# Crustal Permeability Changes Observed From Seismic Attenuation: Impacts on Multi-Mainshock Sequences

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#### Abstract

Measuring variations of seismic attenuation over time, while requiring extreme measurement sensitivity, provides unique insights into the dynamic state of stress in the Earth's crust at depth. We analyze seismic data from earthquakes of the 2016-2017 Central Apennines seismic sequence and obtain high-resolution time histories of seismic attenuation in a wide frequency band (0.5-30 Hz) that are characterized by strong earthquake dilatation-induced fluctuations (deep), as well as damage-induced ones (shallow). The cumulative elastic stress drop after the sequence causes negative dilatation, reduced permeability and seismic attenuation. We observe that M[?]3.5 earthquake occurrence vs. time and distance is consistent with fluid diffusion, and that these diffusion signatures are associated with changes in seismic attenuation during the first days of the Amatrice, Visso-Norcia, and Capitignano sub-sequences. We conclude that coseismic permeability changes, partially evidenced by seismic attenuation, create fluid diffusion pathways that are at least partly responsible for triggering multi-mainshock seismic sequences. Crustal Permeability Changes Inferred From Seismic Attenuation: Impacts on Multi Mainshock Sequences

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### 13 Key Points:

- 14 1) Seismic attenuation is fundamentally linked to crustal permeability
- During a seismic sequence, bulk permeability of crustal rocks and pore-fluid pressure are
   modulated by cumulative seismic stress drop
- 17 3) The seismic sequence of the Central Apennines (2016-17) is a long episode of fluid diffusion

#### 19 Abstract

20 Measuring variations of seismic attenuation over time, while requiring extreme measurement sensitivity, provides unique insights into the dynamic state of stress in the Earth's crust at depth. 21 22 We analyze seismic data from earthquakes of the 2016-2017 Central Apennines seismic sequence 23 and obtain high-resolution time histories of seismic attenuation in a wide frequency band (0.5-30 Hz) that are characterized by strong earthquake dilatation-induced fluctuations (deep), as well as 24 damage-induced ones (shallow). The cumulative elastic stress drop after the sequence causes 25 negative dilatation, reduced permeability and seismic attenuation. We observe that  $M \ge 3.5$ 26 earthquake occurrence vs. time and distance is consistent with fluid diffusion, and that these 27 diffusion signatures are associated with changes in seismic attenuation during the first days of the 28 Amatrice, Visso-Norcia, and Capitignano sub-sequences. We conclude that coseismic 29 permeability changes, partially evidenced by seismic attenuation, create fluid diffusion pathways 30 that are at least partly responsible for triggering multi-mainshock seismic sequences. 31

#### 32 Plain Language Summary

We investigate the Central Apennines (Italy) seismic sequence that started with the 24 33 34 August 2016 M5.97 Amatrice shock, and led to a cascade of 11 more M≥5 shocks, including the 30 October 2016 M6.33 Norcia mainshock. We measure changes in seismic 35 attenuation vs. time, observe patterns of earthquake occurrence vs time and distance that 36 are consistent with fluid diffusion, and calculate crustal the dilatation induced by the 37 sequence. We support a model of permeability-driven seismic attenuation: under 38 extensional tectonics, the elastic stress drop after the seismic sequence results in 39 negative dilatation, reduced permeability, and reduced attenuation. During the first days 40 following the main events of the sequence, fluid diffusion is associated with changes in 41 seismic attenuation. What emerges is that: (i) coseismic negative dilatation following large 42 normal fault earthquakes closes fluid-filled cracks, driving fluids out, (ii) coseismic 43 damage to fault zones and in the shallow crust provides pathways for fluid transfer, (iii) 44 seismic attenuation is temporarily decreased during this time, (iv) short-lived (<10 days) 45 diffusion into adjacent fault zones and the shallow crust triggers subsequent earthquakes, 46 (v) seismic attenuation gradually recovers after this redistribution of fluids, (vi) the 47 process repeats until regional failure stress is exhausted. 48

#### 49 **1** Introduction

50 Until recently, seismic attenuation was considered constant in time; at least it was studied as such (e.g., Malagnini and Dreger, 2016). Previous work on temporally changing attenuation was 51 performed in volcanic settings (Titzschkau et al., 2010), or after strong-motion events (e.g., Chen 52 et al., 2015; Kelly et al., 2013). Then a study by Malagnini and colleagues (2019) demonstrated 53 that total seismic attenuation fluctuates periodically, responding to slow-varying seasonal 54 stresses and solid Earth tides. They also showed sharp increases of the attenuation parameter 55  $Q_{S}^{-1}(f,t)$  due to shallow rock damage after strong-motion episodes, and either increases or 56 decreases of  $Q_S^{-1}(f, t)$  due to static stress transfer from earthquakes occurring on nearby faults. 57

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59 Malagnini and Parsons (2020) interpreted the fluctuations of  $Q_S^{-1}(f, t)$  in terms of changes in 60 permeability driven by variable compressional stresses. Of particular interest was the variation 61 of crustal attenuation related to strong-motion earthquakes. Malagnini and Parsons envisioned 62 two competing effects in the aftermath of a mainshock: (1) shallow damage that mostly affected 63 relatively low-frequency surface waves (0.5-1.5 Hz, where 0.5 Hz was the minimum frequency 64 observed), and (2) stress-induced dilatation from the static stress drop of the mainshocks of the 65 sequence (either from each individual earthquake, or cumulatively).

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Seismic attenuation has two fundamental components: (1) redistribution of seismic radiation in 67 time and space by scattering behind the wavefront of interest (either direct P or S, e.g., Hoshiba 68 1995; Akinci et al., 2020); and (2) anelasticity, which transforms the elastic energy carried by 69 stress waves into heat. This study deals with the anelastic dissipation of seismic energy. 70 Dissipated seismic energy (converted into heat) has two contributions: (1) energy dissipated in 71 72 the immediate vicinity of the fault, especially at high frequency, and (2) elastic energy dissipated along the path traveled between the surface of the volume that encapsulates the source (see 73 previous point) and the receiver. By definition, dissipation of the first kind cannot be observed, 74 and is inevitably included in a more general budget named "breakdown work" (Tinti et al., 2005) 75 that contains frictional heat generated by fault slip, or slip-rate, weakening phase, and energy 76 spent on changing surfaces, including new fault surface, the surface obtained by the formation 77

of new fragments and the comminution of existing ones, all the way to the formation of faultgouge.

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Another distinction can be made between two different contributions to attenuation of elastic energy of traveling stress waves that are of roughly equivalent importance (Hanks, 1982; Kilb et al., 2012), occurring either along the crustal path, or in the immediate vicinity of the free surface (assuming a surface recording device). Our study deals only with dissipation occurring along crustal propagation. Lastly, for the sake of completeness, we remind the reader that in very shallow, fluid-rich environments, bubble production induced by traveling stress-waves may also cause significant attenuation (Tisato et al., 2015).

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89 Crustal fluids are thought to play a primary role in anelastic attenuation along crustal paths. The physical phenomenon is that of viscous dissipation of seismic energy into heat within interstitial 90 fluids. In fact, it is believed (e.g., O'Connell and Budiansky, 1977) that the elastic energy carried 91 by stress waves is dissipated through two mechanisms: viscous damping acting on the pore fluids 92 93 that are forced to move within isolated cracks, and stress-induced fluid flow between interconnected cracks. The dimensions of rock-permeating cracks, the characteristics of their 94 95 statistical distribution, and the degree of their interconnection (i.e., the permeability of crustal rocks), completely define the frequency dependence of the anelastic attenuation parameter  $Q_i^{-1}$ , 96 where "i" can be either P or S (without loss of generality we can limit our case to direct S-waves). 97

Depending on the frequency of oscillation, the interconnection of cracks within the network and 99 the level of saturation, pore fluids oscillate within and between cracks in saturated or partially 100 101 saturated rocks at low frequencies. A drained regime is attained when the period of oscillation is large enough (in units of fluid relaxation time) to allow inter-crack flow. Alternatively, they can 102 103 oscillate within the same crack at intermediate frequencies in either saturated or partially 104 saturated rocks. An isolated regime is attained when there is not enough time (in units of fluid relaxation time) to oscillate between cracks, although there is enough time for intra-crack 105 oscillations. A glued regime occurs when the period of oscillation is shorter than the relaxation 106

107 time of the viscous fluid within the crack, and the fluid causes negligible dissipation (O'Connell 108 and Budiansky, 1977). Transitions between different regimes can be observed by sweeping 109 through a wide frequency band, where peaks in the attenuation parameter  $(Q^{-1}(f))$  are 110 expected to correspond to each regime transition (O'Connell and Budiansky, 1977). Dry 111 conditions may also occur in specific natural environments (e.g., the Moon, see Mitchell, 1995), 112 with no viscous dissipation.

113

If crack density and connectivity directly determine the permeability of crustal rocks, the average 114 115 crack orientation determines its anisotropic behavior, and its sensitivity to static stress changes, 116 like the stress transfer from a seismic dislocation occurring on a nearby fault. An interesting example of this effect is exhibited after induced unclamping of the San Andreas Fault (SAF) by 117 118 the M6.5 San Simeon earthquake (Johanson and Bürgmann, 2010; Malagnini et al., 2019). In addition to static stress variations, weak motions excited by large distant earthquakes (at regional 119 to teleseismic distances) can influence the permeability of crustal rocks if they radiate enough 120 energy at relatively low-frequency (~0.05 Hz, see Roeloffs, 1998). The proposed mechanism is 121 that of breaking and subsequently flushing away colloidal deposits that clog rock pores and 122 123 cracks, resulting in large increases in rock permeability, stream discharge, (Roeloffs, 1998; Manga et al., 2016; Manga and Brodsky, 2006; Brodsky et al., 2003), and increased seismic attenuation 124 (Malagnini et al., 2019). The same mechanism may be responsible for triggering distant 125 earthquakes by teleseismic waves through fluid diffusion caused by increased permeability 126 (Parsons et al., 2017). Finally, the results of a numerical experiment performed by Barbosa et al. 127 (2019) show that seismically induced viscous shearing within cracks of the order of those 128 initiating unclogging (0.1 to 1 Pa) are plausible for strain magnitudes and frequencies typically 129 130 observed in field and laboratory measurements.

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The colloidal particles mobilized in a specific crustal volume by the fluid flow-induced shear stresses during some weak shaking may re-aggregate in adjacent rock volumes, especially if the latter are bounded by an impermeable surface (like the case of the SAF at Parkfield, as documented by Malagnini and Parsons, 2020), decreasing rock permeability and the attenuation 136 parameter. The described effect has been observed in lab experiments by Liu and Manga (2009),

137 who stated that lab experiments confirm that dynamic stresses and time-varying flow can change

permeability, and both permeability increases and decreases may be possible.

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Another physical mechanism responsible for the increased rock permeability (and seismic attenuation) indirectly observed after shaking is that of strong motion-induced rock damage (Kelly et al., 2013; Rubinstein and Beroza, 2005; Malagnini and Parsons, 2020). As shown along the SAF at Parkfield by Kelly et al. (2013) and Malagnini et al. (2019), rock damage heals over several years, most probably by the precipitation of minerals and colloidal particles into the crack network, and the consequent reduction of permeability.

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In this paper we measure anelastic attenuation based on peak amplitude ratios calculated at two different hypocentral distances. Peak amplitudes are from weak- and strong-motion, narrowband-filtered time histories. Interpolations at specific hypocentral distances are calculated through simple regressions, made possible by a mathematical tool called Random Vibration Theory (Cartwright and Longuet-Higgins, 1956, see later). The latter, together with the Parseval equality, allows the use of the Convolution Theorem on peak amplitudes.

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We suggest that the long-term variation of the attenuation parameter after one or more main shocks is caused by permanent crustal dilatation (increased or decreased compressional stress caused by the cumulative effect of the main earthquakes' static stress drops). In regions subjected to extensional tectonics, like the one struck by the 2016-2017 seismic sequence of Amatrice-Visso-Norcia (Central Apennines, Italy), the cumulative stress drop causes a permanent reduction of the attenuation parameter, and thus of the permeability within the crustal volume affected by the seismicity, confirming the conceptual model by Muir-Wood and King (1993).

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162 Our working hypothesis is that crustal anelastic attenuation is closely related to the 163 characteristics of the crack population that permeates crustal rocks. Whereas the crack-fluid 164 interaction under the excitation of traveling stress waves represents a difficult problem to be solved quantitatively, either numerically or analytically, it may be easier to propose meaningful physical interpretations about the nature of the variation of the empirical observation of attenuation changes over time. We note variations of  $Q_s^{-1}(f,t)$  after the normal faulting earthquakes of the Central Apennines that show sharp drops after each main shock. Moreover, the cumulative effect of an entire seismic sequence is such that there is a notable and stable decrease of  $Q_s^{-1}(f,t)$ .

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#### 172 **2 Data**

173 The 2016-2017 Amatrice-Visso-Norcia (AVN) seismic sequence of the Central Apennines (Italy)

On 24 August 2016, at 01:36 UTC, an M5.97 earthquake struck the town of Amatrice. The main 174 175 shock started a long seismic sequence characterized by two more main events (M5.87 Visso, on 176 26 October 2016, at 19:18 UTC, and the M6.33 Norcia, on 30 October 2016, at 06:40 UTC; Figure 1A). The seismic sequence affected a large region (see the seismicity distribution shown in Figure 177 1B), and lasted until the end of January 2017. On January 18, 2017, a sequence of smaller shocks 178 (M5.43 was the largest shock) marched through the deep part of the Campotosto fault, with 179 epicenter near Capitignano (e.g., Cheloni et al., 2019; Falcucci et., 2018; Gori et al., 2019), with 180 four events with **M**>5 (Figure 1A). After the Capitignano subsequence, the seismic activity of the 181 182 region faded away and returned to the background level by late 2017. A rough display of the spatio-temporal evolution of the seismic sequence is provided in Figure S1. 183

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The AVN seismic sequence contained the largest earthquake ever recorded in the Central Apennines. The sequence was recorded by a dense modern network of seismometers and accelerometers, and the collected data set provides a unique opportunity to study earthquakerelated phenomena in the region. Together with the one collected during the 2009 L'Aquila seismic sequence, the AVN data set allows us to study earthquake sources and wave propagation phenomena with unprecedented accuracy for this region.

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The final data set used for attenuation calculations consisted of 3,236 earthquakes recorded by
67 weak-motion 3-component stations belonging to Rete Sismica Nazionale (RSN), run by Istituto

Nazionale di Geofisica e Vulcanologia (INGV, Figure 1B, see Catalog provided as a Supporting 194 195 Information). Events were gathered in the period between 07/01/2013 and 31/08/2020 with 2.0<M<6.33. The data set also included 83 events recorded by the Rete Accelerometrica 196 197 Nazionale (RAN) for a total of 9,905 strong-motion waveforms. Station list is provided as Supporting Information. This study is based on a total of 200,132 individual-component 198 waveforms. The histograms in Figure 2 describe the distributions of the magnitudes ( $M_L$ ) of the 199 events in our data set, hypocentral depths, and hypocentral distances of the recorded 200 201 seismograms.

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We only used seismograms with one individual event, no glitches, no holes, and no spurious 203 noise. Seismograms with multiple (overlapping) events were either cut in the time window 204 205 containing the specific event only, or removed from the data set. A total of 200,132 seismograms were chosen from 3,236 earthquakes with  $2 \le M \le 6.0$  occurring between January 7 2013 and 206 August 20 2020 by visually inspecting a multitude of individual time histories by either Irene 207 Munafò or Luca Malagnini. A signal-to-noise (S/N) ratio analysis was performed on the spectral 208 209 content of each individual seismogram, as described by Malagnini et al. (2000). Also, during the sequence the magnitudes of the events in the data set are higher (and so is the S/N ratio). Finally, 210 211 we used Random Vibration Theory in order to maximize the S/N ratio (we use peak values, not spectral amplitudes, see Malagnini and Dreger, 2016 for details). No noise issues can affect the 212 variability of attenuation at low frequencies. 213

#### 214 **3 Methods**

The technique used here evolved from the work by Raoof et al. (1999) and Malagnini et al. (2000), 215 and is described by Malagnini et al. (2019) and Malagnini and Parsons (2020). The approach is 216 based on a tool called Random Vibration Theory (RVT), developed by Cartwright and Longuet-217 218 Higgins (1956) for the analysis of tides, and subsequently widely used in ground motion analyses (e.g. Boore and Joyner, 1984). RVT allows the use of peak values of narrowband-filtered time 219 histories in place of their Fourier amplitudes. Moreover, it allows using the Convolution Theorem 220 221 for peak value analysis (for a detailed explanation, see Appendix A in Malagnini and Dreger, 222 2016). Exchanging Fourier amplitudes for peak values brings a huge improvement of the signalto-noise ratios of the data used in the regressions, which is key in studying the fluctuations of the
 attenuation parameter.

