37.016
10459.08202	0	24.644	19376.386	34.987
10459.09843	0	23.061	19504.821	33.334
10459.11483	0	23.249	19325.059	32.071
10459.13123	0	26.906	18694.130	29.619
10459.14764	0	23.331	18141.219	28.593
10459.16404	0	21.315	18044.268	27.917
10459.18045	0	20.272	18243.289	28.646
10459.19685	0	20.518	18736.996	29.364
10459.21325	0	23.495	20067.828	32.202
10459.22966	0	25.265	21417.125	34.490
10459.24606	0	23.144	21872.524	36.633
10459.26247	0	29.907	21808.552	37.259

10459.27887	0	32.814	21665.253	38.320
10459.29528	0	28.102	21246.082	38.039
10459.31168	0	27.035	20717.994	37.659
10459.32808	0	24.726	20398.439	37.865
10459.34449	0	24.046	20197.198	38.759
10459.36089	0	22.886	20059.624	38.913
10459.3773	0	24.949	20013.229	39.963
10459.3937	0	27.727	20050.906	41.153
10459.4101	0	27.234	20097.489	41.415
10459.42651	0	32.626	19932.429	41.374
10459.44291	0	32.673	20012.855	41.611
10459.45932	0	38.698	20412.159	42.092
10459.47572	0	41.910	20711.426	42.350
10459.49213	0	30.552	20763.781	43.080
10459.50853	0	29.051	21080.859	43.975
10459.52493	0	27.023	20978.672	44.562
10459.54134	0	29.883	20466.898	44.200
10459.55774	0	29.297	19883.392	44.024
10459.57415	0	27.082	19426.124	44.582
10459.59055	0	25.640	19306.828	43.444
10459.60696	0	31.302	19306.665	42.823
10459.62336	0	25.793	19103.998	42.458
10459.63976	0	25.722	19366.172	42.844
10459.65617	0	28.442	20020.521	42.372
10459.67257	0	26.953	20316.376	42.834
10459.68898	0	35.205	20455.632	42.952
10459.70538	0	35.545	20595.309	43.210
10459.72178	0	29.907	20619.477	43.422
10459.73819	0	25.664	20319.485	43.684
10459.75459	0	30.071	20001.566	44.828
10459.771	0	34.982	19786.114	46.597
10459.7874	0	37.819	19868.761	45.182
10459.80381	0	30.974	18930.430	43.981
10459.82021	1	296.036	19101.170	42.783
10459.83661	1	32.626	19096.145	41.289
10459.93504	1	32.861	19119.634	39.069
10459.95144	0	30.575	18920.287	39.403
10459.96785	0	28.899	19264.570	38.706
10459.98425	0	29.672	18646.449	38.045
10460.00066	0	30.083	18366.231	38.155
10460.01706	0	29.731	18435.181	38.981
10460.03346	0	33.224	18464.210	39.179
10460.04987	0	31.056	18574.180	39.581
10460.06627	0	28.114	18824.364	40.901
10460.08268	0	32.826	18967.313	41.637
10460.09908	0	29.508	19040.400	42.181
10460.11549	0	31.020	19369.117	44.232
10460.13189	0	27.539	19862.357	45.131
10460.14829	0	35.135	20279.704	44.505
10460.1647	0	35.651	20769.671	44.893
10460.1811	0	35.885	20910.447	44.405
10460.19751	0	31.829	19900.548	41.894

10460.21391	0	29.497	19387.301	41.433
10460.23031	0	27.750	19328.589	41.554
10460.24672	0	26.426	19385.993	41.137
10460.26312	0	26.086	20129.930	42.351
10460.27953	0	28.325	21975.692	44.722
10460.29593	0	36.061	23298.882	46.440
10460.31234	0	34.654	23931.985	48.160
10460.32874	0	30.188	24341.152	48.847
10460.34514	0	29.919	24693.288	48.501
10460.36155	0	33.060	24257.757	48.738
10460.37795	0	40.972	22695.392	46.165
10460.39436	0	38.452	21357.337	44.313
10460.41076	0	38.991	20161.764	43.165
10460.42717	0	35.967	18744.241	42.460
10460.44357	0	28.207	18105.903	41.074
10460.45997	0	33.400	18662.997	42.135
10460.47638	0	28.524	18565.462	41.844
10460.49278	0	32.204	18364.244	40.425
10460.50919	0	36.952	17256.132	36.960
10460.52559	0	34.127	13900.408	30.449
10460.54199	0	33.646	12535.100	26.996
10460.5584	0	22.862	12456.848	25.771
10460.65682	0	25.500	12538.700	26.182
10460.75525	0	39.296	14055.277	28.371
10460.77165	0	78.599	18900.583	34.648
10460.78806	0	36.260	21400.250	39.547
10460.80446	0	31.208	22401.968	41.856
10460.82087	0	38.722	22907.525	43.020
10460.83727	0	33.084	24274.515	44.073
10460.85367	0	31.032	24956.445	43.693
10460.87008	0	38.229	24858.979	41.738
10460.88648	0	381.897	25576.669	42.155
10460.90289	0	387.606	26657.715	43.365
10460.91929	0	34.900	26433.218	45.456
10460.9357	0	35.779	25880.307	49.166
10460.9521	0	34.877	26243.196	51.936
10460.9685	0	32.146	26380.395	52.996
10460.98491	0	38.405	26806.063	54.825
10461.00131	0	35.147	26989.634	54.968
10461.01772	0	38.710	26941.509	54.390
10461.03412	0	35.990	26904.697	54.230
10461.05052	0	33.646	25829.681	51.298
10461.06693	0	39.530	21469.037	42.461
10461.08333	0	35.627	18508.268	37.334
10461.09974	0	21.010	15766.738	32.967
10461.14895	0	27.516	13050.147	28.101
10461.16535	0	22.956	11617.361	27.071
10461.18176	0	24.550	13512.113	30.924
10461.19816	0	21.127	14105.365	32.205
10461.21457	0	21.151	14562.610	32.005
10461.23097	0	24.116	15050.988	32.151
10461.24738	0	22.827	16060.770	31.211

10461.26378	0	24.714	18449.999	31.898
10461.28018	0	24.046	20908.810	31.930
10461.29659	0	23.999	23222.920	32.863
10461.31299	0	27.152	25815.377	33.456
10461.3294	0	20.823	27926.328	35.470
10461.3458	0	23.753	29014.900	35.267
10461.3622	0	25.230	29889.843	36.270
10461.37861	0	21.444	30706.284	36.609
10461.39501	0	162.831	31220.162	37.608
10461.41142	0	27.844	31489.395	37.873
10461.42782	0	26.402	30800.851	38.790
10461.44423	0	26.250	30363.426	38.624
10461.46063	0	30.985	30793.442	39.576
10461.47703	0	31.841	31490.072	41.700
10461.49344	0	28.383	31167.292	42.771
10461.50984	0	28.629	30130.491	43.469
10461.52625	0	27.961	28577.616	43.736
10461.54265	0	31.384	25993.456	43.569
10461.55906	0	26.390	22794.587	40.351
10461.57546	0	29.462	20600.919	38.311
10461.59186	0	25.582	19410.932	36.704
10461.60827	0	23.648	18435.952	34.725
10461.62467	0	24.070	17840.456	32.501
10461.64108	0	21.104	17070.271	32.166
10461.65748	0	25.734	15661.536	29.697
10461.67388	0	20.682	14400.566	27.898
10461.69029	0	27.867	13149.061	26.314
10461.70669	0	35.815	11479.858	24.225
10461.7231	0	52.870	10236.324	21.741
10461.7395	0	42.813	9763.910	20.685
10461.75591	0	46.481	8999.568	18.462
10461.77231	0	43.750	8194.977	17.029
10461.78871	0	42.086	7604.576	15.527
10461.80512	0	39.378	7088.291	14.678
10461.82152	0	38.429	6607.019	14.207
10461.83793	0	29.450	6355.409	14.295
10461.85433	0	42.637	6341.432	14.083
10461.87073	0	35.334	6450.093	14.527
10461.88714	0	29.719	6673.515	14.321
10461.90354	0	41.969	6925.779	14.515
10461.91995	0	43.985	6869.707	14.857
10461.93635	0	29.966	6617.396	15.059
10461.95276	0	25.781	6368.381	15.073
10461.96	0	27.856	6140.775	14.867
10461.97	0	36.553	5614.580	14.477
10461.98	0	36.178	4394.816	12.356
10461.99	0	26.707	4408.863	12.040
10462	0	23.859	4725.006	12.421
10462.01	0	42.508	5040.026	14.500
10462.0164	0	52.073	6148.769	17.692
10462.03281	0	48.087	8765.604	23.013
10462.04921	0	43.774	10196.029	26.410

10462.06562	0	45.485	11088.338	28.588
10462.08202	0	38.487	11580.175	28.810
10462.09843	0	38.968	11832.065	29.240
10462.11483	0	25.793	11872.127	29.798
10462.13123	0	18.642	11978.847	30.949
10462.14764	0	24.105	12174.292	31.668
10462.16404	0	26.355	12388.365	32.341
10462.18045	0	24.574	12117.589	31.158
10462.19685	0	31.431	11391.111	28.795
10462.21325	0	29.086	10795.195	26.626
10462.22966	0	31.525	10550.994	26.491
10462.24606	0	23.624	10653.297	26.777
10462.26247	0	24.562	11144.036	28.008
10462.27887	0	27.141	11836.015	30.277
10462.29528	0	21.831	12429.408	32.852
10462.31168	0	27.762	13148.500	33.970
10462.32808	0	21.338	14161.881	36.346
10462.34449	0	28.664	15103.250	38.421
10462.36089	0	30.130	15889.025	39.909
10462.3773	0	31.536	16698.360	40.606
10462.3937	0	33.974	17309.657	41.503
10462.4101	0	29.403	17589.992	41.505
10462.42651	0	32.075	17710.760	42.412
10462.44291	0	35.791	17842.443	41.750
10462.45932	0	34.338	18193.505	41.629
10462.47572	0	32.322	18532.576	42.549
10462.49213	0	35.979	18747.958	43.614
10462.50853	0	35.404	18800.126	42.421
10462.52493	0	38.651	18677.208	42.400
10462.54134	0	38.710	18672.557	42.382
10462.55774	0	30.118	18679.428	42.165
10462.57415	0	42.590	18731.807	41.886
10462.59055	0	34.514	18790.426	42.162
10462.60696	0	32.978	18913.298	42.431
10462.62336	0	37.983	18712.478	42.790
10462.63976	0	37.585	18286.459	41.884
10462.65617	0	32.322	17839.358	41.023
10462.67257	0	29.227	17768.561	41.140
10462.68898	0	33.564	18015.590	42.082
10462.70538	0	44.477	18138.672	42.941
10462.72178	0	42.684	18460.844	45.396
10462.73819	0	33.740	18380.979	46.586
10462.75459	0	29.239	17535.416	44.944
10462.771	0	35.709	16450.771	42.158
10462.7874	0	73.793	15648.167	39.892
10462.80381	0	105.887	14672.019	36.493
10462.82021	0	55.683	14431.324	35.172
10462.83661	0	52.213	14849.373	36.387
10462.85302	0	40.410	15161.472	36.873
10462.86942	0	29.497	15493.158	37.799
10462.88583	0	39.718	15004.616	37.174
10462.90223	0	32.521	12770.372	32.312

10462.91864	0	31.325	12541.154	31.394
10462.95144	0	23.987	12923.115	32.386
10462.96785	0	26.156	13124.122	33.048
10462.98425	0	29.040	14185.955	36.327
10463.00066	0	27.328	16843.483	42.479
10463.01706	0	32.439	17459.945	44.212
10463.03346	0	30.599	17514.474	44.937
10463.04987	0	31.653	17150.907	44.083
10463.06627	0	31.712	16559.058	40.880
10463.08268	0	28.137	15696.269	37.340
10463.09908	0	32.357	14621.767	34.191
10463.11549	0	32.943	13334.105	30.084
10463.13189	0	23.530	12280.335	26.432
10463.14829	0	42.813	11177.693	23.847
10463.1647	0	26.977	10144.328	22.144
10463.1811	0	28.067	8978.579	20.183
10463.19751	0	29.790	7847.678	18.538
10463.21391	0	39.566	6784.560	16.873
10463.23031	0	30.845	6074.022	15.886
10463.24672	0	25.371	5507.462	14.920
10463.26312	0	32.122	5257.091	14.053
10463.27953	0	41.500	5348.409	14.237
10463.29593	0	47.325	5344.155	14.514
10463.31234	0	58.625	5492.129	14.475
10463.32874	0	46.493	5696.245	14.740
10463.34514	0	56.668	5720.880	14.835
10463.36155	0	44.254	5469.154	14.473
10463.37795	0	38.897	5246.479	13.791
10463.39436	0	21.022	4710.397	13.374
10463.41076	0	28.055	4134.768	12.141
10463.42717	0	19.557	3522.304	10.981
10463.44357	0	16.462	2985.684	10.639
10463.45997	0	19.955	2833.433	10.799
10463.47638	0	6.909	2884.316	10.281
10463.49278	0	0.000	3017.495	10.501
10463.50919	0	0.000	4284.238	11.250
10463.52559	0	2.935	6222.113	12.640
10463.54199	0	6.112	8007.246	14.885
10463.5584	0	11.258	10459.162	18.324
10463.5748	0	15.454	13753.088	22.247
10463.59121	0	15.161	16215.732	24.795
10463.60761	0	22.124	18017.343	26.669
10463.62402	0	22.159	20179.411	27.341
10463.64042	0	24.175	21674.812	27.066
10463.65682	0	21.772	23596.279	27.240
10463.67323	0	25.441	26183.922	28.768
10463.68963	0	24.081	28821.489	29.747
10463.72244	0	22.417	30194.136	29.741
10463.73885	0	28.266	30616.836	30.514
10463.75525	0	165.667	29259.638	30.127
10463.77165	0	27.188	27375.638	29.688
10463.78806	0	31.525	25543.643	28.716

10463.80446	0	27.035	23954.259	29.181
10463.82087	0	22.757	23752.504	28.734
10463.83727	1	21.596	23959.354	29.046
10463.85367	1	23.847	23025.208	28.192
10463.87008	0	25.722	22321.004	27.552
10463.88648	0	22.440	22667.835	28.191
10463.90289	0	19.733	22404.259	28.455
10463.91929	0	24.327	21483.107	27.485
10463.9357	0	23.519	21764.798	27.160
10463.9521	0	17.025	22047.681	27.312
10463.9685	0	22.569	20789.819	25.146
10463.98491	0	18.842	16903.365	21.068
10464.00131	0	24.257	13621.311	18.109
10464.01772	0	14.528	10959.319	16.316
10464.03412	0	19.170	9707.043	18.183
10464.05052	0	19.768	9589.922	19.311
10464.11614	0	30.528	12026.388	23.855
10464.13255	0	27.996	14393.156	27.260
10464.14895	0	26.426	15829.705	29.624
10464.16535	0	22.464	15717.421	28.423
10464.18176	0	23.061	15544.298	28.030
10464.19816	0	27.000	15511.996	27.340
10464.21457	0	22.757	15461.651	27.215
10464.23097	0	23.624	15412.731	26.792
10464.24738	0	27.609	15425.750	26.557
10464.26378	0	27.797	15308.745	27.767
10464.28018	0	24.703	15212.752	28.680
10464.29659	0	20.963	15235.892	28.186
10464.31299	0	24.222	15254.216	28.991
10464.3294	0	22.815	15210.228	29.226
10464.3458	0	24.843	15140.857	28.331
10464.3622	0	25.148	15160.584	26.950
10464.37861	0	27.645	14169.501	25.093
10464.39501	0	22.933	14339.165	25.238
10464.41142	0	18.467	14700.417	26.178
10465	0	25.605	15129.264	27.533
10465.0164	0	26.824	15383.492	28.673
10465.03281	0	26.097	16731.340	31.989
10465.04921	0	30.903	16829.553	32.436
10465.06562	0	26.320	17118.746	33.151
10465.08202	0	30.259	17413.619	33.375
10465.09843	0	30.352	17202.982	32.928
10465.11483	0	27.270	16721.383	32.365
10465.13123	0	26.086	16297.982	31.642
10465.14764	0	26.672	15348.479	29.762
10465.16404	0	28.219	14448.106	27.792
10465.18045	0	37.655	14153.934	27.547
10465.19685	0	34.701	14055.861	26.737
10465.21325	0	24.245	14092.089	26.152
10465.22966	0	29.356	14190.443	26.135
10465.24606	0	26.133	14009.536	25.897
10465.26247	0	23.812	14679.592	27.098

10465.27887	0	19.568	15286.190	29.429
10465.31168	0	30.188	15625.682	30.217
10465.32808	0	33.084	15872.360	31.651
10465.34449	0	30.622	16379.834	33.134
10465.36089	0	23.694	15706.856	31.454
10465.3773	0	32.251	15010.600	29.488
10465.3937	0	28.020	14757.120	28.974
10465.4101	0	26.519	14590.985	27.320
10465.42651	0	22.440	14476.948	27.452
10465.44291	0	25.160	14648.015	28.466
10465.45932	0	26.766	14792.133	28.679
10465.47572	0	28.278	14761.537	28.625
10465.49213	0	25.922	14820.507	28.434
10465.50853	0	25.371	15126.062	29.096
10465.52493	0	21.760	15866.190	29.398
10465.54134	0	22.229	16719.560	30.693
10465.55774	0	23.167	17420.842	30.546
10465.57415	0	26.683	18230.504	32.563
10465.59055	1	304.757	17640.407	30.216
10465.60696	1	26.531	17193.820	30.248
10465.62336	1	20.119	16340.123	28.440
10465.68898	0	25.078	15530.484	28.916
10465.70538	0	24.761	14456.193	28.039
10465.72178	0	27.270	14757.284	29.792
10465.73819	0	24.550	14570.090	30.318
10465.75459	0	25.382	14507.660	31.499
10465.771	0	26.156	14390.141	31.508
10465.7874	0	22.792	14395.494	30.467
10465.82021	0	23.894	14596.828	30.453
10465.83661	0	25.875	14763.664	30.498
10465.85302	0	22.428	15034.510	30.903
10465.86942	0	23.870	15186.247	31.300
10465.88583	0	138.332	14992.112	31.470
10465.90223	0	24.902	14474.821	30.456
10465.91864	0	24.128	14227.980	29.196
10465.93504	0	20.424	14150.849	27.554
10465.95144	0	135.941	13744.323	27.021
10465.96785	0	22.007	13456.275	26.419
10465.98425	0	20.588	13724.059	27.234
10466.00066	0	31.349	13691.991	27.023
10466.01706	0	21.315	12772.055	26.969
10466.03346	0	26.965	13973.074	28.374
10466.04987	0	24.996	15265.271	30.844
10466.11549	0	27.375	15770.244	31.662
10466.13189	0	28.606	15919.784	32.412
10466.14829	0	33.037	16874.195	33.849
10466.1647	0	49.775	16371.186	33.224
10466.1811	0	26.719	15823.067	31.969
10466.19751	0	34.467	15248.373	30.766
10466.21391	0	46.481	15035.024	30.295
10466.23031	0	52.190	14717.900	29.230
10466.24672	0	40.175	14087.999	27.705

10466.26312	0	27.645	13681.006	27.478
10466.27953	0	27.316	12361.346	25.472
10466.29593	0	27.270	12679.639	26.914
10466.31234	0	17.224	13175.730	28.239
10466.41076	0	27.903	13967.348	30.704
10466.42717	0	31.947	14555.295	32.636
10466.44357	0	25.394	16357.700	36.533
10466.45997	0	27.445	16813.612	36.890
10466.47638	0	24.527	17161.449	36.978
10466.49278	0	33.810	17551.473	36.938
10466.50919	0	28.664	18213.161	36.689
10466.52559	0	31.185	18549.895	35.716
10466.54199	0	34.584	18816.324	36.718
10466.5584	0	26.777	19381.528	38.274
10466.5748	0	27.363	19315.289	37.901
10466.59121	0	28.594	18678.026	36.780
10466.60761	0	25.511	18309.107	36.531
10466.62402	0	24.726	17559.023	34.653
10466.64042	0	23.378	16419.217	33.115
10466.65682	0	20.190	16115.182	32.720
10466.67323	0	25.113	16149.680	32.974
10466.68963	0	32.204	15635.148	32.270
10466.70604	0	32.837	15766.084	31.832
10466.72244	0	35.791	16120.464	31.007
10466.75525	0	30.493	15465.344	29.484
10466.77165	0	27.363	14608.655	26.510
10466.78806	0	25.007	14391.590	25.804
10466.80446	0	14.493	13845.435	25.264
10466.82087	0	15.911	12864.402	24.022
10466.83727	0	25.347	12457.339	23.798
10466.85367	0	27.457	12352.955	25.230
10466.87008	0	25.687	12046.302	24.972
10466.88648	0	26.332	11647.536	24.279
10466.90289	0	24.726	11841.578	24.331
10466.91929	0	28.922	11844.827	22.936
10466.9357	0	26.777	11775.199	21.884
10466.9521	0	23.167	12030.432	22.126
10466.9685	0	18.279	12348.865	22.051
10466.98491	0	24.433	12170.786	21.848
10467.00131	0	22.850	11774.918	21.586
10467.01772	0	22.663	9979.642	19.075
10467.03412	0	21.573	9682.455	17.485
10467.05052	0	14.786	9552.221	16.540
10467.16535	0	20.459	9896.107	16.635
10467.18176	0	21.444	10496.699	17.189
10467.19816	0	139.059	12593.416	20.197
10467.21457	0	21.374	13107.948	21.495
10467.23097	0	21.502	13330.342	22.853
10467.24738	0	23.718	13234.092	23.706
10467.26378	0	24.902	13428.765	24.493
10467.28018	0	22.546	13713.144	25.118
10467.29659	0	21.538	13720.086	25.462

10467.31299	0	24.093	13144.994	23.815
10467.3294	0	22.428	13039.746	22.395
10467.3458	0	23.038	12536.503	21.677
10467.37861	0	24.034	11767.766	19.443
10467.39501	0	21.104	11134.850	17.898
10467.41142	0	11.914	11184.588	16.831
10467.42782	0	17.740	10897.147	15.869
10467.44423	0	9.851	10611.460	15.226
10467.46063	0	17.376	10183.244	15.592
10467.47703	0	25.593	9842.934	15.285
10467.49344	0	23.038	9231.895	15.619
10467.50984	0	23.343	8654.372	15.321
10467.52625	0	23.859	8478.655	15.140
10467.54265	0	32.310	8457.362	15.276
10467.55906	0	25.793	8075.588	14.311
10467.57546	0	86.898	7799.530	13.599
10467.59186	0	16.310	7511.575	13.859
10467.60827	0	37.256	7089.998	13.021
10467.62467	0	46.927	6822.167	12.146
10467.64108	0	26.261	6610.361	12.474
10467.65748	0	27.398	6294.125	12.306
10467.67388	0	30.821	6109.035	11.310
10467.69029	0	32.732	5959.238	11.919
10467.7231	0	21.397	5697.180	12.102
10467.7395	0	33.224	5590.296	12.209
10467.75591	0	31.349	5723.849	12.902
10467.77231	0	21.280	5679.674	12.781
10467.78871	0	20.600	5738.714	12.235
10467.80512	0	22.405	5910.084	12.257
10467.82152	0	20.330	5964.310	11.501
10467.83793	0	27.645	5863.829	10.939
10467.85433	0	26.238	5709.077	11.196
10467.87073	0	28.477	5381.552	11.498
10467.88714	0	22.628	5092.124	11.634
10467.90354	0	23.753	4862.415	12.100
10467.91995	0	24.046	4725.543	11.834
10467.93635	0	19.557	4720.775	11.823
10467.95276	0	16.064	4910.540	11.383
10467.96916	0	10.519	4921.221	10.304
10467.98	0	28.043	4042.959	9.740
10467.99	0	26.297	3972.023	10.323
10468	0	21.303	3838.166	10.113
10468.01	0	29.145	3576.412	9.941
10468.0164	0	22.827	3430.121	9.966
10468.03281	0	18.091	4223.983	10.421
10468.04921	0	18.326	4091.622	10.010
10468.06562	0	18.045	3997.943	9.605
10468.08202	0	20.518	3911.884	9.567
10468.09843	0	15.325	3720.693	9.739
10468.11483	0	19.357	3502.647	9.356
10468.13123	0	19.146	3419.182	8.536
10468.16404	0	20.424	3335.601	8.591

10468.18045	0	15.829	3262.583	8.501
10468.19685	0	15.735	3222.125	8.682
10468.21325	0	18.666	3249.705	8.712
10468.22966	0	14.094	3204.642	9.492
10468.24606	0	13.790	3153.338	9.593
10468.26247	0	14.645	3081.560	9.741
10468.27887	0	14.997	3083.991	9.645
10468.29528	0	18.420	2992.439	9.436
10468.31168	0	16.357	2968.669	9.433
10468.32808	0	14.751	2884.175	9.271
10468.34449	0	21.854	3025.722	8.848
10468.36089	0	17.212	3441.153	9.171
10468.3773	0	5.127	3976.253	8.983
10468.3937	0	8.409	4434.597	9.540
10468.4101	0	0.000	4834.461	9.522
10468.42651	0	5.350	4905.772	10.170
10468.44291	0	5.620	4811.018	9.959
10468.45932	0	8.128	4813.846	10.984
10468.47572	0	6.053	4880.179	11.147
10468.49213	0	4.447	4968.178	11.416
10468.50853	0	6.757	5126.950	11.505
10468.52493	0	3.885	5868.924	12.270
10468.54134	0	23.261	6158.889	12.593
10468.57415	0	7.026	6651.825	12.142
10468.59055	0	16.169	7230.913	12.781
10468.60696	0	17.740	7520.130	12.107
10468.62336	0	19.428	7082.635	11.787
10468.63976	0	8.527	7165.352	11.845
10468.65617	0	12.723	7094.555	12.559
10468.67257	0	14.270	6494.805	12.350
10468.68898	0	26.472	6504.108	13.419
10468.70538	0	35.217	6808.377	13.613
10468.72178	0	10.777	6901.845	13.724
10468.73819	0	12.922	6789.118	12.988
10468.75459	0	26.906	7390.317	13.208
10468.771	0	23.460	8163.541	13.977
10468.7874	0	30.341	8696.093	14.615
10468.80381	0	27.445	9080.999	15.274
10468.82021	0	24.163	9621.872	17.184
10468.83661	0	30.270	10218.210	18.528
10468.85302	0	28.207	11032.336	19.985
10468.86942	0	19.604	11905.340	22.314
10468.90223	0	22.276	12986.081	24.176
10468.91864	0	27.891	13936.729	25.886
10468.93504	0	21.819	14263.437	26.793
10468.95144	0	23.214	13896.692	26.661
10468.96785	0	20.248	13621.311	26.429
10468.98425	0	23.917	13176.150	25.697
10469.00066	0	25.629	12772.312	23.270
10469.01706	0	29.368	12800.103	22.909
10469.03346	0	20.799	12728.722	22.631
10469.04987	0	27.164	12277.133	21.391