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226 The disadvantage of using RVT is that we lose the information on the peak arrival time, because 227 in theory the peak can occur anywhere in the time history. We worked around this drawback in two ways: (1) we prescribed that the analysis be performed in the time window marked by the 228 S-wave arrival and a minimum group velocity (1.5 km/s; (2) we visually inspected all the 229 seismograms of the data set. This required us to visually inspect about 300,000 seismograms to 230 generate a data set of 200,000+ good waveforms without multiple events in a time history, 231 glitches, spurious peaks, data gaps, etc.. We gathered progressive groups of 40 consecutive 232 earthquakes from our catalog of 3,236 earthquakes by moving forward one earthquake at a time 233 234 as P=M-C+1, yielding overlapping subsets of C ordered consecutive events (C=40 in our case). Malagnini et al. (2019), tried subsets of 80-60-50-40-30 events, and explored the tradeoff 235 between relatively more stable results obtained using a larger number of waveforms, and the 236 loss of time resolution that comes with a larger number of earthquakes. They showed that no 237 significant quality increment could be obtained (in terms of stability) with more than 40 events, 238 but below that number the attenuation results were unstable. The issue of stability of the results 239 vs. their time resolution is not important during a seismic sequence, when events are frequent, 240 241 large, and each of them is recorded by many stations. The issue becomes more important during "regular" times, when earthquakes are infrequent, small, and do not have many recordings. 242

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For each subset of 40 earthquakes we repeat the following steps: i) filter the *N* seismograms of the subset around a set of *K* central frequencies,  $\{f_{c_K}\}_{\kappa=1,\dots,K}$ ; ii) extract the peak amplitudes (A<sub>n</sub>) at all individual frequencies and arrange them in a matrix form (one independent matrix for each central frequency, one line for each filtered seismogram, with no cross-frequency smoothing); iii) run the *K* regressions on all central frequencies using (1).

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250 
$$A_n(r_{ij}, t_j, f_{c_k}) = SRC_j(r_0, f_{c_k}) + D(r_{ij}, r_0, t_m, f_{c_k}) + SITE_i(f_{c_k}) + \epsilon_n,$$
(1)

In (1),  $SRC_j(r_0, f_{c_k})$  refers to the contribution of the j<sup>th</sup> source, normalized to a reference distance  $r_0$ ,  $SITE_i(f_{c_k})$  is the contribution of the i<sup>th</sup> site, and  $D(r_{ij}, r_0, t_m, f_{c_k})$  is a path term that accounts for the effect of crustal propagation. Note that path and source terms in (1) are normalized by a reference distance.

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The parameter  $t_m$  represents the origin time of the *m*-th event of the current subset of ordered consecutive earthquakes, and for this study we chose m = 1;  $r_{ij}$  is the hypocentral distance between the *i*-th recording site and the *j*-th earthquake;  $r_0$  is an arbitrary reference distance (we use  $r_0 = 10$  km).

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The *n*-th row of the matrix (1) refers to the *n*-th observation, the *j*-th column refers to the *j*-th seismic source, the *i*-th column refers to the *i*-th station, and k=1,...,44 refers to the *k*-th regression (one regression per central frequency  $f_{c_k}$ ). Finally,  $\epsilon_n$  is the residual between the observation and the sum of the three terms describing the ground motion (we drop it in what follows).

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268 
$$A_n(r_{ij}, t_j, f_{c_k}) = \log_{10}(PEAK[a_n(r_{ij}, t_j, f_{c_k})]),$$
(2)

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Term  $a_n(r_{ij}, t_j, f_{c_k})$  in (2) is the narrowband-filtered version of the n<sup>th</sup> time history, relative to the i<sup>th</sup> station, and to the j<sup>th</sup> source.  $PEAK[a_n(r_{ij}, t_j, f_{c_k})]$  in (2) indicates the peak value observed after the S-wave arrival and with a group velocity larger than 1.5 km/s;  $t_j \neq t_m$  when  $j \neq m$ .

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275 The inversion of (1) is performed after adding the following constraints:

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277 
$$D(r_{ij} = r_0, t_m, f_{c_k}) = 0,$$
(3)

278 
$$\sum_{i=1}^{NSITE} \left[SITE_i(f_{c_k})\right] = 0,$$

279 (4)

$$D_{l-1}(f_{c_k}) - 2D_l(f_{c_k}) + D_{l+1}(f_{c_k}) = 0,$$
(5)

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282  $\Sigma$  where: l = 0, 1, ..., L, and L is the number of nodes defining a continuous piecewise-linear 283 path term in a log-log space.

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Constraints (3) effectively decouples the path term (representing total attenuation) from the 285 286 combination of source and site terms. The reader should keep in mind that our working 287 hypothesis is that the crust is laterally homogeneous in the studied region. Although this hypothesis is never completely true, it has worked reasonably well in many areas of the world 288 289 (see studies by Malagnini and colleagues, including those on source scaling, e.g., Mayeda and Malagnini, 2009, Malagnini and Mayeda, 2010, Malagnini et al., 2008). Constraint (4) decouples 290 the site and source terms and gives physical meaning to the latter (i.e., the source terms that 291 would be recorded at the reference distance  $r_0$  by the average network site, see Malagnini et al., 292 2000). Constraint (4) has no effect on our results, and we include it for completeness. Constraint 293 294 (5) is a smoothing operation applied to the crustal propagation term, which minimizes the 295 roughness of the solution and has negligible effects on our results.

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For completeness, we note that the number of stations may not be strictly the same for each earthquake, adding some variability from earthquake to earthquake. Yet, they always contribute to the null average site term because the latter is not forced individually on each earthquake, but through the inversion of the matrix (1). This is done by adding an extra row of zeros in all columns, except for all columns corresponding to the horizontal site terms, where we insert a large number, comparable to the number of data points. An extra zero is added to the column of the observed amplitudes.

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By inverting matrix (1), we obtain one set of source spectra, one set of site terms, and one smooth path term for each central frequency. Because of constraint (3), the path term is equivalent to an amplitude ratio between the attenuation at distances  $r_{ij}$  and  $r_0$ , that can be modeled for any distance r as: 309

$$D(r_1, r_0, t_m, f_{c_k}) = \left[\frac{g(r_1)}{g(r_0)} exp\left(-\frac{\pi f(r_1 - r_0)}{V_S Q_S(t_m, f_{c_k})}\right)\right],$$
(6)

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where g(r) is a static attenuation function, piecewise-linear in log-log space,  $r_0$  is an arbitrary hypocentral distance used for normalization (3),  $Q_s^{-1}(t_m, f)$  is a measure of time-dependent attenuation at  $t=t_m$ , which is the focus of our research,  $r_1 = 40$  km is a second arbitrary hypocentral distance, and V<sub>s</sub> is shear-wave velocity. Crustal propagation is spatially sampled at a fixed set of hypocentral distances, in the 10 - 150 km range.

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Figure 3a shows the total attenuation term  $D(r_1, r_0, t_m, f_{c_k})$  at a subset of sampling frequencies, 318 with the indication of the durations of each one of the *m* time windows (each one contains 40 319 events) used to scan the entire period (horizontal black segments in Figure 3a). Moreover, Figure 320 3b is a 2-D representation of the fluctuations of the seismic attenuation parameter around its 321 average value,  $\Delta Q_s^{-1}(t_m, f)$ , with the indications of the events of the sequences with M≥4.5 322 (epicenters in map of Figure 3c). The time-averaged attenuation parameter  $\langle Q_S^{-1}(f) \rangle$  is shown in 323 Figure 3d (averages calculated in two consecutive time windows: pre- and post-Amatrice. Note 324 the reduction in the average attenuation parameter in the second time window. Note also that 325  $\langle Q_S^{-1}(f) \rangle$  is described by a power law at high frequencies, but flattens just below 1 Hz, indicating 326 that below 1 Hz frequencies, surface waves dominate between the two distances that are 327 arbitrarily chosen to calculate the attenuation parameter. We can safely state that above 1 Hz all 328 the peak values of the narrowband-filtered time histories are carried by direct S-waves. To reduce 329 the error bars of the attenuation function, we apply a bootstrap procedure, in which 10% of the 330 331 events of each time window are removed from the data set. 10 different regressions are run on the data set associated to  $t_m$ , and the 10 attenuation parameters  $(Q_S^{-1}(t_m, f)|_i, i = 1, ..., 10)$ 332 are averaged, obtaining smooth and reliable attenuation surfaces like those shown in Figure 4. A 333 zoom on the most energetic part of the seismic sequence, between the Amatrice mainshock 334 (08/24/2016) and 12/31/2016 is shown in Figure S3. 335

By calculating the average attenuation over time, removing the geometric attenuation calculated 337 by Malagnini et al. (2011, their eq. (3)) for the adjacent region that was struck by the April 6 2009 338 L'Aquila earthquake, and subtracting it from eq. (6), we obtain anomalies of  $Q_{\rm S}^{-1}(t, f)$  that are 339 340 plotted in Figure 4 (we drop the *m* subscript of the time variable from now on). The average is 341 taken between 01/01/2013 (the beginning of our time window) and 23/08/2016 (the day before the Amatrice main shock) to enhance the effects of the seismic sequence. Finally, errors with 342 respect to the average  $(d(\log(1/Q)))$ , calculated in the regressions for all time windows and for all 343 frequencies, are shown in Figure S3. 344

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#### 346 *Limitations of our approach*

Scientific results must be thoroughly evaluated to understand hidden limitations of techniques.
We point out the existence of issues of limited importance about the current application
developed by Malagnini et al. (2019).

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#### 351 1. Trade-offs:

Tradeoffs are the inevitable drawback of any inverse problem. What we have available is equation (1), and the constraints that are forced onto the matrix. With such a limited set of tools, we are able to exploit our data set in many different ways, including the assessment of temporal variations of the site terms (Figure S4). Although some variability is inevitable, their collective behavior is totally acceptable for our purposes.

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Yet, our results must be affected by unavoidable tradeoffs. As an example, if all sites simultaneously experienced the same amount of damage during some strong shaking, constraint (4) would force the changes in site attenuation that are common to all sites, through constraint (3), onto all source terms. Because shaking-related rock damage is a shallow consequence of earthquake-induced ground motion, we expect that an increase in site terms occurs at low frequency at the beginning of the sequence. Figure S4 documents such a change, which only affects a subset of recording stations and is counterbalanced by the rest of the sites.

Our working hypothesis may also look simple, but many studies demonstrated that it works in 366 the Apennines, even in a region that is larger than the one struck by the 2016-2017 seismic 367 sequence. The availability of seismometric data in the study area is enough to study the average 368 369 behavior of the seismic attenuation, and its variability over time. Moreover, the sampled crustal 370 volume (Figure 1) is large enough and well instrumented, so that a large number of stations sample the same crustal volume illuminated by the seismic events. This is especially true for the 371 time window that includes the seismic sequence. In comparison, the time window between 372 01/01/2013 and 23/08/2016 shows a remarkably constant crustal attenuation pattern (except 373 for the seasonal fluctuations, see Figures 3b and 4), in spite of the fact that in order to obtain 374 enough events to have a decent time resolution we needed to select anything above M1.9 (i.e., 375 scattered background seismicity). 376

377

Source and site terms are remarkably stable over the period between 01/01/2013 and 378 23/08/2016 (Figure S4), especially when compared to their behaviors during the sequence. It also 379 appears that the more seismically active region of the Central/Northern Apennines between 380 381 L'Aquila to Norcia, is (in relative terms) seismologically homogeneous, at least in terms of the velocity structure. For example, Herrmann et al. (2011) were successful in using the Central Italy 382 383 Apennines (CIA) velocity model to reproduce broadband seismograms down to M2.8 -384 http://www.eas.slu.edu/eqc/eqc mt/MECH.IT/). The broadband inversion of the moment tensors uses frequencies up to 0.15 Hz, that is, minimum wavelengths of 15-20 km. 385

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We use a set of stations within 50 km of any of the mainshocks. Moreover, we always look at the same hypocentral distance of 40 km; earthquakes at larger distances can still contribute (mainly through the smoothing constraint (5)) to the value of D(r,f), yet they do so negligibly with respect to earthquakes at closer distance. We however looked at the same 1/Q plots at shorter and longer hypocentral distances (30 km and 80 km), obtaining virtually the same results (Figure S5 shows the variability of 1/Q at 80 km). Finally, regressions demonstrated to be extremely stable to random mislocations that are larger than the location precision (especially to outliers, see Figure S6). The various arguments listed in the current subsection concur to establish confidencein our results.

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397 2. Near-fault and off-fault effects:

The effect of seismic attenuation on observed amplitudes of ground motion refers to the integral of all the individual contributions experienced along the entire crustal path, from the immediate vicinity of the fault to the recording site. Because the effect is proportional to the duration that seismic waves are affected by some specific attenuation, we can write that:

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 $\frac{T_{TOTAL}}{Q_{TOTAL}} = \frac{T_{NEAR-FAULT}}{Q_{NEAR-FAULT}} + \frac{T_{PATH}}{Q_{PATH}}.$ (7)

404

403

As a consequence of (7), the fluctuations of Q in the fault zone could be larger than what we 405 obtain. Note that the near-site contribution  $\left(\frac{T_{SITE}}{Q_{SITE}}\right)$  is decoupled from that of the crustal 406 propagation by constraint (3), and we do not need to take it into account. Also, the calculated 407 value of  $Q_{S}^{-1}(f, t)$  is an effective value that incorporates the effects of both processes of anelastic 408 and scattering attenuation, and we do not attempt to discriminate between them. Lastly, we 409 interpret the sharp increase in the seismic attenuation that occurs at low frequency after the 410 411 onset of the Amatrice mainshock as the effect of rock damage at shallow depths, at or below 1.0 Hz in Figure 2 (lower frame) where surface waves dominate. Due to the nature of surface waves, 412 we expect the effects of shaking-induced rock damage to extend down to less than a few hundred 413 414 meters.

415

416 *3. Causality:* 

We use overlapping subsets of 40 consecutive earthquakes, calculate the attenuation relative to each sub-set, and associate it to a specific time belonging to the time window spanned by the subset (in the current application, the time of occurrence of the first earthquake). Then the time window is shifted to the next earthquake available along the time axis, and a new subset of 40 earthquakes is obtained by including the 41<sup>st</sup> earthquake, and leaving out the first event. The second attenuation data point is calculated and associated to the occurrence time of the second earthquake of the entire data set. There will be times in which the time window spanned by 40
consecutive earthquakes is very long, about half a year before 24 August 2016, but as soon as
the first main shock hits Amatrice, the interevent times get very small, down to a fraction of an
hour (Figure 3a).

427

When the moving window hits the first mainshock, for 39 more time steps we include its effects 428 (damage and dilatation reduction) on the resulting attenuation data points. We have a causality 429 issue for whatever the choice of the occurrence time to associate with a specific data point (we 430 chose the first origin time of the original ordered subset of 40 events, regardless of the actions 431 of the bootstrap analysis. Malagnini et al., 2019 chose the median origin time, and another 432 possible choice could be the average origin time, etc). We break the data set into two parts, 433 434 before Amatrice, and from the Amatrice mainshock onward to avoid acausal effects. After the first mainshock, the sampling of the attenuation parameter is fine enough that we do not need 435 to apply this procedure any more times (acausality is always present, but during the sequence, 436 the time windows are very short, and we can neglect it for our purposes). 437

438

To aid in interpretation of attenuation observations, we add independent lines of investigation. We calculate coseismic dilatation to gain insight into where post-earthquake extension and compression occur and associated inferred crack opening or closing. We additionally conduct simple calculations of expected changes in relative fluid flow magnitudes and directions based on dilatation. We also examine the catalog for seismic patterns in time and space that are consistent with fluid diffusion signals.

We calculate the coseismic dilatation caused by earthquakes during the 2016-2017 Amatrice-Visso-Norcia seismic sequence and the Capitignano subsequence by using a boundary element method. We use rupture plane definitions from local moment tensor solutions (see supplement for solutions and dislocations). Elastic dislocations are made from earthquake rupture areas and slip that are scaled according to the empirical regressions of Wells and Coppersmith (1994), and centered at reported hypocenters/centroids. We assume that all the events occurred on the

southwest-dipping nodal planes, which are the prevailing known rupture styles. Dilatation 451 calculations are made using the subroutines of Okada (1992). Since we are calculating dilatation 452 strain, no friction coefficient is necessary. Results are shown in Figure 5a, with much of the region 453 454 showing relative negative dilatation (compression) following the seismic sequences. Additionally, 455 we make calculations of static stress changes on the eventual Visso and Norcia mainshock ruptures utilizing available focal mechanisms of all events beginning with the Amatrice mainshock 456 to immediately before the Visso, and then Norcia events (after Mancini et al., 2019). This is also 457 done using the subroutines of Okada (1992), but rather than a half-space calculation, shear, 458 normal, and Coulomb stress change calculations are resolved on the mainshock failure planes. 459 This is done to assess the relative influence of fluid diffusion vs. direct coseismic triggering within 460 the mainshock sequences. 461

462

463 Calculated changes to fluid flow directions indicate generalized migration of pore fluids away 464 from the most negative dilatancy regions in the crust. Relative magnitudes and directions of 465 radial flow ( $u_r$ ) are calculated using Darcy's Law assuming porous flow within a confined aquifer 466 as

467

468  $u_r = \frac{k}{\mu} \frac{dp}{dr}$ (8)

469

470 where *k* is the permeability of the porous rock, *p* is pore pressure change, *r* is radial distance, and 471  $\mu$  is dynamic fluid viscosity. Here we are calculating expected relative change in subsurface flow 472 rather than absolute values and assume that *k* and  $\mu$  remain constant. Integrating this differential 473 equation (e.g., Turcotte and Schubert, 1982), shows that this relation takes the form of

474

$$\Delta p = C \ln \frac{r}{r_0} \tag{9}$$

where *C* represents assumed constants,  $r_0$  is the position of the pressure change, and *r* is the location of an expected flow value at a given distance. We assume changes in dilatancy and/or normal stress are proportional to changes in pore pressure and calculate expected relative flow

direction and magnitude from each cell in the model to all the others (Figure 5b).

481

482 We searched high-resolution catalogs (Tan et al., 2021) for earthquake sequences in time and 483 space that demonstrate consistency with a diffusion signal. We found that below M3.5, there are too many events likely triggered through multiple processes (e.g., static stress changes, dynamic 484 485 stress changes, diffusion) to reasonably identify a diffusion process. At thresholds above M3.5 it is possible to systematically search time windows of earthquakes sorted by time and distance 486 from mainshocks to visually identify patterns that could represent diffusion. We then conduct 487 least-squares regressions to see if sequences are well fit to a functional form of  $d \propto t^{0.5}$ , which 488 is characteristic of fluid diffusion. These analyses do not conclusively prove the existence of a 489 490 diffusion process but are used in concert with other observations such as sudden changes in 491 attenuation, coseismic dilatation, and expected changes in fluid concentrations to demonstrate a consistent process. 492

493

494 **4 Results** 

495

## 496 Diffusion signatures on the $Q_S^{-1}(f,t)$ time histories

497

Episodes of fluid diffusion are widespread in the Apennines (e.g., Malagnini et al., 2012; Miller et al., 2004). An interesting question is whether they are coupled, in a coincident fashion, with temporal variations of the attenuation parameter. Moreover, it is well known that pulses of porefluid pressure may trigger seismic failure by reducing a fault's shear strength. The mechanism is that the effective fault-normal stress is reduced by the counteracting effect of the fluid pressure (Terzaghi, 1923), thus reducing the fault strength (see, for example, Wang and Manga, 2010), and an interesting scientific question is whether episodes of fluid diffusion (which can possibly cause fault weakening) have detectable signatures on the attenuation parameter. Here we show cumulative evidence to support this from observed temporal changes in seismic attenuation and space-time relations amongst  $M \ge 3.5$  earthquakes coupled with modeled crustal dilatation,

508 fault-plane stress changes and fluid flow changes.

509

Following the approach developed by Malagnini et al. (2019), and Malagnini and Parsons (2020), 510 we calculated anomalies of  $Q_s^{-1}(f,t)$  from the average functional form  $\langle Q_s^{-1}(f) \rangle$  calculated 511 between 01/01/2013 and 23/08/2016/ (from the beginning of the available time window to one 512 day before the Amatrice main shock). Results are shown in Figure 4, separated in two different 513 time windows to minimize important effects on acausality. The  $Q_{S}^{-1}(f,t)$  time histories after the 514 Amatrice and Norcia mainshocks event show some consistent features: after a short-lived, sharp 515 negative drop there is a longer positive pulse followed by a gentle negative swing. The duration 516 of these features appears to depend on magnitude, lasting longer after the larger Norcia event. 517 We interpret the negative anomaly as the effects of the negative dilatation documented in Figure 518 519 3 (deep decreased permeability), and the positive one as the effects of damage-like increases of the crack density (and permeability) at shallow depth. 520

521

We note that high frequency waveforms are characterized by small anomalies, indicating that 522 what we detect in our analysis tells us something about the characteristic lengths of the shallow 523 spatial distribution of permeability. It is well-known that below 1.0 Hz surface waves dominate 524 the ground motion at short distance (e.g., Malagnini et al., 2000), and so the dimensions of 525 526 permeability elements (clusters of interconnected cracks) affecting attenuation must be 527 comparable with the 0.5 Hz wavelength (1-4 km). At higher frequencies we sample deeper paths because only crustal S-waves enter the calculation, and the characteristic lengths of the 528 permeability heterogeneity distribution are smaller and comparable with the sampling 529 530 wavelengths. For instance, at around 2 Hz such characteristic length may be between 0.5 and 1.5 531 km.

532

An analysis over the first 12 hours after the Amatrice main event shows three diffusion branches 533 that follow a functional form of  $d \propto t^{0.5}$  in a distance-time plot (Figure 6). Diffusion phenomena 534 (heat or fluid diffusion equations) must have this form (see Nur and Booker, 1971; Malagnini et 535 al., 2012). The diffusion curves are fit to a  $d \propto t^{0.5}$  curve using a least squares method that finds 536 the best fitting diffusivity constant value ( $r^2$  values are given on the figures). The diffusion 537 patterns are not simple (upper-left frame of Figure 6) and have also been noted by others (e.g., 538 Tung and Masterlark, 2018; Convertito et al., 2020). Groundwater changes were also noted 539 during and after the Amatrice mainshock (e.g., De Luca et al., 2018). As stated by Malagnini et al. 540 (2012) for the M6.1 L'Aquila earthquake of April 6, 2009, and for the sequence of three large 541 542 aftershocks that occurred on the Campotosto-Monti della Laga and Vettore-Monte Bove faults, it is likely that the tendency of the Apennines to produce diffusive episodes of crustal pore fluids 543 inhibits large main shocks in favor of sequences of smaller events. In other words, the fault 544 ruptures earlier in its seismic cycle. The time history of the attenuation parameter in one narrow 545 frequency band (2 Hz) is shown in the bottom frame of Figure 6, whereas the high-frequency 546 time history shows fluctuations of moderate amplitude, the 2-Hz waveform shows a marked 547 decrease (to less attenuation) that lasted a bit less than 6 hours, followed by a rebound towards 548 normal values. It is interesting that the minimum of  $Q_s^{-1}(f = 2 Hz, t)$  happens ~ 2.5 hours after 549 the main shock, and is followed by a large positive swing less than 3 hours after the main event. 550 551

552 The same analysis is performed on a 10-day period starting at the onset of the Visso main event of October 26, 2016 (Figure 7). The Norcia earthquake (ML 6.5, **M** 6.33) is also included. The 2 Hz 553 attenuation curve is characterized by a similar behavior as after the Amatrice shock. First, at the 554 555 onset of each main event, the attenuation parameter plunges steeply, then it bounces back. The time scale is about 20 times wider than that following Amatrice (Figure 6), but the negative-556 positive swing after each main shock takes about 24 hours to complete, which is roughly twice 557 558 the time it took for the same swing after the Amatrice main event. Figure 8 shows yet another interesting situation, where a separate small seismic sequence hits the Campotosto fault (Cheloni 559 et al., 2019; Falcucci et al., 2018; Gori et al., 2019) with a series of four M5+ events that occurred 560

in less than 5 hours. The sequence migrates quickly southward along the fault with a clear diffusive signature. Potential diffusion pathways are highlighted by microseismicity from the high resolution relocated catalog of Tan et al. (2021), where fault structures are apparent in cross section view (Figure 9).

565

In the three cases documented in Figures 6,7,8, the diffusion coefficient is very large, up to  $D \approx 2000 \text{ m}^2/\text{sec}$  for the faster diffusion branch activated by the Amatrice main shock (1-D diffusion). The smallest diffusion coefficient is found for the Capitignano subsequence ( $D \approx 53 \text{ m}^2/\text{sec}$ ). With the exception of the latter, whose subsequence occurred on the same Campotosto-Monti della Laga fault that saw a similar diffusion episode in 2009 with  $D = 60 \text{ m}^2/\text{sec}$  (Malagnini et al. 2012), we find very high diffusion coefficients. We use the following equation, from Townend and Zoback (2000), to compute the rock permeability:

573

$$\kappa = D\eta (\phi \beta_f + \beta_r). \tag{1}$$

574

For a rock compressibility  $\beta_r = 2 \cdot 10^{-11}$  Pa<sup>-1</sup>, a fluid compressibility  $\beta_f = 5 \cdot 10^{-10}$  Pa<sup>-1</sup>, using 575 a porosity  $\phi = 0.05$ , a viscosity  $\eta = 1.9 \cdot 10^{-4}$  Pa-s, and a diffusion coefficient D in the range 576 between 50 m<sup>2</sup>/sec and 2000 m<sup>2</sup>/sec (from the results shown in Figures 6,7,8), we estimate the 577 crustal permeability along the activated fault systems to be in the range between  $\kappa = 3 \cdot 10^{-13}$ 578 m<sup>2</sup> and  $\kappa = 1 \cdot 10^{-11}$  m<sup>2</sup>. These estimates of rock permeability are much higher than the ones 579 obtained for undamaged upper crust (typically between 10<sup>-17</sup> m<sup>2</sup>, and 10<sup>-16</sup> m<sup>2</sup>, Townend and 580 Zoback, 2000), because they are relative to fresh main shock rupture zones. They are not 581 extreme, though; for example, right after the Dobi extensional earthquake sequence in Central 582 Afar, Noir et al. (1997) estimated a permeability  $\kappa \approx 10^{-8}$  m<sup>2</sup>. 583

584

The estimates of permeability provided above are relative to critically stressed faults that just ruptured, not to the off-fault rock matrix, where we expect that the negative dilatation due to normal-faulting earthquakes would reduce crack density and thus permeability. In other words, the values of permeability found here are relative to the crustal plumbing system in the epicentral region (fault planes outlined by the seismicity in Figure 9), in the sense described by Townend and Zoback (2000), which is contained in a volume in which the bulk permeability has decreased
due to the effect of the elastic stress drop from normal faulting earthquakes (Muir-Wood and
King, 1993).

593

594 Seismic attenuation occurs during propagation through bulk crustal rocks, and it is unaffected by 595 the variations of permeability of the regional plumbing network. On the contrary, because 596 episodes of macroscopic diffusion like those documented in Figures 6,7,8, occur along critically 597 stressed fault planes, their parameters cannot be used to compute rocks' bulk permeabilities.

598

599

# 600 Effects of cumulative dilatation on $Q_S^{-1}(f, t)$

601

In the hypothesis that time-dependent seismic attenuation depends on rock permeability, we 602 expect associations between earthquakes and changes in  $Q_S^{-1}(f,t)$  to be caused by crack 603 closure/opening induced by static stress changes from moderate-to-large events that occurred 604 at short distances (e.g., Muir-Wood and King, 1993). We note widespread relative coseismic 605 compression in the aftermath of mainshocks during the seismic sequence and narrower zones of 606 607 dilation along fault zones (Figure 5a). During the period between the Amatrice mainshock up to the Visso event, most of the crust is under compression just south of the Visso mainshock 608 609 location. Inferred fluid flow patterns suggest northward migration away from the compressed zones (and perhaps along opened fault planes) towards the Visso area as well (Figure 5b). The 610 Visso plane is calculated to mostly have a static stress increase from the cumulative effects of 611 prior events (Figure 10), so it is difficult to assess the relative impacts of fluid diffusion vs. static 612 613 stress change triggering. Fluid flow calculations on the Visso plane based on normal stress changes where fluids are expected to migrate away from zones of clamping and into unclamped 614 zones (assuming a sealed fault zone) do imply flow to the north towards the eventual slip zone 615 616 (Figure 10).

617 Similarly, after the Visso mainshocks the crust around them is calculated to have a primarily 618 compressive effect with a small gap near the Norcia mainshock (Figure 5a). Calculated fluid flow

from just prior to the Norcia mainshock implies flow south towards the Norcia hypocenter as well 619 (Figure 5b). The static stress change pattern on the Norcia rupture is complex (Figure 10) with 620 about equal areas of Coulomb stress increase and decrease. Areas of peak slip are shown after 621 622 Chiaraluce et al. (2017), which match reasonably well with the Coulomb stress increases and 623 perhaps slightly better with changes in normal stress. Expected fluid flow changes on the fault plane from normal stress changes imply flow towards zones of greatest slip (Figure 10). The 624 dominant postseismic signal is negative dilatation that is expected to be associated with crack 625 closure, which causes fluids to migrate away from these regions (Figure 5b). This model is 626 supported by water level and fluid diffusion observations that were made in the immediate 627 periods following some of the larger earthquakes within the Amatrice-Visso-Norcia and 628 Capitignano sequences (e.g., De Luca et al., 2018; Petitta et al., 2018). Moreover, Chiarabba et 629 630 al. (2020) also supported the idea that increased fluid pressure weakened the slip patches of the fault plane of the Norcia main shock. 631

632

#### 633 **Discussion**

634

Multiple physical processes are likely responsible for temporal changes in seismic attenuation, 635 so we must thus consider multiple coseismic effects from earthquakes as we attempt to 636 understand the observed signals that accompany seismicity. If we were to compile a list of all the 637 things that could cause a change in Q, we would need to include many different characteristics 638 639 of the specific crustal volume under investigation: thermal state, fracture density, changes in consolidation, fluid saturation, etc. Here we argue that the two most likely post-earthquake 640 641 causes of fluctuations in the attenuation parameter are represented by the effects that rock dilatation (from the cumulative stress drop from the earthquakes of the sequence) and damage 642 (from strong shaking) induce on the mobility of pore fluids within bulk rocks. Negative dilatation 643 and damage occur simultaneously in two different ranges of depth: while dislocation-induced 644 645 dilatation acts on the crustal volume around nucleation (depth~6-8 km), stress wave-induced damage is a shallow phenomenon (depth<1 km, see Kelly et al., 2013). 646

After a strong earthquake, we observe two competing effects of opposite signs that alternatively 648 dominate the attenuation parameter in different time windows: damage (increase of 649 permeability and attenuation), and increased/decreased compression (decrease/increase of 650 permeability and attenuation). Our results indicate that the attenuation parameter  $Q_{S}^{-1}(f, t)$  is 651 very sensitive to fluid mobility (intra- and inter-crack) and to fluid saturation, and, together with 652 the theoretical work by O'Connell and Budiansky (1977), strongly support the idea that seismic 653 attenuation is intimately linked to crustal bulk (not fault) permeability. From our results, it follows 654 that crustal permeability is modulated by variations in the compressional stress (e.g., the post-655 earthquake compression that occurs in normal tectonics, see Muir-Wood and King, 1993), and 656 that fluid viscosity is the reason why a substantial portion of seismic energy goes into heat in the 657 crust. More compression must correspond to less seismic attenuation, and vice-versa. Our 658 analysis is extremely simple and can be summarized by just eq. (1), making artifacts very easy to 659 660 spot.

661

Moreover, if permeability and attenuation are linked, then the sudden coseismic increases of 662  $Q_{S}^{-1}(f, t)$  observed at low frequency in Figures 3 and 4 is likely the result of an increase in crack 663 density and interconnection (permeability) associated with damage produced by the strong-664 motion surface waves radiated by the three main shocks of the sequence. Whereas we are unable 665 to bring direct quantitative proof of the effects of damage, we rely on the results of other studies 666 (e.g., Chen et al., 2015; Kelly et al., 2013; Rubinstein and Beroza, 2005). Our calculations show a 667 sizeable and stable overall decrease in the attenuation parameter  $Q_{s}^{-1}(f,t)$  before the seismic 668 sequence and after the sequence ends, which corresponds to the negative cumulative dilatation 669 caused by the elastic stress drop from the Central Apennines sequence of normal faulting 670 earthquakes (Amatrice-Visso-Norcia, see Figure 5a). Note that the negative dilatation of Figure 671 5a is calculated at 5 km in depth, and that it corresponds to a reduction in the crack density of 672 crustal rocks. 673

674

It is important to consider that we analyzed seismic attenuation at a 40 km hypocentral distance,
and verified that the 1/Q variations were virtually identical at an 80 km hypocentral distance

(Figure S5), as well as at a 30 km hypocentral distance (not shown). We conclude that the 677 observed variability over time of high-frequency observations of 1/Q must be relatively deep 678 (hypocentral depths are 5-9 km). At frequencies  $f \le 1$  Hz, it is likely that surface waves start 679 dominating the seismograms (see the flattening of the average 1/Q(f) below 1.0 Hz in Figure 3d), 680 681 and they sample a shallower portion of the crust. We can estimate the minimum depth by considering that we use a minimum group velocity of 1.5 km/s. At 1.0 Hz, which has a 1.5-km 682 wavelength. A meaningful maximum value for surface-wave group velocities at 1.0 Hz could be 683 around 3 km/s. As a rule-of-thumb, surface waves sample the crust to 1/3 of their length, and so 684 we conclude that, at frequencies below 1 Hz, we obtain information on the attenuation between 685 a few hundred meters and 1 km depth. 686

687

688 In the immediate aftermath of a mainshock, the competition between shallow rock damage and negative dilatation at depth is evident at intermediate frequencies where a short-lived increase 689 of the parameter  $Q_{\rm S}^{-1}(f,t)$  is probably related to shallow rock damage, and is followed by a 690 stable decrease of the same parameter (deeper crack closure). Zooming in on short intervals (0.5-691 10 days) immediately after mainshocks (i.e., Amatrice, Visso-Norcia, Capitignano), we see a 692 consistent pattern (Figures 6,7,8). Each mainshock that initiates a sequence is associated with a 693 sharp increase in  $Q_{S}^{-1}(f,t)$  followed by a comparatively steep drop (Figures 6,7,8, 11, 12, and 694 S2). We observe coincident distance (d) and time (t) behavior of  $M \ge 3.5$  earthquakes that is 695 consistent with fluid diffusion, where  $d \propto t^{0.5}$  (Figures 6,7,8). A subsequent gradual recovery 696 of  $Q_s^{-1}(f, t)$  persists up until the next mainshock (Figure 12). We hypothesize that this recovery 697 is associated with the redistribution of fluids into newly damaged faults and into the shallow crust 698 where bubble production induced by traveling stress-waves may also cause significant 699 700 attenuation (Tisato et al., 2015).