10469.09908	0	28.793	12356.040	21.777
10469.11549	0	23.167	13305.613	24.551
10469.13189	0	27.609	14021.176	25.529
10469.14829	0	28.946	14509.086	25.776
10469.1647	0	23.378	15333.006	26.098
10469.1811	0	25.851	16043.123	26.763
10469.19751	0	20.823	16118.080	26.047
10469.21391	0	22.616	16360.925	27.265
10469.23031	0	26.015	17207.517	28.494
10469.24672	0	19.838	18907.011	30.842
10469.26312	0	35.463	20210.286	31.530
10469.29593	0	35.041	21074.244	31.497
10469.31234	0	37.596	21970.410	31.471
10469.32874	0	37.760	22831.960	32.550
10469.34514	0	27.316	23731.421	32.769
10469.36155	0	26.766	23366.874	32.432
10469.37795	0	33.787	22246.888	31.945
10469.39436	0	26.414	21298.671	30.763
10469.41076	0	38.229	19972.841	29.220
10469.42717	0	36.213	17753.415	27.468
10469.44357	0	36.565	16827.870	27.399
10469.45997	0	32.240	16967.079	28.305
10469.47638	0	34.654	16989.868	29.389
10469.49278	1	40.785	16794.844	29.961
10469.50919	1	38.440	16252.615	29.228
10469.52559	0	34.912	15700.055	27.953
10469.54199	0	35.862	15123.584	26.930
10469.5584	0	30.388	14506.632	25.359
10469.5748	0	55.929	14350.664	24.858
10469.59121	0	64.087	14410.943	25.408
10469.60761	0	45.016	13951.034	24.487
10469.62402	0	62.013	14024.962	24.571
10469.64042	0	267.552	14931.552	25.847
10469.65682	0	39.038	15271.489	26.328
10469.67323	0	34.279	15810.212	27.203
10469.70604	0	33.857	17167.175	28.698
10469.72244	0	33.693	18367.283	30.651
10469.73885	0	33.470	19086.562	31.884
10469.75525	0	30.599	20428.613	33.676
10469.77165	0	37.526	21476.960	34.554
10469.78806	0	42.754	22168.823	36.650
10469.80446	0	49.974	22396.756	36.103
10469.82087	0	42.590	22429.548	35.884
10469.83727	0	42.062	22770.139	35.163
10469.85367	0	37.901	22933.329	35.695
10469.87008	0	44.219	22779.979	35.063
10469.88648	0	38.218	22446.914	34.917
10469.90289	0	35.897	21566.502	33.740
10469.91929	0	42.437	20617.186	32.198
10469.9357	0	34.396	20721.406	31.493
10469.9521	0	39.261	21678.622	32.044
10469.9685	0	30.094	22847.620	33.201

10469.98491	0	27.481	23177.225	33.156
10470.00131	0	38.112	23928.736	34.412
10470.03412	0	33.248	23161.495	33.534
10470.05052	0	33.728	21000.456	31.147
10470.06693	0	31.454	19897.346	29.697
10470.08333	0	26.261	20564.597	30.342
10470.09974	0	26.953	21274.340	32.183
10470.11614	0	27.938	22809.732	34.964
10470.13255	0	38.663	24977.130	37.371
10470.14895	0	41.031	26079.608	40.025
10470.16535	0	38.909	26039.781	40.935
10470.18176	0	43.434	24752.609	38.548
10470.19816	0	41.242	24536.596	38.278
10470.21457	0	32.861	23664.364	37.946
10470.23097	0	38.429	23229.137	35.781
10470.24738	0	30.774	23339.597	35.161
10470.26378	0	33.611	23254.122	35.134
10470.28018	0	36.495	21160.046	31.547
10470.29659	0	31.044	19250.149	28.410
10470.31299	0	25.757	17174.935	26.116
10470.3294	0	23.882	14813.729	22.907
10470.3458	0	24.105	13616.730	22.262
10470.3622	0	27.176	13361.942	23.364
10470.37861	0	26.848	13508.958	23.906
10470.39501	0	30.352	12724.842	22.893
10470.41142	0	28.325	12492.655	22.725
10470.42782	0	33.787	12481.039	21.617
10470.44423	0	46.423	12477.509	21.167
10470.46063	0	44.711	13225.981	23.636
10470.47703	0	31.653	14998.843	26.633
10470.49344	0	30.388	16545.665	29.634
10470.50984	0	32.204	17621.031	31.416
10470.52625	0	31.349	18619.149	33.126
10470.55906	0	28.371	19334.479	33.555
10470.57546	0	26.977	19920.158	34.723
10470.59186	0	31.548	20599.002	36.370
10470.60827	0	33.505	21018.967	38.511
10470.62467	0	36.987	21408.898	38.807
10470.64108	0	36.811	21833.187	38.639
10470.65748	0	45.145	22106.885	37.742
10470.67388	0	46.962	22061.588	36.151
10470.69029	0	77.075	21632.157	33.950
10470.70669	0	149.714	20623.193	33.192
10470.7231	0	218.028	19917.891	31.088
10470.7395	0	445.886	19383.328	30.286
10470.75591	0	97.307	19075.366	29.774
10470.77231	0	93.907	19365.495	31.227
10470.78871	0	124.489	21477.755	34.034
10470.80512	0	43.094	22785.331	36.906
10470.83793	0	35.147	23620.680	39.527
10470.85433	0	38.218	24471.853	41.481
10470.87073	0	30.974	24736.201	40.939

10470.88714	0	42.836	23499.725	37.951
10470.90354	0	34.924	22549.218	37.432
10470.91995	0	34.642	21795.253	36.366
10470.93635	0	35.264	19993.666	33.683
10470.95276	0	39.179	19353.785	33.103
10470.96916	0	33.166	18820.180	33.031
10471	0	41.664	18012.318	32.299
10471.0164	0	40.621	17131.017	30.566
10471.03281	0	50.525	17722.914	32.062
10471.04921	0	39.038	17581.975	32.424
10471.06562	0	41.336	17291.472	32.030
10471.08202	0	37.925	17378.887	31.158
10471.09843	0	39.343	17956.807	31.224
10471.11483	0	37.878	17955.802	31.127
10471.13123	0	38.522	17469.925	29.272
10471.14764	0	40.117	17024.694	28.966
10471.16404	0	36.471	16600.030	28.264
10471.18045	0	30.634	16089.986	28.884
10471.19685	0	44.395	15626.898	26.868
10471.21325	0	40.292	15486.940	26.153
10471.22966	0	104.973	15556.662	25.624
10471.24606	0	96.263	15184.868	24.589
10471.26247	0	83.393	14417.932	23.096
10471.27887	0	57.289	13952.202	22.829
10471.29528	0	34.279	13282.731	22.754
10471.31168	0	56.328	12186.867	21.244
10471.32808	0	71.249	11355.117	19.902
10471.34449	0	61.954	10657.738	18.053
10471.36089	0	47.150	9792.518	15.948
10471.3773	0	21.678	9650.481	13.419
10471.3937	0	14.200	9795.206	11.736
10471.4101	0	8.573	9428.064	10.919
10471.42651	0	20.248	8811.649	9.668
10471.44291	0	16.134	7989.365	9.037
10471.45932	0	21.432	6400.309	8.733
10471.47572	0	20.412	4919.024	7.816
10471.49213	0	13.321	4002.174	7.134
10471.50853	0	7.003	3288.083	6.834
10471.52493	0	8.503	2935.526	6.392
10471.54134	0	16.111	2974.933	6.591
10471.55774	0	4.377	3188.585	6.714
10471.57415	0	0.000	3304.678	7.076
10471.59055	0	1.611	3811.988	7.218
10471.60696	0	7.483	4420.549	7.547
10471.62336	0	4.823	4868.258	7.391
10471.63976	0	2.478	5361.217	7.739
10471.65617	0	0.000	6018.511	8.077
10471.67257	0	0.357	6671.108	8.908
10471.68898	0	0.000	7672.709	9.820
10471.70538	0	6.956	9544.882	12.348
10471.72178	0	8.527	11307.717	15.669
10471.73819	0	17.728	13090.605	19.177

10471.75459	0	22.639	14913.018	23.026
10471.771	0	24.281	16083.114	26.487
10471.7874	0	30.036	16761.117	29.694
10471.80381	0	32.685	17439.096	31.636
10471.82021	0	31.853	18160.596	33.446
10471.83661	0	32.404	18618.355	34.919
10471.85302	0	29.966	17253.819	32.786
10471.86942	0	28.043	16080.964	31.283
10471.88583	0	22.206	14679.639	30.998
10471.95144	0	28.688	14628.475	35.225
10471.96785	0	31.384	14281.901	38.545
10472.00066	0	35.053	15894.237	44.376
10472.01706	0	325.200	17043.298	48.921
10472.03346	0	55.109	18264.278	51.611
10472.04987	0	32.427	19214.669	49.674
10472.06627	0	30.470	20593.369	49.107
10472.08268	0	27.504	20757.681	49.712
10472.09908	0	30.106	20858.559	50.720
10472.11549	0	37.045	21080.835	53.691
10472.13189	0	33.599	20039.337	55.414
10472.14829	0	35.404	20184.179	54.741
10472.1647	0	39.894	23361.451	53.667
10472.1811	0	26.402	24584.324	53.004
10472.19751	0	33.869	24966.845	52.935
10472.21391	0	43.961	25520.948	54.466
10472.23031	0	49.928	24513.457	57.817
10472.24672	0	48.228	21593.077	61.331
10472.26312	0	41.218	20764.599	63.734
10472.27953	0	46.856	20911.381	64.274
10472.29593	0	44.020	20951.256	65.430
10472.31234	0	67.569	21389.452	65.523
10472.32874	0	41.078	21805.490	65.799
10472.34514	0	41.910	21834.940	66.975
10472.36155	0	46.798	21778.939	66.808
10472.37795	0	380.784	21726.840	65.544
10472.39436	0	53.608	21521.462	65.056
10472.41076	0	37.608	21230.773	65.012
10472.42717	0	38.182	20861.317	61.673
10472.44357	0	39.612	19217.707	58.392
10472.45997	0	34.842	19060.501	58.535
10472.47638	0	34.572	19375.825	58.966
10473.16535	0	562.388	19979.619	59.097
10473.18176	0	42.836	20482.418	62.146
10473.19816	0	40.128	21886.267	64.878
10473.21457	0	44.160	22001.636	64.235
10473.23097	0	97.084	22004.020	60.116
10473.24738	0	43.668	21462.632	55.338
10473.26378	0	27.539	21155.044	50.955
10473.28018	0	23.952	21312.812	49.668
10473.29659	0	31.923	21418.014	47.333
10473.31299	0	30.798	21145.742	46.351
10473.3294	0	31.607	21439.330	46.013

10473.3458	0	30.563	23058.374	45.053
10473.3622	0	25.265	24371.116	42.535
10473.37861	0	21.807	24726.478	36.996
10473.39501	0	22.452	24431.745	33.283
10473.41142	0	18.045	22872.349	29.641
10473.42782	0	15.806	20137.597	25.719
10473.44423	0	19.334	17216.352	22.300
10473.46063	0	21.198	14750.365	21.983
10473.47703	0	21.163	12637.006	22.228
10473.49344	0	18.302	11557.714	22.322
10473.50984	0	19.686	10972.245	23.810
10473.52625	0	20.225	11486.894	26.295
10473.54265	0	24.198	12918.066	29.972
10473.55906	0	26.015	14725.006	34.125
10473.57546	0	26.308	16501.864	37.551
10473.59186	0	26.484	17851.699	40.673
10473.60827	0	31.993	18399.958	42.411
10473.62467	0	31.911	18330.938	43.020
10473.64108	0	34.736	18022.625	42.913
10473.65748	0	33.388	17724.877	43.136
10473.67388	0	34.490	17532.751	42.068
10473.69029	0	31.736	17257.745	41.273
10473.70669	0	31.302	16987.764	40.922
10473.7231	0	36.987	16896.890	40.046
10473.7395	0	36.530	16533.137	40.568
10473.75591	0	35.311	16023.840	39.904
10473.77231	0	34.490	15925.931	39.398
10473.78871	0	37.174	15962.533	39.180
10473.80512	0	27.809	15881.756	38.934
10473.82152	0	29.755	16968.061	37.919
10473.83793	0	31.571	17695.824	38.713
10473.85433	0	25.218	17639.239	39.031
10473.87073	0	28.817	17604.249	40.594
10473.88714	0	36.412	17314.962	41.147
10473.90354	0	38.944	15086.118	38.901
10473.91995	0	38.218	11637.813	32.377
10473.93635	0	28.313	12613.049	33.301
10473.95276	0	23.261	13010.740	33.626
10474	0	28.020	13384.614	34.767
10474.0164	0	31.782	14665.334	37.630
10474.03281	0	37.714	17459.056	44.260
10474.04921	0	43.610	16480.898	43.672
10474.06562	0	31.032	16267.223	41.878
10474.08202	0	27.692	16309.972	41.185
10474.09843	0	27.715	16646.402	41.614
10474.11483	0	30.669	17045.986	41.041
10474.13123	0	30.774	17182.134	41.522
10474.14764	0	29.063	16946.698	42.637
10474.16404	0	29.239	16611.039	44.084
10474.18045	0	27.492	16246.304	44.680
10474.19685	0	35.135	16135.773	46.468
10474.21325	0	36.881	16291.180	48.212

10474.22966	0	41.687	16537.835	49.050
10474.24606	0	36.987	16977.410	47.985
10474.26247	0	34.631	17303.556	49.357
10474.27887	0	39.859	17483.060	49.621
10474.29528	0	35.990	17243.815	49.060
10474.31168	0	38.030	16842.712	47.257
10474.32808	0	44.020	16320.280	46.343
10474.34449	0	193.882	15761.152	42.825
10474.36089	0	194.245	15807.056	43.002
10474.3773	0	137.207	17588.683	45.601
10474.4101	0	42.086	19177.179	49.953
10474.42651	0	51.780	20171.955	52.019
10474.44291	0	62.997	22144.866	55.194
10474.45932	0	64.627	23407.683	54.428
10474.47572	0	34.947	21466.022	50.210
10474.49213	0	26.297	19918.054	46.275
10474.50853	0	23.823	19462.866	45.150
10474.52493	0	27.715	18195.865	44.086
10474.54134	0	36.166	16905.865	43.677
10474.55774	0	34.221	17250.453	44.499
10474.57415	0	37.632	17291.169	44.700
10474.59055	0	35.569	16980.355	44.718
10474.60696	0	31.806	16535.989	44.653
10474.62336	0	29.227	16217.041	43.180
10474.63976	0	31.337	15944.419	41.140
10474.65617	0	30.892	16332.200	39.056
10474.67257	0	29.309	16981.711	37.135
10474.68898	0	23.741	17628.838	35.965
10474.70538	0	26.906	18135.516	36.983
10474.72178	0	27.574	18188.292	37.105
10474.73819	0	26.871	18633.267	38.733
10474.75459	0	40.738	20923.395	39.561
10474.771	0	26.074	22553.191	39.790
10474.7874	0	22.546	21219.554	36.713
10474.80381	0	28.641	21688.532	37.680
10474.82021	0	31.993	21536.842	37.220
10474.88583	0	59.657	18959.179	38.148
10474.90223	0	73.980	17102.993	39.377
10474.91864	0	74.309	18563.171	43.433
10474.93504	0	35.041	18947.867	44.654
10474.95144	0	34.092	19152.660	47.661
10474.96785	0	36.952	19562.926	47.649
10474.98425	0	42.719	20006.615	46.492
10475.00066	0	70.651	20273.604	44.957
10475.01706	0	86.054	20157.931	44.053
10475.03346	0	70.874	20297.818	42.072
10475.04987	0	69.421	20552.700	44.311
10475.06627	0	82.819	20218.023	45.767
10475.08268	0	47.572	18763.267	45.845
10475.09908	0	34.666	16789.725	41.775
10475.11549	0	28.242	14776.309	37.772
10475.13189	0	57.101	13069.359	32.494

10475.14829	1	76.512	12020.218	27.601
10475.1647	1	68.483	12218.864	25.883
10475.1811	0	56.984	13438.722	27.309
10475.19751	0	122.203	15381.038	29.616
10475.21391	0	82.420	16730.405	29.200
10475.23031	0	41.007	17193.353	32.034
10475.24672	0	63.712	17505.943	31.442
10475.26312	0	306.035	18435.087	32.919
10475.27953	0	90.543	18042.679	33.512
10475.29593	0	29.239	17779.289	35.581
10475.37795	0	30.692	18078.954	34.992
10475.39436	0	42.602	18853.113	35.823
10475.41076	0	32.005	18851.173	36.677
10475.42717	0	22.077	19133.424	37.091
10475.44357	0	24.527	19355.935	37.607
10475.45997	0	28.629	19679.043	37.903
10475.47638	0	26.766	19268.240	38.218
10475.49278	0	25.359	18853.907	36.962
10475.50919	0	23.261	18541.294	36.571
10475.52559	0	29.860	18195.117	35.961
10475.54199	0	31.888	17558.368	34.814
10475.5584	0	26.683	16867.604	33.951
10475.5748	0	30.552	16077.131	32.504
10475.59121	0	42.813	15521.532	30.944
10475.60761	0	23.894	14867.908	30.193
10475.62402	0	23.261	13862.240	28.106
10475.64042	0	37.456	13427.199	26.265
10475.65682	0	30.024	13210.719	26.615
10475.67323	0	34.877	13435.964	26.786
10475.68963	0	26.355	13923.828	26.255
10475.72244	0	29.766	15057.696	28.772
10475.73885	0	27.797	15962.019	31.518
10475.75525	0	31.396	16787.832	33.480
10475.77165	0	37.667	16953.850	33.880
10475.78806	0	24.960	17053.956	34.292
10475.80446	0	32.873	17097.477	34.784
10475.82087	0	29.251	16849.864	33.726
10475.83727	0	26.613	16419.194	31.819
10475.85367	0	27.445	15942.736	31.135
10475.87008	0	26.953	15295.796	31.054
10475.88648	0	30.071	15184.144	29.427
10475.90289	0	24.667	15601.421	31.017
10475.91929	0	27.645	15880.073	32.615
10475.9357	0	29.356	16357.700	33.164
10475.9521	0	42.121	17255.595	34.680
10475.9685	0	52.987	17552.969	35.636
10475.98491	0	49.763	17273.873	34.969
10476.00131	0	47.888	17378.770	34.143
10476.01772	0	32.603	17625.402	34.945
10476.03412	0	31.009	17742.734	34.770
10476.05052	0	25.031	17955.615	36.419
10476.06693	0	29.204	18391.614	36.847

10476.08333	0	33.318	18853.580	37.534
10476.09974	0	34.174	19169.255	38.090
10476.11614	0	32.368	19153.081	37.067
10476.13255	0	30.364	19143.568	35.686
10476.14895	0	42.238	19682.619	36.761
10476.16535	0	45.544	20031.834	37.275
10476.18176	0	48.263	19720.460	36.873
10476.19816	0	46.224	20049.340	37.161
10476.21457	0	40.878	21781.019	37.201
10476.24738	0	20.154	23096.425	35.867
10476.26378	0	20.260	23767.463	34.828
10476.28018	0	21.163	24501.747	33.706
10476.29659	0	21.526	24582.524	33.814
10476.31299	0	21.139	23534.621	34.080
10476.3294	0	19.486	22296.907	34.383
10476.3458	0	21.186	21683.273	34.169
10476.3622	0	22.311	21913.006	34.631
10476.37861	0	20.471	22333.345	34.945
10476.39501	0	23.355	21993.736	35.470
10476.41142	0	30.563	21646.437	35.179
10476.42782	0	32.896	21780.294	36.973
10476.44423	0	32.720	21729.388	39.160
10476.46063	0	33.001	21610.490	40.052
10476.47703	0	31.314	21404.317	39.520
10476.49344	0	28.817	21351.354	39.230
10476.50984	0	26.566	20826.795	37.388
10476.52625	0	28.242	19864.764	34.388
10476.54265	0	26.156	19425.446	32.826
10476.55906	0	24.339	19838.446	33.725
10476.57546	0	30.259	19966.062	33.778
10476.59186	0	26.930	20214.423	34.390
10476.60827	0	24.996	20958.431	34.792
10476.62467	0	26.906	20277.390	34.335
10476.64108	0	28.371	20992.299	34.946
10476.65748	0	25.769	21882.574	36.074
10476.69029	0	30.786	22140.822	36.909
10476.70669	0	31.314	22539.448	38.824
10476.7231	0	31.513	24102.303	40.538
10476.7395	0	31.794	22735.453	37.835
10476.75591	0	28.266	20538.723	34.055
10476.77231	0	22.487	18358.868	29.617
10476.78871	0	18.830	15975.061	24.919
10476.80512	0	15.958	13890.194	21.519
10476.82152	0	24.398	12812.584	19.672
10476.83793	0	31.067	12936.017	20.048
10476.85433	0	21.291	12244.785	19.623
10476.87073	0	21.174	13987.589	22.813
10476.88714	0	18.689	14582.010	23.627
10476.93635	0	35.275	15846.603	25.101
10476.95276	0	24.023	16839.977	26.872
10476.96916	0	27.363	16889.925	27.091
10476.98556	0	24.949	14889.832	22.725

10477.00197	0	15.513	13841.905	20.521
10477.01	0	12.571	12101.322	17.821
10477.0164	0	19.897	9880.471	14.062
10477.03281	0	11.574	9848.052	13.486
10477.04921	0	10.636	9722.259	13.416
10477.06562	0	9.347	9864.273	13.838
10477.08202	0	6.686	10116.608	13.960
10477.09843	0	18.209	9668.104	13.431
10477.11483	0	18.209	8759.411	12.389
10477.13123	0	17.494	7367.177	11.639
10477.14764	0	9.312	5613.037	9.976
10477.16404	0	8.925	4122.942	8.448
10477.18045	0	15.138	3603.431	8.598
10477.19685	0	14.868	3477.708	7.861
10477.21325	0	9.359	3288.457	7.590
10477.22966	0	12.711	2882.843	7.315
10477.24606	0	9.054	2626.115	7.661
10477.26247	0	10.215	2532.576	7.363
10477.36089	0	1.177	2454.464	7.898
10477.3773	0	0.000	2446.891	7.888
10477.3937	1	0.603	2552.046	7.907
10477.4101	0	1.951	2483.890	7.609
10477.42651	0	5.526	2497.867	7.503
10477.44291	0	3.885	2676.787	7.125
10477.45932	0	6.405	2916.500	7.170
10477.47572	0	8.937	3049.516	7.386
10477.49213	0	12.993	3259.358	7.418
10477.50853	0	16.755	3315.056	7.516
10477.52493	0	27.516	3161.192	7.239
10477.54134	0	128.451	2955.673	7.178
10477.55774	0	105.512	2908.507	6.985
10477.57415	0	16.157	2736.715	6.645
10477.59055	0	21.760	2542.884	6.175
10477.60696	0	32.837	2480.875	6.268
10477.62336	0	29.602	2402.248	6.356
10477.63976	0	11.129	2435.508	6.515
10477.65617	0	9.968	2626.208	6.948
10477.67257	0	12.102	3017.097	7.565
10477.68898	0	13.098	3376.153	8.004
10477.70538	0	5.702	3861.118	8.328
10477.72178	0	10.636	4155.080	8.299
10477.73819	0	7.425	4280.242	7.760
10477.75459	0	0.000	4741.156	7.708
10477.771	0	2.431	6319.929	8.896
10477.7874	0	8.527	8731.246	10.030
10477.80381	0	4.811	11513.141	12.069
10477.82021	0	12.817	14548.633	14.554
10477.83661	0	16.263	17246.760	16.581
10477.85302	0	18.220	18874.779	17.550
10477.86942	0	20.717	19714.242	17.856
10477.88583	0	125.802	20431.511	17.876
10477.90223	0	21.796	21106.616	18.377

10477.91864	0	23.519	21734.320	18.063
10477.93504	0	25.476	21287.569	17.517
10477.95144	0	23.753	18061.354	15.492
10477.96785	0	21.174	22655.845	17.484
10477.98425	0	14.516	26622.936	18.274
10478.06627	1	27.422	27908.285	18.785
10478.08268	1	20.178	28628.475	18.831
10478.09908	1	24.058	31418.645	21.281
10478.11549	0	18.537	26845.633	19.851
10478.13189	0	19.803	22440.370	19.502
10478.14829	0	19.381	19977.422	20.522
10478.1647	0	18.396	19537.543	21.066
10478.1811	0	18.056	19048.347	20.892
10478.19751	0	18.045	17383.725	19.898
10478.21391	1	119.836	15987.612	18.557
10478.23031	0	20.424	15200.154	16.534
10478.24672	0	19.580	13750.096	16.314
10478.26312	0	22.241	13487.735	16.705
10478.27953	0	21.280	13645.292	17.488
10478.29593	0	18.654	13509.752	17.218
10478.31234	0	19.627	14382.498	18.157
10478.32874	0	17.083	15341.233	18.273
10478.34514	0	16.802	14884.432	17.332
10478.36155	0	12.008	14164.148	15.856
10478.37795	0	14.212	13834.730	16.073
10478.39436	0	0.000	12542.369	14.855
10478.41076	0	6.815	10863.747	13.626
10478.42717	0	13.157	9930.045	12.917
10478.44357	0	8.175	9966.740	12.969
10478.45997	0	7.718	10718.438	13.665
10478.47638	0	11.340	11376.153	14.505
10478.49278	0	17.963	12455.889	15.379
10478.50919	0	16.333	13926.773	17.116
10478.52559	0	18.162	14821.396	17.897
10478.54199	0	23.061	14933.703	17.361
10478.5584	0	20.354	15149.786	18.046
10478.5748	0	19.779	15347.100	19.171
10478.59121	0	20.729	14488.167	17.610
10478.60761	0	19.744	12979.257	17.029
10478.62402	0	20.307	11888.464	16.160
10478.64042	0	15.442	11597.588	15.518
10478.65682	0	4.951	11926.352	15.565
10478.67323	0	11.586	13138.894	17.379
10478.68963	0	17.752	15110.589	19.588
10478.70604	0	19.568	16402.435	21.808
10478.72244	0	19.205	16810.340	22.547
10478.73885	0	20.166	16700.113	23.100
10478.75525	0	24.046	17339.761	23.526
10478.77165	0	23.882	18346.784	24.246
10478.78806	0	24.855	19328.635	25.278
10478.80446	0	23.577	20158.141	26.487
10478.82087	0	26.730	21010.553	27.123

10478.83727	0	27.434	20891.725	27.568
10478.85367	0	30.681	19966.203	27.113
10478.87008	0	24.105	19395.225	26.281
10478.88648	0	27.059	19548.785	26.303
10478.90289	0	28.887	19407.449	26.395
10478.91929	0	31.407	19054.658	26.217
10478.9357	0	28.465	18717.947	25.550
10478.9521	0	25.101	17435.403	24.250
10478.9685	0	24.738	17168.788	22.992
10478.98491	0	17.669	18048.756	22.384
10479.00131	0	21.362	17678.271	21.489
10479.01772	0	19.768	16838.902	20.660
10479.03412	0	22.663	15082.144	18.430
10479.05052	0	20.705	15314.892	19.205
10479.06693	0	15.829	14803.819	20.439
10479.13255	0	24.574	15762.858	21.608
10479.14895	0	24.445	17803.971	22.949
10479.16535	0	22.464	21716.439	27.309
10479.18176	0	22.124	20696.607	26.857
10479.19816	0	24.574	20560.857	25.653
10479.21457	0	22.909	20437.682	25.249
10479.24738	0	21.561	19589.875	25.692
10479.26378	0	25.617	18371.069	25.148
10479.28018	0	20.354	18850.729	25.444
10479.29659	0	18.924	18496.956	25.952
10479.31299	0	22.933	18465.075	27.791
10479.3294	0	26.203	18968.949	28.472
10479.3458	0	31.278	19612.663	29.255
10479.3622	0	31.349	19769.379	30.450
10479.37861	0	28.442	19732.450	30.119
10479.39501	0	23.542	20006.778	29.462
10479.41142	0	25.851	19422.057	28.250
10479.42782	0	28.875	19266.043	27.906
10479.44423	0	26.941	19263.939	27.566
10479.47703	0	24.116	19392.607	28.572
10479.49344	0	24.726	19025.231	28.601
10479.50984	0	27.457	19216.211	29.383
10479.52625	0	26.133	18905.819	29.123
10479.54265	0	24.984	18779.979	30.558
10479.55906	0	25.828	19036.567	32.557
10479.59186	0	26.133	19356.847	33.825
10479.60827	0	27.621	19369.351	35.165
10479.62467	0	25.066	19596.022	35.724
10479.64108	0	28.641	20332.410	35.285
10479.65748	0	30.048	21032.594	33.609
10479.67388	0	30.048	21490.844	33.913
10479.69029	0	28.782	22194.112	33.377
10479.70669	0	32.169	23176.758	35.291
10479.7231	0	33.084	24632.682	34.730
10479.7395	0	31.478	26262.081	34.206
10479.75591	0	22.909	28728.348	33.309
10479.77231	0	24.574	31139.221	34.185

10479.78871	0	28.465	36069.745	32.663
10479.80512	0	26.590	39869.953	27.210
10479.82152	0	21.116	35691.080	24.702
10479.83793	0	0.000	30519.183	21.294
10479.87073	0	20.178	25019.411	15.757
10479.88714	0	23.706	21045.402	18.202
10479.90354	0	22.686	17214.599	26.843
10480.4	0	36.366	20468.815	32.062
10480.4164	0	37.163	23250.920	36.345
10480.43281	0	31.747	25646.414	40.355
10480.44921	0	30.786	23024.974	36.789
10480.46562	0	22.288	20272.973	33.082
10480.48202	0	24.878	18193.995	30.535
10480.49843	0	24.609	17345.955	29.878
10480.51483	0	30.610	17523.426	30.676
10480.53123	0	26.379	17395.248	31.098
10480.54764	0	26.953	16844.441	30.169
10480.56404	0	23.765	15359.277	27.004
10480.69528	0	31.114	12904.042	23.171
10480.71168	0	20.307	10431.418	18.798
10480.72808	0	20.213	9717.795	17.266
10480.74449	0	22.370	9898.071	16.210
10480.76089	0	24.433	10469.118	17.560
10480.7773	0	22.979	11791.724	18.652
10480.7937	0	27.059	13071.252	21.167
10480.8101	0	25.207	13168.671	21.065
10480.82651	0	26.508	12911.826	21.390
10480.84291	0	26.004	12734.775	21.535
10480.85932	0	27.879	11636.083	20.672
10480.87572	0	27.914	10754.175	19.365
10480.89213	0	26.648	10844.278	19.893
10480.90853	0	26.590	11218.572	20.591
10480.92493	0	28.922	12240.297	21.540
10480.94134	0	31.818	13783.099	23.373
10480.97415	0	36.073	14516.612	24.222
10480.99055	0	32.286	14629.667	24.073
10481.00696	0	26.766	16366.278	26.217
10481.02336	0	26.742	16782.550	26.928
10481.05617	0	30.411	17532.728	27.439
10481.07257	0	25.945	18367.914	27.926
10481.08898	0	28.735	18866.646	28.831
10481.10538	0	30.833	16983.043	26.000
10481.12178	0	26.566	16102.958	24.766
10481.13819	0	27.469	15621.031	25.212
10481.15459	0	28.817	15799.974	25.854
10481.171	0	24.574	16394.512	26.590
10481.1874	0	25.511	17454.756	28.907
10481.20381	0	31.290	18348.000	29.932
10481.22021	0	34.150	19117.461	30.407
10481.23661	0	37.456	19727.308	31.059
10481.25302	0	40.351	19744.323	31.199
10481.26942	0	32.181	19496.243	30.735

10481.28583	0	27.141	18679.241	29.896
10481.30223	0	24.081	16372.635	26.487
10481.31864	0	24.081	13789.643	23.729
10481.33504	0	14.903	12511.938	22.755
10481.35144	0	22.440	11938.856	21.223
10481.36785	0	24.972	11065.222	19.579
10481.38425	0	20.717	11401.676	20.169
10481.48268	0	25.968	12088.537	19.730
10481.49908	0	21.983	11034.393	16.839
10481.51549	0	35.733	9256.974	14.575
10481.53189	0	24.187	7974.337	13.188
10481.61391	0	22.921	6373.500	11.329
10481.63031	0	16.708	4802.534	9.890
10481.64672	0	19.979	4148.582	9.294
10481.66312	0	18.185	3694.492	8.761
10481.67953	0	20.401	3545.793	8.021
10481.69593	0	16.837	3603.034	7.991
10481.71234	0	17.810	3683.367	8.270
10481.72874	0	16.181	4132.081	8.734
10481.74514	0	21.538	4904.884	9.373
10481.76155	0	27.141	5922.332	10.670
10481.77795	0	22.956	7165.843	11.490
10481.79436	0	28.102	8634.038	13.434
10481.81076	0	23.003	10250.348	15.684
10481.82717	0	25.218	11766.574	17.938
10481.84357	0	23.566	13044.864	20.546
10481.85997	0	25.418	13758.160	22.534
10481.87638	0	22.733	14128.645	22.650
10481.89278	0	25.148	14370.602	23.098
10481.92559	0	27.270	14435.765	23.339
10481.94199	0	25.007	14576.073	23.315
10481.9584	0	26.097	14769.017	23.664
10481.9748	0	20.248	14846.054	24.682
10481.99121	0	21.620	14266.849	23.775
10482.00761	0	23.483	12982.015	21.848
10482.02402	0	19.322	11362.105	19.742
10482.04042	0	34.443	9964.333	17.620
10482.05682	0	35.908	8320.607	14.351
10482.07323	0	24.198	6652.736	12.452
10482.08963	0	16.450	5672.849	12.063
10482.10604	0	18.244	4905.889	10.481
10482.12244	0	17.013	4027.229	9.426
10482.13885	0	13.473	3426.895	9.540
10482.15525	0	13.039	3197.560	9.415
10482.17165	0	14.645	2659.000	7.819
10482.18806	0	13.286	2144.468	7.872
10482.20446	0	18.033	1858.921	7.315
10482.22087	0	21.608	1707.558	6.805
10482.23727	0	19.533	1677.196	6.355
10482.25367	0	23.390	2029.029	6.947
10482.27008	0	23.566	2317.989	6.880
10482.28648	0	22.428	2432.774	7.556

10482.30289	0	22.546	4106.791	9.303
10482.31929	0	21.057	5102.853	10.726
10482.38491	0	19.381	5140.717	10.540
10482.40131	0	24.679	5040.353	10.187
10482.41772	0	24.421	4993.210	9.866
10482.43412	0	23.519	3444.378	8.548
10482.45052	0	29.098	2543.421	7.242
10482.46693	0	27.176	2910.119	8.539
10482.48333	0	19.944	4071.217	9.811
10482.49974	0	25.078	5140.880	10.981
10482.51614	0	16.966	6610.127	13.274
10482.53255	0	19.451	7345.698	14.319
10482.54895	0	24.492	8413.841	14.545
10482.59816	0	23.097	9681.473	17.214
10482.61457	0	29.708	10720.611	19.014
10482.63097	0	23.905	10346.527	17.284
10482.64738	0	22.030	10457.689	16.631
10482.66378	0	16.439	9389.756	15.730
10482.68018	0	17.939	6563.943	11.569
10482.69659	0	13.930	7696.432	13.441
10482.71299	0	15.595	10468.838	18.254
10483	0	24.257	13332.585	23.817
10483.0164	0	29.110	15314.635	26.614
10483.03281	0	27.692	17120.453	29.722
10483.04921	0	22.264	15059.028	27.303
10483.06562	0	27.023	12854.141	24.078
10483.08202	0	33.693	11741.729	23.492
10483.09843	0	26.344	12321.752	26.480
10483.11483	0	27.621	13897.066	29.740
10483.13123	0	27.504	15632.904	32.408
10483.14764	0	29.344	16456.333	35.094
10483.16404	0	33.986	16364.501	35.072
10483.18045	0	28.137	15902.418	34.471
10483.19685	0	25.640	15363.788	32.854
10483.21325	0	30.118	15032.220	32.364
10483.22966	0	32.873	14856.899	30.760
10483.24606	0	25.136	14326.076	29.188
10483.26247	0	27.129	13666.141	27.219
10483.27887	0	28.817	13203.099	25.848
10483.29528	0	28.301	12892.636	25.071
10483.31168	0	25.253	12642.873	25.879
10483.32808	0	23.483	14479.940	28.331
10483.34449	0	23.765	16639.227	32.260
10483.3937	0	47.454	18191.705	36.151
10483.4101	0	30.083	18727.857	37.241
10483.42651	0	29.356	19174.280	37.100
10483.44291	0	23.952	17944.139	35.456
10483.45932	0	27.949	16437.775	32.329
10483.47572	0	25.863	15447.019	29.794
10483.49213	0	31.431	15617.572	29.817
10483.50853	0	39.530	16194.299	31.638
10483.52493	0	33.177	16698.127	32.424

10483.54134	0	31.243	16860.171	33.658
10483.55774	0	28.582	17067.770	35.393
10483.57415	0	30.763	16908.179	36.164
10483.59055	0	29.508	16339.773	34.769
10483.60696	0	35.358	15896.341	35.257
10483.62336	0	34.607	15542.077	34.217
10483.65617	0	30.048	15075.904	32.136
10483.67257	0	32.052	15147.378	30.997
10483.68898	0	29.192	16329.512	31.274
10483.70538	0	32.462	17225.654	30.427
10483.72178	0	26.261	17723.054	30.654
10483.73819	0	28.559	17971.719	30.779
10483.75459	0	27.844	17562.645	31.227
10483.771	0	25.195	16287.885	31.091
10483.7874	0	39.894	15105.213	30.674
10483.80381	0	42.426	16545.899	30.233
10483.82021	0	28.489	20000.117	30.874
10483.83661	0	21.221	22545.782	31.728
10483.85302	0	116.987	25129.334	33.264
10483.86942	0	27.516	25669.366	33.256
10483.88583	0	35.393	24564.644	35.770
10483.90223	0	27.727	21870.327	37.285
10484.00066	0	30.212	20791.455	38.666
10484.01706	0	29.954	19445.640	39.689
10484.03346	0	40.574	19918.125	42.230
10484.04987	0	42.824	19970.901	42.601
10484.06627	0	33.763	20137.526	43.139
10484.08268	0	33.576	19991.890	42.343
10484.09908	0	34.490	19716.136	41.595
10484.11549	0	28.090	19492.036	41.757
10484.13189	0	31.923	19379.027	40.946
10484.14829	0	36.623	19706.599	41.653
10484.1647	0	320.628	20158.562	42.889
10484.1811	0	38.897	20338.020	44.452
10484.21391	0	34.818	20416.529	43.797
10484.23031	0	37.385	20423.705	43.738
10484.24672	0	36.694	19872.033	41.901
10484.26312	0	28.336	18915.916	40.819
10484.27953	0	32.626	18461.102	38.132
10484.29593	0	33.072	18266.195	36.150
10484.31234	0	36.999	18398.602	34.929
10484.32874	0	32.216	18729.376	35.552
10484.34514	0	33.189	18881.160	34.378
10484.36155	0	26.308	19751.826	34.262
10484.37795	0	25.394	19663.967	33.586
10484.39436	0	22.522	18567.308	32.107
10484.41076	0	25.218	17573.350	30.720
10484.42717	0	26.719	16833.129	29.920
10484.44357	0	25.171	15996.517	29.334
10484.45997	0	25.171	16124.952	30.747
10484.47638	0	22.804	16472.134	32.042
10484.49278	0	26.906	16467.319	31.805

10484.50919	0	28.090	16185.768	30.571
10484.52559	0	31.067	15317.767	30.282
10484.54199	0	32.568	14737.206	28.725
10484.5584	0	24.527	15672.218	28.964
10484.5748	0	29.438	16096.343	29.427
10484.59121	0	25.394	16681.836	31.246
10484.60761	0	30.200	17182.251	32.437
10484.62402	0	47.958	17233.788	34.455
10484.64042	0	38.909	16672.159	34.488
10484.65682	0	32.111	16561.208	34.415
10484.77165	0	29.075	16758.429	35.001
10484.78806	0	38.897	17531.536	34.956
10484.80446	0	27.047	18137.129	34.591
10484.82087	0	26.168	17896.388	35.356
10484.83727	0	34.607	17755.776	35.008
10484.85367	0	29.508	17195.737	34.458
10484.87008	0	41.863	16004.675	34.435
10484.88648	0	27.000	15054.564	33.877
10484.90289	0	30.950	14722.738	32.676
10484.91929	0	35.862	14574.273	32.964
10484.9357	0	36.635	14610.618	33.632
10484.9521	0	41.218	14781.288	34.099
10484.9685	0	29.297	14910.517	37.158
10484.98491	0	29.051	15640.875	40.938
10485.00131	0	32.896	16183.291	44.018
10485.01772	0	35.252	15919.106	44.372
10485.03412	0	30.868	15817.761	43.397
10485.05052	0	32.755	15628.580	39.499
10485.06693	0	31.853	14293.167	34.594
10485.08333	0	30.493	13002.700	30.863
10485.09974	0	47.232	13111.337	31.160
10485.11614	0	41.816	13766.504	34.525
10485.13255	0	23.917	14685.809	36.952
10485.14895	0	32.908	16106.861	40.751
10485.16535	0	31.536	18093.515	44.445
10485.18176	0	35.498	19389.405	46.476
10485.19816	0	33.716	19776.111	46.556
10485.21457	0	33.447	20206.009	48.855
10485.23097	0	36.635	20402.459	49.648
10485.24738	0	39.261	19772.067	48.698
10485.26378	0	33.646	19112.856	46.886
10485.28018	0	34.982	18690.811	45.213
10485.29659	0	31.806	18336.407	42.853
10485.31299	0	38.323	18056.259	41.825
10485.3294	0	38.569	17689.771	40.732
10485.3458	0	38.663	17342.940	39.287
10485.3622	0	32.908	17075.179	37.632
10485.39501	0	32.193	17297.222	37.423
10485.41142	0	28.067	17706.880	35.577
10485.42782	0	27.457	17702.229	35.436
10485.44423	0	23.765	17784.127	35.079
10485.46063	0	28.500	18382.405	35.646

10485.47703	0	29.333	19013.288	35.373
10485.49344	0	29.977	19063.563	35.389
10485.50984	0	29.661	18921.712	34.404
10485.52625	0	35.381	18634.763	34.394
10485.54265	0	36.612	18360.925	33.788
10485.55906	0	34.900	17714.803	33.596
10485.57546	0	23.448	16190.653	31.298
10485.59186	0	29.895	15673.246	30.178
10485.60827	0	44.078	15967.582	29.282
10485.62467	0	30.610	15470.229	28.404
10485.64108	0	24.703	14181.561	26.847
10485.65748	0	27.176	12576.213	24.852
10485.67388	0	26.848	11188.935	22.786
10485.69029	0	20.143	10879.314	23.175
10485.70669	0	24.867	10741.273	25.324
10485.7231	0	30.446	11067.653	25.327
10485.7395	0	32.251	13662.331	29.116
10485.75591	0	35.686	15945.868	32.434
10485.77231	0	27.692	16429.197	33.735
10485.78871	0	32.181	16983.440	34.275
10485.80512	0	40.949	17737.218	36.280
10485.82152	0	318.917	17819.841	38.548
10485.83793	0	53.010	17811.006	40.152
10485.85433	0	41.922	17942.316	41.475
10485.87073	0	43.434	17860.066	40.382
10485.88714	0	46.903	17629.001	39.522
10485.90354	0	38.370	17589.431	38.983
10485.91995	0	29.239	17448.609	38.895
10485.93635	0	34.443	17242.272	37.406
10485.95276	0	32.333	15133.845	33.799
10485.96916	0	32.579	15293.249	35.865
10486	0	34.994	15733.034	37.824
10486.0164	0	379.600	15886.758	39.195
10486.03281	0	380.713	16245.089	38.614
10486.04921	0	420.344	19168.624	42.174
10486.06562	0	57.992	18954.014	39.753
10486.08202	0	31.888	18300.857	35.826
10486.09843	0	37.620	18380.792	33.492
10486.11483	0	156.325	18418.960	33.193
10486.13123	0	38.698	19333.240	33.928
10486.14764	0	47.513	22340.544	35.050
10486.16404	0	31.302	24019.774	35.196
10486.18045	0	32.134	24791.852	34.348
10486.19685	0	33.377	24777.010	34.107
10486.21325	0	25.910	23028.129	32.647
10486.22966	0	28.442	19836.740	31.174
10486.24606	0	27.985	16794.376	28.570
10486.26247	0	30.165	12930.828	24.334
10486.27887	0	26.648	9476.937	20.163
10486.29528	0	24.515	6611.436	15.410
10486.31168	0	24.808	3966.647	10.757
10486.32808	0	22.358	2658.883	8.745

10486.34449	0	22.557	2767.942	8.679
10486.36089	0	32.790	2946.932	7.924
10486.3773	0	31.653	2888.710	8.036
10486.3937	0	31.900	2934.521	7.959
10486.4101	0	35.615	2834.181	7.891
10486.42651	0	28.993	2729.470	7.663
10486.44291	0	28.793	2693.382	8.413
10486.45932	0	24.726	2791.502	8.141
10486.47572	0	20.823	2463.135	7.617
10486.49213	0	21.549	3922.075	9.905
10486.50853	0	25.242	5445.851	12.001
10486.63976	0	27.152	6982.272	13.999
10486.65617	0	34.092	8966.168	16.462
10486.67257	0	22.346	11412.334	19.845
10486.68898	0	25.066	12423.401	21.102
10486.70538	0	22.839	13748.904	23.520
10486.72178	0	25.289	15303.112	26.251
10486.73819	0	27.457	16554.056	28.245
10486.75459	0	32.544	17585.785	30.261
10486.771	0	32.603	18175.110	30.470
10486.7874	0	30.341	18006.170	28.863
10486.80381	0	31.138	16769.157	25.773
10486.82021	0	26.801	15272.984	22.434
10486.83661	0	33.869	13595.648	19.827
10486.85302	0	14.305	11782.585	17.736
10486.86942	0	42.824	10551.158	16.470
10486.88583	0	44.418	10104.103	15.624
10486.90223	0	23.132	10028.632	16.848
10486.91864	0	32.087	9643.072	15.590
10486.93504	0	19.568	10046.419	16.922
10486.95144	0	16.591	11867.873	20.620
10486.98425	0	35.264	14176.302	25.992
10487.01706	0	28.981	15896.458	29.244
10487.03346	0	32.884	17026.330	32.257
10487.04987	0	32.732	16434.994	30.183
10487.06627	0	25.828	14576.143	26.101
10487.08268	0	20.870	12564.153	21.487
10487.09908	0	25.933	10412.579	17.077
10487.11549	0	23.366	8971.543	13.845
10487.13189	0	26.613	8523.390	13.861
10487.14829	0	31.325	7700.499	13.010
10487.1647	0	22.358	6658.790	11.114
10487.1811	0	21.397	6294.826	10.135
10487.19751	0	24.855	6216.036	9.580
10487.21391	0	22.839	5947.060	9.013
10487.23031	0	17.787	5457.420	8.391
10487.24672	0	24.456	4705.910	8.826
10487.26312	0	24.198	3633.699	8.387
10487.27953	0	19.393	2605.804	8.372
10487.29593	0	20.272	3435.123	9.570
10487.31234	0	17.400	6995.805	14.011
10487.32874	0	24.468	11411.189	19.404

10487.34514	0	33.869	16381.166	25.219
10487.36155	0	27.117	22055.604	32.482
10487.37795	0	23.542	25328.705	37.115
10487.39436	0	31.958	24706.214	36.851
10487.41076	0	33.752	22823.078	33.900
10487.42717	0	24.421	20211.455	31.404
10487.44357	0	25.382	17379.939	26.740
10487.45997	0	23.015	16154.822	24.817
10487.47638	0	20.096	16166.392	25.502
10487.49278	1	25.968	16471.853	26.445
10487.50919	1	27.211	16614.685	26.766
10487.52559	0	25.183	15635.055	26.227
10487.54199	0	25.687	13846.206	23.209
10487.5584	0	26.859	11368.907	19.264
10487.5748	0	51.041	8477.463	15.886
10487.59121	0	52.541	5875.656	12.614
10487.60761	0	19.850	4049.247	10.442
10487.62402	0	15.548	2380.231	9.785
10487.64042	0	12.641	1743.832	9.300
10487.65682	0	17.611	1712.723	8.871
10487.67323	0	26.320	1111.314	8.269
10487.68963	0	29.860	351.132	7.698
10487.70604	0	26.039	181.748	6.743
10487.72244	0	23.905	127.336	7.014
10487.75525	0	22.288	325.071	7.069
10487.77165	0	59.680	1096.659	7.574
10487.78806	0	52.600	1870.280	8.452
10487.80446	0	7.014	2129.065	9.430
10487.82087	0	9.171	2091.341	9.448
10487.83727	0	13.661	1885.870	9.807
10487.85367	0	6.663	1885.449	9.400
10487.87008	0	9.640	1927.170	8.993
10487.88648	0	14.974	1865.161	8.209
10487.90289	0	15.067	2026.762	7.583
10487.91929	0	19.639	2373.032	7.181
10487.9357	0	18.045	2606.014	7.592
10487.9521	0	21.526	2913.041	8.237
10487.9685	0	25.593	3251.037	8.968
10487.98491	0	19.205	3381.622	9.078
10488.00131	0	17.212	3331.300	9.104
10488.01772	0	14.634	3018.897	8.805
10488.03412	0	12.477	2134.652	7.376
10488.05052	0	21.116	4218.046	10.611
10488.06693	0	19.662	6650.960	14.818
10488.7231	0	29.778	9827.811	19.143
10488.7395	0	33.775	13160.140	24.151
10488.75591	0	33.611	16747.186	29.602
10488.77231	0	37.643	17010.646	29.700
10488.78871	0	32.017	16583.693	27.083
10488.80512	0	27.211	15812.198	26.767
10488.82152	0	24.421	14906.730	24.799
10488.83793	0	30.282	14758.032	24.318

10488.85433	0	28.512	15769.309	26.133
10488.87073	0	25.769	16941.813	29.145
10488.88714	0	27.223	17433.697	30.423
10488.90354	0	32.368	17548.528	31.711
10488.91	0	31.478	16850.425	30.578
10488.92	0	26.988	16174.105	29.507
10488.93	0	35.557	15676.144	29.132
10488.94	0	21.186	15949.982	28.718
10488.95	0	21.362	16717.409	29.897
10488.96	0	22.065	18118.267	32.102
10488.97	0	26.238	18416.693	32.803
10488.98	0	22.698	16091.435	29.612
10488.99	0	27.117	16737.323	31.530
10489	0	19.346	17256.366	32.553
10489.01	0	34.314	17729.902	34.062
10489.0164	0	36.319	18388.342	34.688
10489.03281	0	40.316	21439.447	39.368
10489.04921	0	32.767	20830.114	38.301
10489.06562	0	27.199	20033.400	36.923
10489.08202	0	30.212	18871.460	35.300
10489.09843	0	28.946	17784.338	33.801
10489.11483	0	26.074	16807.372	31.685
10489.13123	0	29.309	16818.287	31.500
10489.14764	0	24.703	16862.953	31.368
10489.16404	0	30.024	16696.187	30.691
10489.18045	0	30.352	16227.208	29.590
10489.19685	0	24.667	16556.019	30.316
10489.22966	0	31.302	16825.252	30.111
10489.24606	0	28.758	16665.334	30.148
10489.26247	0	34.138	16234.594	29.238
10489.27887	0	26.836	16638.082	30.264
10489.29528	0	27.234	17899.543	33.164
10489.31168	0	33.037	19360.119	35.398
10489.32808	0	29.438	21639.332	38.108
10489.34449	0	40.070	23648.962	41.292
10489.36089	0	37.198	24627.868	42.342
10489.3773	0	32.474	23487.992	38.747
10489.3937	0	27.410	21449.006	35.778
10489.4101	0	24.187	19827.554	33.746
10489.42651	0	25.054	19590.786	31.859
10489.44291	0	28.371	19661.396	31.578
10489.45932	0	30.094	19718.379	31.817
10489.47572	0	29.239	18675.315	29.958
10489.49213	0	25.406	15275.298	24.981
10489.50853	0	20.635	11278.126	19.887
10489.52493	0	30.575	7494.630	14.880
10489.54134	0	18.420	4341.713	11.263
10489.55774	0	17.025	2282.602	8.557
10489.57415	0	19.439	2135.493	7.354
10489.59055	0	15.595	2372.284	7.877
10489.60696	0	18.467	2792.156	7.904
10489.62336	0	13.754	3150.580	7.459