701

We argue that a dislocation-induced pressure front generated by a large earthquake and its largest aftershocks could trigger another mainshock on either a nearby fault, or on an adjacent, locked patch of the same fault. The new event could even propagate the pressure front further away, not necessarily in the same direction, starting a cascade of events. In fact, in multimainshock seismic sequences like the ones that struck the Apennines, multiple cycles of sudden attenuation drops, and more gentle attenuation recoveries suggest that multiple mainshocks may be triggered by intermittent episodes of fluid migration.

709

For example, we note that the Visso and Norcia earthquakes both lie on the same diffusion curve 710 (Figure 7), meaning that it is possible that increased fluid pressure played a role in triggering the 711 largest earthquake in the Central Apennines sequence. High-resolution catalogs of relocated 712 earthquakes (e.g., Tan et al. 2021) highlight fault surfaces that likely act as high-permeability 713 fluid pathways (Figure 9). The described mechanism could produce the occurrence of multi-714 mainshock sequences, in the Central Apennines as well as in any other extensional environment. 715 716 As hypothesized by Malagnini et al. (2012), the induced fluid migration could also favor the segmentation of a major earthquake in multiple ruptures of smaller magnitudes. 717

718

Finally, a similar process could drive the preparatory phase of an isolated mainshock, where an 719 individual fracture grows preferentially at the expense of the rest of the fracture population 720 within the same crustal volume. Tectonic stress would concentrate on the growing crack, while 721 722 relaxing within the adjacent crustal volume. The resulting reduction in crack porosity and the 723 generalized closing of fractures and cracks in the volume surrounding the growing dominant fracture would cause a reduction in seismic attenuation, an increase in pore-fluid pressure, and 724 a migration of pore fluids. The process would culminate with the occurrence of the first main 725 shock. 726

727

#### 728 **Open questions:**

729

1. Why is crustal attenuation extremely sensitive to bulk compression/dilatation? Malagnini et al., (2019) used the results by Johnson et al. (2017) and demonstrated that, at 2-4 km in depth on the SAF at Parkfield, the attenuation parameter responds to normal stress cyclic anomalies across the fault of the order of ~ 100 Pa. The extreme sensitivity indicates that it is the ground

motion noise that dominates the random fluctuations that affect our measurements, and not
fluctuations of the physical properties of crustal rocks. Once we reduce the noise to a
sufficiently low level, we only see the fluctuations of rock permeability. This demonstrates
that other physical properties of crustal rocks are very stable over time. This is especially
important for analyzing the effects of long-period stress periodicities, like the ones associated
with seasonal loading and unloading from precipitation, multi-year wet-dry cycles, the polar
tide, or solid Earth tides with multiple and submultiple periods of 28 days.

741 2. The most important aspect of this research is the potential use of our results for monitoring 742 purposes, where precursory phenomena of large earthquakes might be detected. In fact, the 743 evolution of the crustal crack distribution yields information about variations in strength of 744 some portions of the crust under mounting tectonic stress, where stress tends to concentrate 745 before a crustal rupture. If observed fluctuations of the attenuation parameter are directly 746 linked to variations in the crack density, the latter must be in direct connection with variations 747 of strength.

748

We note that Italy already has a high-quality seismic network (the Rete Sismica Nazionale, RSN). If the station density of the RSN was improved by an order of magnitude, we would be able to monitor the variability of the attenuation parameter of small regions of specific interest. At least, it would become possible to monitor localized anomalies in the attenuation parameter. Borehole stations would allow a much lower magnitude threshold than the one used here ( $M \ge 2$ ) for high-quality recordings of small earthquakes, allowing a finer spatial and temporal resolution in our monitoring purposes.

756

A much denser seismic network made of borehole instruments could produce a huge volume of high-quality recordings, and AI algorithms would have to be developed for the quality control of the recorded waveforms. They could be run in quasi-real time, in parallel with multi-frequency sets of regressions like the one presented here. The goal would be to use such tools to locate attenuation anomalies in space and time, in a quest for precursory phenomena.

#### 763 **5 Conclusions**

764

The characteristics of the attenuation parameter (Figures 3, 4, 11, and 12) confirm the conceptual 765 model formulated by Malagnini and Parsons (2020), that the time variations in rock permeability 766 767 modulate the variability of the attenuation parameter. In fact, Figures 3d and 4 show that the average level of the background attenuation parameter between January 2013 and immediately 768 prior to the onset of the sequence, on August 24, 2016, is higher than the background value after 769 the sequence. Figure 5a shows that the cumulative effect of the seismic sequence (the multiple 770 main shocks) on the study area was a negative dilatation (relative increase in compression); such 771 an effect favored crack closure, and thus a decrease in permeability, and in anelastic attenuation 772 as well. 773

774

The Central Apennines is a region under extensional tectonics, prone to multi-mainshock seismic
sequences behaving like a cascade of several mainshocks: for example the 2016-2017 seismic
sequence studied here, the Umbria-Marche sequence (swarm) of 1997-1998 (Miller et al., 2004;
Amato et al., 1998), and the episode that occurred during the 2009 L'Aquila-Campotosto-Monti
della Laga sequence (Malagnini et al., 2012).

780

781 Here we propose a possible physical mechanism for a cascade of multiple main shocks under extensional tectonics. We envision two main phases: 1) a pre-seismic phase that lasts up to the 782 first earthquake and 2) intermediate phases, which may be cycled through several times, one for 783 each subsequent main shock. In the first phase, the dilatancy model (Scholtz, 2019) predicts that 784 at some point the preferential growth of one fracture takes place at the expense of the general 785 population of cracks that tend to close during this preliminary phase. Such behavior must have 786 consequences on pore fluid pressure, which changes as stress affects cracks. Pore-fluid drops 787 imply fault strengthening, and inhibit rupture. Conversely, pore-fluid pressure rises imply fault 788 weakening, and promote rupture. In the intermediate phases that start at mainshock onsets, two 789 main physical processes compete in defining the attenuation parameter, rock permeability and, 790 791 consequently, pore-fluid pressure. These processes are damage and negative dilatation (stress

drop). While damage would correspond to a drop in pore-fluid pressure in the shallow crust,
negative dilatation and healing correspond to a deeper pore-pressure rise.

794

795 Muir-Wood and King (1993) observed that, in an extensional environment, the seismic stress 796 drop of a main event always increases stream discharge, up to an order of magnitude more in volume than a reverse-fault mainshock of the same magnitude. This is because the elastic stress 797 drop tends to close cracks oriented orthogonally to the (horizontal) direction of the minimum 798 principal stress, causing a sudden increase in the pore-fluid pressure. A similar crack closure 799 (pressure rise) may be envisioned in the pre-seismic phase, in which dilatancy predicts the 800 preferential growth of one crack that is favorably oriented to the stress field, at the expense of 801 802 the general population of cracks that during this preliminary phase tends to close.

803

804 Our conceptual model may be described as follows:

805

During the pre-seismic rupture growth in an extensional environment there may be a "slow"
 localized negative dilatation, crack closure, pore-pressure rise and migration (diffusion) along
 fault, and a resulting decreased fault strength that leads to the first main rupture. In all that
 we describe, permeability must be low enough to support local pore pressure increases,
 probably over a time scale of several weeks or months.

2. The first main event produces coseismic damage and negative dilatation: while the first causes a fluid pressure drop (short-lived), the second causes a fluid pressure rise (persistent); 1/Q<sub>s</sub> shows opposite behavior. In turn, the fluid pressure rise and migration (diffusion) is responsible for the strength reduction in nearby faults, and the occurrence of the next earthquake. The cycling over a number of cascading main events ends when the system is depleted of its elastic energy below a certain threshold, when it is not able to produce any more ruptures.

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993 Figure 1. Representation of the data set. a) Mechanisms of selected earthquakes, including the mainshocks of the Amatrice, Visso and Norcia and the major seven events of Capitignano 994 sequence (from http://eqinfo.eas.slu.edu/eqc/eqc mt/MECH.IT/). Fault traces are represented 995 by colored lines (fault strands with the same color pertain to the same seismogenic fault system, 996 from Gori et al., 2019). Fault systems are matched with the corresponding focal solutions using 997 the same color; stars correspond to the location of the mainshocks, whereas white squares 998 represent the main cities of the area. b) Locations and magnitudes of the 3,236 earthquakes used 999





Figure 2. Histograms describing our data set: a) local magnitudes (ML); b) hypocentral depths; c)
source-receiver hypocentral distances.



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Figure 3. a) Colored symbols: total attenuation (geometric and anelastic) calculated between 10 and 40 km of hypocentral distance in the Central Apennines, before, during, and after the 2016-2017 sequence. Horizontal black segments: durations of each one of the *m* time windows (each

one contains 40 events) used to scan the entire period (horizontal black segments. Indicated are 1009 the main shocks of Amatrice, Visso and Norcia. Malagnini et al. (2019) and Malagnini and Parsons 1010 1011 (2020) hypothesized that the fluctuations of  $Q_S^{-1}(t, f)$  over time as linked to stress-induced 1012 fluctuations of crack density and connectivity. That is, to variations of rock permeability. Within 1013 such a hypothesis, earthquake-generated stress waves induce cyclic movements of rock fluids 1014 through variable compressions of the cracked rock matrix. Along permeable paths of interconnected cracks, seismic waves induce fluid flows of lengths comparable to their 1015 1016 wavelengths: high-frequency seismic waves act only on comparatively short paths of 1017 interconnected cracks, low-frequency seismic waves can affect longer paths, and the two situation would be differently efficient in attenuating seismic waves, because although they 1018 would be dominated by different loading times, the circulating fluid would be the same, and its 1019 viscosity would be constant. **b)** Two-D representation of the attenuation parameter  $Q_{S}^{-1}(t, f)$ , 1020 which indicated the magnitudes and times of occurrence of events with  $M \ge 4.5$ . The frequency 1021 axis is in log scale. c) Epicentral locations of the events with  $M \ge 4.5$  indicated in b). Rectangles 1022 1023 indicate the approximate ruptures of the three main shocks of the sequence. d) Time-averaged attenuation parameters  $\langle Q_s^{-1}(f) \rangle$  calculated in the pre-Amatrice time window (January 07 2013) 1024 through August 23 2016, red symbols), and in the post-Amatrice one (August 24 2016 through 1025 1026 August 20 2020, green symbols).



1027



first main shock of the Amatrice sequence (M6, 24/08/2016), the seismic parameter in the 1034 epicentral region undergoes an instantaneous drop due to the coseismic stress drop-induced 1035 1036 negative dilatation. The latter produces a sudden reduction of the crustal bulk permeability via a reduction of crack density and interconnection. The strong ground shaking is responsible for a 1037 1038 contrasting action that tends to increase crack density in rocks that are very close to the free 1039 surface through damage (Rubinstein and Beroza, 2005; Kelly et al. 2013; Malagnini et al., 2019). Damage produces the positive peaks that affect the attenuation parameter at low-frequency 1040 (say, below 2.0 Hz), that occur immediately after the negative anomalies discussed earlier. 1041 1042 Damage probably also produces the thin "lines" of increased attenuation parameter that can be 1043 seen after each main shock (see Figure 11). Because low-frequency shaking is associated with surface waves, in such a portion of the spectrum, damage is the dominant effect over reduction 1044 1045 of crack density and permeability produced by the coseismic stress drop.



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**Figure 5. a) Cumulative dilatation.** Cumulative dilatation is calculated assuming the SW dipping moment tensor solutions of M≥3 earthquakes were the rupture planes. Dilatation is shown on horizontal planes at 5 km depth, and a cross section is also shown. If drops in  $Q_s^{-1}(f,t)$  are related to drops in crack density, negative dilatation (compression) is to be expected, in close agreement with the conceptual model by Muir-Wood and King (1993). **b)** Expected relative flow magnitudes and directions resulting from coseismic dilatation 1053 changes caused by M≥3 earthquakes beginning with the 24 August 2016 Amatrice
1054 earthquake to times just before the Visso, Norcia, and Capitignano earthquakes.
1055



Figure 6. Diffusion and attenuation vs. time: Amatrice. Upper: three different simultaneous 1057 diffusion processes may be recognized mostly to the North of the Amatrice main shock. Map view 1058 1059 to the right. Lower: 2.2 Hz seismic attenuation (black solid line) drops for about six hours after 1060 the mainshock, then goes back to higher values (still negative). The drop in attenuation may be 1061 associated to the effect of the coseismic stress drop on the crustal cracks (coseismic crack closure 1062 is expected in normal-faulting earthquakes, see Muir-Wood and King, 1993) and thus to crustal permeability. Over a broader time window, the effects are clear and may be interpreted in terms 1063 of two competing effects: damage of shallow crustal rocks (Rubinstein and Beroza, 2005), and 1064 1065 crack closure due to the coseismic stress drop of a normal-faulting earthquake. The colors of the 1066 vertical lines associated with earthquakes correspond with the earthquakes portrayed by colored 1067 circles in the upper panel. 1068



Figure 7. Diffusion and attenuation vs. time: Visso-Norcia. Upper: diffusion process associated to the mainshocks of Visso (October 26, 2016) and Norcia (October 30, 2016), with a map view to the right. Lower: 2.2 Hz fluctuation of the seismic attenuation parameter around the pre-Amatrice average. The colors of the vertical lines associated with earthquakes correspond with the earthquakes portrayed by colored circles in the upper panel.

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1077 Figure 8. Diffusion and attenuation vs. time: Capitignano. Upper: diffusion process associated 1078 to the seismic sequence of Capitignano (January 18, 2017). Map view to the right. Lower: 2.2 Hz 1079 fluctuation of the seismic attenuation parameter around the pre-Amatrice average. The colors of



Capitignano (1/18/17 09:25) cross-section (red: +0.1 days, green: +0.2 days, blue: +4 days)

1085 1086

Figure 9. Cross-sectional views of relocated catalogs. Relocated earthquake catalogs of the 1087 Central Apennines seismic sequence (Tan et al., 2021). The top panel shows an eastward 1088 view that highlights a basal detachment at ~10-15 km depth as well as several structures 1089 above it. Red events correspond to the first 0.1 days after the Amatrice mainshock and 1090 to the first two diffusion curves in Figure 6, and the green dots include all three diffusion 1091 events; these earthquakes highlight potential fluid diffusion pathways along faults. The 1092 red events in the center panel correspond in time with the potential diffusion event 1093 between the Visso and Norcia shocks (Figure 7). The lower panel shows potential 1094 diffusion pathways involving the Capitignano sequence of 4 M≥5 shocks (Figure 8). 1095 1096





Figure 10. Calculated static stress changes from M≥3 earthquakes beginning with the 24 August 2016 Amatrice earthquake resolved on the ruptures of the Visso and Norcia earthquakes (left and right columns, respectively). Hypocenters are shown by yellow stars and approximate slip distributions outlined from solutions by Chiaraluce et al. (2017). Coulomb stress changes are mostly positive on the Visso plane (calculated with an intermediate friction coefficient of 0.4). Shear and normal stress changes are also shown. Expected magnitudes and directions of relative fluid flow resulting from normal stress

- changes are superposed on the normal stress change map for both the Visso and Norcia
- 1106 ruptures. The Norcia plane shows very complex patterns of stress change and fluid flow.



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**Figure 11.** 3D visualization of the seismic attenuation parameter  $Q_S^{-1}(f,t)$  during the most 1108 energetic part of the Amatrice-Visso-Norcia seismic sequence. Indicated are the occurrences of 1109 1110 the three mainshocks and of the Capitignano sub-sequence of January 18 2017. It is very clear 1111 that the earthquakes produce a sharp coseismic drop in seismic attenuation at relatively high frequencies (only frequencies  $f \ge 1$  Hz are plotted here) due to crack closing (Muir-Wood and 1112 King, 1993), followed by a more gentle rise, probably due to fluid displacement through diffusion, 1113 and a wide through that is probably due to the cumulative effects of coseismic crack closure 1114 1115 produced by the aftershocks. The pattern is reproduced after each main event, and after the 1116 Capitignano sub-sequence.



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Figure 12. Conceptual model of fluid behavior. Scaling the attenuation vs. time curves from after 1118 the Amatrice, Norcia, and Capitignano earthquakes, we note a consistent shape. Each mainshock 1119 that initiates a sequence is associated with a sharp increase in  $Q_{S}^{-1}(f, t)$ , f = 2.2 Hz, followed 1120 by a comparatively steep drop. This happens during periods where potential diffusion is also 1121 observed. A subsequent gradual recovery in  $Q_S^{-1}(f,t)$ , f = 2.2 Hz, persists up until the next 1122 mainshock. We hypothesize that this recovery is associated with the redistribution of fluids into 1123 newly damaged faults and into the shallow crust. The question mark on the dashed segment of 1124 the 1/Q curve indicates that such a horizontal segment is there for a reference purpose only, for 1125 we have no information about what happens to the attenuation parameter right before the 1126 Amatrice earthquake. 1127



[Journal of Geophysical Research, Solid Earth]

Supporting Information for

# **Crustal Permeability Changes Inferred From Seismic Attenuation: Impacts on Multi-Mainshock Sequences**

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# Contents of this file

Figures S1, S2, S3, S4, S5, S6, and S7. Tables S1, S2, and S3. An introductory text is also provided.