10489.63976	1	18.314	3430.588	7.591
10489.65617	1	11.984	3618.998	9.033
10489.67257	0	12.395	3595.952	9.402
10489.68898	0	16.345	3409.646	9.310
10489.70538	0	13.708	3381.762	10.337
10489.72178	0	16.544	3369.795	10.433
10489.73819	0	17.740	3320.525	9.514
10489.75459	0	24.749	3326.672	9.017
10489.771	0	19.311	7901.717	14.853
10489.7874	0	24.116	11427.620	18.959
10489.85302	0	26.683	15058.047	23.533
10489.86942	0	26.625	19246.059	28.684
10489.88583	0	26.215	23323.517	33.960
10489.90223	0	28.008	22017.763	32.655
10489.91864	0	30.223	19624.280	29.590
10489.93504	0	28.207	20726.735	31.358
10489.95144	0	20.623	21360.867	32.948
10490.00066	0	28.184	22148.395	34.248
10490.01706	0	26.496	23335.086	35.979
10490.03346	0	30.880	25848.123	39.351
10490.04987	0	28.067	25584.733	38.182
10490.06627	0	30.927	26066.777	38.325
10490.08268	0	29.626	26602.648	38.229
10490.09908	0	33.658	27050.988	39.104
10490.11549	0	33.916	27559.794	40.036
10490.13189	0	34.314	27903.376	41.846
10490.14829	0	40.550	28188.433	42.874
10490.1647	0	43.563	28133.997	43.874
10490.1811	0	39.202	28036.158	43.354
10490.19751	0	37.186	27621.732	42.658
10490.21391	0	36.166	24376.188	37.661
10490.23031	0	29.567	19154.203	30.583
10490.24672	0	24.386	13727.261	23.460
10490.26312	0	30.329	8824.341	16.769
10490.27953	0	35.592	4929.425	11.406
10490.31234	0	19.721	3277.075	9.315
10490.32874	0	18.338	2844.114	8.497
10490.34514	0	12.664	2877.187	8.386
10490.36155	0	13.532	2883.685	8.472
10490.37795	0	15.032	2952.798	8.783
10490.39436	0	13.754	3036.450	8.101
10490.41076	0	9.031	3226.215	8.386
10490.42717	0	9.664	3297.619	8.487
10490.44357	0	15.782	3432.972	8.873
10490.45997	0	15.524	3434.001	8.880
10490.47638	0	16.310	3450.198	9.489
10490.49278	0	16.193	3188.678	9.302
10490.50919	0	12.547	2847.854	8.862
10490.52559	0	19.779	2470.801	7.797
10490.54199	0	20.752	2129.252	7.261
10490.5584	0	28.207	1730.206	6.542
10490.5748	0	17.095	1641.903	6.582

10490.59121	0	21.831	1752.854	6.382
10490.60761	0	21.796	1835.945	6.788
10490.62402	0	24.761	3017.167	7.595
10490.64042	0	26.461	5390.059	10.375
10490.68963	0	14.458	8576.073	15.180
10490.70604	0	6.546	11972.584	21.499
10490.72244	0	25.277	14869.147	27.030
10490.73885	0	25.265	16417.534	30.453
10490.75525	0	37.960	17045.823	32.977
10490.78806	0	23.987	17374.259	33.795
10490.80446	0	27.785	17613.622	33.699
10490.82087	0	32.509	18346.527	34.683
10490.83727	0	35.029	19146.233	36.638
10490.85367	0	31.911	19608.316	37.257
10490.87008	0	28.664	19388.049	37.122
10490.88648	0	27.410	19013.077	36.621
10490.90289	0	27.563	18543.234	35.243
10490.91929	0	31.349	18049.901	34.801
10490.9357	0	30.130	18254.835	36.043
10490.9521	0	32.075	17301.920	34.427
10490.9685	0	36.366	17328.589	34.471
10491.03412	0	25.429	17926.983	35.840
10491.05052	0	27.985	18790.099	36.781
10491.06693	0	28.172	18827.706	37.277
10491.08333	0	26.121	20506.048	40.623
10491.09974	0	23.495	20999.825	42.574
10491.11614	0	28.031	20955.136	42.279
10491.13255	0	30.376	21061.623	42.783
10491.14895	0	25.957	21351.167	43.471
10491.16535	0	29.930	21234.723	42.826
10491.18176	0	31.325	21211.654	41.851
10491.19816	0	28.852	21143.989	41.747
10491.21457	0	30.845	20437.472	40.763
10491.23097	0	28.020	19735.558	38.113
10491.24738	0	23.214	19623.742	36.792
10491.26378	0	27.211	19637.719	37.064
10491.28018	0	25.253	19613.154	37.349
10491.29659	0	25.582	20196.356	38.459
10491.31299	0	26.390	21100.445	40.653
10491.3294	0	30.845	21296.708	43.605
10491.3458	0	35.604	20976.849	44.271
10491.3622	0	28.582	20325.492	44.186
10491.37861	0	32.755	19236.289	41.726
10491.39501	0	28.336	17864.834	38.779
10491.41142	0	28.700	17319.520	36.860
10491.42782	0	27.410	17111.010	35.480
10491.44423	0	33.670	16855.450	33.711
10491.46063	0	30.599	17768.748	34.347
10491.47703	0	24.937	18558.006	35.121
10491.49344	0	25.253	18180.299	33.853
10491.50984	0	26.648	20276.525	36.576
10491.52625	0	35.100	22490.949	40.179

10491.55906	0	41.875	22768.129	40.784
10491.57546	0	34.033	23030.186	40.894
10491.59186	0	28.887	23439.797	41.180
10491.60827	0	28.278	20584.791	36.448
10491.62467	0	28.793	18262.876	31.976
10491.64108	0	23.366	17283.362	30.506
10491.65748	0	22.487	16836.962	30.487
10491.67388	0	23.601	16888.476	29.904
10491.69029	0	25.980	18813.729	32.067
10491.70669	0	26.707	20104.547	34.284
10491.7231	0	28.629	20741.343	34.915
10491.7395	0	29.719	21905.503	36.253
10491.75591	0	30.153	23520.504	39.294
10491.77231	0	36.002	23959.425	41.230
10491.78871	0	44.922	24354.147	41.682
10491.80512	0	41.078	25779.429	44.016
10491.82152	0	33.810	27896.528	46.947
10491.83793	0	31.935	29257.208	47.651
10491.85433	0	39.835	29676.518	46.180
10491.87073	0	43.715	30081.875	46.302
10491.88714	0	33.869	29258.096	44.272
10491.90354	0	36.190	23798.432	36.402
10491.91995	0	32.814	21869.298	34.923
10491.93635	0	19.592	21705.174	36.062
10492	0	35.182	21830.336	38.528
10492.0164	0	48.837	22397.364	40.124
10492.03281	0	51.662	26740.782	45.863
10492.04921	0	40.714	28465.963	47.236
10492.06562	0	41.886	29209.200	46.996
10492.08202	0	47.372	29208.872	44.579
10492.09843	0	46.071	29851.348	44.355
10492.11483	0	36.553	29158.854	43.830
10492.13123	0	37.268	25850.320	39.337
10492.14764	0	37.702	22220.711	35.393
10492.16404	0	37.022	19605.278	32.360
10492.18045	0	47.771	16367.376	28.935
10492.19685	0	29.391	14011.313	25.872
10492.21325	0	25.300	14297.351	27.846
10492.22966	0	26.789	15673.573	31.634
10492.24606	0	33.212	17227.454	35.522
10492.26247	0	31.208	18714.792	39.352
10492.27887	0	31.431	19727.121	42.384
10492.29528	0	28.242	20233.309	43.237
10492.31168	0	33.435	20557.445	43.037
10492.32808	0	29.086	20590.097	43.474
10492.34449	0	33.517	21324.078	43.598
10492.36089	0	37.573	22769.788	44.947
10492.3773	0	45.227	24259.627	46.506
10492.3937	0	42.836	24683.565	45.448
10492.4101	0	43.528	24302.189	42.696
10492.42651	0	35.182	24067.408	41.873
10492.44291	0	25.453	23124.379	41.492

10492.45932	0	35.826	21872.804	41.532
10492.47572	0	361.244	22537.508	44.234
10492.49213	0	379.213	24979.630	48.706
10492.50853	0	43.117	25793.336	49.478
10492.52493	0	39.401	26024.471	49.070
10492.54134	0	34.924	26040.529	47.281
10492.55774	0	37.889	23961.084	43.545
10492.57415	0	43.293	20746.205	38.148
10492.59055	0	26.965	19107.551	35.892
10492.60696	0	27.410	18284.496	34.067
10492.62336	0	25.757	16566.350	30.665
10492.63976	0	24.210	15539.997	27.912
10492.65617	0	25.019	14403.814	25.280
10492.67257	0	12.782	12113.756	21.625
10492.68898	0	9.722	9184.985	16.478
10492.70538	0	14.376	6926.457	14.002
10492.72178	0	20.881	4956.421	12.258
10492.73819	0	41.875	3482.453	11.169
10492.75459	0	10.132	2472.695	10.053
10492.771	0	8.667	1835.571	9.723
10492.7874	0	5.174	1581.835	9.224
10492.80381	0	4.119	1255.595	8.651
10492.82021	0	1.423	970.468	8.013
10492.83661	0	2.560	668.233	7.758
10492.85302	0	1.060	665.077	7.582
10492.86942	0	5.057	780.703	7.335
10492.88583	0	4.225	1663.430	7.540
10492.90223	0	8.327	3194.381	9.593
10492.96785	0	11.434	6723.066	13.585
10492.98425	0	10.683	10085.638	17.126
10493.00066	0	25.933	11394.500	18.363
10493.01706	0	20.752	11810.352	18.959
10493.03346	0	8.925	11777.279	18.485
10493.04987	0	8.468	9606.633	15.142
10493.06627	0	21.514	7499.351	13.224
10493.08268	0	10.414	7658.171	13.469
10493.09908	0	5.561	8064.743	13.920
10493.11549	0	7.272	8169.641	14.025
10493.13189	0	12.688	7922.776	14.010
10493.14829	0	12.664	8176.349	13.739
10493.1647	0	17.822	8068.109	13.472
10493.1811	0	27.070	7087.754	12.482
10493.19751	0	20.741	7793.149	13.106
10493.21391	0	22.452	9122.252	13.798
10493.29593	0	10.414	11317.066	16.539
10493.31234	0	18.467	14335.893	20.095
10493.32874	0	21.936	18337.809	25.636
10493.36155	0	28.993	20092.276	28.746
10493.37795	0	27.809	22010.027	32.014
10493.39436	0	32.626	21028.036	31.407
10493.41076	0	33.236	17966.647	27.862
10493.42717	0	25.582	15156.540	22.883

10493.44357	0	20.623	13752.106	19.841
10493.45997	0	10.472	12798.373	19.340
10493.47638	0	19.217	12388.692	18.322
10493.49278	0	24.140	12914.069	18.495
10493.50919	0	135.238	13322.161	18.658
10493.52559	0	17.669	13210.766	18.910
10493.54199	0	22.815	12291.017	16.254
10493.5584	0	24.058	12488.892	16.718
10493.5748	0	18.502	13963.375	18.653
10493.59121	0	13.461	16028.562	21.694
10493.60761	0	23.542	16295.107	22.750
10493.62402	0	30.434	14702.474	21.243
10493.64042	0	25.148	12539.962	18.186
10493.65682	0	17.060	9796.819	15.132
10493.67323	0	26.918	6160.572	11.617
10493.68963	0	20.319	4005.119	8.802
10493.70604	0	17.611	3759.820	9.437
10493.72244	0	26.977	3912.749	9.997
10493.73885	0	21.549	3843.799	9.878
10493.75525	0	14.024	3781.369	9.727
10493.77165	0	17.611	3675.817	9.460
10493.78806	0	22.557	3690.402	9.421
10493.80446	0	14.845	3994.367	9.456
10493.82087	0	15.771	4461.756	9.868
10493.83727	0	25.113	4965.396	10.421
10493.85367	0	9.324	5425.563	10.449
10493.87008	0	10.437	5918.872	10.152
10493.88648	0	12.735	6160.432	10.923
10493.90289	0	10.191	6376.071	10.616
10493.91929	0	18.947	6839.954	10.565
10493.9357	0	15.911	7097.360	11.119
10493.9521	0	11.586	6656.289	11.613
10493.9685	0	29.708	6005.002	11.203
10493.98491	0	20.330	5075.834	11.275
10494.00131	0	46.153	3709.451	10.604
10494.01772	0	8.527	2729.446	10.154
10494.03412	0	15.970	2599.376	9.595
10494.05052	0	16.298	2647.805	9.119
10494.06693	0	15.595	2366.067	9.111
10494.08333	0	11.914	2152.532	8.368
10494.09974	0	15.009	1825.685	7.428
10494.11614	0	16.591	1236.336	6.524
10494.13255	0	17.763	633.804	5.923
10494.14895	0	15.056	452.196	4.802
10494.16535	0	21.514	459.793	4.778
10494.18176	0	19.451	555.926	4.525
10494.19816	0	26.390	772.359	4.867
10494.31299	0	35.334	1300.915	6.188
10494.3294	0	32.193	1364.723	6.440
10494.3458	0	26.215	1295.609	6.547
10494.3622	0	19.568	1426.171	7.200
10494.37861	0	13.121	1516.297	7.556

10494.39501	0	6.569	1559.046	7.582
10494.41142	0	5.678	1586.392	8.043
10494.42782	0	9.476	1735.722	8.653
10494.44423	0	1.634	1677.827	8.677
10494.46063	0	1.095	1577.698	7.447
10494.47703	0	4.987	1432.154	7.434
10494.49344	0	8.140	1469.107	7.103
10494.50984	0	15.900	1978.474	7.161
10494.52625	0	21.924	2489.804	6.906
10494.55906	0	15.653	3160.911	8.143
10494.57546	0	18.560	5725.602	9.306
10494.59186	0	17.611	9721.792	13.201
10494.60827	0	0.000	13683.694	17.388
10494.62467	0	25.359	17531.606	21.964
10494.64108	0	29.403	20457.292	24.573
10494.65748	0	25.910	21559.467	26.665
10494.67388	0	25.171	20231.977	25.285
10494.69029	0	21.737	17769.566	22.693
10494.70669	0	18.666	15501.011	19.632
10494.7231	0	9.816	13889.750	18.472
10494.7395	0	10.578	13139.174	17.719
10494.75591	0	18.396	13862.941	18.230
10494.77231	0	23.015	15422.782	20.628
10494.78871	0	23.835	16922.858	21.632
10494.80512	0	26.355	19213.547	22.301
10494.82152	0	30.599	19516.554	22.685
10494.83793	0	348.584	17581.133	21.521
10494.85433	0	27.867	15685.003	19.404
10494.87073	0	14.528	13601.328	17.851
10494.89	0	7.190	10020.592	15.906
10494.9	0	5.690	7267.468	13.135
10494.91	0	43.821	6203.017	11.673
10494.92	0	6.264	4987.484	10.053
10494.93	0	9.734	4013.860	8.981
10494.94	0	5.737	3896.808	8.441
10494.95	0	0.157	4024.238	8.338
10494.96	0	4.389	4166.135	8.969
10494.97	0	11.926	5189.987	9.918
10494.98	0	22.604	6572.053	12.136
10494.99	1	23.859	8305.929	12.852
10495	1	23.413	12120.090	16.211
10495.01	0	18.361	15991.352	19.129
10495.0164	0	20.225	18548.633	20.873
10495.03281	0	22.710	20687.515	22.915
10495.04921	0	25.230	22472.695	25.236
10495.06562	0	24.058	21812.362	24.969
10495.08202	0	20.377	20961.563	23.919
10495.09843	0	19.838	20655.471	24.121
10495.11483	0	19.850	19209.480	21.349
10495.13123	0	22.428	17119.915	20.569
10495.14764	0	115.358	16541.434	20.679
10495.16404	0	16.286	16998.866	21.698

10495.18045	0	23.694	17187.673	21.355
10495.19685	0	28.606	18038.776	21.845
10495.21325	0	390.231	19161.706	22.848
10495.22966	0	397.218	18905.865	22.327
10495.24606	0	24.867	17866.891	21.220
10495.26247	0	25.992	16572.544	21.619
10495.27887	0	18.326	14805.572	21.881
10495.29528	0	19.217	13582.302	19.658
10495.31168	0	17.716	13152.964	18.856
10495.32808	0	16.298	12994.963	19.262
10495.34449	0	15.079	13194.334	20.128
10495.36089	0	16.099	15019.341	21.023
10495.3773	0	19.779	17569.727	23.505
10495.3937	0	26.050	19941.357	25.614
10495.4101	0	33.318	21322.605	25.658
10495.42651	0	34.021	21674.415	23.959
10495.44291	0	31.208	20661.641	22.387
10495.45932	1	22.229	18521.684	20.303
10495.47572	0	16.310	16425.692	18.320
10495.49213	0	18.021	15528.334	18.134
10495.50853	0	20.131	15180.778	18.763
10495.52493	0	19.170	15335.086	19.175
10495.54134	0	16.790	16476.574	20.455
10495.55774	0	114.995	17335.554	21.306
10495.57415	0	19.861	16276.058	20.339
10495.59055	0	20.565	16055.347	18.851
10495.60696	0	21.596	16423.845	18.091
10495.62336	0	13.250	15044.724	16.444
10495.63976	0	12.125	13350.629	15.231
10495.65617	0	10.683	12829.786	14.111
10495.67257	0	13.813	11799.437	13.581
10495.68898	0	12.008	10210.520	13.663
10495.70538	0	4.319	9295.609	12.759
10495.72178	0	5.174	8307.869	11.667
10495.73819	0	7.694	7106.522	10.793
10495.75459	0	9.699	5924.295	10.055
10495.771	0	6.827	5287.663	9.129
10495.7874	0	0.000	5359.885	9.434
10495.80381	0	3.275	6062.967	9.828
10495.82021	0	0.000	7442.064	10.900
10495.83661	0	14.247	9411.773	12.093
10495.85302	0	5.913	10966.004	13.979
10495.86942	0	13.028	11997.382	15.871
10495.88583	0	22.862	12647.735	16.136
10495.90223	0	19.088	12337.015	15.337
10495.91864	0	6.241	11247.742	14.306
10495.93504	0	1.658	9230.469	12.370
10495.95144	0	0.000	10080.754	14.714
10495.96785	0	12.113	10944.057	17.538
10496.73885	0	25.957	12274.609	21.487
10496.75525	0	23.167	13601.912	24.672
10496.77165	0	22.780	15767.579	27.861

10496.78806	0	20.600	15280.370	26.633
10496.80446	0	19.920	14733.841	25.806
10496.82087	0	26.812	14452.617	25.299
10496.83727	0	25.558	14628.966	25.360
10496.85367	0	20.237	14813.729	25.904
10496.87008	0	22.710	14759.481	25.318
10496.88648	0	22.452	14817.095	25.143
10496.90289	0	18.713	14900.186	25.263
10496.91929	0	19.533	14323.482	24.175
10496.9357	0	23.331	13872.314	23.379
10496.9521	0	20.647	13729.318	22.857
10496.9685	0	21.350	12805.993	20.930
10496.98491	0	20.307	10197.618	17.521
10497.00131	0	17.564	11134.336	20.328
10497.05052	0	15.548	11904.662	21.291
10497.08333	0	28.629	12599.423	23.467
10497.09974	0	24.562	14303.474	27.170
10497.11614	0	22.675	17808.646	31.319
10497.13255	0	32.615	18069.371	31.049
10497.14895	0	32.486	18031.063	31.786
10497.16535	0	29.684	18032.465	31.493
10497.18176	0	26.133	17984.901	30.650
10497.19816	0	29.227	17554.348	30.732
10497.21457	0	26.648	17580.970	30.613
10497.23097	0	29.086	18702.381	32.269
10497.24738	0	33.248	19850.740	34.248
10497.26378	0	33.763	21213.056	37.447
10497.28018	0	34.267	22581.519	39.169
10497.29659	0	37.714	24098.423	42.395
10497.31299	0	37.221	25276.257	43.809
10497.3294	0	36.928	26132.571	43.554
10497.3458	0	42.086	25948.837	42.041
10497.3622	0	38.100	26146.174	40.789
10497.37861	0	35.885	24304.737	35.952
10497.39501	0	37.573	22266.662	31.286
10497.41142	0	25.922	20571.702	29.098
10497.42782	0	29.192	19067.419	27.143
10497.44423	0	25.910	17470.743	25.495
10497.46063	0	36.178	19115.591	26.391
10497.47703	0	30.704	20056.095	28.320
10497.49344	0	33.236	19073.777	29.490
10497.50984	0	39.073	18484.638	30.699
10497.52625	0	35.826	17560.635	31.017
10497.54265	0	266.966	15095.443	31.132
10497.55906	0	40.363	13146.093	29.051
10497.57546	0	31.149	12733.373	27.289
10497.59186	0	132.319	12413.187	26.067
10497.60827	0	43.000	12075.845	25.485
10497.62467	0	26.250	11481.074	24.714
10497.64108	0	24.398	11068.401	24.551
10497.65748	0	27.715	11273.195	24.593
10497.67388	0	24.796	10676.250	22.602

10497.69029	0	29.274	9851.255	20.993
10497.70669	0	41.089	10266.989	20.501
10497.7231	0	44.536	10342.788	20.010
10497.7395	0	58.180	9609.274	18.918
10497.75591	0	95.830	9810.095	20.023
10497.77231	0	134.875	10215.639	20.566
10497.78871	0	102.288	9437.904	18.977
10497.80512	0	79.185	10215.125	19.345
10497.82152	0	68.424	11492.597	18.683
10497.83793	0	26.742	11886.337	17.710
10497.85433	0	14.833	13027.007	19.023
10497.87073	0	36.635	12979.093	19.128
10497.88714	0	29.239	10513.854	16.806
10497.90354	0	22.358	8218.747	16.405
10498	0	70.030	6819.012	15.605
10498.0164	0	70.054	4880.202	13.391
10498.03281	0	92.044	3914.876	13.230
10498.04921	0	116.343	3543.222	13.216
10498.06562	0	105.957	3177.529	12.602
10498.08202	0	59.094	2931.529	12.645
10498.09843	0	65.236	2520.492	12.694
10498.11483	0	82.174	2494.712	12.309
10498.13123	0	73.242	2990.943	12.948
10498.14764	0	83.475	3146.326	12.987
10498.18045	0	73.406	3071.042	13.001
10498.19685	0	68.026	3211.023	13.128
10498.21325	0	86.781	3380.103	13.448
10498.22966	0	117.362	3844.663	13.838
10498.24606	0	108.102	4390.141	15.166
10498.26247	0	110.845	5025.371	16.390
10498.27887	0	94.083	6355.362	18.902
10498.29528	0	111.408	7756.501	20.935
10498.31168	0	112.650	8206.944	22.196
10498.32808	0	130.116	8700.768	23.401
10498.34449	0	197.410	9971.765	25.307
10498.36089	0	173.275	10992.018	26.714
10498.3773	0	47.982	11731.188	28.950
10498.3937	0	51.698	14774.743	33.261
10498.4101	0	41.945	21766.761	38.867
10498.42651	1	45.087	25003.097	43.010
10498.44291	1	39.249	24824.411	42.865
10498.45932	1	34.244	24330.143	40.783
10498.47572	0	39.144	21570.312	36.602
10498.49213	0	42.859	14586.801	30.497
10498.50853	0	50.959	10816.090	26.252
10498.52493	0	49.928	10608.188	26.838
10498.54134	0	46.259	10786.009	28.906
10498.57415	0	48.228	11515.222	31.982
10498.59055	0	38.253	12353.493	33.823
10498.60696	0	43.832	12759.714	34.696
10498.62336	0	39.706	12419.568	32.713
10498.63976	0	28.125	12250.348	31.720

10498.65617	0	38.980	12123.573	31.066
10498.67257	0	29.520	11911.837	31.676
10498.68898	0	43.586	11520.738	30.991
10498.70538	0	64.615	10895.698	30.144
10498.72178	0	47.349	10087.765	28.900
10498.73819	0	42.273	9251.294	26.382
10498.75459	0	38.886	8852.225	24.233
10498.771	0	29.426	8789.538	23.184
10498.7874	0	34.572	9317.744	24.951
10498.80381	0	43.434	10120.651	30.255
10498.82021	0	78.212	10553.308	36.978
10498.83661	0	325.516	11653.379	46.521
10498.85302	0	405.177	12543.748	53.127
10498.88583	0	591.528	13110.426	53.241
10498.90223	0	471.322	13400.647	49.490
10498.91864	0	86.945	13992.988	44.537
10498.93504	0	45.133	13582.279	36.648
10498.95144	0	45.485	13395.435	31.807
10498.96785	0	43.082	13222.569	31.515
10498.98425	0	34.666	12859.447	31.205
10499.00066	0	42.648	12488.401	30.774
10499.01706	0	28.911	12298.823	31.066
10499.03346	0	30.153	12095.572	30.501
10499.04987	0	25.277	11797.076	30.428
10499.06627	0	26.050	11178.838	27.695
10499.08268	0	27.387	9194.171	23.995
10499.09908	0	41.394	9828.700	22.435
10499.11549	0	91.317	9990.090	19.833
10499.1811	0	19.838	10489.663	18.628
10499.19751	0	18.068	11973.191	19.539
10499.21391	0	17.541	14979.747	21.797
10499.23031	0	19.170	15434.001	22.684
10499.24672	0	17.611	16666.713	25.822
10499.26312	0	23.964	16249.763	24.951
10499.27953	0	30.259	14432.727	24.358
10499.29593	0	42.590	12300.670	23.571
10499.31234	0	146.573	10060.676	21.304
10499.32874	0	135.203	7780.972	17.713
10499.34514	0	117.105	7424.838	16.939
10499.36155	0	53.772	7592.796	15.775
10499.37795	0	23.226	7821.314	15.411
10499.41076	0	22.768	8011.219	14.319
10499.42717	0	31.020	7856.467	14.460
10499.44357	0	26.683	7160.327	14.327
10499.45997	0	26.543	7083.827	15.036
10499.47638	0	35.662	7189.403	15.872
10499.49278	0	65.049	7386.928	17.254
10499.50919	0	83.791	7496.219	18.510
10499.52559	0	74.473	7571.737	19.426
10499.54199	0	69.702	7348.456	19.176
10499.5584	0	98.866	6975.727	18.562
10499.5748	0	98.889	6383.831	17.973

10499.59121	0	73.406	5751.382	16.998
10499.60761	0	77.098	5232.573	15.571
10499.62402	0	103.496	4850.214	15.051
10499.64042	0	69.843	4265.400	13.767
10499.65682	0	57.863	3363.882	12.939
10499.67323	0	63.267	3456.929	12.084
10499.68963	0	47.665	3548.575	11.858
10499.80446	0	39.929	3683.974	11.881
10499.82087	0	45.227	4261.917	12.379
10499.83727	0	48.392	5314.822	12.647
10499.85367	0	40.749	5878.998	13.703
10499.87008	0	48.709	6488.378	15.428
10499.88648	0	65.365	7064.544	16.847
10499.90289	0	66.314	7596.723	17.641
10499.91929	0	63.665	8372.167	19.595
10499.9357	0	56.503	8733.256	20.342
10499.9521	0	119.613	9086.118	19.706
10499.9685	0	103.038	10019.119	19.248
10499.98491	0	31.571	11120.195	19.924
10500.00131	0	94.247	11535.766	19.295
10500.01772	0	8.573	11969.007	18.888
10500.03412	0	40.832	12539.565	19.492
10500.05052	0	40.023	12302.352	19.913
10500.06693	0	50.701	11111.197	18.845
10500.08333	0	49.107	10347.369	17.216
10500.09974	0	35.229	9873.552	16.126
10500.11614	0	27.164	9411.656	15.473
10500.13255	0	21.901	9029.672	14.181
10500.14895	0	21.069	9352.452	13.911
10500.16535	0	23.425	9009.805	14.445
10500.18176	0	15.395	10063.878	16.300
10500.19816	0	15.665	10998.609	18.274
10500.26378	0	22.358	12264.301	22.199
10500.28018	0	35.569	13451.671	25.532
10500.29659	0	43.528	15149.622	27.990
10500.31299	0	73.430	15010.880	28.429
10500.3294	0	54.804	14695.392	28.050
10500.3458	0	39.542	14170.646	26.757
10500.3622	0	64.802	13563.744	26.292
10500.37861	0	68.131	13130.199	25.835
10500.39501	0	71.027	12983.978	26.178
10500.41142	0	89.535	13095.981	27.068
10500.42782	0	63.032	13441.737	26.554
10500.44423	0	28.735	13949.982	26.813
10500.46063	0	37.456	14561.044	28.004
10500.47703	0	33.060	15560.098	29.014
10500.49344	0	32.286	16606.037	29.957
10500.50984	0	27.785	17323.493	31.546
10500.52625	0	22.979	17552.455	31.089
10500.54265	0	22.358	17967.441	30.740
10500.55906	0	127.584	18066.823	31.410
10500.57546	0	22.042	17676.916	31.621

10500.59186	0	24.456	17519.429	32.841
10500.60827	0	29.145	17929.157	34.380
10500.62467	0	25.757	17798.104	35.031
10500.64108	0	30.481	16819.386	34.727
10500.65748	0	30.716	16560.250	36.034
10500.67388	0	32.873	17302.060	37.267
10500.69029	0	32.064	18165.644	38.154
10500.7231	0	34.478	19678.575	39.533
10500.7395	0	31.712	21976.019	41.286
10500.75591	0	26.660	24037.046	41.430
10500.77231	0	26.086	24953.733	40.931
10500.78871	0	24.515	25389.779	41.706
10500.80512	0	24.374	25546.775	41.715
10500.82152	0	22.804	25867.312	41.794
10500.83793	0	24.222	25769.987	40.946
10500.85433	0	26.848	25328.285	41.442
10500.87073	0	28.067	25230.422	40.760
10500.88714	0	26.226	24879.898	41.969
10500.90354	0	27.633	24124.578	42.182
10500.91995	0	27.727	23455.480	43.891
10500.93635	0	28.582	23070.925	43.577
10500.95276	0	30.153	22645.187	43.073
10500.96916	0	25.007	20355.012	39.008
10500.98	0	37.022	20863.490	41.254
10500.99	0	20.412	22603.443	44.253
10501.01	0	34.431	24285.501	47.934
10501.0164	0	35.803	25622.948	52.849
10501.03281	0	40.269	28660.005	59.034
10501.04921	0	42.156	29027.615	59.220
10501.06562	0	39.003	28239.877	58.158
10501.08202	0	42.648	27798.712	56.557
10501.09843	0	35.135	27289.462	55.038
10501.11483	0	38.909	26845.867	53.764
10501.13123	0	41.078	26775.024	53.778
10501.14764	0	35.580	27095.771	54.332
10501.16404	0	36.706	27621.452	55.443
10501.18045	0	38.030	28151.597	55.790
10501.19685	0	37.784	28369.994	55.012
10501.21325	0	38.640	27451.881	51.680
10501.22966	0	35.358	27263.986	50.227
10501.24606	0	33.435	23780.972	42.970
10501.27887	0	38.194	19837.909	35.421
10501.29528	0	40.538	16172.072	29.349
10501.31168	0	41.007	12981.734	24.271
10501.32808	0	50.924	8475.149	16.262
10501.34449	0	53.538	6580.304	13.864
10501.36089	0	53.468	5677.921	12.621
10501.3773	0	58.508	5326.602	12.534
10501.3937	0	64.861	5242.179	12.337
10501.4101	0	71.624	5174.654	13.001
10501.42651	0	71.050	5664.996	13.676
10501.44291	0	91.645	6506.048	14.850

10501.45932	0	83.838	8437.238	17.432
10501.47572	0	66.443	10122.825	19.331
10501.49213	0	38.264	10194.089	19.246
10501.50853	0	22.921	9713.938	18.884
10501.52493	0	55.413	8699.085	17.944
10501.54134	0	62.915	6749.641	15.190
10501.55774	0	73.687	4908.179	13.411
10501.57415	0	71.402	4554.570	12.893
10501.59055	0	76.208	4867.721	12.972
10501.60696	0	85.855	6342.788	13.957
10501.62336	0	68.249	7795.837	15.588
10501.63976	0	39.179	8638.362	17.180
10501.65617	0	33.013	9222.592	18.000
10501.67257	0	53.749	9506.877	18.149
10501.68898	0	46.751	8697.799	17.792
10501.70538	0	49.916	7678.856	16.839
10501.72178	0	42.297	7204.245	15.906
10501.73819	0	58.930	6966.074	15.947
10501.75459	0	40.796	6818.988	16.034
10501.771	0	55.343	6197.361	15.518
10501.7874	0	50.854	5306.197	14.052
10501.80381	0	45.473	4956.772	13.400
10501.82021	0	40.070	5466.092	13.512
10501.83661	0	33.599	5834.216	14.168
10501.85302	0	57.195	6041.440	14.269
10501.86942	0	67.252	5965.946	14.360
10501.88583	0	80.627	5660.835	14.288
10501.90223	0	66.455	5020.720	13.658
10501.91864	0	58.977	4388.949	12.773
10501.93504	0	61.016	4439.715	12.570
10501.95144	0	57.195	4764.319	12.974
10501.96785	0	51.569	4999.965	12.969
10501.98425	0	54.569	5304.982	12.713
10502.00066	0	51.076	5434.117	13.263
10502.01706	0	54.816	5247.368	12.977
10502.03346	0	69.843	4815.996	12.669
10502.04987	0	69.210	4338.417	11.626
10502.08268	0	20.365	3625.612	11.137
10502.09908	0	13.403	3235.798	10.017
10502.11549	0	20.283	3042.293	9.952
10502.13189	0	30.809	3059.215	9.901
10502.14829	0	29.040	3252.042	9.985
10502.1647	0	39.917	3713.635	9.925
10502.1811	0	38.956	4095.759	10.774
10502.19751	0	23.648	4845.961	11.396
10502.21391	0	40.808	5516.718	12.200
10502.23031	0	47.196	6516.285	13.628
10502.26312	0	23.765	8291.741	16.376
10502.27953	0	24.468	9953.277	19.395
10502.29593	0	27.059	10604.004	20.877
10502.31234	0	34.197	11133.635	21.940
10502.32874	0	21.280	10716.381	23.099

10502.34514	0	34.725	10058.760	23.354
10502.36155	0	47.349	10587.315	24.762
10502.37795	0	48.662	11207.844	26.089
10502.39436	0	35.779	11837.605	28.057
10502.41076	0	40.339	12866.622	29.093
10502.42717	0	44.243	12757.751	29.210
10502.44357	0	53.151	12278.395	28.496
10502.45997	0	59.270	13100.959	32.407
10502.47638	0	53.174	14218.490	36.179
10502.49278	0	42.367	15062.628	40.157
10502.50919	0	40.093	15991.516	42.323
10502.52559	0	35.486	15742.477	41.885
10502.54199	0	33.834	14718.858	38.552
10502.5584	0	48.837	14306.139	36.630
10502.5748	0	34.924	14509.016	35.208
10502.59121	0	31.255	13026.844	32.828
10502.60761	0	34.338	13480.606	34.175
10502.62402	0	23.952	13990.347	34.848
10502.70604	0	40.749	14095.151	35.605
10502.72244	0	37.725	15655.272	37.267
10502.73885	0	33.330	19099.183	42.388
10502.75525	0	31.782	19541.843	42.662
10502.77165	0	31.079	20209.562	43.915
10502.78806	0	28.090	20475.920	41.577
10502.80446	0	26.437	19344.622	40.344
10502.82087	0	29.919	18676.927	39.818
10502.83727	0	25.828	18779.745	40.093
10502.85367	0	28.336	18475.336	39.655
10502.87008	0	30.470	17977.375	40.578
10502.88648	0	28.922	16485.924	36.631
10502.90289	0	29.766	14063.761	31.245
10502.91929	0	23.730	12454.253	26.559
10502.9357	0	24.972	11121.855	23.461
10502.9521	0	28.911	10304.339	20.790
10502.9685	0	31.149	10369.129	20.810
10502.98491	0	38.100	10926.364	21.505
10503.00131	0	20.670	10343.910	20.915
10503.01772	0	19.545	9322.442	18.535
10503.03412	0	17.623	8431.161	16.500
10503.05052	0	22.182	7582.956	14.818
10503.06693	0	13.286	6699.880	13.122
10503.08333	0	20.659	5824.843	12.067
10503.09974	0	19.815	6120.978	12.892
10503.11614	0	14.950	6216.527	13.676
10503.19816	0	20.225	6135.937	13.869
10503.21457	0	28.559	6190.326	13.638
10503.23097	0	27.844	7356.356	15.094
10503.24738	0	34.408	7597.144	15.333
10503.26378	0	24.222	7531.653	14.891
10503.28018	0	28.899	7191.530	14.957
10503.29659	0	28.242	6853.557	14.840
10503.31299	0	28.407	6218.163	14.278

10503.3294	0	24.070	5421.052	13.444
10503.3458	0	19.650	4734.565	12.759
10503.3622	0	14.891	4229.335	11.859
10503.37861	0	16.239	3686.428	11.224
10503.39501	0	10.988	3373.114	10.560
10503.41142	0	17.388	3282.567	9.742
10503.42782	0	16.814	3034.230	8.870
10503.44423	0	16.849	2818.030	8.386
10503.46063	0	19.838	2619.126	8.180
10503.47703	0	24.503	2418.212	7.824
10503.49344	0	20.588	2159.123	7.515
10503.50984	0	25.347	2238.474	8.270
10503.52625	0	26.273	2432.937	8.530
10503.54265	0	22.077	2560.787	8.859
10503.55906	0	32.955	2686.230	9.144
10503.57546	0	31.349	3136.229	10.213
10503.59186	0	23.437	3629.375	10.238
10503.60827	0	28.196	4041.814	10.728
10503.64108	0	19.791	4419.544	10.950
10503.65748	0	17.869	4576.564	10.687
10503.67388	0	15.853	4464.608	9.732
10503.69029	0	12.864	4320.280	9.856
10503.70669	0	8.058	4092.393	9.503
10503.7231	0	9.101	3832.767	8.811
10503.7395	0	8.538	3750.190	9.082
10503.75591	0	13.121	3665.556	9.181
10503.77231	0	9.781	3659.970	9.108
10503.78871	0	6.358	3745.656	8.967
10503.80512	0	8.773	3861.796	8.802
10503.82152	0	10.871	4010.775	9.054
10503.83793	0	11.551	4176.162	9.473
10503.85433	0	10.531	4107.562	9.502
10503.87073	0	9.722	4000.397	9.459
10503.88714	0	5.198	4030.245	9.693
10503.90354	0	11.750	4204.583	9.214
10503.91995	0	18.291	4482.324	9.143
10503.93635	0	23.038	4779.652	9.074
10503.95276	0	20.483	5208.709	9.125
10503.96916	0	14.821	5194.662	8.790
10503.98	0	11.996	4180.018	8.161
10503.99	0	19.428	2999.568	7.037
10504	0	16.404	2987.904	6.723
10504.0164	0	20.647	3132.980	7.687
10504.03281	0	23.648	3652.655	8.208
10504.04921	0	36.377	4977.597	9.720
10504.06562	0	27.715	6545.501	11.738
10504.08202	0	27.645	7137.889	13.061
10504.09843	0	28.875	7418.598	12.879
10504.11483	0	25.183	7965.595	14.188
10504.13123	0	29.520	8960.348	15.231
10504.14764	0	29.356	9897.299	16.773
10504.16404	0	28.746	10846.288	18.174

10504.18045	0	32.474	11880.424	19.658
10504.19685	0	29.145	12498.311	20.272
10504.21325	0	27.820	12069.581	19.677
10504.22966	0	27.949	11000.292	17.154
10504.24606	0	25.769	9812.455	15.364
10504.26247	0	14.774	8703.128	13.322
10504.27887	0	17.037	7802.522	12.109
10504.29528	0	9.183	7860.253	11.887
10504.31168	0	19.393	9085.884	14.977
10504.32808	0	20.330	10713.319	17.754
10504.34449	0	26.965	12092.557	21.207
10504.36089	0	34.924	13190.665	23.129
10504.3773	0	32.744	13968.657	25.467
10504.3937	0	30.927	14154.238	25.316
10504.4101	0	30.305	14023.233	25.056
10504.42651	0	37.702	14102.046	24.983
10504.44291	0	39.401	14332.060	25.864
10504.45932	0	37.303	14369.620	25.683
10504.47572	0	32.708	14305.648	24.838
10504.49213	0	35.240	14239.690	24.572
10504.50853	0	27.012	14216.924	24.351
10504.52493	0	29.801	14438.617	24.137
10504.54134	0	25.570	14870.385	24.578
10504.55774	0	26.297	15061.249	25.361
10504.57415	0	30.071	14423.822	24.095
10504.59055	0	21.198	13452.489	21.187
10504.60696	0	23.765	12638.269	18.890
10504.62336	0	16.626	12301.090	18.059
10504.63976	0	15.782	12411.107	17.773
10504.65617	0	22.417	12962.054	18.357
10504.67257	0	24.550	13358.833	18.996
10504.68898	0	31.876	13104.045	19.038
10504.70538	0	24.515	12251.096	17.626
10504.72178	0	14.938	11229.394	16.061
10504.73819	0	23.214	10615.433	14.639
10504.75459	0	41.980	10474.003	14.471
10504.771	0	24.785	10575.021	14.573
10504.7874	0	26.332	10697.612	15.023
10504.80381	0	32.263	10796.854	14.955
10504.82021	0	26.109	11055.476	15.837
10504.83661	0	24.011	11272.213	16.892
10504.85302	0	23.308	11685.914	17.026
10504.86942	0	29.180	12496.465	17.505
10504.88583	0	21.479	13204.782	18.373
10504.90223	0	20.412	13196.134	18.246
10504.91864	0	11.328	13095.163	17.961
10504.93504	0	16.755	12815.950	18.654
10504.95144	0	15.700	11721.207	18.208
10504.96785	0	17.412	10705.840	17.942
10504.98425	0	20.272	10170.552	17.287
10505.00066	0	22.018	8900.957	15.843
10505.01706	0	19.615	9261.111	16.994

10505.08268	0	14.786	10287.674	17.925
10505.09908	0	22.300	11325.153	19.039
10505.11549	0	28.160	12506.749	20.769
10505.13189	0	22.874	14456.357	23.601
10505.14829	0	23.038	14966.168	24.210
10505.1647	0	26.566	15794.225	26.406
10505.1811	0	24.245	16705.232	28.132
10505.19751	0	28.582	17357.968	29.082
10505.21391	0	27.445	17901.390	30.486
10505.23031	0	26.812	18400.028	30.964
10505.24672	0	23.144	18771.448	31.703
10505.26312	0	24.023	19243.418	33.234
10505.27953	0	27.504	19470.626	34.959
10505.29593	0	30.997	19575.641	35.450
10505.31234	0	28.465	19501.221	36.720
10505.32874	0	27.785	19037.572	36.954
10505.34514	0	24.058	18405.801	35.677
10505.36155	0	22.745	17970.644	34.793
10505.37795	0	25.863	17946.382	33.971
10505.39436	0	25.242	18114.668	34.313
10505.41076	0	28.078	18175.578	34.294
10505.42717	0	28.348	18481.670	36.080
10505.44357	0	29.942	18895.675	37.479
10505.45997	0	36.987	19497.669	39.981
10505.47638	0	31.677	20170.693	41.485
10505.49278	0	34.607	18916.687	38.288
10505.50919	0	34.455	15937.033	32.860
10505.5748	0	21.268	14748.425	30.033
10505.60761	0	18.642	13683.273	27.569
10505.62402	0	21.174	13067.770	24.553
10505.65682	0	25.066	14760.673	26.527
10505.67323	0	21.186	17934.018	30.702
10505.68963	0	27.903	19324.989	32.935
10505.70604	0	26.906	19960.032	34.061
10505.72244	0	29.977	20089.962	34.617
10505.73885	0	27.914	20173.381	36.045
10505.75525	0	26.226	19854.387	35.688
10505.77165	0	29.379	19262.093	34.250
10505.78806	0	25.253	18679.756	33.243
10505.80446	0	23.179	17774.100	32.755
10505.82087	0	21.995	16623.076	30.504
10505.83727	0	24.257	16302.937	29.800
10505.85367	0	28.934	16604.191	31.299
10505.87008	0	33.705	16997.347	31.325
10505.88648	0	27.141	17302.341	31.273
10505.90289	0	31.349	17540.254	31.692
10505.91929	0	26.590	17541.025	31.399
10505.9357	0	24.585	16652.269	30.764
10505.9521	0	27.504	17457.000	33.854
10506.7231	0	28.301	18973.226	37.311
10506.7395	0	35.123	20084.143	39.960
10506.75591	0	33.365	20662.179	42.507

10506.77231	0	33.740	22390.796	43.859
10506.78871	0	28.606	22486.157	42.648
10506.80512	0	31.618	21777.863	41.353
10506.82152	0	30.493	21572.555	41.096
10506.83793	0	31.103	21708.446	41.964
10506.85433	0	32.544	21314.004	44.392
10506.87073	0	34.853	20967.477	46.216
10506.88714	0	338.738	21275.976	47.364
10506.90354	0	52.319	21651.860	48.876
10506.91995	0	46.013	21458.916	48.175
10506.93635	0	39.542	20777.361	45.042
10506.95276	0	32.790	20404.095	42.936
10506.96916	0	31.747	19360.843	40.611
10506.98556	0	35.346	18263.530	37.760
10507.3	0	28.946	17609.625	36.035
10507.3164	0	25.933	17448.889	35.101
10507.33281	0	25.265	17417.710	34.733
10507.34921	0	28.067	17834.683	34.225
10507.36562	0	30.282	17498.603	32.884
10507.38202	0	25.019	16745.130	30.906
10507.39843	0	28.102	16009.583	30.013
10507.41483	0	27.316	15069.616	28.620
10507.43123	0	24.703	14226.227	29.127
10507.44764	0	28.981	14516.005	30.940
10507.46404	0	28.571	15408.992	33.758
10507.48045	0	28.571	15782.795	36.258
10507.49685	0	50.643	15575.524	36.853
10507.51325	0	354.187	14997.861	34.136
10507.52966	0	311.555	13615.445	30.864
10507.54606	0	45.790	12520.142	27.978
10507.56247	0	36.952	11238.439	23.787
10507.59528	0	23.671	10409.190	20.144
10507.61168	0	27.563	10015.099	18.850
10507.62808	0	21.842	9784.151	18.346
10507.64449	0	29.321	9122.252	17.367
10507.66089	0	26.050	9448.609	16.745
10507.6773	0	25.957	9315.289	16.535
10507.6937	0	17.294	8488.027	16.010
10507.7101	0	17.001	8014.561	14.724
10507.72651	0	26.297	7671.680	14.097
10507.74291	0	34.467	6932.207	13.538
10507.75932	0	26.859	6671.785	13.144
10507.77572	0	29.860	6993.000	12.960
10507.79213	0	29.895	7155.886	12.894
10507.80853	0	28.348	7159.766	12.695
10507.82493	0	25.699	7126.506	12.309
10507.84134	0	29.145	7072.024	12.702
10507.85774	0	26.777	7027.101	12.431
10507.87415	0	36.354	6559.782	12.418
10507.89055	0	30.669	5902.815	11.391
10507.93976	0	30.493	5232.315	10.823
10507.95617	0	18.994	4333.953	9.838

10507.97257	0	19.650	3343.127	9.313
10507.98898	0	21.678	2828.267	9.220
10508.00538	0	23.694	2690.156	9.520
10508.02178	0	15.700	2578.784	9.417
10508.03819	0	19.522	2604.051	9.379
10508.05459	0	20.342	2616.438	9.422
10508.071	0	20.717	2614.942	9.509
10508.0874	0	20.037	2535.778	9.482
10508.10381	0	27.059	2498.007	10.053
10508.12021	0	27.117	2414.589	9.820
10508.13661	0	24.585	2361.393	9.492
10508.15302	0	22.428	2261.824	9.357
10508.16942	0	19.604	2165.971	9.417
10508.18583	0	24.398	2083.301	9.060
10508.20223	0	24.081	2058.573	8.954
10508.21864	0	22.405	2298.519	9.600
10508.23504	0	20.834	2738.609	9.684
10508.25144	0	15.606	2944.968	9.070
10508.26785	0	14.927	3110.355	9.960
10508.28425	0	15.056	3694.609	10.194
10508.31706	0	16.169	4831.259	9.798
10508.33346	0	7.694	5255.992	9.248
10508.34987	0	0.000	5139.946	9.321
10508.36627	0	10.613	4955.580	8.527
10508.38268	0	35.944	4145.590	8.636
10508.39908	0	36.155	2456.567	8.079
10508.41549	0	31.384	1249.261	8.053
10508.43189	0	27.305	989.704	7.810
10508.44829	0	24.550	3262.957	10.892
10508.4647	0	30.821	5386.437	12.664
10508.59593	0	30.446	7347.240	14.823
10508.61234	0	22.452	9596.139	17.089
10508.62874	0	27.059	12196.029	21.160
10508.64514	0	39.308	12521.754	21.897
10508.66155	0	29.227	12990.756	24.022
10508.67795	0	33.529	13329.220	24.596
10508.69436	0	32.814	13242.810	24.241
10508.71076	0	27.703	12843.670	23.451
10508.72717	0	23.308	12321.986	21.588
10508.74357	0	23.108	12068.296	20.285
10508.75997	0	24.363	12425.925	22.010
10508.77638	1	24.011	13464.385	24.804
10508.79278	1	25.382	14377.870	25.314
10508.80919	1	25.511	15068.868	27.451
10508.82559	0	21.291	16062.569	29.663
10508.84199	0	22.874	16562.797	30.062
10508.8584	0	26.226	16759.130	29.330
10508.8748	0	27.012	17031.004	29.687
10508.89121	0	23.648	17138.730	28.630
10508.90761	0	21.854	16621.183	26.742
10508.92402	0	22.452	16138.718	25.881
10508.94042	0	21.889	15348.596	24.343

10508.95682	0	24.538	14151.761	22.900
10508.97323	0	21.280	13199.827	21.605
10508.98963	0	20.143	12708.598	20.284
10509.00604	0	19.475	12721.172	18.492
10509.02244	0	16.181	13115.521	17.353
10509.03885	0	16.615	13110.753	15.560
10509.05525	0	13.145	12921.081	14.167
10509.07165	0	10.894	12624.245	12.931
10509.08806	0	12.852	12275.403	12.713
10509.10446	0	0.251	12193.061	14.098
10509.12087	0	16.439	14111.653	16.332
10509.13727	0	19.990	18483.072	19.499
10509.15367	0	24.679	22001.893	22.433
10509.17008	0	25.382	25933.644	24.298
10509.18648	0	30.962	29646.694	25.171
10509.20289	0	29.590	30178.546	23.644
10509.21929	0	30.446	27211.911	23.028
10509.2357	0	283.505	25003.003	21.896
10509.2521	0	32.240	21806.355	22.034
10509.2685	0	25.441	17830.219	21.549
10509.28491	0	21.350	15628.487	24.223
10509.30131	0	24.773	14991.504	25.616
10509.31772	0	29.297	14360.317	28.663
10509.33412	0	29.344	13948.229	29.584
10509.35052	0	26.660	13825.240	31.145
10509.36693	0	25.734	13702.603	30.918
10509.38333	0	25.453	13475.137	30.349
10509.39974	0	24.386	13608.877	29.624
10509.41614	0	28.793	13914.338	30.375
10509.43255	0	29.462	14340.006	30.728
10509.44895	0	25.582	15248.490	32.310
10509.46535	0	29.649	16208.066	34.651
10509.48176	0	31.360	16685.575	36.569
10509.49816	0	29.462	17070.621	38.171
10509.51457	0	29.016	17381.248	38.938
10509.53097	0	33.927	18314.857	40.360
10509.54738	0	28.535	19570.616	42.220
10509.56378	0	31.278	20328.016	42.357
10509.58018	0	36.846	20521.334	41.157
10509.59659	0	31.607	21610.490	42.010
10509.61299	0	31.771	21745.632	42.462
10509.6294	0	35.615	20885.180	41.590
10509.6458	0	38.264	20551.111	40.507
10509.6622	0	48.392	20484.919	40.262
10509.67861	0	53.479	19830.663	40.680
10509.69501	0	36.166	19636.153	39.680
10509.71142	0	39.378	19445.126	38.549
10509.72782	0	35.615	18912.620	39.385
10509.74423	0	52.811	18754.105	41.458
10509.76063	0	372.872	18697.893	39.695
10509.77703	0	354.738	17698.629	38.254
10509.79344	0	74.883	14948.264	34.313