The catalog of the earthquakes used in this study is provided as a separate file.

# Introduction

We describe the time variability of the attenuation parameter,  $Q_s^{-1}(f,t)$ , in the Central Apennines region (Italy), between January 2013 and the end of August 2020. As it is described in details in the main text,  $Q_s^{-1}(f,t)$  is obtained by correcting the total attenuation (a sample is plotted in Figure 3a of the main text) for the effect of the geometric attenuation that was quantified by Malagnini et al. (2011, their eq. (3)).

In our study we consider two physical parameters, rock permeability and anelastic attenuation of seismic waves, to be somehow equivalent; our statement is based on the following evidence/interpretation:

- 1. Increased attenuation has been observed at Parkfield following strong motion (see Kelly et al., 2013; Malagnini et al., 2019; Malagnini and Parsons, 2020).
- 2. Increased  $Q_s^{-1}(f,t)$  has been observed after weak shaking from large distant earthquakes (see Malagnini et al., 2019, and Malagnini and Parsons, 2020). Moreover, permeability variations induced by weak shaking in natural environments are described by Brodsky et al. (2003), Manga et al. (2012), Manga and Brodsky (2006), and Parsons et al. (2017). The same phenomenon is also observed in laboratory experiments (Liu and Manga, 2009). We interpret weak-motion shaking-induced increases in  $Q_s^{-1}(f,t)$  in terms of increased permeability, due to the removal of colloidal deposits by cyclic flow-induced shear stresses acting on the internal surfaces of cracks.
- 3. Decreased  $Q_s^{-1}(f,t)$  has sometimes been observed after weak shaking, generally from teleseismic earthquakes (Malagnini et al., 2019). We interpret the decreased attenuation in terms of a reduction of permeability due to re-deposition of mobilized colloidal particles in adjacent rock volumes bounded by impermeable surfaces (i.e., a fault zone, see *in situ* results from Malagnini and Parsons (2020) and laboratory results by Liu and Manga (2009));
- 4. Cyclic variations of  $Q_s^{-1}(f,t)$  have been observed at seasonal as well as at multiple tidal periods, plausibly due to pressure-induced variations in crack density (Malagnini et al., 2019). In order to link the observed time variations of  $Q_s^{-1}(f,t)$  to rock permeability, we can use a result obtained by Silverii et al. (2018), who noticed that the vertical and the horizontal deformations in the

Apennines are out of phase: whereas the first represents the (instantaneous) elastic response to the load/unload seasonal cycle (maximum load is obtained in summer, minimum load in winter), the second is the result of the increased pore pressure at depth, which is delayed by the time needed for fluids to percolate through the crust in the aquifers (maximum pore-fluid pressure at depth is reached in summer), and to be discharged (minimum pore-fluid pressure at depth is reached in winter).

If hydrostatic pressure at depth in the Apennines peaks in summer, it corresponds to the opening of vertical crustal cracks. In turn, the latter corresponds to increased permeability and fluid mobility. On the contrary, permeability decreases correspond to decreases of hydrostatic pore-fluid pressure, and to closing of vertical crustal cracks that occur in winter (Silverii et al., 2018). The correspondence of higher attenuation in summer and lower attenuation in winter can be seen in Figures 4 and S2. Similar seasonal fluctuations were observed along the San Andreas fault at Parkfield by Malagnini et al. (2019).

- 5. Progressive increase of  $Q_s^{-1}(f,t)$  has been observed before the **M**6 2004 Parkfield main shock on the Pacific side of the SAF (in extension); opposite, progressive decrease of  $Q_s^{-1}(f,t)$  has been observed, before the Parkfield main shock, on the North American side of the SAF (in compression, Malagnini et al.,2019).
- 6. Malagnini et al. (2019) demonstrated that variations of  $Q_s^{-1}(f,t)$  on the SAF are inversely correlated to variations of normal stress on the fault. In fact, an instantaneous increase of  $Q_s^{-1}(f,t)$  was observed on the Pacific side of the SAF at the time of the **M**6.5 San Simeon event, due to increased Coulomb stress on the SAF at Parkfield. An opposite, instantaneous decrease of  $Q_s^{-1}(f,t)$  was observed on the North American side of the SAF. Johanson and Bürgmann (2010) quantified the unclamping induced by the San Simeon earthquake on the SAF, which caused the anomalies in the attenuation parameter.

### *Physical mechanism of crustal anelastic attenuation:*

O'Connell and Budiansky (1977) developed a theoretical model that linked together some physical parameters:

- 1) (bulk) crack density;
- 2) fluid saturation;
- 3) fluid viscosity (that is, relaxation times in viscous behavior);
- 4) fluid compressibility;
- 5) (bulk) rock porosity;
- 6) pore (rock) compressibility.

The theoretical model describes two mechanisms of elastic energy dissipation:

- 1) viscous relaxation of fluids within the same crack;
- 2) viscous relaxation through fluid flow between cracks.

Three regimes are allowed:

- 1) saturated isolated;
- 2) saturated drained;
- 3) glued.

Bulk rock permeability plays a fundamental role in the model. Specifically, the higher the permeability, the higher the fluid mobility, and thus the fraction of the elastic energy that can be dissipated via the two mechanisms listed above. Depending on the frequency of oscillation, either one of the three regimes listed above is allowed.

At transitional frequencies that separate two adjacent regimes, peaks in  $Q^{-1}(f)$  are expected.

### Further contents include:

- 1. A rough display of the spatio-temporal evolution of the seismic sequence (Figure S1), in which we provide information useful for judging the performance of the approach used for the computation of seismic attenuation. In fact, Figure S1 describes the spatial distributions of earthquakes in three different time windows of special importance for this paper: pre-Amatrice, post-Amatrice through pre-Visso, and post-Visso;
- 2. A zoom on the most energetic part of the seismic sequence, between the Amatrice mainshock (24/08/2016) and 31/12/2016 (Figure S2);
- 3. An error plot (Figure S3);
- 4. A trade-off analysis (Figure S4);
- 5. A plot of the attenuation parameter computed using the total attenuation at a hypocentral distance of 80 km (Figure S5), which allows a direct comparison with the results of Figure 4 of the main text, where the hypocentral distance used was 40 km;
- 6. A robustness analysis (Figure S6);
- 7. Evidence of an interesting negative correlation between seismic attenuation and the instantaneous release of seismic moment (Figure S7).

Here are the detailed contents:



# 1. Spatio-temporal distribution of the seismicity

**Figure S1.** The locations of the events used for the computation of  $Q_s^{-1}(t, f)$  in the Central Apennines during the 2016-2017 seismic sequence of Amatrice-Visso-Norcia, in three different time windows: **a**) 01/01/2013 - 23/08/2016; **b**) 24/08/2016 - 25/10/2016; **c**) 26/10/2016 - 20/08/2020.



2. Zooming in the most energetic part of the sequence

**Figure S2.** Zoom in the  $Q_{S}^{-1}(t, f)$  3-D surface, between 24/08/2016 and 31/12/2016.

3. Error plot



**Figure S3.** Errors with respect to the average (d(log(1/Q)) calculated in the regressions all time windows and for all frequencies.

#### 4. Trade-offs analysis



**Figure S4.** Individual source and site terms plotted as a function of time, during the entire time window analyzed in this paper, at the central frequency of 5 Hz. Upper and middle plots: individual source terms (individual sets of points linked together by a line), for the pre- and post-Amatrice time windows, respectively. Note the sharp decrease in the source amplitudes starting in late spring 2017, due to the fact the most energetic part of the seismic sequence was over, and smaller magnitudes were needed in order to have a decent time resolution. Bottom plot: similarly to the upper and the middle plots, but the site terms are shown in a single frame for the entire time window under investigation.



# 5. Seismic attenuation at 80 km hypocentral distance

**Figure S5.** Attenuation parameter calculated using the total attenuation term at a hypocentral distance of 80 km. No differences can be appreciated with the 40 km computation shown in Figure 4 of the main text.

## 6. Robustness analysis



Figure S6. Robustness analysis applied to the results obtained for the time window 01/01/2013 - 30/06/2017, about the temporal variations of the anelastic attenuation parameter  $[Q_s(t,f)]^{-1}$  (Figure 4 of the main text). We do it by perturbing the hypocentral localizations with random offsets distributed with constant probability within ±5 km in latitude and longitude and ±2 km in depth, as indicated in this Figure. Regression results, shown here, demonstrate the extreme robustness of the Malagnini and Parsons's method (2020), when applied to the 2016-2017 Central Apennines' seismic sequence. We note that the salient features of the parameter  $[Q_{s}(t, f)]^{-1}$  are present in both plots, although the procedure of artificial degradation of the hypocentral locations reduced some of the character of the 3D surface topography. **Top:** results of the same set of regressions calculated on the mislocated data set; Middle results obtained on the original one data set. No appreciable differences can be seen between the two plots; Bottom: Distributions of the random offsets that were applied to mislocate the events.

### 7. Inverse correlation



**Figure S7.**  $Q_s^{-1}(t, f = 2 Hz)$  (blue) is negatively correlated with the instantaneous moment release during the seismic sequence (in red, the function shown in Figure 11 of the main text, multiplied by -1). From this comparison it is very clear that the broad throughs in the blue line do not have counterparts in the instantaneous moment release. The question mark on the dashed segment of the 1/Q curve indicates the lack of information about what happens to the attenuation parameter right before the Amatrice earthquake.

### 8. Tables

Table S1. Stations used in this study:

| Station name | Latitude | Longitude | Altitude (m) |
|--------------|----------|-----------|--------------|
| ACC          | 42.696   | 13.242    | 922          |
| ACT          | 42.7713  | 13.4125   | 45           |
| AMT          | 42.6325  | 13.2866   | 933          |
| ANT          | 42.4182  | 13.0786   | 564          |
| AQA          | 42.3755  | 13.3393   | 693          |
| AQF          | 42.3807  | 13.3547   | 805          |
| AQG          | 42.3737  | 13.337    | 743          |
| AQK          | 42.345   | 13.4009   | 726          |
| AQP          | 42.3837  | 13.3686   | 1192         |
| AQU          | 42.354   | 13.405    | 710          |
| AQV          | 42.3771  | 13.3439   | 692          |
| ASP          | 42.848   | 13.6479   | 89           |
| ASS          | 43.075   | 12.6041   | 390          |
| ASSB         | 43.0426  | 12.6587   | 734          |
| BRS          | 42.3243  | 13.5902   | 977          |
| BVG          | 42.9323  | 12.611    | 216          |

| BZZ  | 42.337  | 13.4685 | 640  |
|------|---------|---------|------|
| CAMP | 42.5358 | 13.409  | 1283 |
| CESI | 43.0049 | 12.9046 | 840  |
| CESX | 42.6085 | 12.5868 | 458  |
| CIT  | 42.5942 | 13.1632 | 873  |
| CLF  | 43.0367 | 12.9204 | 701  |
| CLO  | 42.8294 | 13.206  | 1456 |
| CMI  | 42.8504 | 13.0928 | 767  |
| CNE  | 42.8944 | 13.1528 | 798  |
| CNO  | 43.1421 | 13.0792 | 615  |
| СРТ  | 42.8274 | 12.9251 | 609  |
| CSA  | 43.008  | 12.5906 | 196  |
| CSC  | 42.719  | 13.0122 | 683  |
| CTD  | 42.3884 | 12.9477 | 484  |
| FBR  | 43.3436 | 12.9119 | 31.5 |
| FCC  | 42.7545 | 13.1932 | 1553 |
| FDMO | 43.0365 | 13.0873 | 550  |
| FIAM | 42.268  | 13.1172 | 1070 |
| FMG  | 42.268  | 13.1172 | 1073 |
| FMT  | 43.188  | 12.9332 | 497  |
| FOC  | 43.0263 | 12.8965 | 821  |
| FOCC | 42.9574 | 12.7079 | 283  |
| FOPC | 42.9697 | 12.7031 | 300  |
| FOS  | 43.0146 | 12.8351 | 965  |
| GIGS | 42.4532 | 13.5728 | 960  |
| GLT  | 43.2331 | 12.789  | 607  |
| GNU  | 42.8038 | 12.5702 | 1085 |
| GSA  | 42.4207 | 13.5194 | 1063 |
| GUMA | 43.0627 | 13.3352 | 574  |
| LNSS | 42.6029 | 13.0403 | 1155 |
| LSS  | 42.5582 | 12.9689 | 1067 |
| MCT  | 43.2925 | 13.4189 | 349  |
| MCV  | 42.9934 | 13.0013 | 709  |
| MMO  | 42.8993 | 13.3268 | 1030 |
| MNF  | 43.0596 | 13.1844 | 644  |
| MOMA | 42.801  | 12.5682 | 1040 |
| MOMA | 42.8039 | 12.5701 | 1040 |
| MSC  | 42.5268 | 13.3508 | 1335 |
| MSCT | 42.5267 | 13.3509 | 1382 |
| MTL  | 43.2494 | 13.0083 | 376  |
| MTR  | 42.524  | 13.2448 | 974  |
| NCR  | 43.1115 | 12.7845 | 492  |
| NOR  | 42.7924 | 13.0924 | 661  |
| NRC  | 42.7925 | 13.0964 | 616  |
| NRCA | 42.8335 | 13.1143 | 927  |
| OFFI | 42.935  | 13.6857 | 320  |
| PBN  | 43.0637 | 13.0821 | 503  |
| PCB  | 42.558  | 13.338  | 1315 |
| PGG  | 42.3229 | 13.5394 | 769  |
| PRE  | 42.8793 | 13.0334 | 622  |

| PTI   | 43.0665 | 13.657  | 294  |
|-------|---------|---------|------|
| PZI1  | 42.4356 | 13.3262 | 908  |
| RQT   | 42.813  | 13.311  | 1188 |
| RTI   | 42.4302 | 12.829  | 393  |
| SLO   | 42.9002 | 12.9528 | 876  |
| SNI   | 42.632  | 12.554  | 380  |
| SNO   | 43.0371 | 13.3041 | 528  |
| SNTG  | 43.255  | 12.9406 | 650  |
| SPD   | 42.5151 | 13.371  | 1338 |
| SPM   | 42.7232 | 12.7512 | 778  |
| SPO1  | 42.7344 | 12.7363 | 428  |
| T0104 | 42.3599 | 13.3382 | 754  |
| T1241 | 42.8563 | 13.4312 | 664  |
| T1242 | 42.8293 | 13.2044 | 1451 |
| T1243 | 42.6966 | 13.4484 | 1120 |
| T1245 | 42.8565 | 13.188  | 1541 |
| T1246 | 42.5833 | 13.493  | 1134 |
| T1247 | 42.4416 | 13.2983 | 836  |
| T1256 | 43.0063 | 13.226  | 1536 |
| TER   | 42.6565 | 13.6895 | 317  |
| TERO  | 42.6228 | 13.6039 | 673  |
| TLN   | 43.2159 | 13.2584 | 412  |
| TRE   | 42.8765 | 12.7358 | 261  |
| TRL   | 42.4613 | 12.9323 | 1226 |
| TRN1  | 42.5582 | 12.6461 | 175  |
| UST   | 42.9419 | 13.125  | 733  |
| VAL   | 43.1593 | 12.6017 | 348  |

Table S2. Moment tensor solution parameters for the earthquakes used in this study to compute cumulative stress changes.