10509.80984	0	43.727	11845.505	27.809
10509.82625	0	138.778	8871.390	20.790
10510	0	0.000	6392.034	16.616
10510.0164	0	20.987	5897.019	14.989
10510.03281	0	61.110	8795.732	20.480
10510.04921	0	50.256	11812.455	27.757
10510.06562	0	385.238	14788.767	32.733
10510.08202	0	365.018	17118.653	38.148
10510.09843	0	71.671	16940.037	38.461
10510.11483	0	46.763	14940.224	33.136
10510.13123	0	42.004	13377.181	27.955
10510.14764	0	54.593	11966.296	25.683
10510.16404	0	54.464	11046.127	24.800
10510.18045	0	90.027	11346.492	27.781
10510.19685	0	359.134	12277.951	31.433
10510.21325	0	417.977	13660.765	36.518
10510.22966	0	442.018	15010.272	41.251
10510.24606	0	481.426	15935.444	43.351
10510.26247	0	469.693	16489.570	44.188
10510.27887	0	454.982	16667.625	45.015
10510.29528	0	423.146	16457.689	44.272
10510.31168	0	437.622	15408.290	40.764
10510.32808	0	483.700	14649.043	38.329
10510.34449	0	446.777	14449.415	37.892
10510.36089	0	454.876	14725.870	35.412
10510.3773	0	395.412	14932.324	35.501
10510.3937	0	58.953	15348.876	36.511
10510.4101	0	390.677	15496.523	36.899
10510.42651	0	433.402	15441.737	36.482
10510.44291	0	425.139	15519.102	38.760
10510.45932	0	476.315	15694.165	38.566
10510.47572	0	485.740	16156.973	38.712
10510.49213	0	377.267	16079.935	36.750
10510.50853	0	36.131	15186.762	32.889
10510.52493	0	47.208	14434.386	29.374
10510.54134	0	112.556	14292.910	26.860
10510.55774	0	74.989	14291.367	25.258
10510.57415	0	55.179	14675.245	27.586
10510.59055	0	141.462	15290.584	30.683
10510.60696	0	428.772	14818.988	31.211
10510.62336	0	455.005	12810.551	28.675
10510.63976	0	349.780	10567.519	26.270
10510.65617	0	138.602	9381.248	22.687
10510.67257	0	82.737	9175.823	21.247
10510.68898	0	139.176	9715.317	20.903
10510.70538	0	159.127	11388.610	23.632
10510.72178	0	176.768	13392.537	26.229
10510.73819	0	183.648	14201.288	27.729
10510.75459	0	166.136	13949.631	27.923
10510.771	0	209.213	13435.683	27.136
10510.7874	0	314.087	12732.882	26.777
10510.80381	0	205.603	11987.122	25.601

10510.82021	0	180.402	11905.620	25.477
10510.83661	0	192.158	12677.956	25.432
10510.85302	0	122.836	13271.886	26.472
10510.86942	0	71.742	13717.374	27.072
10510.88583	0	95.455	13849.455	28.763
10510.90223	0	357.587	13350.185	29.089
10510.91864	0	405.927	12533.184	28.117
10510.93504	0	338.199	12293.003	28.009
10510.95144	0	157.357	11853.171	26.647
10510.96785	0	64.955	11269.291	24.089
10510.98425	0	44.407	12109.198	26.267
10511.00066	0	56.234	14040.038	27.808
10511.04987	0	451.712	16742.021	32.506
10511.09908	0	85.081	18833.643	33.660
10511.11549	0	45.579	19682.105	37.070
10511.13189	0	56.621	19289.790	36.518
10511.14829	0	386.762	17901.343	38.211
10511.1647	0	377.689	15963.982	37.954
10511.1811	0	422.419	15185.406	41.860
10511.19751	0	499.149	15795.463	43.314
10511.21391	0	462.988	15940.960	41.050
10511.23031	0	399.538	15834.379	38.583
10511.24672	0	110.154	15320.525	34.638
10511.26312	0	66.994	14722.808	29.626
10511.27953	0	54.464	14672.416	27.740
10511.29593	0	35.873	15062.347	29.661
10511.31234	0	30.704	15358.857	30.195
10511.32874	0	32.579	15548.785	31.287
10511.34514	0	54.745	15511.786	32.508
10511.36155	0	68.682	15117.063	31.425
10511.37795	0	99.252	14643.153	29.907
10511.39436	0	112.498	14108.895	29.860
10511.41076	0	155.739	13681.427	27.866
10511.42717	0	359.251	13122.579	25.984
10511.44357	0	152.328	12760.182	25.285
10511.45997	0	46.528	12394.839	23.909
10511.47638	0	33.904	12412.088	22.338
10511.49278	0	37.268	12700.230	22.392
10511.50919	0	31.372	13122.205	24.636
10511.52559	0	97.647	13282.871	26.846
10511.54199	0	374.161	13272.844	29.819
10511.5584	0	343.696	13445.126	32.476
10511.5748	0	410.873	13578.258	36.242
10511.59121	0	498.844	14154.893	36.353
10511.60761	0	435.864	14786.056	35.190
10511.62402	0	244.390	14762.566	33.199
10511.64042	0	114.397	13916.816	30.091
10511.65682	0	241.143	12785.869	25.359
10511.67323	0	233.337	12314.530	25.874
10511.68963	0	161.823	13058.234	29.595
10511.70604	0	268.560	14948.100	31.351
10511.72244	0	431.117	17146.186	34.938

10511.73885	0	68.108	19371.571	39.219
10511.75525	0	52.260	20716.802	40.200
10511.77165	0	33.810	20782.760	38.072
10511.78806	0	33.060	20441.398	37.833
10511.80446	0	33.283	19653.870	34.795
10511.82087	0	38.171	18475.733	30.367
10511.83727	0	36.999	17683.787	26.688
10511.85367	0	38.815	17050.193	23.464
10511.87008	0	21.655	16130.257	20.959
10511.88648	0	26.390	15049.352	19.571
10511.90289	0	21.034	13959.752	18.727
10511.91929	0	24.550	12538.793	17.934
10511.9357	0	32.169	10941.322	17.070
10511.9521	0	27.527	9612.360	15.339
10511.9685	0	25.523	8811.252	14.369
10511.98491	0	30.200	7725.718	13.557
10512.00131	0	25.886	5814.325	11.021
10512.01772	0	24.644	4572.544	9.286
10512.03412	0	28.407	4203.508	9.985
10512.05052	0	27.692	4037.841	10.213
10512.06693	0	24.374	4745.831	11.071
10512.08333	0	32.486	6256.495	12.723
10512.09974	0	29.696	6995.641	13.887
10512.11614	0	38.839	6617.396	13.059
10512.13255	0	55.988	5909.103	11.901
10512.14895	0	43.727	5117.928	11.426
10512.16535	0	35.569	4416.062	11.333
10512.18176	0	43.199	3942.596	10.492
10512.19816	0	60.922	3821.641	10.410
10512.21457	0	66.385	3847.912	10.782
10512.23097	0	66.807	2963.246	9.744
10512.24738	0	50.478	3332.539	9.558
10512.26378	0	39.237	3817.691	9.454
10512.3294	0	20.565	4999.497	10.303
10512.3458	0	23.671	6831.095	12.416
10512.3622	0	22.499	9204.502	14.874
10512.37861	0	18.256	10124.999	16.254
10512.39501	0	14.387	10933.703	17.571
10512.41142	0	15.360	12145.356	19.913
10512.42782	0	15.196	13876.217	22.622
10512.44423	0	23.050	15908.425	26.419
10512.46063	0	25.605	18449.018	30.806
10512.47703	0	23.894	21059.122	35.128
10512.49344	0	25.968	21994.764	36.958
10512.50984	0	33.318	21655.903	36.969
10512.52625	0	33.623	20773.014	34.093
10512.54265	0	36.307	19383.632	30.487
10512.55906	0	47.900	18128.715	26.930
10512.57546	0	23.132	17552.665	24.504
10512.59186	0	37.409	17826.830	23.068
10512.60827	0	39.765	18096.951	22.930
10512.62467	0	28.137	17836.062	23.102

10512.64108	0	20.448	18741.881	25.874
10512.65748	0	26.742	20209.585	27.507
10512.67388	0	31.689	22519.137	30.473
10512.69029	0	35.932	25560.752	33.507
10512.70669	0	35.885	25326.555	32.993
10512.7231	0	22.089	22563.545	28.640
10512.7395	0	17.576	18873.844	24.049
10512.75591	0	30.048	13836.717	18.339
10512.77231	0	36.260	8579.649	12.880
10512.78871	0	25.746	7468.850	11.507
10512.80512	0	21.643	7636.948	12.125
10512.82152	0	25.875	8297.047	13.023
10512.83793	0	22.417	8991.901	13.278
10512.85433	0	19.451	9691.290	14.436
10512.87073	0	30.610	10474.027	15.869
10512.88714	0	33.728	11047.716	17.037
10512.90354	0	53.198	10978.158	17.930
10512.91995	0	47.865	10478.818	18.331
10512.93635	0	76.969	9739.953	17.651
10512.95276	0	70.077	8547.161	16.379
10512.96	0	55.320	7321.694	14.123
10512.97	0	54.007	6386.168	12.877
10512.98	0	45.708	4869.076	10.982
10512.99	0	47.126	4684.991	11.218
10513	0	32.603	4559.128	11.944
10513.01	0	17.939	4234.711	13.516
10513.0164	0	18.513	5596.092	14.373
10513.03281	0	28.055	7890.708	17.170
10513.31168	0	18.045	8933.492	17.877
10513.32808	0	27.375	10215.242	21.326
10513.34449	0	26.789	11842.560	24.708
10513.36089	0	31.630	11757.996	27.190
10513.3773	0	26.238	12797.438	28.223
10513.3937	0	26.777	13992.053	27.687
10513.4101	0	27.023	15022.450	22.916
10513.42651	0	24.163	15923.968	17.411
10513.44291	0	14.845	15067.326	13.733
10513.45932	0	16.720	12606.996	10.809
10513.47572	0	24.960	10018.044	9.511
10513.49213	0	18.689	7414.858	9.784
10513.50853	0	17.740	4995.080	10.717
10513.52493	0	13.872	4405.217	10.342
10513.54134	0	14.915	4238.778	9.971
10513.55774	0	14.563	4322.219	10.526
10513.57415	0	12.489	4501.303	9.764
10513.59055	0	18.091	4617.887	9.554
10513.60696	0	18.373	4836.775	9.994
10513.62336	0	15.771	4941.626	10.284
10513.63976	0	16.099	5008.356	10.161
10513.65617	0	21.514	5000.012	11.057
10513.67257	0	21.045	4916.687	11.632
10513.68898	0	31.032	4808.213	11.208

10513.70538	0	29.028	4852.014	11.274
10513.72178	0	33.248	4815.365	11.182
10513.73819	0	42.859	4735.220	10.845
10513.75459	0	34.631	4647.548	10.983
10513.771	0	33.716	4614.966	11.317
10513.7874	0	35.182	4585.796	11.276
10513.80381	0	31.841	4646.870	11.805
10513.82021	0	35.662	4684.570	11.389
10513.83661	0	38.593	4823.242	9.778
10513.85302	0	42.508	5356.122	11.530
10513.86942	0	54.956	5340.485	13.783
10513.88583	0	35.815	6700.020	14.189
10513.90223	0	33.576	7991.749	15.517
10514.60761	0	16.122	9289.626	17.665
10514.62402	0	9.546	10030.993	15.556
10514.64042	0	17.013	11508.280	14.812
10514.65682	0	0.000	11579.567	14.728
10514.67323	0	15.583	12051.140	14.400
10514.68963	0	18.842	12297.070	13.775
10514.70604	0	22.827	11893.162	15.017
10514.72244	0	24.515	11428.017	14.300
10514.73885	0	26.801	11074.174	13.651
10514.75525	0	35.627	10066.940	13.538
10514.77165	0	33.142	8966.448	13.894
10514.78806	0	42.777	8585.936	13.740
10514.80446	0	41.031	8147.553	13.491
10514.82087	0	44.793	7640.758	12.399
10514.83727	0	25.875	7604.717	13.621
10514.85367	0	21.901	7536.374	14.834
10514.87008	0	35.990	6300.529	16.047
10514.88648	0	58.602	7644.287	18.278
10514.90289	0	28.864	8668.560	23.426
10514.9521	0	28.067	9791.326	26.471
10514.9685	0	28.196	11496.266	28.202
10514.98491	0	27.574	15184.892	30.130
10515.00131	0	32.040	16414.519	29.755
10515.01772	0	31.853	17635.172	27.490
10515.03412	0	36.530	18068.459	24.666
10515.05052	0	35.897	17811.357	23.739
10515.06693	0	32.802	16649.885	22.357
10515.08333	0	31.911	15155.091	21.554
10515.09974	0	54.288	14206.944	21.719
10515.11614	0	47.337	13884.678	23.173
10515.13255	0	42.109	13714.733	23.883
10515.14895	0	46.048	13685.891	25.382
10515.16535	0	44.582	14170.529	27.462
10515.18176	0	43.633	14697.659	30.500
10515.19816	0	41.746	15184.424	30.997
10515.21457	0	44.172	15964.777	30.949
10515.23097	0	70.534	16950.508	30.093
10515.24738	0	91.364	17673.620	28.667
10515.26378	0	90.262	17773.937	25.359

10515.28018	0	50.572	17311.737	22.976
10515.29659	0	53.526	16323.225	20.929
10515.31299	0	32.861	14716.474	19.191
10515.3294	0	35.686	12886.513	19.737
10515.3458	0	19.369	11714.570	19.995
10515.3622	0	19.041	11493.719	20.839
10515.37861	0	17.341	12970.048	20.737
10515.41142	0	16.404	14824.528	20.986
10515.42782	0	17.927	16118.501	20.062
10515.44423	0	25.687	16620.482	19.383
10515.46063	0	39.765	16302.025	19.488
10515.47703	0	37.069	14699.739	20.274
10515.49344	0	39.636	13311.316	20.523
10515.50984	0	63.431	12679.171	19.961
10515.52625	0	63.243	12387.009	20.119
10515.54265	0	43.645	12375.510	19.412
10515.55906	0	39.683	12176.863	18.522
10515.57546	0	48.146	11764.658	18.494
10515.59186	0	42.379	11349.601	19.036
10515.60827	0	63.443	10849.981	19.163
10515.62467	0	53.174	10624.128	19.043
10515.64108	0	44.653	10647.337	19.145
10515.65748	0	34.467	10918.417	20.095
10515.67388	0	41.547	11163.225	21.369
10515.69029	0	29.837	11494.350	22.372
10515.70669	0	29.145	12600.919	22.711
10515.7231	0	35.358	13849.548	24.316
10515.7395	0	39.062	14489.126	24.499
10515.75591	0	38.757	15066.975	23.038
10515.77231	0	35.569	15589.781	20.296
10515.78871	0	47.196	15544.952	17.054
10515.80512	0	38.405	14865.921	14.815
10515.82152	0	23.624	12794.891	11.316
10515.83793	0	5.913	11833.935	10.053
10515.85433	0	5.913	10943.636	13.490
10516	0	111.677	9656.534	17.916
10516.0164	0	122.227	9017.939	17.460
10516.03281	0	70.171	10245.767	17.662
10516.04921	0	79.736	10310.440	18.421
10516.06562	0	72.925	10448.831	17.104
10516.08202	0	42.086	10780.750	16.696
10516.09843	0	46.915	11485.865	17.325
10516.11483	0	28.172	12420.105	18.398
10516.13123	0	18.009	12948.498	18.661
10516.14764	0	14.751	13271.442	19.006
10516.16404	0	16.239	13329.079	18.188
10516.18045	0	14.270	12866.295	17.454
10516.19685	0	10.425	12133.366	15.773
10516.21325	0	15.267	11627.529	14.106
10516.22966	0	17.541	11311.036	13.941
10516.24606	0	5.643	11616.450	15.042
10516.26247	0	8.738	12211.759	16.077

10516.27887	0	19.826	12133.974	15.807
10516.29528	0	15.946	12222.066	17.162
10516.31168	0	12.395	12957.543	17.302
10516.32808	0	14.575	13200.809	18.300
10516.34449	0	38.311	13330.108	18.049
10516.36089	0	388.848	14344.938	19.432
10516.3773	0	55.120	14847.994	18.965
10516.3937	0	23.859	14360.154	18.770
10516.4101	0	14.399	13942.970	17.531
10516.42651	0	20.283	13536.374	16.631
10516.44291	0	22.382	12940.130	16.517
10516.45932	0	16.544	13061.880	17.270
10516.47572	0	29.286	13794.341	17.775
10516.49213	0	22.874	14158.188	17.805
10516.50853	0	12.805	14237.446	18.739
10516.52493	0	23.964	14403.698	18.361
10516.54134	0	23.624	14507.801	18.220
10516.55774	0	18.209	14203.952	17.995
10516.57415	0	27.609	13918.872	18.376
10516.59055	0	25.652	13484.323	18.050
10516.60696	0	28.207	12672.136	18.023
10516.62336	0	31.618	11981.302	17.413
10516.63976	0	47.091	11265.528	17.688
10516.65617	0	25.453	11556.218	18.054
10516.67257	0	27.961	12337.389	18.834
10516.68898	0	26.848	12996.108	18.784
10516.70538	0	33.869	13766.598	19.065
10516.72178	0	23.483	14845.516	19.965
10516.73819	0	23.941	14979.140	20.430
10516.75459	0	25.570	15220.512	20.539
10516.771	0	22.171	15308.207	21.366
10516.7874	0	23.331	13511.061	20.024
10516.80381	0	21.948	11757.389	17.418
10516.85302	0	3.990	10031.203	15.265
10516.86942	0	1.857	7810.773	12.436
10516.88583	0	7.694	6141.009	9.875
10516.90223	0	9.464	5367.528	8.590
10516.91864	0	6.569	4675.619	8.089
10516.93504	0	10.847	4485.363	7.845
10517.01706	0	17.869	3664.925	7.036
10517.03346	0	18.244	2197.104	5.836
10517.04987	0	17.669	2000.818	5.904
10517.09908	0	25.828	2303.334	6.606
10517.11549	0	25.886	2491.440	6.368
10517.13189	0	20.916	3425.656	7.837
10517.14829	0	21.092	5130.059	9.700
10517.1647	0	23.694	6369.082	10.689
10517.1811	0	18.045	6750.155	10.768
10517.19751	0	17.752	7032.617	11.042
10517.21391	0	20.588	7454.732	10.781
10517.23031	0	16.837	7390.340	10.239
10517.24672	0	18.701	6149.306	9.591

10517.26312	0	20.764	8305.882	13.877
10517.27953	0	19.381	10041.230	16.925
10517.36155	0	29.215	11691.220	19.747
10517.37795	0	30.763	13335.764	22.846
10517.39436	0	37.057	16092.066	25.960
10517.41076	0	26.543	15173.719	23.117
10517.42717	0	24.714	14036.929	20.736
10517.44357	0	18.806	12657.832	18.964
10517.45997	0	23.226	11457.561	16.629
10517.47638	0	30.493	10439.972	15.424
10517.49278	0	19.381	9660.858	14.687
10517.50919	0	23.003	8960.769	14.771
10517.52559	0	28.348	8281.434	13.989
10517.54199	0	26.297	7981.348	13.771
10517.5584	0	27.692	7470.486	13.375
10517.5748	0	30.505	7388.190	13.248
10517.59121	0	20.717	7819.117	13.873
10517.60761	0	16.028	8509.484	14.747
10517.62402	0	21.338	8474.003	14.382
10517.64042	0	21.350	8063.598	13.083
10517.65682	0	21.315	8113.265	13.652
10517.67323	0	22.722	9017.915	14.007
10517.68963	0	45.555	9956.947	14.863
10517.70604	0	51.873	11161.939	16.489
10517.72244	0	31.360	12928.303	18.330
10517.73885	0	14.118	14192.593	20.329
10517.75525	0	20.354	14558.473	21.643
10517.77165	0	26.977	14713.249	21.814
10517.78806	0	25.453	15109.561	23.040
10517.80446	0	27.985	14737.183	22.867
10517.82087	0	27.199	14001.776	21.346
10517.83727	0	12.219	13201.206	19.488
10517.85367	0	17.892	12300.062	18.117
10517.87008	0	26.062	11214.903	16.032
10517.88648	0	29.731	10742.278	15.586
10517.90289	0	27.551	10398.392	14.835
10517.91929	0	25.722	9948.159	14.554
10517.9357	0	28.172	9792.098	14.935
10517.9521	0	38.956	9728.126	15.055
10517.9685	0	34.572	9443.887	14.388
10517.98491	0	24.140	9118.326	14.188
10518.00131	0	34.713	8925.265	14.116
10518.01772	0	29.063	8639.811	14.032
10518.03412	0	33.130	8706.097	14.095
10518.05052	0	34.080	9339.200	14.614
10518.06693	0	18.513	9404.083	14.578
10518.08333	0	9.265	9088.595	14.796
10518.09974	0	13.848	8908.927	14.405
10518.11614	0	25.253	8363.403	14.024
10518.13255	0	28.149	7455.364	14.346
10518.14895	0	30.294	7169.092	14.014
10518.16535	0	29.977	7380.570	13.943

10518.18176	0	33.001	7434.795	13.074
10518.19816	0	21.409	7870.490	12.869
10518.21457	0	12.500	8251.049	12.247
10518.23097	0	12.700	8248.735	11.639
10518.24738	0	7.448	8175.134	10.738
10518.26378	0	13.438	7914.665	11.178
10518.28018	0	18.162	7283.222	10.631
10518.29659	0	23.847	6650.352	10.460
10518.31299	0	23.003	6351.202	10.983
10518.3294	0	25.781	6085.171	11.760
10518.3458	0	35.979	6141.547	12.280
10518.3622	0	36.659	6352.254	12.598
10518.37861	0	42.895	6572.824	13.051
10518.39501	0	33.494	6704.250	13.867
10518.41142	0	35.428	6778.950	13.398
10518.42782	0	35.369	6633.594	13.455
10518.44423	0	49.330	6385.303	13.422
10518.46063	0	53.139	6280.662	13.429
10518.47703	0	39.390	6526.312	13.078
10518.49344	0	29.731	6553.027	14.080
10518.50984	0	23.800	6503.897	13.701
10518.52625	0	25.640	6333.252	14.285
10518.54265	0	35.651	5913.590	14.107
10518.55906	0	41.816	5402.260	13.968
10518.57546	0	56.961	5141.675	13.054
10518.59186	0	63.255	5013.919	12.805
10518.60827	0	54.968	5112.716	12.067
10518.62467	0	54.886	5668.385	11.779
10518.64108	0	57.371	6530.402	11.963
10518.65748	0	39.847	7235.003	12.420
10518.67388	0	25.488	7946.593	13.299
10518.69029	0	20.694	8429.782	13.767
10518.70669	0	25.042	8425.972	13.728
10518.7231	0	23.765	8138.976	13.842
10518.7395	0	18.490	8205.612	12.918
10518.75591	0	22.862	8402.763	12.143
10518.77231	0	21.456	9018.476	12.273
10518.78871	0	11.738	9998.083	13.650
10518.80512	0	19.873	10903.318	15.158
10518.82152	0	19.897	11487.291	17.305
10518.83793	0	19.135	11661.256	18.102
10518.85433	0	18.244	11692.365	18.899
10518.87073	0	16.615	11607.825	18.344
10518.88714	0	20.412	11396.955	17.661
10518.90354	0	16.826	11643.282	17.791
10518.91995	0	24.597	12746.252	20.785
10518.93	0	23.167	13962.486	23.645
10518.94	0	24.257	15090.372	27.738
10518.95	0	22.159	16329.185	31.971
10518.96	0	26.156	17613.341	36.140
10518.97	0	29.286	18254.438	38.141
10518.98	0	30.540	16588.788	35.802

10518.99	0	27.750	17322.675	37.951
10519	0	22.546	18185.044	39.564
10519.01	0	31.314	18815.435	40.658
10519.0164	0	33.060	18911.592	40.522
10519.03281	0	34.900	20309.154	43.018
10519.04921	0	30.516	19032.126	39.243
10519.06562	0	23.730	17938.973	36.335
10519.08202	0	22.534	17060.851	33.492
10519.11483	0	23.308	16710.491	32.545
10519.13123	0	24.855	16952.074	33.594
10519.14764	0	22.546	17312.905	34.684
10519.16404	0	28.031	17495.822	34.867
10519.18045	0	24.714	17623.882	35.311
10519.19685	0	24.820	17642.931	35.788
10519.21325	0	25.699	17570.569	34.655
10519.22966	0	27.973	17836.179	36.093
10519.24606	0	30.106	17903.680	36.338
10519.27887	0	29.098	17319.099	35.828
10519.29528	0	35.815	16776.333	35.320
10519.31168	0	44.758	16455.936	36.407
10519.32808	0	32.861	15718.473	35.278
10519.34449	0	25.394	14638.362	33.168
10519.36089	0	25.910	14686.510	33.994
10519.3773	0	33.505	14729.657	33.373
10519.4101	0	46.317	15008.636	32.824
10519.42651	0	48.849	15969.265	34.120
10519.44291	0	34.572	17235.962	37.055
10519.45932	0	22.065	17427.854	35.741
10519.47572	0	27.047	18031.600	36.348
10519.49213	0	30.305	18957.005	36.698
10519.50853	0	25.160	18845.143	35.440
10519.52493	0	31.349	18613.096	34.369
10519.54134	0	24.679	18846.311	36.019
10519.55774	0	20.506	18713.927	35.295
10519.57415	0	22.077	18107.422	34.556
10519.59055	0	22.241	18244.247	34.515
10519.60696	0	21.702	18542.323	35.219
10519.62336	0	26.660	18566.397	34.381
10519.63976	0	24.996	18676.250	35.089
10519.65617	0	25.136	18721.313	35.286
10519.67257	0	28.899	18541.224	35.675
10519.68898	0	25.253	18261.707	34.258
10519.70538	0	27.328	17521.789	32.231
10519.72178	0	25.406	15049.586	27.972
10519.73819	0	22.159	15604.460	28.589
10519.75459	0	16.826	15525.693	27.600
10519.88583	0	26.824	15212.028	27.478
10519.90223	0	20.998	15722.259	29.127
10519.91864	0	26.988	18286.622	33.779
10519.93504	0	27.270	18113.756	33.436
10519.95144	0	27.070	18400.869	33.892
10519.96785	0	24.937	18873.564	34.607