| Origin Time | Latitude | Longitude | Depth | М    | Azimuth | Dip | Rake | Fit    |
|-------------|----------|-----------|-------|------|---------|-----|------|--------|
|             |          |           |       |      |         |     |      |        |
| 2016.647724 | 42.71    | 13.22     | 5     | 5.97 | 155     | 50  | -85  | 0.718  |
| 2016.647761 | 42.61    | 13.28     | 5     | 4.46 | 115     | 57  | -123 | 0.6013 |
| 2016.647832 | 42.79    | 13.15     | 5     | 5.29 | 136     | 46  | -100 | 0.6889 |
| 2016.647882 | 42.8     | 13.14     | 5     | 3.93 | 331     | 57  | -103 | 0.5912 |
| 2016.647898 | 42.61    | 13.27     | 7     | 3.7  | 332     | 61  | -84  | 0.4871 |
| 2016.647959 | 42.62    | 13.24     | 6     | 4.12 | 330     | 60  | -90  | 0.6554 |
| 2016.648009 | 42.77    | 13.12     | 3     | 4.32 | 340     | 50  | -90  | 0.5354 |
| 2016.648889 | 42.82    | 13.15     | 7     | 4.5  | 335     | 65  | -75  | 0.5542 |
| 2016.649139 | 42.8     | 13.25     | 3     | 3.77 | 220     | 65  | -40  | 0.6158 |
| 2016.649564 | 42.66    | 13.22     | 7     | 4.19 | 339     | 55  | -93  | 0.542  |
| 2016.649859 | 42.78    | 13.15     | 5     | 3.31 | 317     | 63  | -121 | 0.6416 |
| 2016.650018 | 42.8     | 13.17     | 6     | 3.04 | 348     | 50  | -94  | 0.5681 |
| 2016.650201 | 42.65    | 13.21     | 9     | 3.98 | 327     | 56  | -100 | 0.5551 |
| 2016.650648 | 42.75    | 13.21     | 5     | 4.36 | 339     | 72  | -99  | 0.5832 |
| 2016.650752 | 42.69    | 13.23     | 7     | 3.27 | 337     | 50  | -113 | 0.3077 |
| 2016.650827 | 42.62    | 13.33     | 2     | 3.75 | 138     | 61  | -98  | 0.4632 |
| 2016.651297 | 42.61    | 13.3      | 3     | 3.08 | 320     | 55  | -90  | 0.5281 |
| 2016.651681 | 42.61    | 13.25     | 7     | 3.17 | 324     | 65  | -95  | 0.5033 |

| 2016.651708 | 42.6           | 13.29           | 5       | 4.39         | 125         | 55          | -120       | 0.5833 |
|-------------|----------------|-----------------|---------|--------------|-------------|-------------|------------|--------|
| 2016.652514 | 42.59          | 13.29           | 5       | 3.45         | 122         | 54          | -127       | 0.5789 |
| 2016.653013 | 42.67          | 13.29           | 3       | 3.61         | 155         | 55          | -90        | 0.5475 |
| 2016.653476 | 42.7           | 13.23           | 7       | 3.17         | 180         | 55          | -55        | 0.6126 |
| 2016.653501 | 42.62          | 13.29           | 5       | 3.13         | 138         | 48          | -109       | 0.5618 |
| 2016.653515 | 42.6           | 13.29           | 5       | 4.72         | 127         | 50          | -113       | 0.606  |
| 2016.653592 | 42.62          | 13.3            | 5       | 3.23         | 339         | 55          | -93        | 0.5886 |
| 2016.653607 | 42.75          | 13.21           | 7       | 3.21         | 120         | 70          | 90         | 0.6211 |
| 2016.653637 | 42.77          | 13.15           | 5       | 3.36         | 347         | 71          | -107       | 0.5564 |
| 2016.653672 | 42.57          | 13.29           | 7       | 2.87         | 335         | 55          | -80        | 0.4884 |
| 2016 654271 | 42.61          | 13.3            | 5       | 2.83         | 128         | 51          | -124       | 0 4744 |
| 2016 654744 | 42.6           | 13.29           | 5       | 2.03         | 330         | 60          | -75        | 0.613  |
| 2016 654837 | 42.69          | 13.25           | 7       | 3.49         | 323         | 61          | -96        | 0.7015 |
| 2016 655376 | 42.09          | 13.15           | 5       | 3.07         | 355         | 65          | -70        | 0.6052 |
| 2016 65565  | 42.75          | 13.15           | 2       | 3.13         | 170         | 55          | -60        | 0.5379 |
| 2016 655902 | 42.84          | 13.20           | 2       | 3.75         | 175         | 50          | -65        | 0.5935 |
| 2016.656062 | 42.84          | 13.24           | 2       | 3.91         | 175         | 55          | -60        | 0.5555 |
| 2016.656081 | 42.84          | 13.25           | 2       | 29           | 165         | 65          | -55        | 0.3000 |
| 2016.656437 | 42.04          | 13.25           | 2       | 3.46         | 175         | 65          | -60        | 0.5272 |
| 2010.050457 | 42.04          | 13.24           | 2       | 3.78         | 330         | 50          | -70        | 0.5272 |
| 2010.03040  | 42.55          | 13.31           |         | 2.20         | 165         | 85          | 50         | 0.5770 |
| 2016.6568/1 | 42.77          | 13.25           | 5       | 3.06         | 105         | 52          | -102       | 0.5318 |
| 2016.656952 | 42.75          | 13.10           | 2       | 3.53         | 175         | 65          | -102       | 0.5203 |
| 2010.050952 | 42.04          | 13.25           | 7       | 3.55         | 175         | 53          | 106        | 0.5205 |
| 2010.038189 | 42.39          | 13.20           | 5       | 2.14         | 144         | 17          | 105        | 0.0249 |
| 2010.059071 | 42.0           | 12.21           | 7       | 2.14<br>2.21 | 220         | 47<br>E4    | -105       | 0.0194 |
| 2010.059224 | 42.72          | 12.21           | /<br>E  | 2.51         | 124         | 54          | -110       | 0.0808 |
| 2010.03936  | 42.0           | 12.25           | 5       | 2.17         | 124         | <u> </u>    | -97        | 0.555  |
| 2010.059529 | 42.05          | 12.29           | 10      | 3.24         | 140         | 55          | -05        | 0.0000 |
| 2010.059057 | 42.70          | 12.11           |         | 2.95         | 205         | 71          | -130       | 0.5559 |
| 2010.059904 | 42.59          | 12.29           | 0       | 2.57         | 159         | 71          | -95        | 0.0200 |
| 2010.000249 | 42.77          | 12.12           | 9<br>E  | 3.40<br>/ 1E | 206         | 50          | -95        | 0.002  |
| 2010.000265 | 42.02          | 13.24           | 5       | 2 70         | 200         |             | -07<br>9E  | 0.5725 |
| 2016.66070  | 42.82          | 13.14           | 5       | 3.70         | 340         | 22          | -65        | 0.6029 |
| 2016.66079  | 42.74          | 13.2            | 2<br>7  | 3.08         | 324         | 47          | -105       | 0.5562 |
| 2010.0014   | 42.70          | 12.10           | 6       | 2.42         | 121         | 30          | -70        | 0.5502 |
| 2016.661924 | 42.75          | 13.19           | 0       | 3.57         | 212         | 40          | -100       | 0.4675 |
| 2010.002738 | 42.75          | 13.14           | 4       | 2.01         | 110         | 75          | 130        | 0.445  |
| 2016.66337  | 42.05          | 12.15           | 0       | 2.65         | 119         | //          | 128        | 0.6467 |
| 2010.005257 | 42.00          | 13.22           | 4       | 3.15         | 240         | <u>80</u>   | 20         | 0.5659 |
| 2010.004003 | 42.0           | 13.14           | 0       | 2.22         | 252         |             | -03        | 0.5405 |
| 2016.66646  | 42.75          | 12.19           | 0       | 2.87         | 222         | 75<br>61    | -100       | 0.5654 |
| 2016.66696  | 42.82          | 13.20           | 2<br>7  | 2.90         | 536         | 80          | -132       | 0.6414 |
| 2016.667770 | 42.01          | 13.10           | 6       | 3.00         | 50          | - 69<br>E 6 | -105       | 0.0564 |
| 2010.007779 | 42.70          | 12.10           | 0<br>E  | 2.10         | 240         | 50          | -100       | 0.5255 |
| 2010.00/908 | 42.04          | 12.14           |         | 2.90         | 340<br>277  | Q1          | -00        | 0.020  |
| 2016.66810  | 42.07          | 13.24           | 4       | 3.4Z         | 277         | 01<br>75    | 160        | 0.6067 |
| 2010.00019  | 42.70          | 12.24           | 0<br>E  | 2.21         | 201         | 75          | -55        | 0.0902 |
| 2010.00074  | 42.05          | 12.20           | 5       | 2.52         | 32 I<br>24E | 79<br>60    | -134       | 0.3703 |
| 2010.000959 | 42.05<br>12.70 | 13.15           | 5       | 2.20         | 3//         | 65          | -00<br>_02 | 0.7125 |
| 2010.009139 | 42.70          | 13.10           | 5       | 3.42         | 310         | 15          | -92        | 0.0202 |
| 2010.009198 | 42.75          | 12.24           | ر<br>11 | 2.44<br>2.0  | 207         | 45<br>61    | -30        | 0.0394 |
| 2010.009019 | 42.00          | 12.10           |         | 2.7          | 297<br>175  | 60          | -110       | 0.401  |
| 2010.009841 | 42.02          | 12.21           | <br>    | 2.02         | 140         | 50          | -00        | 0.5490 |
| 2010.070170 | 42.00          | 12.23           | 2       | 3.11         | 215         | 70          | -90        | 0.4095 |
| 2010.0705   | 42.01          | 12.24           | 7       | 2.05         | 212         | 20          | -14Z       | 0.5085 |
| 2010.070000 | 42.01          | 10.17           | 6       | 2.1Z         | 220         | 00<br>60    | 110        | 0.4000 |
| 2010.0/0/19 | 42.50          | 12.3            | 2       | 2.54         | 15          | 69<br>E0    | -112       | 0.7037 |
| 2010.0/3883 | 42.75          | 15.14           | 2       | 2.79         | 15          | 5U<br>76    | -05        | 0.4803 |
| 2010.07407  | 44.3<br>77 77  | 0.ש<br>10 גר גר | 2       | 5.00<br>/ 16 | 207         | /0<br>61    | -111       | 0.7020 |
| 2010.075042 | 42.//          | 12.13           | 2       | 4.10         | 330         |             | -30        | 0.5525 |
| 2010.0/5241 | 42.81          | 13.2            | 5       | Z.ð/         | 150         | /4          | -102       | 0.4533 |

| 2016.675919 | 42.93 | 13.26 | 4      | 2.91         | 170 | 80                   | -65  | 0.4087 |
|-------------|-------|-------|--------|--------------|-----|----------------------|------|--------|
| 2016.676038 | 42.87 | 13.21 | 4      | 4.29         | 284 | 85                   | 170  | 0.579  |
| 2016.676621 | 42.87 | 13.22 | 4      | 3.09         | 10  | 70                   | 25   | 0.5971 |
| 2016.676746 | 42.86 | 13.22 | 2      | 2.98         | 115 | 67                   | -136 | 0.5672 |
| 2016.677055 | 43.98 | 7.52  | 9      | 3.31         | 292 | 81                   | 160  | 0.4772 |
| 2016.678225 | 42.85 | 13.23 | 2      | 2.79         | 312 | 63                   | -121 | 0.5355 |
| 2016.680826 | 42.85 | 13.21 | 4      | 3.34         | 287 | 81                   | 160  | 0.5707 |
| 2016 682015 | 42.63 | 13 31 | 7      | 2.83         | 339 | 65                   | -95  | 0.4605 |
| 2016 682604 | 42.05 | 13.24 | 2      | 3.13         | 320 | 60                   | -109 | 0.4005 |
| 2016 682787 | 42.65 | 13.24 | 6      | 3.54         | 140 | 55                   | -80  | 0.5464 |
| 2016.682927 | 42.05 | 13.54 | 7      | 2.84         | 190 | 65                   | 30   | 0.5404 |
| 2016.683095 | 42.65 | 13 3/ | 5      | 3 17         | 126 | 46                   | _100 | 0.30   |
| 2016 68/102 | 42.00 | 13.54 | 5      | 3.17         | 225 | 40<br>55             | -100 | 0.4427 |
| 2010.004192 | 42.70 | 12.19 | 2      | 2.07         | 222 |                      | -05  | 0.5020 |
| 2010.065457 | 42.00 | 13.22 | 2      | 2.15         | 321 | 75                   | -115 | 0.0800 |
| 2010.0656   | 42.75 | 12.19 | 9      | 2.10         | 215 | 54                   | -127 | 0.6077 |
| 2016.686378 | 42.8  | 13.2  | 0      | 3.18         | 215 | 60                   | -60  | 0.6248 |
| 2016.687461 | 42.67 | 13.3  | 9      | 2.97         | 355 | 70                   | -90  | 0.6657 |
| 2016.687867 | 42.8  | 13.24 | 1      | 3.3          | 133 | 45                   | -95  | 0.5438 |
| 2016.689257 | 42.95 | 13.16 | 1      | 2.97         | 144 | 4/                   | -105 | 0.4972 |
| 2016.694273 | 42.84 | 13.26 | 3      | 2.89         | 195 | 55                   | -55  | 0.6989 |
| 2016.695628 | 42.96 | 13.16 | 1      | 2.96         | 160 | 60                   | -75  | 0.5931 |
| 2016.695924 | 42.79 | 13.23 | 3      | 3.2          | 150 | 55                   | -80  | 0.5185 |
| 2016.698845 | 42.68 | 13.28 | 4      | 3.24         | 150 | 50                   | -85  | 0.6184 |
| 2016.699702 | 42.8  | 13.22 | 2      | 2.99         | 314 | 47                   | -105 | 0.3992 |
| 2016.703446 | 42.58 | 13.2  | 15     | 3.34         | 150 | 70                   | -40  | 0.5135 |
| 2016.706752 | 42.86 | 13.26 | 2      | 2.93         | 280 | 74                   | -127 | 0.6262 |
| 2016.709228 | 42.78 | 13.13 | 2      | 2.91         | 330 | 60                   | -85  | 0.4169 |
| 2016.709322 | 42.78 | 13.13 | 2      | 3.72         | 358 | 61                   | -96  | 0.5827 |
| 2016.709327 | 42.78 | 13.13 | 2      | 3.5          | 2   | 56                   | -100 | 0.5328 |
| 2016.709328 | 42.78 | 13.14 | 1      | 3.26         | 345 | 55                   | -90  | 0.4797 |
| 2016.70957  | 42.75 | 13.14 | 1      | 2.79         | 350 | 50                   | -95  | 0.4895 |
| 2016.709639 | 42.76 | 13.09 | 7      | 3.07         | 43  | 76                   | -104 | 0.7126 |
| 2016.713979 | 42.84 | 13.23 | 5      | 3.21         | 300 | 59                   | -106 | 0.5393 |
| 2016.716066 | 42.68 | 13.29 | 4      | 3.12         | 325 | 80                   | -50  | 0.4641 |
| 2016.716287 | 42.82 | 13.25 | 2      | 2.99         | 312 | 71                   | -137 | 0.6695 |
| 2016.71776  | 39.04 | 16.45 | 17     | 3.29         | 68  | 69                   | -103 | 0.6455 |
| 2016.720495 | 42.68 | 13.29 | 4      | 2.88         | 315 | 75                   | -60  | 0.6619 |
| 2016.721263 | 42.67 | 13.28 | 4      | 3.67         | 325 | 65                   | -55  | 0.6215 |
| 2016 721465 | 42.68 | 13.29 | 4      | 32           | 145 | 90                   | 70   | 0.6742 |
| 2016 72171  | 42.81 | 13.15 | 6      | 2.92         | 300 | 75                   | -70  | 0.6803 |
| 2016 721711 | 42.81 | 13.15 | 6      | 2.92         | 310 | 90                   | -70  | 0.6237 |
| 2016 724855 | 42.8  | 13.15 | 5      | 3 38         | 175 | 90                   | 80   | 0.6115 |
| 2016 727676 | 42.0  | 13.13 | 2      | 2 79         | 320 | 75                   | -85  | 0.0113 |
| 2016 72906  | 42.76 | 13.19 | 5      | 3.48         | 335 | 60                   | -80  | 0.5977 |
| 2016 75084  | 42.70 | 13.15 | 5      | 34           | 175 | 60                   | -75  | 0.5962 |
| 2016 75087  | 42.9  | 13.25 | 5      | 3.4          | 175 | 60                   | _70  | 0.5502 |
| 2010.75007  | 42.9  | 13.24 | 2<br>2 | 3.54         | 1/0 | 55                   |      | 0.3377 |
| 2010.750000 | 42.75 | 13.20 | 5      | 3.24         | 107 | 53                   | -00  | 0.4070 |
| 2010.701000 | 42.00 | 12.12 | 7      | 2 1 /        | 220 | ۲ <del>4</del><br>۲۹ | -12/ | 0.3032 |
| 2010.703717 | 42.04 | 121/  | /      | 2.14<br>2.02 | 1/0 | 66                   | -30  | 0.4955 |
| 2010./0000/ | 42.00 | 12.14 |        | 2.00         | 149 | 65                   | -37  | 0.409  |
| 2016.708044 | 42.9  | 13.25 |        | 3.23         | 001 | 05<br>65             | -/5  | 0.5193 |
| 2010.//1431 | 42.78 | 13.2  | 6      | 2.9          | 90  | 65                   | -55  | 0.5541 |
| 2016.//1894 | 42.75 | 13.18 | 3      | 3.58         | 148 | 45                   | -95  | 0.5903 |
| 2016./71936 | 42.75 | 13.19 | 4      | 3.12         | 328 | 45                   | -95  | 0.6166 |
| 2016.772562 | 42.74 | 13.19 | 3      | 3.91         | 331 | 46                   | -100 | 0.6154 |
| 2016.773542 | 42.74 | 13.2  | 3      | 3.06         | 165 | 70                   | -85  | 0.484  |
| 2016.77376  | 42.74 | 13.2  | 3      | 3.5          | 160 | 60                   | -85  | 0.5292 |
| 2016.779548 | 42.86 | 13.25 | 1      | 2.8          | 295 | 53                   | -106 | 0.5681 |
| 2016.781125 | 42.87 | 13.07 | 5      | 3.14         | 325 | 55                   | -70  | 0.5479 |
| 2016.787358 | 42.63 | 13.33 | 5      | 3.29         | 332 | 51                   | -98  | 0.5214 |
| 2016.78979  | 42.89 | 13.26 | 3      | 3.12         | 145 | 60                   | -55  | 0.4827 |

| 2016.793239 | 42.75 | 13.18 | 3  | 3.04 | 180 | 60 | -70  | 0.5584 |
|-------------|-------|-------|----|------|-----|----|------|--------|
| 2016.793436 | 42.75 | 13.18 | 3  | 3.95 | 341 | 46 | -100 | 0.5631 |
| 2016.793997 | 42.85 | 13.15 | 5  | 3.23 | 355 | 70 | -85  | 0.61   |
| 2016.803297 | 40.76 | 15.65 | 16 | 3.49 | 150 | 89 | 100  | 0.6155 |
| 2016.812421 | 43.19 | 11.05 | 9  | 3.53 | 37  | 78 | 112  | 0.5596 |
| 2016.816335 | 43.38 | 12.55 | 1  | 2.92 | 145 | 60 | -80  | 0.5498 |
| 2016.818862 | 43.6  | 10.99 | 8  | 3.94 | 82  | 85 | -155 | 0.5534 |
| 2016.821628 | 42.88 | 13.13 | 5  | 5.3  | 334 | 60 | -93  | 0.6813 |
| 2016.821796 | 42.88 | 13.09 | 6  | 3.3  | 339 | 66 | -97  | 0.6248 |
| 2016.821836 | 42.91 | 13.12 | 5  | 3.33 | 324 | 47 | -105 | 0.5687 |
| 2016.821846 | 42.89 | 13.13 | 5  | 3.04 | 350 | 60 | -75  | 0.5799 |
| 2016.821869 | 42.91 | 13.13 | 5  | 5.87 | 162 | 45 | -85  | 0.7812 |
| 2016.821918 | 42.89 | 13.07 | 6  | 3.87 | 175 | 75 | 55   | 0.5594 |
| 2016.82211  | 42.87 | 13.08 | 5  | 3.73 | 329 | 66 | -97  | 0.6341 |
| 2016.822126 | 42.82 | 13.26 | 4  | 3    | 134 | 79 | 134  | 0.4694 |
| 2016.822143 | 42.86 | 13.13 | 5  | 4.48 | 330 | 60 | -90  | 0.5119 |
| 2016.822163 | 42.86 | 13.21 | 4  | 3.31 | 163 | 78 | -112 | 0.4358 |
| 2016.822198 | 42.93 | 13.16 | 2  | 3.14 | 137 | 84 | 125  | 0.4712 |
| 2016.822208 | 42.87 | 13.12 | 5  | 3.19 | 6   | 60 | -87  | 0.4997 |
| 2016.82239  | 42.84 | 13.17 | 3  | 3.44 | 150 | 60 | -70  | 0.5058 |
| 2016.82243  | 42.84 | 13.17 | 2  | 3.03 | 355 | 60 | -45  | 0.4473 |
| 2016.822445 | 42.99 | 13.12 | 2  | 3.26 | 146 | 55 | -87  | 0.4843 |
| 2016.822517 | 42.89 | 13.06 | 7  | 3.17 | 310 | 55 | -120 | 0.517  |
| 2016.822783 | 42.84 | 13.15 | 5  | 3.96 | 339 | 60 | -93  | 0.5858 |
| 2016.822842 | 42.99 | 13.13 | 3  | 4.1  | 350 | 70 | -80  | 0.5355 |
| 2016.823224 | 42.87 | 13.13 | 3  | 3.22 | 341 | 73 | -115 | 0.4982 |
| 2016.823356 | 42.87 | 13.1  | 5  | 4.32 | 348 | 61 | -96  | 0.5886 |
| 2016.823388 | 42.96 | 13.15 | 1  | 3.01 | 160 | 80 | -45  | 0.5675 |
| 2016.823807 | 43.02 | 13.13 | 1  | 3.28 | 135 | 59 | -106 | 0.5085 |
| 2016.823826 | 43.02 | 13.14 | 1  | 3.05 | 128 | 66 | -123 | 0.4738 |
| 2016.824015 | 42.79 | 13.16 | 5  | 3.22 | 353 | 61 | -96  | 0.5913 |
| 2016.824254 | 42.95 | 13.07 | 7  | 3.13 | 324 | 66 | -116 | 0.4622 |
| 2016.824382 | 42.84 | 13.1  | 5  | 4.26 | 355 | 70 | -92  | 0.6201 |
| 2016.824385 | 42.85 | 13.11 | 5  | 3.85 | 355 | 65 | -90  | 0.6201 |
| 2016.824392 | 43.01 | 13.12 | 2  | 3.3  | 350 | 50 | -65  | 0.6004 |
| 2016.825091 | 42.87 | 13.15 | 3  | 3.07 | 287 | 62 | -139 | 0.5968 |
| 2016.825288 | 42.82 | 13.12 | 5  | 3.24 | 336 | 57 | -103 | 0.5715 |
| 2016.825355 | 42.99 | 13.14 | 2  | 3.23 | 140 | 55 | -90  | 0.6211 |
| 2016.82539  | 43.03 | 13.12 | 2  | 3.29 | 121 | 64 | -146 | 0.5914 |
| 2016.825429 | 42.99 | 13.15 | 2  | 3.22 | 130 | 53 | -106 | 0.4422 |
| 2016.825479 | 43    | 13.14 | 2  | 3.15 | 145 | 50 | -85  | 0.5965 |
| 2016.825575 | 42.86 | 13.04 | 8  | 3.18 | 310 | 67 | -136 | 0.5435 |
| 2016.825772 | 42.89 | 13.18 | 2  | 3.06 | 330 | 50 | -80  | 0.4886 |
| 2016.826068 | 42.96 | 13.14 | 3  | 3.04 | 106 | 66 | -129 | 0.4382 |
| 2016.826184 | 42.92 | 13.11 | 5  | 3.29 | 335 | 55 | -60  | 0.6564 |
| 2016.826724 | 42.87 | 13.21 | 1  | 3.35 | 150 | 55 | -85  | 0.4291 |
| 2016.826952 | 42.79 | 13.12 | 8  | 3.63 | 340 | 75 | -40  | 0.6081 |
| 2016.827407 | 42.87 | 13.16 | 5  | 3.68 | 0   | 75 | -80  | 0.595  |
| 2016.827642 | 42.8  | 13.14 | 5  | 3.18 | 338 | 61 | -98  | 0.614  |
| 2016.827789 | 42.88 | 13.09 | 6  | 3.37 | 328 | 67 | -99  | 0.5814 |
| 2016.828872 | 42.99 | 13.05 | 6  | 3.36 | 316 | 66 | -108 | 0.661  |
| 2016.829038 | 42.85 | 13.15 | 3  | 3.31 | 25  | 85 | 70   | 0.5717 |
| 2016.829517 | 43.02 | 13.1  | 3  | 3    | 123 | 68 | -125 | 0.5364 |
| 2016.829607 | 42.88 | 13.2  | 1  | 3.08 | 325 | 55 | -90  | 0.4949 |
| 2016.829737 | 42.81 | 13.1  | 7  | 4.08 | 330 | 50 | -90  | 0.5847 |
| 2016.829832 | 42.96 | 13.08 | 5  | 3.12 | 314 | 66 | -116 | 0.6106 |
| 2016.830389 | 42.83 | 13.1  | 5  | 3.21 | 353 | 61 | -96  | 0.4778 |
| 2016.83049  | 43.06 | 13.07 | 5  | 3.26 | 160 | 65 | -65  | 0.6386 |
| 2016.831361 | 42.84 | 13.11 | 2  | 6.33 | 150 | 55 | -90  | 0.6296 |
| 2016.831577 | 42.86 | 13.05 | 8  | 3.74 | 345 | 90 | -55  | 0.6256 |
| 2016.83158  | 42.83 | 13.08 | 8  | 4.25 | 5   | 75 | -80  | 0.7201 |

| 2016.83159  | 42.88 | 13.19 | 2        | 3.64 | 308 | 51       | -124 | 0.5424 |
|-------------|-------|-------|----------|------|-----|----------|------|--------|
| 2016.831622 | 42.71 | 13.22 | 7        | 3.43 | 155 | 55       | -55  | 0.5189 |
| 2016.83163  | 42.93 | 13.21 | 4        | 3.37 | 270 | 57       | 123  | 0.4621 |
| 2016.831632 | 42.86 | 13.11 | 3        | 3.37 | 345 | 80       | 35   | 0.4459 |
| 2016.831723 | 42.84 | 13.12 | 5        | 3.48 | 350 | 65       | -80  | 0.5534 |
| 2016.831786 | 42.94 | 13.2  | 2        | 3.61 | 350 | 50       | -65  | 0.5444 |
| 2016.83179  | 42.84 | 13.07 | 7        | 3.59 | 335 | 75       | -90  | 0.5951 |
| 2016.831834 | 44.18 | 12.24 | 10       | 3.66 | 68  | 80       | 118  | 0.453  |
| 2016.831836 | 42.78 | 13.08 | 7        | 3.75 | 353 | 74       | -102 | 0.5128 |
| 2016 831855 | 42.82 | 13.00 | 6        | 3 52 | 328 | 67       | -99  | 0.6114 |
| 2016 831865 | 42.92 | 13.05 | 2        | 3 58 | 298 | 51       | -124 | 0.5387 |
| 2016.831892 | 42.52 | 13.19 | 7        | 3 53 | 165 | 65       | -80  | 0.5507 |
| 2010.031032 | 42.0  | 13.19 | 7        | 3.53 | 165 | 65       | -80  | 0.6751 |
| 2010.031032 | 43.06 | 13.15 | 5        | 3.98 | 160 | 60       | -70  | 0.6791 |
| 2016.831904 | 43.00 | 13.07 |          | 3.20 | 305 | 68       | -70  | 0.0090 |
| 2016 821020 | 42.85 | 13.12 | 5        | 3.22 | 225 | 55       | -110 | 0.4091 |
| 2010.831929 | 42.09 | 12.06 | 0        | 3.47 | 325 |          | -75  | 0.3919 |
| 2010.031904 | 42.04 | 13.00 | 9        | 4.04 | 340 | 90<br>75 | -65  | 0.7422 |
| 2010.03190  | 42.64 | 13.08 | 0        | 4.5  | 330 | 75       | -91  | 0.6644 |
| 2016.832017 | 42.93 | 13.2  | 2        | 3.66 | 345 | 55       | -60  | 0.492  |
| 2016.832017 | 42.93 | 13.2  | 2        | 3.66 | 345 | 55       | -60  | 0.492  |
| 2016.832029 | 42.85 | 13.14 | 3        | 3.31 | 350 | 75       | -91  | 0.4988 |
| 2016.832034 | 42.92 | 13.15 | 2        | 3.32 | 306 | 52       | -117 | 0.4691 |
| 2016.832041 | 42.92 | 13.19 | 4        | 3.07 | 83  | /4       | 143  | 0.4959 |
| 2016.832043 | 42.91 | 13.2  | 2        | 3.19 | 165 | 50       | -65  | 0.5013 |
| 2016.832061 | 42.73 | 13.19 | 2        | 3.1  | 149 | 66       | -116 | 0.4912 |
| 2016.832077 | 42.9  | 13.2  | 2        | 3.26 | 338 | 50       | -94  | 0.5933 |
| 2016.832086 | 42.73 | 13.15 | 6        | 3.27 | 333 | 45       | -95  | 0.5766 |
| 2016.832108 | 42.77 | 13.06 | 7        | 3.34 | 314 | 54       | -110 | 0.5941 |
| 2016.832116 | 42.81 | 13.2  | 7        | 3.15 | 170 | 70       | -92  | 0.6239 |
| 2016.832122 | 43.02 | 13.12 | 1        | 3.45 | 335 | 45       | -90  | 0.5624 |
| 2016.832125 | 43.01 | 13.12 | 4        | 3.26 | 299 | 81       | -102 | 0.4004 |
| 2016.832147 | 42.8  | 13.16 | 6        | 4.09 | 155 | 75       | -50  | 0.5772 |
| 2016.832161 | 42.9  | 13.22 | 4        | 3.31 | 188 | 69       | -148 | 0.4084 |
| 2016.832171 | 42.91 | 13.2  | 1        | 3.06 | 292 | 61       | -118 | 0.4406 |
| 2016.832201 | 42.94 | 13.21 | 1        | 3.54 | 158 | 56       | -97  | 0.4961 |
| 2016.832209 | 42.79 | 13.07 | 7        | 3.23 | 329 | 71       | -95  | 0.5622 |
| 2016.832222 | 42.91 | 13.2  | 2        | 3.46 | 151 | 46       | -100 | 0.5777 |
| 2016.832223 | 42.78 | 13.09 | 7        | 3.75 | 165 | 75       | 87   | 0.6374 |
| 2016.832237 | 42.68 | 13.21 | 5        | 3.08 | 341 | 69       | -112 | 0.5081 |
| 2016.832242 | 42.76 | 13.06 | 6        | 3.39 | 360 | 88       | -100 | 0.6818 |
| 2016.832281 | 42.9  | 13.16 | 2        | 3.6  | 335 | 60       | -65  | 0.5193 |
| 2016.832287 | 42.93 | 13.21 | 3        | 3    | 185 | 85       | -35  | 0.4512 |
| 2016.832291 | 42.69 | 13.19 | 7        | 3.11 | 347 | 71       | -107 | 0.5729 |
| 2016.83233  | 42.94 | 13.2  | 2        | 3.23 | 165 | 65       | -80  | 0.5095 |
| 2016.832336 | 42.93 | 13.2  | 2        | 3.14 | 132 | 50       | -113 | 0.4894 |
| 2016.832343 | 42.84 | 13.04 | 7        | 3.02 | 343 | 67       | -101 | 0.5123 |
| 2016.832345 | 42.8  | 13.14 | 6        | 3.27 | 168 | 56       | -97  | 0.555  |
| 2016.832356 | 42.77 | 13.2  | 3        | 2.94 | 335 | 50       | -65  | 0.4682 |
| 2016.832369 | 42.86 | 13.1  | 8        | 2.95 | 220 | 55       | -50  | 0.5343 |
| 2016.832437 | 43.06 | 13.07 | 5        | 3.59 | 160 | 55       | -70  | 0.5857 |
| 2016.832449 | 42.82 | 13.16 | 6        | 3.05 | 321 | 86       | 115  | 0.5507 |
| 2016.832452 | 42.78 | 13.17 | 5        | 2.97 | 83  | 74       | -102 | 0.4753 |
| 2016.832458 | 42.83 | 13.05 | 6        | 3.18 | 330 | 70       | -90  | 0.5492 |
| 2016.832519 | 42.92 | 13.21 | 3        | 2.9  | 296 | 58       | -138 | 0.4421 |
| 2016.832551 | 43.07 | 13.07 | 5        | 3.15 | 160 | 60       | -75  | 0.5382 |
| 2016.832562 | 42.81 | 13.1  | 7        | 2.99 | 107 | 66       | 141  | 0.5706 |
| 2016 832594 | 42.87 | 13.07 | 7        | 31   | 306 | 63       | -127 | 0 504  |
| 2016 832597 | 42.89 | 13.16 | 2        | 3 44 | 128 | 48       | -109 | 0.5483 |
| 2016 832627 | 42.05 | 13.10 | 4        | 3.02 | 170 | 75       | 35   | 0 375  |
| 2016 83263  | 42.55 | 13.10 | 6        | 3.52 | 175 | 50       | -60  | 0.5957 |
| 2016 832630 | 42.51 | 13.14 | 2        | 3 15 | 310 | 71       | -120 | 0.5146 |
| 2010.002009 | 72.00 | 12.21 | <u> </u> | 5.15 | 510 | / 1      | 120  | 0.5140 |