10519.98425	0	22.698	19334.058	35.377
10520.00066	0	23.694	19373.932	35.194
10520.01706	0	24.269	18997.347	34.674
10520.03346	0	22.557	18703.760	34.288
10520.04987	0	26.121	18683.238	33.386
10520.06627	0	26.097	18703.666	31.728
10520.08268	0	22.405	18901.705	30.811
10520.09908	0	22.968	19334.408	31.011
10520.11549	0	25.804	20349.870	31.619
10520.13189	0	24.761	20960.254	32.443
10520.14829	0	25.886	20378.478	32.207
10520.1647	0	25.171	19821.688	31.041
10520.1811	0	22.710	19238.579	29.672
10520.19751	0	23.425	17945.284	27.769
10520.21391	0	21.374	16934.334	25.507
10520.23031	0	24.386	18480.828	27.074
10520.31234	0	19.311	19680.749	28.930
10520.34514	0	27.539	20578.013	31.151
10520.36155	0	23.155	21833.304	33.194
10520.37795	0	22.616	23448.258	35.844
10520.39436	0	24.996	23882.107	36.359
10520.41076	0	24.245	24353.539	37.541
10520.42717	0	27.422	24899.064	38.441
10520.44357	0	33.646	25146.607	39.652
10520.45997	0	35.275	24595.122	41.398
10520.47638	0	35.170	23161.589	42.610
10520.49278	0	32.685	21795.557	42.873
10520.50919	0	31.126	20878.589	43.330
10520.52559	0	28.102	20041.253	43.858
10520.5584	0	29.684	19473.688	43.474
10520.5748	0	41.664	19509.004	42.987
10520.59121	0	39.085	19821.594	42.348
10520.60761	0	31.173	19567.671	41.257
10520.62402	0	32.157	17987.472	37.205
10520.64042	0	30.751	16826.351	33.503
10520.65682	0	28.242	16452.991	31.433
10520.67323	0	24.093	16129.252	30.993
10520.68963	0	37.362	15885.823	29.747
10520.70604	0	31.349	17306.805	32.761
10520.72244	0	26.930	18465.496	35.873
10520.73885	0	29.989	19172.130	37.993
10520.75525	0	31.384	19505.989	38.589
10520.78806	0	30.317	20132.571	38.991
10520.80446	0	29.696	20509.320	38.037
10520.82087	0	28.207	20657.925	37.480
10520.83727	0	27.469	19554.839	35.936
10520.85367	0	30.552	19127.955	34.554
10520.87008	0	32.263	18345.779	32.826
10521.3622	0	27.809	18036.345	33.160
10521.37861	0	37.139	18402.482	34.500
10521.39501	0	32.533	19054.050	34.806
10521.41142	0	28.301	18874.896	36.657

10521.42782	0	44.418	18817.001	39.884
10521.44423	0	316.584	18667.648	40.227
10521.46063	0	313.572	18700.230	40.243
10521.47703	0	33.001	19325.153	41.684
10521.49344	0	31.548	19959.238	41.234
10521.50984	0	28.559	20218.444	40.244
10521.52625	0	34.138	19897.533	39.704
10521.54265	0	37.913	19499.328	40.570
10521.55906	0	51.498	18903.692	42.231
10521.57546	0	39.753	18017.483	43.989
10521.59186	0	51.404	18063.645	45.689
10521.60827	0	40.011	18686.908	47.335
10521.62467	0	35.416	17761.970	43.733
10521.65748	0	31.923	16111.606	38.100
10521.67388	0	37.397	14942.491	32.860
10521.69029	0	38.264	13389.709	27.994
10521.70669	0	25.230	11607.708	24.298
10521.7231	0	33.095	11189.543	23.188
10521.7395	0	32.638	11421.823	23.527
10521.75591	0	30.739	11615.538	24.219
10521.77231	0	41.171	11696.713	24.242
10521.78871	0	35.299	11701.387	23.389
10521.80512	0	28.559	11546.004	23.627
10521.82152	0	23.776	11679.113	22.589
10521.83793	0	27.727	13040.073	23.537
10521.85433	0	32.157	14561.932	24.707
10521.87073	0	22.593	16102.981	27.005
10521.88714	0	25.957	15836.623	26.294
10521.91995	0	33.986	17152.988	27.282
10521.93635	0	24.632	17795.043	26.322
10522.6	0	19.299	18016.478	25.496
10522.6164	0	23.038	18001.075	24.286
10522.63281	0	23.378	19587.187	24.670
10522.64921	0	21.104	19271.652	25.012
10522.66562	0	20.201	18069.932	24.425
10522.68202	0	26.531	17094.018	23.910
10522.69843	0	24.738	17002.793	23.092
10522.71483	0	17.236	16748.308	22.879
10522.73123	0	21.045	16360.224	21.621
10522.74764	0	21.878	16277.717	21.247
10522.76404	0	17.505	16320.794	21.062
10522.78045	0	19.592	15518.330	21.479
10522.79685	0	21.702	14896.937	20.820
10522.81325	0	21.971	14770.443	20.783
10522.82966	0	20.330	14956.000	21.242
10522.84606	0	19.545	15039.185	21.449
10522.86247	0	20.401	15222.148	21.986
10522.87887	0	22.522	15553.483	23.311
10522.89528	0	21.538	15845.692	25.149
10522.91168	0	22.675	16338.043	26.315
10522.92808	0	27.891	16755.250	28.193
10522.94449	0	30.247	17193.563	29.034

10522.96089	0	28.453	17475.160	29.225
10522.9773	0	30.094	17430.588	28.557
10522.9937	0	24.116	16325.515	27.286
10523.0101	0	21.186	16363.753	26.691
10523.02651	0	20.108	16219.075	25.454
10523.09213	0	20.014	16188.760	25.378
10523.10853	0	24.034	16413.771	26.773
10523.12493	0	26.203	17605.207	28.675
10523.17415	0	28.137	17857.051	29.307
10523.19055	0	26.871	18348.000	30.213
10523.20696	0	22.452	18962.779	30.925
10523.22336	0	27.645	19353.925	30.950
10523.23976	0	23.050	19474.857	29.611
10523.25617	0	22.897	19542.989	29.615
10523.27257	0	18.490	19486.613	29.177
10523.28898	0	20.729	18917.271	28.209
10523.30538	0	20.670	18312.917	26.747
10523.32178	0	19.533	17776.111	26.396
10523.33819	0	130.256	17156.704	25.911
10523.35459	0	16.697	16956.211	25.966
10523.371	0	19.568	17165.469	26.615
10523.3874	0	21.151	16951.326	25.689
10523.40381	0	15.782	16362.468	24.030
10523.42021	0	20.108	15708.960	22.377
10523.43661	0	20.201	14528.649	20.546
10523.45302	0	17.154	13140.553	18.552
10523.46942	0	14.727	12436.653	17.723
10523.48583	0	16.134	12228.728	18.969
10523.50223	0	9.300	12078.603	18.334
10523.51864	0	16.169	12130.047	18.251
10523.53504	0	11.902	12161.624	18.455
10523.55144	0	22.089	12405.123	20.224
10523.56785	0	21.479	12789.842	20.665
10523.58425	0	24.503	12846.522	21.718
10523.60066	0	19.217	12717.550	22.235
10523.61706	0	22.827	12758.359	21.924
10523.63346	0	21.069	12656.359	21.165
10523.64987	0	23.155	12760.439	20.114
10523.66627	0	19.533	13517.419	20.798
10523.68268	0	21.385	14175.134	21.231
10523.69908	0	19.205	14512.662	22.342
10523.71549	0	20.741	15302.154	22.576
10523.73189	0	21.655	15630.076	23.393
10523.74829	0	24.796	15375.405	22.665
10523.7647	0	19.604	14822.331	21.485
10523.7811	0	21.045	13686.686	19.021
10523.79751	0	17.001	11440.919	16.201
10523.81391	0	9.910	9489.067	13.742
10523.83031	0	14.552	8292.209	11.860
10523.84672	0	6.417	7717.935	11.055
10523.86312	0	10.074	8091.038	11.495
10523.87953	0	8.913	8757.774	12.804

10523.89593	0	15.102	9201.159	13.145
10523.91234	0	12.864	9242.483	13.459
10523.92874	0	14.282	9282.310	13.341
10523.94514	0	15.630	9282.731	13.452
10523.96155	0	16.357	9319.193	13.059
10523.97795	0	16.943	9323.891	12.670
10523.99436	0	19.522	9558.111	13.427
10524.01076	0	10.777	9754.374	14.473
10524.02717	0	89.547	9546.985	14.039
10524.04357	0	7.964	10049.340	14.939
10524.05997	0	16.532	10928.514	16.219
10524.07638	0	13.415	11693.183	16.838
10524.09278	0	16.638	13032.173	16.942
10524.10919	0	18.994	14579.532	18.650
10524.12559	0	19.006	15142.423	19.088
10524.14199	0	17.880	15007.000	19.362
10524.1584	0	20.237	14722.177	18.613
10524.1748	0	19.897	14567.822	19.489
10524.19121	0	23.566	14970.164	20.251
10524.20761	0	19.756	15838.984	20.890
10524.22402	0	23.507	17041.288	21.791
10524.24042	0	22.112	18337.061	22.778
10524.25682	0	23.179	19173.603	23.451
10524.27323	0	21.538	19407.566	23.689
10524.28963	0	22.522	19105.143	22.776
10524.30604	0	22.651	17801.564	21.056
10524.32244	0	22.089	18530.356	21.461
10524.33885	0	21.526	18457.432	22.868
10524.37165	0	24.163	18439.505	23.402
10524.38806	0	23.226	18712.898	25.115
10524.40446	0	26.191	19621.195	27.667
10524.42087	0	26.238	18712.898	28.463
10524.43727	0	24.574	19056.340	27.933
10524.45367	0	26.156	19884.795	27.218
10524.47008	0	26.883	20633.407	26.048
10524.48648	0	24.527	22057.521	25.762
10524.50289	0	28.102	22933.305	24.503
10524.51929	0	27.785	22986.712	23.955
10524.5357	0	33.166	22631.911	24.914
10524.5521	0	31.032	23178.137	27.676
10524.5685	0	29.016	23221.377	29.256
10524.58491	0	37.960	22678.260	30.979
10524.60131	0	28.231	22111.910	31.267
10524.61772	0	31.032	21555.026	32.467
10524.63412	0	28.020	20386.261	32.342
10524.65052	0	28.582	19159.602	32.076
10524.66693	0	31.513	17925.534	32.325
10524.68333	0	36.284	16575.442	32.847
10524.69974	0	34.279	15954.727	33.296
10524.71614	0	25.863	15652.164	34.144
10524.73255	0	25.699	15383.819	34.352
10524.74895	0	29.555	15415.396	33.113

10524.76535	0	32.685	15445.360	32.413
10524.78176	0	32.615	14680.480	29.765
10524.79816	0	33.412	13878.905	27.342
10524.81457	0	37.256	13298.251	26.597
10524.83097	0	38.651	13153.362	26.890
10524.84738	0	32.662	13217.193	27.911
10524.86378	0	38.194	13285.021	29.284
10524.88018	0	47.091	13267.141	29.662
10524.89659	0	44.114	13363.858	29.759
10524.91299	0	36.987	14066.426	32.000
10524.9294	0	19.650	15285.956	33.611
10524.9458	0	27.973	16834.087	36.185
10524.9622	0	27.516	18455.001	40.152
10524.97861	0	31.314	17682.993	39.565
10524.99	0	33.939	19656.581	42.025
10525	0	23.530	20206.126	42.953
10525.01	0	38.194	21034.908	43.173
10525.0164	0	35.135	21756.220	44.458
10525.03281	0	34.478	23883.509	50.146
10525.04921	0	36.061	22714.207	50.037
10525.06562	0	34.689	22540.312	50.167
10525.08202	0	328.775	22178.242	51.455
10525.09843	0	318.108	21391.883	48.957
10525.11483	0	35.486	20667.461	45.629
10525.13123	0	26.344	25851.395	45.477
10525.14764	0	31.689	33187.509	44.952
10525.18045	0	32.673	35458.238	41.086
10525.19685	0	32.111	37531.349	39.138
10525.21325	0	31.970	40137.690	37.188
10525.22966	0	27.246	36357.372	33.688
10525.24606	0	24.034	30772.686	31.607
10525.26247	0	27.141	29910.926	31.011
10525.27887	0	24.081	29218.011	29.227
10525.29528	0	29.872	28534.820	28.720
10525.31168	0	28.782	28094.754	28.041
10525.32808	0	31.149	27294.721	26.908
10525.34449	0	29.004	26406.315	27.429
10525.36089	0	28.559	25626.220	27.921
10525.3773	0	25.711	27254.707	27.836
10525.3937	0	24.703	29978.614	27.397
10525.4101	0	23.073	31059.192	26.711
10525.42651	0	25.277	32122.311	24.874
10525.44291	0	32.181	34268.695	24.083
10525.45932	0	29.919	34458.110	24.095
10525.47572	0	26.273	33355.234	24.180
10525.49213	0	31.278	33514.988	24.627
10525.50853	0	27.270	34461.663	26.044
10525.52493	0	31.208	34648.763	28.288
10525.54134	0	32.111	34280.125	28.722
10525.55774	0	35.686	35043.228	29.584
10525.57415	0	32.732	35339.597	30.790
10525.59055	0	33.494	33498.697	29.004

10525.60696	0	27.692	31462.118	26.925
10525.62336	0	25.382	29479.928	25.412
10525.63976	0	24.116	26926.808	23.811
10525.65617	0	23.448	25548.972	23.067
10525.67257	0	20.823	26048.031	24.596
10525.68898	0	21.971	25999.042	25.660
10525.70538	0	24.679	26211.899	26.685
10525.72178	0	21.034	26802.440	26.872
10525.73819	0	21.819	26669.495	26.233
10525.75459	0	25.757	26316.189	25.314
10525.771	0	25.863	26248.852	25.061
10525.7874	0	27.094	25428.672	24.694
10525.80381	0	23.050	24652.596	24.679
10525.82021	0	27.703	24103.168	25.140
10525.83661	0	31.020	23130.363	25.619
10525.85302	0	27.012	22774.813	26.011
10525.86942	0	23.706	23662.471	26.457
10525.88583	0	25.289	23419.673	27.816
10525.90223	0	23.437	22815.622	28.335
10525.91864	0	17.095	22258.365	26.724
10525.93504	0	19.615	22268.462	25.497
10525.95144	0	21.385	22145.730	24.562
10525.96785	0	21.092	22211.759	22.971
10525.98425	0	25.042	21537.660	19.882
10526.00066	0	23.671	20310.743	18.671
10526.01706	0	22.135	20616.929	17.803
10526.03346	0	19.029	21020.767	17.380
10526.04987	0	28.770	21548.435	16.123
10526.06627	0	26.859	25944.770	19.577
10526.08268	0	435.899	30577.990	20.349
10526.09908	0	828.247	32968.645	23.658
10526.11549	0	0.000	32967.477	23.313
10526.13189	0	22.194	31541.516	24.051
10526.14829	0	0.000	26490.084	21.002
10526.1647	0	4.940	21740.116	21.411
10526.1811	0	15.302	16873.050	18.144
10526.19751	0	20.729	14077.902	19.104
10526.21391	0	15.419	12906.730	19.585
10526.23031	0	15.243	12724.445	20.494
10526.24672	0	27.457	12561.932	20.707
10526.26312	0	13.754	12518.693	21.478
10526.27953	0	23.788	12510.816	22.279
10526.29593	0	28.078	12245.977	21.898
10526.31234	0	30.001	11724.737	21.392
10526.32874	0	32.638	11629.959	21.403
10526.34514	0	30.997	12055.324	21.564
10526.36155	0	34.232	12363.893	22.585
10526.37795	0	13.239	13585.154	26.431
10526.39436	0	21.573	15026.540	29.557
10526.41076	0	34.795	16168.636	33.874
10526.42717	0	33.857	16630.836	37.133
10526.44357	0	33.998	17110.239	39.240

10526.45997	0	35.803	17187.930	39.468
10526.47638	0	40.105	17773.610	42.937
10526.49278	0	46.927	18414.730	45.637
10526.50919	0	33.998	18853.533	47.236
10526.52559	0	34.127	19109.327	46.914
10526.54199	0	34.033	19488.203	45.998
10526.5584	0	36.049	19929.250	43.476
10526.5748	0	28.512	20144.164	39.730
10526.59121	0	30.188	20233.309	36.593
10526.60761	0	29.649	20295.317	35.337
10526.62402	0	30.950	20359.990	34.746
10526.64042	0	29.555	20407.975	34.840
10526.65682	0	29.731	20485.737	34.873
10526.67323	0	26.742	21040.517	35.660
10526.68963	0	29.145	22450.841	35.522
10526.70604	0	29.778	24134.745	36.326
10526.72244	0	27.774	25155.255	35.701
10526.73885	0	30.470	26037.677	35.128
10526.75525	0	30.247	26533.254	35.638
10526.77165	0	29.708	26527.130	35.189
10526.78806	0	24.714	26078.112	32.543
10526.80446	0	30.786	25352.850	33.058
10526.82087	0	27.457	25073.566	32.769
10526.83727	0	30.188	25125.922	31.463
10526.85367	0	26.625	24661.221	31.295
10526.87008	0	27.481	23999.696	32.106
10526.88648	0	33.799	23648.144	31.045
10526.90289	0	25.769	23048.861	30.772
10526.91929	0	26.953	22656.827	30.471
10526.9357	0	31.982	23435.870	30.361
10526.9521	0	25.359	24410.663	30.771
10526.9685	0	27.820	25401.232	29.983
10526.98491	0	26.988	26258.598	30.464
10527.00131	0	23.882	26569.108	29.115
10527.01772	0	25.101	25947.668	27.857
10527.03412	0	26.754	24767.053	26.711
10527.05052	0	27.445	23603.618	26.273
10527.06693	0	26.074	23470.533	24.682
10527.08333	0	22.862	23808.926	25.546
10527.09974	0	22.710	24052.168	26.864
10527.11614	0	24.937	24552.700	27.161
10527.13255	0	25.160	25076.465	26.901
10527.14895	0	22.804	24629.948	27.671
10527.16535	0	26.812	24120.114	26.682
10527.18176	0	26.859	23693.627	25.592
10527.19816	0	25.054	23446.248	25.525
10527.21457	0	21.268	23575.641	25.216
10527.23097	0	22.253	24640.863	25.114
10527.24738	0	22.557	25574.262	26.502
10527.26378	0	27.973	26560.951	27.033
10527.28018	0	26.215	27515.035	27.050
10527.29659	0	25.207	27515.923	27.288

10527.31299	0	27.809	27087.146	27.095
10527.3294	0	23.648	27499.702	26.929
10527.3458	0	22.124	27514.824	26.551
10527.3622	0	23.589	27070.341	26.989
10527.37861	0	26.203	27357.852	27.760
10527.39501	0	26.273	27214.272	27.452
10527.41142	0	26.238	26100.223	26.383
10527.42782	0	25.382	25862.497	26.092
10527.44423	0	25.382	26607.206	26.742
10527.46063	0	26.625	26853.557	26.786
10527.47703	0	28.618	27306.758	28.157
10527.49344	0	25.124	28113.920	29.430
10527.50984	0	24.902	28406.689	31.031
10527.52625	0	22.768	28550.012	30.741
10527.54265	0	26.883	29091.704	29.899
10527.55906	0	25.171	30286.389	28.615
10527.57546	0	23.519	31105.517	27.960
10527.59186	0	24.679	31629.562	26.919
10527.60827	0	24.398	31098.014	26.085
10527.62467	0	20.787	29209.761	25.347
10527.64108	0	24.105	26472.835	24.701
10527.65748	0	23.026	24731.106	24.828
10527.67388	0	26.578	23562.973	24.666
10527.69029	0	22.405	23184.144	24.628
10527.70669	0	26.355	24347.299	25.770
10527.7231	0	23.624	25909.500	25.628
10527.7395	0	27.152	26344.330	24.878
10527.75591	0	26.285	26750.131	24.135
10527.77231	0	26.812	27131.625	23.017
10527.78871	0	28.664	27125.595	21.986
10527.80512	0	25.500	27280.440	22.634
10527.82152	0	25.828	27818.018	22.438
10527.83793	0	23.460	27968.073	22.896
10527.85433	0	27.316	28217.298	24.349
10527.87073	0	1.423	28800.757	24.286
10527.88714	0	26.883	29345.464	24.087
10527.90354	0	25.148	29973.028	24.939
10527.91995	0	23.941	29764.821	24.846
10527.93635	0	26.039	25979.128	21.151
10527.95276	0	24.023	26137.223	21.846
10527.96916	0	19.287	25989.950	22.296
10528.01	0	30.305	25499.281	21.361
10528.0164	0	27.809	25653.286	21.129
10528.03281	0	29.133	29225.304	23.634
10528.04921	0	25.992	29175.683	22.976
10528.06562	0	23.741	29683.647	22.131
10528.08202	0	27.492	31141.348	23.855
10528.09843	0	26.965	33025.862	25.741
10528.11483	0	29.649	34015.987	27.069
10528.13123	0	32.204	35423.389	28.483
10528.14764	0	26.344	35539.974	28.976
10528.18045	0	28.911	34624.969	27.882

10528.19685	0	29.907	33692.108	26.149
10528.21325	0	30.130	33430.238	25.297
10528.22966	0	32.626	32206.033	24.702
10528.24606	0	30.282	31720.600	25.304
10528.26247	0	34.900	30509.320	24.715
10528.27887	0	34.830	29566.969	24.725
10528.29528	0	28.957	30565.929	25.640
10528.31168	0	28.571	31051.759	26.181
10528.34449	0	31.220	31021.491	26.764
10528.36089	0	32.955	31220.909	27.870
10528.3773	0	36.541	30340.053	28.627
10528.3937	0	33.177	27569.143	29.060
10528.4101	0	29.532	25424.371	28.165
10528.42651	0	29.075	24054.973	27.197
10528.44291	0	29.614	23583.915	27.355
10528.45932	0	33.048	23457.701	26.489
10528.47572	0	34.842	23712.092	26.303
10528.49213	0	30.669	24181.000	27.158
10528.50853	0	34.701	24430.179	27.804
10528.54134	0	38.405	24642.008	28.443
10528.55774	0	39.226	25139.338	30.627
10528.57415	0	35.182	25355.865	30.772
10528.59055	0	33.130	25732.730	30.872
10528.60696	0	36.799	26014.935	31.563
10528.62336	0	32.697	26414.286	32.379
10528.63976	0	33.423	27082.425	31.489
10528.65617	0	34.385	27566.151	31.411
10528.67257	0	32.240	27513.515	31.342
10528.70538	0	30.751	27906.064	31.363
10528.72178	0	35.627	28207.622	30.452
10528.73819	0	29.766	28491.066	30.615
10528.75459	0	28.219	29025.278	30.448
10528.771	0	32.415	29753.509	31.167
10528.7874	0	33.072	29630.380	30.299
10528.80381	0	31.267	28823.289	29.088
10528.82021	0	29.766	28740.502	29.213
10528.83661	0	32.521	29120.920	30.317
10528.86942	0	29.696	29351.331	30.739
10528.88583	0	30.106	30958.104	31.409
10528.90223	0	29.286	33279.669	32.878
10528.91864	0	30.997	33756.337	32.138
10528.93504	0	29.262	34287.324	31.441
10528.95144	0	33.107	35293.155	30.975
10528.96785	0	29.016	34997.020	30.680
10528.98425	0	27.059	35720.810	30.782
10529.00066	0	34.736	37327.326	31.827
10529.01706	0	30.997	37400.577	30.807
10529.03346	0	34.349	36416.576	29.461
10529.04987	0	34.162	35191.857	27.688
10529.06627	0	31.700	32999.825	26.270
10529.08268	0	31.067	29868.130	23.505
10529.09908	0	28.758	28396.265	22.203

10529.11549	0	26.531	30242.004	23.120
10529.13189	0	30.364	32093.983	24.594
10529.1647	0	36.002	33557.270	24.581
10529.1811	0	30.223	36162.980	26.857
10529.19751	0	34.584	38438.874	29.221
10529.21391	0	38.452	38568.547	30.130
10529.23031	0	35.217	38784.116	30.525
10529.24672	0	35.569	39040.564	30.879
10529.26312	0	43.727	39430.658	31.430
10529.27953	0	38.593	39612.336	31.248
10529.29593	0	41.781	38385.443	30.903
10529.31234	0	44.606	37125.221	30.447
10529.32874	0	36.225	36293.704	31.490
10529.34514	0	41.125	35433.884	30.319
10529.36155	0	42.578	34525.050	30.540
10529.37795	0	44.864	34194.066	30.628
10529.39436	0	43.938	34077.201	30.889
10529.41076	0	46.235	33981.769	30.245
10529.42717	0	38.393	33607.895	31.502
10529.44357	0	40.105	32720.050	31.790
10529.45997	0	39.448	32013.697	31.625
10529.47638	0	40.210	31887.833	32.731
10529.49278	0	41.640	30698.431	33.200
10529.50919	0	42.484	28961.213	31.727
10529.54199	0	37.889	27734.437	31.121
10529.5584	0	372.602	26856.665	31.052
10529.5748	0	384.206	25814.208	30.893
10529.59121	0	43.750	25323.867	29.725
10529.60761	0	44.137	25463.380	29.318
10529.62402	0	41.711	25724.012	27.565
10529.64042	0	41.054	26888.897	25.992
10529.65682	0	36.905	27753.556	24.123
10529.67323	0	42.355	28634.763	23.699
10529.68963	0	39.788	29781.697	24.557
10529.70604	0	40.046	31119.003	25.234
10529.72244	0	47.361	32130.211	24.792
10529.73885	0	40.585	34579.649	24.918
10529.75525	0	36.975	38569.856	26.287
10529.77165	0	35.299	44064.907	26.485
10529.78806	0	14.833	45834.005	25.546
10529.80446	0	32.380	46557.188	24.450
10529.82087	0	32.837	56701.025	20.000
10529.83727	0	53.221	51343.501	15.606
10529.85367	0	458.627	43183.793	12.020
10529.88648	0	27.340	39220.793	10.724
10529.90289	0	32.193	37740.794	12.185
10529.91929	0	35.205	21423.600	12.308
10529.9357	0	332.244	17614.837	10.902
10530.19816	0	22.604	14720.050	8.754
10530.21457	0	6.557	11123.281	6.744
10530.23097	0	10.695	5353.083	2.638
10530.24738	0	1.318	3333.474	2.755

10530.26378	0	0.000	3078.428	2.940
10530.28018	0	0.000	2920.871	3.418
10530.3458	0	0.000	2797.018	3.446
10530.3622	0	0.000	2749.571	3.430
10530.37861	0	0.000	3124.239	3.499
10530.39501	0	0.000	3262.677	3.849
10530.41142	0	0.000	3503.044	3.732
10530.42782	0	0.000	3470.743	3.712
10530.44423	0	0.000	3434.865	3.770
10530.47703	0	0.000	3406.163	3.598
10530.49344	0	0.000	3381.669	3.905
10530.50984	0	0.000	3307.810	4.322
10530.52625	0	0.000	3313.022	4.318
10530.54265	0	0.000	5542.241	4.684
10530.55906	0	0.000	11095.911	6.467
10530.57546	0	0.000	11732.707	5.880
10530.59186	0	11.832	11643.142	5.652
10530.62467	0	0.000	11763.957	5.897
10530.64108	0	0.000	9314.728	5.559
10530.65748	0	0.000	3523.052	4.473
10530.67388	0	0.000	2900.934	4.664
10530.69029	0	0.000	2979.560	5.131
10530.70669	0	0.000	2990.499	4.819
10530.7395	0	0.000	3275.836	4.702
10530.77231	0	0.075	3545.373	4.154
10530.78871	0	0.000	3564.211	4.031
10530.80512	0	0.000	3717.351	4.319
10530.82152	0	0.000	5493.532	4.431
10530.83793	0	0.000	6927.298	3.783
10530.85433	0	0.000	6753.123	3.831
10530.87073	0	0.000	6666.877	4.036
10530.88714	0	0.000	6374.762	3.428
10530.90354	0	0.000	4603.957	3.680
10530.91	0	0.000	3146.396	4.566
10530.93	0	0.000	3196.134	4.622
10530.96	0	0.000	3208.475	4.919
10530.97	0	0.000	3230.633	5.352
10530.98	0	0.000	3052.811	5.522
10530.99	0	0.000	3389.966	4.988
10531	0	0.000	3725.672	4.424
10531.6706	0	0.000	4021.316	3.884
10531.68701	0	0.000	4596.945	3.520
10531.70341	0	0.000	4996.085	2.831
10531.71982	0	0.000	4557.772	2.914
10531.73622	0	0.000	4066.075	3.403
10531.75262	0	0.000	3543.643	3.300
10531.76903	0	0.000	2844.278	3.309
10531.78543	0	0.000	2391.614	3.463
10531.80184	0	0.000	2232.397	3.804
10531.81824	0	0.000	2244.575	3.895
10531.83465	0	0.000	2351.856	3.961
10531.85105	0	0.000	2390.959	4.069

10531.86745	0	0.000	2485.339	4.353
10531.88386	0	0.000	2861.200	4.087
10531.90026	0	0.000	3339.247	3.925
10531.91667	0	1.423	3855.228	4.095
10531.93307	0	0.000	4361.042	3.704
10531.94948	0	0.000	4346.177	3.254
10531.96588	0	0.000	4022.625	3.191
10531.98228	0	1.247	3495.495	3.214
10531.99869	0	0.603	2847.503	3.595
10532.01509	0	0.000	2262.969	3.485
10532.0315	0	0.000	2078.697	3.784
10532.0479	0	1.705	2453.856	4.124
10532.0643	0	2.009	3825.240	4.218
10532.08071	0	0.000	4122.404	3.630
10532.11352	0	0.000	4538.162	4.264
10532.12992	0	0.000	5110.052	4.717
10532.14633	0	0.000	5361.311	4.201
10532.16273	0	0.000	4375.136	4.162
10532.17913	0	0.000	4224.684	4.653
10532.19554	0	0.000	3915.998	4.513
10532.21194	0	9.910	3565.006	4.173
10532.22835	0	21.467	3043.859	4.637
10532.24475	0	0.000	2758.943	4.704
10532.26115	0	0.000	2796.901	4.222
10532.27756	0	0.000	2798.350	4.323
10532.29396	0	0.000	2636.586	4.090
10532.31037	0	0.000	2411.083	4.597
10532.32677	0	0.000	2403.113	4.284
10532.34318	0	0.000	2366.044	4.613
10532.35958	0	0.000	2317.101	4.157
10532.37598	0	0.000	2378.525	4.400
10532.39239	0	0.000	2518.319	4.146
10532.40879	0	0.000	2407.017	4.571
10532.4252	0	0.000	2266.989	4.313
10532.4416	0	0.000	2562.704	4.658
10532.45801	0	4.119	2594.140	4.874
10532.55643	0	0.000	2752.282	4.582
10532.57283	0	0.000	3280.931	4.709
10532.58924	0	7.390	3817.621	4.954
10532.60564	0	4.869	3799.390	4.751
10532.62205	0	0.000	3950.005	4.669
10532.63845	0	0.000	3759.656	4.704
10532.65486	0	1.353	3227.921	4.603
10532.67126	0	0.000	2758.522	4.643
10532.68766	0	8.679	2558.146	5.037
10532.70407	0	0.000	2704.274	4.655
10532.72047	0	0.000	3018.874	4.853
10532.73688	0	0.000	3443.093	4.964
10532.75328	0	0.000	4285.991	5.272
10532.76969	0	0.000	5060.080	5.370
10532.78609	0	0.000	4991.294	5.934
10532.80249	0	0.000	5100.983	5.954

10532.8189	0	0.000	5163.739	5.610
10532.8353	0	0.000	4659.865	4.990
10532.85171	0	0.000	3866.120	4.279
10532.86811	0	2.033	3605.465	3.620
10532.88451	0	3.779	3353.083	3.734
10532.90092	0	4.834	3229.955	3.706
10532.93373	0	31.220	3191.273	3.579
10532.95013	0	76.536	3461.674	3.437
10532.96654	0	17.318	3691.197	3.854
10532.98294	0	0.000	3730.159	4.108
10532.99934	0	0.000	3548.201	3.874
10533.01575	0	0.000	3320.081	4.445
10533.03215	0	0.000	3147.425	4.735
10533.04856	0	0.000	3433.066	4.583
10533.06496	0	0.000	4088.887	3.332
10533.08136	0	0.000	4462.294	3.313
10533.09777	0	0.000	4442.146	2.866
10533.11417	0	0.000	4428.566	3.340
10533.13058	0	0.000	3988.921	3.491
10533.14698	0	0.000	3217.240	3.973
10533.16339	0	0.000	2784.981	4.108
10533.17979	0	0.000	2783.999	4.096
10533.19619	0	0.000	2657.201	3.720
10533.2126	0	0.000	2574.788	3.733
10533.229	0	0.000	2508.689	4.108
10533.24541	0	0.000	2384.111	4.115
10533.26181	0	0.000	2363.777	4.152
10533.27822	0	0.000	2398.813	4.204
10533.29462	0	1.247	2444.834	4.163
10533.31102	0	0.000	2436.326	4.246
10533.32743	0	0.697	2513.971	4.024
10533.34383	0	2.279	2742.068	4.002
10533.36024	0	0.000	3329.383	3.867
10533.37664	0	0.000	3707.254	3.624
10533.39304	0	0.000	4691.115	3.705
10533.40945	0	0.000	4959.553	4.065
10533.44226	0	0.000	5022.496	4.263
10533.45866	0	0.000	4764.482	4.338
10533.47507	0	0.000	4619.383	4.339
10533.49147	0	0.000	4060.419	3.868
10533.50787	0	0.000	4101.555	3.775
10533.52428	0	0.000	4063.855	4.107
10533.54068	0	0.000	3967.021	4.226
10533.55709	0	0.000	3945.962	4.421
10533.57349	0	0.000	3658.077	4.627
10533.5899	0	0.000	3609.905	4.708
10533.6063	0	0.000	3499.562	4.306
10533.6227	0	0.000	3558.555	4.286
10533.63911	0	0.000	3659.316	4.476
10533.65551	0	0.000	3731.982	5.111
10533.67192	0	0.000	3696.082	5.072
10533.68832	0	0.000	3713.775	4.771

10533.70472	0	0.000	3719.758	4.741
10533.72113	0	0.000	3483.808	4.402
10533.75394	0	0.000	3352.172	3.817
10533.77034	0	0.000	3196.064	3.608
10533.78675	0	0.000	3182.812	4.008
10533.80315	0	0.000	3078.498	3.873
10533.81955	0	0.000	3138.216	4.154
10533.83596	0	0.000	3163.833	3.882
10533.85236	0	0.000	3097.313	4.530
10533.86877	0	0.000	3102.549	4.521
10533.88517	0	0.000	3028.573	5.183
10533.90157	0	0.000	2880.132	5.006
10533.91798	0	0.000	2754.152	4.891
10533.93438	0	0.000	2836.635	4.242
10533.95079	0	0.000	2660.379	4.376
10533.96719	0	0.000	2381.704	3.588
10533.9836	0	0.000	2620.201	3.668
10534	0	0.000	3134.009	4.112
10534.01	0	0.000	3443.373	4.519
10534.0164	0	0.000	3627.762	4.386
10534.03281	0	0.000	3789.877	4.658
10534.04921	0	0.000	3688.322	4.758
10534.06562	0	0.000	3305.099	4.753
10534.08202	0	0.000	3056.831	4.788
10534.09843	0	0.000	3060.244	4.900
10534.11483	0	0.000	3218.105	5.196
10534.13123	0	0.000	3439.447	5.085
10534.14764	0	0.000	5359.441	4.392
10534.16404	0	0.000	10249.483	3.820
10534.18045	0	0.000	16739.240	4.076
10534.19685	0	0.000	20656.429	4.271
10534.22966	0	0.000	22228.027	4.950
10534.24606	0	0.000	20481.272	5.947
10534.27887	0	0.000	15489.488	6.175
10534.29528	0	0.000	8823.125	5.363
10534.31168	0	0.000	4730.475	4.724
10534.32808	0	0.000	2948.451	3.603
10534.34449	0	0.000	2731.386	2.885
10534.36089	0	0.000	2758.592	3.154
10534.42651	0	0.000	2770.419	3.230
10534.45932	0	0.000	2901.518	3.379
10534.47572	0	0.000	2758.195	3.820
10534.49213	0	0.000	2861.340	4.041
10534.50853	0	0.000	2839.837	3.907
10534.52493	0	0.000	2932.838	4.289
10534.54134	0	0.000	2858.699	4.445
10534.55774	0	0.000	2854.796	4.464
10534.57415	0	0.000	2742.979	4.352
10534.59055	0	0.000	2774.556	3.982
10534.60696	0	0.000	2769.367	3.909
10534.62336	0	0.000	2737.954	3.799
10534.63976	0	0.000	2751.183	3.792

10534.65617	0	0.017	2752.516	3.960
10534.67257	0	0.000	2755.975	3.800
10534.68898	0	0.000	2719.560	3.929
10534.70538	0	0.000	2864.799	3.605
10534.73819	0	0.000	2872.325	3.595
10534.75459	0	0.000	2758.195	3.299
10534.80381	0	0.000	2594.257	3.905
10534.82021	0	0.000	2385.677	3.737
10534.83661	0	0.000	2136.685	3.800
10534.85302	0	0.000	1943.391	3.733
10534.86942	0	0.000	1911.907	4.086
10534.88583	0	0.000	1896.645	3.469
10534.90223	0	0.000	1980.764	3.174
10534.91864	0	0.000	1972.467	3.541
10534.93504	0	0.000	2004.114	3.592
10534.95144	0	0.591	2377.473	3.601
10534.96785	0	1.435	2865.080	4.085
10534.98425	0	0.000	3116.970	4.468
10535.00066	0	0.000	3432.996	3.973
10535.01706	0	0.000	3807.056	4.627
10535.03346	0	0.000	3696.502	4.710
10535.04987	0	0.000	3403.873	4.741
10535.06627	0	0.000	3325.200	4.419
10535.08268	0	0.000	2827.145	4.371
10535.09908	0	0.000	2702.404	3.895
10535.11549	0	3.838	2673.118	3.861
10535.1647	0	2.103	2699.436	3.883
10535.1811	0	0.000	2740.665	4.034
10535.19751	0	7.237	3210.953	4.133
10535.21391	0	5.866	3579.287	4.496
10535.23031	0	0.000	4349.355	4.346
10535.24672	0	0.000	5702.509	4.738
10535.26312	0	0.000	7132.887	5.516
10535.27953	0	0.000	7875.516	6.303
10535.29593	0	0.000	7936.122	5.901
10535.31234	0	0.000	7431.570	5.938
10535.32874	0	0.000	6269.981	5.892
10535.34514	0	0.000	4861.270	4.970
10535.36155	0	0.000	4063.364	4.347
10535.37795	0	0.000	3806.005	4.320
10535.41076	0	7.308	3656.067	4.234
10535.42717	0	0.000	3533.406	3.742
10535.44357	0	0.000	3705.244	4.108
10535.45997	0	0.000	3943.204	4.971
10535.47638	0	0.000	3916.559	4.753
10535.49278	0	0.368	3929.788	4.828
10535.50919	0	0.000	3990.090	5.349
10535.52559	0	0.000	3896.294	5.330
10535.54199	0	0.000	3801.634	4.331
10535.5584	0	0.000	3774.358	4.535
10535.5748	0	0.000	3940.189	4.530
10535.59121	0	0.000	4996.436	4.756

10535.60761	0	0.000	6915.916	4.255
10535.64042	0	9.851	9128.773	4.353
10535.65682	0	0.000	11793.967	4.060
10535.67323	0	0.000	13275.929	4.228
10535.68963	0	0.000	12101.485	3.422
10535.70604	0	0.000	10325.351	3.650
10535.72244	0	0.000	8646.753	3.992
10535.73885	0	0.000	6263.039	4.135
10535.75525	0	0.000	4398.485	3.949
10535.78806	0	0.000	4321.472	4.045
10535.80446	0	0.000	3992.918	4.504
10535.82087	0	0.000	3294.815	3.914
10535.83727	0	0.000	2881.417	3.662
10535.85367	0	0.000	2923.979	3.257
10535.87008	0	0.000	2912.667	3.285
10535.88648	0	0.000	2783.064	3.291
10535.90289	0	0.000	2675.128	3.419
10535.91929	0	0.000	2612.956	3.396
10535.9357	0	0.000	2591.873	4.048
10535.9521	0	0.000	2457.783	4.669
10535.9685	0	0.000	2535.685	4.560
10535.98491	0	0.000	2656.686	4.914
10536.00131	0	0.000	2718.531	5.233
10536.01772	0	0.000	2705.162	5.013
10536.03412	0	0.000	2362.748	4.254
10536.05052	0	0.000	1967.582	3.805
10536.06693	0	2.349	1497.505	3.465
10536.08333	0	4.764	1040.237	3.974
10536.09974	0	8.093	606.715	3.822
10536.11614	0	7.167	776.520	3.726
10536.13255	0	5.221	895.979	3.934
10536.14895	0	4.600	1070.154	3.852
10536.16535	0	5.772	2193.645	3.319
10536.18176	0	2.830	3076.278	3.336
10536.24738	0	0.000	3817.831	3.793
10536.26378	0	0.000	4501.350	4.042
10536.28018	0	0.000	4987.507	4.292
10536.29659	0	0.000	4759.130	4.165
10536.31299	0	0.000	5129.171	4.627
10536.3294	0	1.529	5250.196	5.115
10536.3458	0	3.686	5480.840	5.453
10536.3622	0	1.576	7387.535	6.401
10536.37861	0	0.000	10304.970	6.584
10536.39501	0	0.000	10731.854	5.867
10536.41142	0	0.000	11297.152	5.343
10536.44423	0	0.000	12061.003	4.914
10536.46063	0	0.000	10979.373	3.832
10536.47703	0	0.000	8399.046	3.609
10536.49344	0	0.000	7493.742	3.810
10536.50984	0	0.000	6556.229	3.484
10536.52625	0	0.000	5525.272	3.152
10536.54265	0	0.000	4751.253	3.190

10536.55906	0	0.000	4439.715	3.056
10536.57546	0	0.000	5112.903	3.261
10536.59186	0	0.000	7426.591	4.698
10536.60827	0	0.000	9956.713	6.374
10536.62467	0	11.621	10732.181	6.952
10536.64108	0	10.613	10189.625	6.980
10536.65748	0	0.000	9241.758	6.538
10536.69029	0	0.000	6826.841	5.110
10536.70669	0	0.000	3937.547	3.440
10536.7231	0	0.000	2701.048	2.722
10536.7395	0	0.000	2599.072	3.314
10536.75591	0	0.000	2442.801	4.139
10536.77231	0	0.000	2286.202	4.320
10536.78871	0	0.000	2208.884	4.347
10536.80512	0	0.000	2234.267	4.160
10536.82152	0	0.000	2244.201	3.546
10536.83793	0	0.000	2229.359	3.393
10536.85433	0	0.000	2200.704	3.194
10536.87073	0	0.000	2237.329	3.531
10536.88714	0	0.000	2200.259	3.629
10536.90354	0	0.000	2300.039	3.616
10536.91995	0	0.000	2385.163	3.511
10536.93635	0	0.000	2535.778	3.791
10536.95276	0	0.000	2728.535	3.240
10536.96	0	0.000	2917.482	3.366
10536.97	0	0.000	2693.616	3.606
10536.98	0	0.000	2015.052	2.988
10536.99	0	0.000	1968.984	2.681
10537	0	8.327	1989.061	3.390
10537.0164	0	0.000	2061.588	3.181
10537.03281	0	0.000	2436.139	3.263
10537.04921	0	0.000	3247.134	3.423
10537.06562	0	0.000	3363.344	4.175
10537.08202	0	0.000	3584.733	4.310
10537.09843	0	0.000	7246.059	5.308
10537.11483	0	0.000	9414.508	6.062
10537.13123	0	0.000	9482.686	6.370
10537.16404	0	0.000	9425.142	5.635
10537.18045	0	0.000	8982.622	4.844
10537.19685	0	0.000	5141.138	3.931
10537.21325	0	22.757	2899.555	3.247
10537.22966	0	40.761	2776.473	3.543
10537.24606	0	0.000	2769.882	3.662
10537.26247	0	0.000	2873.003	3.981
10537.27887	0	0.000	2988.091	4.332
10537.29528	0	0.000	2959.880	4.127
10537.31168	0	0.000	2979.373	4.106
10537.32808	0	0.000	3039.255	4.441
10537.34449	0	0.000	3113.838	4.408
10537.36089	0	0.000	3123.187	4.447
10537.3773	0	0.000	3150.043	4.574
10537.3937	0	0.000	3118.419	4.410

10537.42651	0	0.000	3025.582	4.055
10537.44291	0	0.368	2932.183	4.269
10537.45932	0	0.000	2855.310	4.135
10537.47572	0	0.000	2623.614	4.164
10537.49213	0	0.000	2411.902	4.603
10537.50853	0	0.000	2454.651	4.723
10537.54134	0	0.000	2469.118	4.694
10537.57415	0	0.000	2432.119	4.713
10537.60696	0	0.000	2730.942	4.743
10537.62336	0	0.000	3035.258	3.747
10537.63976	0	0.000	2839.720	3.491
10537.65617	0	0.000	2382.428	3.165
10537.67257	0	0.000	2768.386	3.011
10537.68898	0	3.826	3184.822	2.379
10537.72178	0	0.000	3391.555	3.064
10537.73819	0	0.000	3805.046	3.427
10537.75459	0	0.000	4895.745	3.490
10537.771	0	0.000	7540.044	3.248
10537.7874	0	0.000	9270.343	3.861
10537.80381	0	0.000	9505.031	3.350
10537.82021	0	0.000	10419.030	3.878
10537.83661	0	0.000	12480.384	5.244
10537.85302	0	0.000	11043.579	5.702
10537.86942	0	9.687	9334.782	5.873
10537.91864	0	8.046	9213.337	5.801
10537.93504	0	0.000	8322.640	5.380
10537.95144	0	0.000	5842.303	4.123
10537.96785	0	0.000	4732.391	4.041
10537.98425	0	5.831	4486.017	4.014
10538.00066	0	0.000	4144.679	3.989
10538.01706	0	0.000	3937.547	3.574
10538.03346	0	0.000	4050.322	3.615
10538.04987	0	0.000	4993.958	3.863
10538.06627	0	0.000	6207.715	4.826
10538.08268	0	1.939	7315.219	5.670
10538.09908	0	17.072	8171.464	5.999
10538.11549	0	101.515	8229.943	5.950
10538.13189	0	10.039	7299.489	5.831
10538.1647	0	0.000	5971.018	4.687
10538.1811	0	0.000	5188.000	4.481
10538.19751	0	0.000	5047.085	4.089
10538.21391	0	0.000	4983.884	4.590
10538.23031	0	0.000	4756.816	4.635
10538.24672	0	0.000	4690.881	4.893
10538.26312	0	0.000	4570.393	4.641
10538.27953	0	0.000	4115.439	4.707
10538.29593	0	0.000	3924.856	4.372
10538.31234	0	0.000	3863.736	3.804
10538.32874	0	0.000	3867.662	3.592
10538.34514	0	0.000	4678.143	4.070
10538.36155	0	0.000	6312.496	5.477
10538.37795	0	0.000	7176.524	5.598

10538.39436	0	0.000	7643.142	5.565
10538.41076	0	0.000	8096.600	5.033
10538.42717	0	0.000	7570.499	4.480
10538.44357	0	0.000	6493.870	3.081
10538.45997	0	0.000	6354.895	2.565
10538.47638	0	0.000	6608.047	2.357
10538.49278	0	0.000	7014.947	2.631
10538.50919	0	0.000	6926.480	2.126
10538.54199	0	0.000	6318.036	2.734
10538.5584	0	0.000	5755.285	2.798
10538.5748	0	0.000	5115.427	3.573
10538.59121	0	0.000	4231.743	3.692
10538.60761	0	0.000	3911.907	4.436
10538.62402	0	0.000	3635.803	4.168
10538.64042	0	0.000	2662.997	3.894
10538.65682	0	4.154	2293.938	3.320
10538.67323	0	21.374	2073.625	3.483
10539.13255	0	0.000	1755.683	3.635
10539.14895	0	0.000	1728.547	3.202
10539.16535	0	0.000	2248.151	3.345
10539.18176	0	0.000	2410.219	3.989
10539.19816	0	0.000	2524.092	4.248
10539.21457	0	0.000	2453.248	4.011
10539.23097	0	0.000	2283.070	4.282
10539.26378	0	6.065	2268.999	4.283
10539.28018	0	1.623	2170.833	3.941
10539.29659	0	0.000	2238.311	3.679
10539.31299	0	0.000	3241.945	3.892
10539.3294	0	0.000	4084.774	4.073
10539.3458	0	0.000	4340.123	4.301
10539.3622	0	0.000	5303.813	4.248
10539.37861	0	0.000	6002.501	3.738
10539.39501	0	0.000	5466.279	3.784
10539.41142	0	0.000	5305.707	4.044
10539.42782	0	0.000	5614.300	4.536
10539.44423	0	0.000	5036.754	5.457
10539.46063	0	0.000	4478.117	5.629
10539.47703	0	0.000	4423.798	5.380
10539.49344	0	0.000	4100.971	4.484
10539.50984	0	0.000	6121.399	4.833
10539.52625	0	0.000	9759.586	4.814
10539.54265	0	14.751	12461.920	5.271
10539.55906	0	16.826	16422.536	5.417
10539.57546	0	0.000	19894.705	6.333
10539.59186	0	0.000	17529.526	5.600
10539.60827	0	8.937	13557.831	4.832
10539.67388	0	0.000	10641.003	4.520
10539.7231	0	0.000	6399.701	4.544
10539.7395	0	0.000	2866.131	3.744
10539.75591	0	0.000	3004.125	3.897
10539.77231	0	0.000	3190.501	4.245
10539.78871	0	0.000	2929.495	3.930

APPENDIX C

Ash #	depth (ft)	thickness (cm)
1	10379.37	2.90
2	10380.52	5.53
3	10381.15	0.25
4	10381.80	3.75
5	10385.95	0.10
6	10386.28	2.45
7	10389.45	5.35
8	10389.65	0.10
9	10391.05	0.55
10	10391.10	0.15
11	10393.57	1.50
12	10394.22	4.90
13	10395.00	0.75
14	10395.25	0.15
15	10399.95	4.80
16	10401.30	4.90
17	10405.00	0.05
18	10407.60	2.45
19	10411.10	0.50
20	10413.20	0.05
21	10416.88	0.35
22	10420.45	0.65
23	10420.65	1.75
24	10423.50	0.30
25	10423.67	0.55
26	10423.95	0.55
27	10424.20	0.30
28	10424.22	0.30
29	10424.25	0.75
30	10425.30	0.00
31	10425.35	0.00
32	10427.05	0.25
33	10428.55	0.30
34	10428.75	2.50
35	10435.30	3.20
36	10440.70	0.00
37	10459.90	2.15
38	10463.85	0.20

39	10465.65	1.40
40	10469.50	0.10
41	10475.15	0.15
42	10475.17	0.20
43	10477.40	0.15
44	10478.10	1.50
45	10478.22	0.20
46	10487.50	0.10
47	10489.65	0.30
48	10495.00	0.20
49	10495.45	0.00
50	10498.45	0.75
51	10508.80	0.85