| 2016.832663 | 42.92 | 13.21 | 1         | 2.79 | 145  | 53        | -106       | 0.4172 |
|-------------|-------|-------|-----------|------|------|-----------|------------|--------|
| 2016.83269  | 42.79 | 13.15 | 1         | 3.85 | 355  | 45        | -90        | 0.5557 |
| 2016.832725 | 42.81 | 13.1  | 5         | 3.4  | 325  | 70        | -88        | 0.6205 |
| 2016.832761 | 42.8  | 13.15 | 1         | 3.05 | 166  | 46        | -100       | 0.4884 |
| 2016.832937 | 42.81 | 13.09 | 8         | 2.99 | 155  | 70        | 60         | 0.4125 |
| 2016.832967 | 42.93 | 13.2  | 4         | 3.29 | 274  | 67        | 153        | 0.4925 |
| 2016.832977 | 42.94 | 13.14 | 6         | 3.27 | 326  | 57        | -103       | 0.5394 |
| 2016.833132 | 42.8  | 13.16 | 1         | 2.81 | 177  | 45        | -85        | 0.4867 |
| 2016.833143 | 42.91 | 13.16 | 1         | 3.29 | 150  | 50        | -80        | 0.5197 |
| 2016.83319  | 42.9  | 13.2  | 4         | 3.06 | 290  | 73        | 148        | 0.5478 |
| 2016.833195 | 42.81 | 13.19 | 7         | 3.41 | 175  | 70        | -70        | 0.6749 |
| 2016.833233 | 42.92 | 13.21 | 4         | 3.19 | 20   | 65        | 35         | 0.4375 |
| 2016.833237 | 42.91 | 13.05 | 7         | 3.31 | 300  | 55        | -120       | 0.6027 |
| 2016 83327  | 42 72 | 13.18 | 1         | 2.89 | 345  | 85        | -175       | 0 4997 |
| 2016 833319 | 42.72 | 13.10 | 7         | 3 44 | 339  | 79        | -101       | 0.5952 |
| 2016 833326 | 42.83 | 13.09 | 4         | 3 54 | 147  | 69        | 148        | 0.4215 |
| 2016 833355 | 42.78 | 13.05 | 7         | 3.2  | 340  | 85        | -45        | 0.6665 |
| 2016 833365 | 42.75 | 13.1  | 4         | 2.98 | 116  | 82        | -145       | 0.5586 |
| 2016.833367 | 42.73 | 13.19 | 2         | 2.50 | 175  | 50        | -70        | 0.5500 |
| 2016.833301 | 42.75 | 13.13 | 7         | 3 34 | 328  | 74        | -102       | 0.6465 |
| 2016.833301 | 42.75 | 13.13 | 7         | 3 34 | 328  | 74        | -102       | 0.0405 |
| 2016 83342  | 42.75 | 13.15 | 7         | 3 19 | 8    | 67        | _99        | 0.0405 |
| 2016.833/3  | 12.0  | 13.1  | 7<br>2    | 2.82 | 1/15 | 65        | -70        | 0.0040 |
| 2016 83345  | 42.33 | 13.04 | 6         | 3 37 | 335  | 90        | -70        | 0.3012 |
| 2010.03343  | 42.79 | 13.04 | 6         | 2.57 | 305  | 90<br>60  | -75        | 0.7299 |
| 2016 822520 | 42.74 | 12.10 | 2         | 2.90 | 160  | 60        | -00        | 0.3713 |
| 2010.853555 | 42.9  | 12.12 | <br>11    | 2.11 | 01   | 78        | -05        | 0.030  |
| 2010.033300 | 42.70 | 12.12 | 7         | 2.11 | 275  | 70<br>0E  | 65         | 0.595  |
| 2010.853020 | 42.70 | 12.11 | /<br>E    | 2.94 | 323  | 60        | -03        | 0.0135 |
| 2010.855055 | 43.07 | 12.07 | 5         | 2.55 | 160  | 65        | -70        | 0.0117 |
| 2010.033073 | 42.02 | 12.0  | 5         | 2.40 | 100  | 05        | -05<br>16E | 0.0844 |
| 2010.853080 | 42.04 | 13.05 | 7         | 4.03 | 254  | 84        | 103        | 0.7495 |
| 2010.033727 | 42.77 | 12.09 | 7         | 4.05 | 101  | 04<br>E 9 | -104       | 0.0939 |
| 2010.033737 | 42.95 | 12.19 | <br>      | 2.01 | 242  | 50        | -136       | 0.5169 |
| 2010.033747 | 42.72 | 12.19 | 4         | 2.95 | 242  | 50        | -94        | 0.0141 |
| 2010.033709 | 42.94 | 13.14 | /<br>2    | 3.00 | 323  | <u> </u>  | -125       | 0.0308 |
| 2010.033020 | 42.69 | 13.19 | <br>      | 3.23 | 330  | 50        | -80        | 0.5210 |
| 2010.033031 | 42.64 | 13.00 | /<br>     | 2.30 | 240  | <u> </u>  | -90        | 0.5514 |
| 2016.833882 | 42.79 | 13.07 | 0         | 3.21 | 327  | 70        | -105       | 0.6326 |
| 2016.833937 | 42.77 | 13.21 | 5         | 3.12 | 312  | 51        | -98        | 0.6279 |
| 2016.834049 | 42.77 | 13.21 | 5         | 3.74 | 309  | 47        | -105       | 0.5416 |
| 2016.834141 | 42.84 | 13.13 | 5         | 3.98 | 355  | 70        | -85        | 0.5996 |
| 2016.834315 | 43.02 | 13.08 | 5         | 3.44 | 165  | 55        | -65        | 0.5965 |
| 2016.834321 | 42.81 | 13.14 | 5         | 3.42 | 328  | 61        | -96        | 0.6035 |
| 2016.834354 | 42.01 | 12.19 | 7         | 3.23 | 105  | 75        | -05        | 0.0    |
| 2010.034423 | 42.82 | 15.15 | /         | 2.48 | 140  | 00        | 125        | 0.0/1  |
| 2016.834428 | 42.91 | 12.11 | ð<br>D    | 2.9  | 289  | 80        | -135       | 0.5436 |
| 2016.834507 | 42.9  | 13.21 | <u>Z</u>  | 2.87 | 200  | 50        | -60        | 0.5328 |
| 2010.834591 | 42.77 | 13.08 | / 7       | 3.07 | 2/9  | ٥/<br>٥٥  | -130       | 0.0223 |
| 2016.83463  | 42.69 | 13.27 | /         | 3.06 | 340  | 80        | -80        | 0.5778 |
| 2016.834/28 | 42.92 | 13.22 |           | 3.13 | 345  | 50        | -/5        | 0.4941 |
| 2016.834987 | 43.06 | 13.13 | 2         | 2.92 | 131  | 63        | -127       | 0.4721 |
| 2016.835056 | 42.75 | 13.14 | <u></u> Х | 3.12 | 323  | 86        | -145       | 0.583  |
| 2016.835146 | 42.9  | 13.14 | 5         | 3.3  | 150  | 55        | -/5        | 0.51/1 |
| 2016.835297 | 42.77 | 13.05 | 6         | 3.18 | 160  | /5        | /5         | 0.5859 |
| 2016.835346 | 42.95 | 13.2  | 2         | 3.22 | 330  | 50        | -80        | 0.4644 |
| 2016.835379 | 42.74 | 13.15 |           | 2.98 | 215  | 65        | -65        | 0.4859 |
| 2016.835656 | 42.94 | 13.21 | 2         | 3.07 | 125  | 68        | -118       | 0.4742 |
| 2016.835741 | 42.89 | 13.18 | 4         | 3.01 | 265  | /3        | 148        | 0.4309 |
| 2016.835885 | 42.81 | 13.05 | 1         | 3.21 | 286  | /3        | -115       | 0.5839 |
| 2016.836058 | 42.95 | 13.2  | 1         | 3.13 | 340  | 50        | -/5        | 0.5627 |
| 2016.836135 | 42.85 | 13.08 | 8         | 3.04 | 331  | 73        | -115       | 0.6069 |

| 2016.836143 | 42.93 | 13.06 | 6  | 3.01 | 326 | 73 | -115 | 0.6018 |
|-------------|-------|-------|----|------|-----|----|------|--------|
| 2016.836361 | 42.66 | 13.22 | 7  | 3.23 | 314 | 54 | -110 | 0.6675 |
| 2016.836377 | 42.77 | 13.03 | 7  | 2.84 | 325 | 90 | -115 | 0.4753 |
| 2016.836443 | 42.91 | 13.31 | 17 | 3.49 | 105 | 68 | -118 | 0.6629 |
| 2016.836627 | 42.78 | 13.14 | 6  | 2.97 | 146 | 46 | -100 | 0.5206 |
| 2016.836817 | 43.01 | 13.14 | 1  | 3.32 | 147 | 51 | -98  | 0.6543 |
| 2016.836831 | 43.01 | 13.14 | 1  | 3.15 | 146 | 46 | -100 | 0.6193 |
| 2016.83697  | 43    | 13.16 | 7  | 4.6  | 110 | 81 | -150 | 0.6314 |
| 2016.837294 | 43.61 | 11.01 | 9  | 3.27 | 180 | 70 | 30   | 0.5108 |
| 2016.83738  | 42.73 | 13.21 | 5  | 3.14 | 155 | 60 | -65  | 0.5566 |
| 2016.837397 | 42.69 | 13.15 | 9  | 3.05 | 110 | 70 | 142  | 0.618  |
| 2016.837568 | 42.9  | 13.16 | 3  | 2.95 | 293 | 57 | -130 | 0.5212 |
| 2016.837799 | 42.91 | 13.17 | 1  | 3.39 | 318 | 45 | -95  | 0.4852 |
| 2016.837889 | 42.8  | 13.11 | 11 | 3.18 | 286 | 77 | -128 | 0.663  |
| 2016.837945 | 42.93 | 13.21 | 2  | 3.28 | 335 | 45 | -90  | 0.5394 |
| 2016.838011 | 42.8  | 13.1  | 7  | 3.19 | 330 | 55 | -65  | 0.6232 |
| 2016.838113 | 42.81 | 13.13 | 8  | 3.35 | 130 | 75 | -65  | 0.6527 |
| 2016.838206 | 42.73 | 13.22 | 6  | 3.32 | 317 | 73 | -108 | 0.6069 |
| 2016.838235 | 42.8  | 13.03 | 7  | 3.67 | 335 | 80 | -80  | 0.7055 |
| 2016.839426 | 42.91 | 13.13 | 5  | 2.94 | 322 | 69 | -131 | 0.6037 |
| 2016.839467 | 43.04 | 13.06 | 6  | 2.92 | 316 | 66 | -108 | 0.6374 |
| 2016.839496 | 42.78 | 13.08 | 6  | 3.15 | 324 | 85 | -120 | 0.6786 |
| 2016.839498 | 43.03 | 13.06 | 6  | 3.33 | 325 | 65 | -90  | 0.7034 |
| 2016.839559 | 42.8  | 13.17 | 6  | 3.23 | 111 | 63 | -127 | 0.7057 |
| 2016.839666 | 42.71 | 13.19 | 5  | 3.13 | 235 | 60 | -40  | 0.6448 |
| 2016.839875 | 43    | 13.15 | 1  | 2.99 | 332 | 45 | -85  | 0.5433 |
| 2016.840076 | 42.78 | 13.21 | 3  | 3.09 | 330 | 60 | -60  | 0.5455 |
| 2016.840441 | 42.88 | 13.15 | 7  | 3.18 | 328 | 56 | -113 | 0.6114 |
| 2016.840539 | 42.8  | 13.15 | 7  | 2.8  | 59  | 83 | -109 | 0.6582 |
| 2016.840606 | 43.03 | 13.04 | 6  | 3.26 | 340 | 65 | -80  | 0.5488 |
| 2016.840727 | 42.89 | 13.15 | 5  | 3.02 | 332 | 48 | -71  | 0.4967 |
| 2016.841012 | 42.93 | 13.21 | 2  | 3.11 | 15  | 75 | 20   | 0.4467 |
| 2016.841013 | 42.94 | 13.15 | 5  | 3.27 | 328 | 61 | -98  | 0.537  |
| 2016.841033 | 42.88 | 13.07 | 1  | 3.61 | 322 | 51 | -98  | 0.502  |
| 2016.841143 | 42.9  | 13.2  | 2  | 2.75 | 277 | 86 | 150  | 0.4898 |
| 2016.841298 | 42.88 | 13.19 | 2  | 3.29 | 134 | 47 | -105 | 0.4777 |
| 2016.841323 | 43.04 | 13.06 | 5  | 3.06 | 340 | 55 | -70  | 0.5937 |
| 2016.841323 | 43.04 | 13.06 | 5  | 3.06 | 340 | 55 | -70  | 0.5937 |
| 2016.841596 | 43.03 | 13.05 | 5  | 4.69 | 324 | 71 | -95  | 0.578  |
| 2016.84166  | 42.86 | 13.07 | 9  | 2.84 | 185 | 60 | -80  | 0.4993 |
| 2016.841679 | 42.66 | 13.31 | 2  | 3.05 | 154 | 65 | -95  | 0.4982 |
| 2016.841732 | 43.02 | 13.06 | 5  | 2.96 | 325 | 70 | -90  | 0.6884 |
| 2016.841831 | 42.97 | 13.15 | 5  | 3.2  | 155 | 55 | -55  | 0.5188 |
| 2016.842401 | 42.83 | 13.12 | 6  | 3.35 | 330 | 55 | -90  | 0.5437 |
| 2016.842695 | 42.78 | 13.21 | 4  | 3.09 | 8   | 67 | -101 | 0.577  |
| 2016.842895 | 42.91 | 13.22 | 2  | 3.36 | 323 | 57 | -130 | 0.4827 |
| 2016.842939 | 42.92 | 13.2  | 2  | 3.21 | 180 | 55 | -60  | 0.5544 |
| 2016.84303  | 42.69 | 13.18 | 9  | 3.73 | 327 | 56 | -100 | 0.5733 |
| 2016.843203 | 42.99 | 13.08 | 5  | 3.37 | 333 | 69 | -103 | 0.5987 |
| 2016.843516 | 43.03 | 13.06 | 6  | 3.11 | 317 | 56 | -100 | 0.5098 |
| 2016.843725 | 43.02 | 13.05 | 5  | 3.06 | 338 | 77 | -106 | 0.5221 |
| 2016.843869 | 42.79 | 13.11 | 7  | 3.1  | 4   | 84 | -114 | 0.8014 |
| 2016.84394  | 42.76 | 13.05 | 7  | 3.12 | 310 | 53 | -106 | 0.5922 |
| 2016.844195 | 42.87 | 13.1  | 7  | 2.93 | 313 | 61 | -132 | 0.7073 |
| 2016.844296 | 42.87 | 13.07 | 7  | 3.22 | 329 | 66 | -97  | 0.6675 |
| 2016.844507 | 42.68 | 13.21 | 9  | 3.19 | 307 | 54 | -127 | 0.7766 |
| 2016.844774 | 42.9  | 13.16 | 2  | 2.94 | 140 | 60 | -90  | 0.6684 |
| 2016.84497  | 42.78 | 13.14 | 6  | 3.01 | 323 | 56 | -97  | 0.5699 |
| 2016.845398 | 43.01 | 13.07 | 5  | 3    | 152 | 45 | -85  | 0.5193 |
| 2016.845493 | 42.87 | 13.13 | 3  | 3.12 | 102 | 54 | -127 | 0.536  |
| 2016.845916 | 42.98 | 13.13 | 3  | 2.83 | 10  | 65 | -30  | 0.4233 |

| 2016.846967 | 42.79 | 13.13 | 6      | 3.33 | 332 | 56       | -83  | 0.6112 |
|-------------|-------|-------|--------|------|-----|----------|------|--------|
| 2016.847074 | 42.83 | 13.23 | 11     | 3.06 | 315 | 75       | -50  | 0.5299 |
| 2016.84724  | 42.88 | 13.13 | 3      | 2.84 | 355 | 65       | -80  | 0.5281 |
| 2016.847766 | 43.06 | 13.06 | 5      | 2.93 | 321 | 52       | -102 | 0.7223 |
| 2016.847939 | 42.7  | 13.15 | 8      | 3.11 | 325 | 80       | -80  | 0.7741 |
| 2016.847954 | 42.68 | 13.18 | 7      | 2.97 | 308 | 51       | -124 | 0.689  |
| 2016.848106 | 42.91 | 13.19 | 2      | 3.11 | 309 | 64       | -114 | 0.5527 |
| 2016.848257 | 42.94 | 13.21 | 1      | 3.17 | 170 | 60       | -75  | 0.44   |
| 2016 848258 | 42.95 | 13.21 | 1      | 3 59 | 155 | 55       | -95  | 0.4776 |
| 2016 848276 | 42.95 | 13.23 | 1      | 3 11 | 155 | 55       | -75  | 0.6146 |
| 2016.848607 | 42.55 | 13.22 | 7      | 2 94 | 102 | 62       | -139 | 0.5588 |
| 2016 848674 | 42.75 | 13.10 | 2      | 3 32 | 327 | 50       | -113 | 0.6437 |
| 2016 84903  | 42.56 | 13.15 | 2      | 3 31 | 159 | 55       | -93  | 0.6034 |
| 2016.84018  | 12.75 | 13.75 | 1      | 3.23 | 155 | 60       | -70  | 0.0034 |
| 2010.04918  | 42.95 | 13.2  | 2      | 2.25 | 175 | 70       | -70  | 0.7049 |
| 2016.849203 | 42.54 | 13.22 | 5      | 2.07 | 175 | 50       | -70  | 0.5945 |
| 2010.849441 | 42.75 | 13.19 | 2      | 2.4  | 180 | 30       | -00  | 0.3739 |
| 2010.049552 | 43.04 | 12.09 | 2      | 2.95 | 200 | 90       | 120  | 0.7903 |
| 2010.64950  | 42.95 | 13.21 | Z<br>E | 3.07 | 211 | 55       | -120 | 0.7124 |
| 2016.850105 | 45.00 | 13.00 | C      | 3.02 | 215 | 04<br>CF | -106 | 0.4804 |
| 2016.850266 | 42.78 | 13.2  | 4      | 3.13 | 315 | 65       | -60  | 0.6059 |
| 2016.851805 | 42.81 | 13.19 | 0      | 3.41 | 140 | 65       | -75  | 0.5255 |
| 2016.853267 | 42.88 | 13.19 | 2      | 3.08 | 330 | 50       | -85  | 0.601  |
| 2016.853891 | 42.87 | 13.08 | 9      | 3.19 | 197 | //       | 106  | 0.6821 |
| 2016.854392 | 43.02 | 13.14 | 2      | 3.24 | 332 | 50       | -86  | 0.5021 |
| 2016.854576 | 42.9  | 13.18 | 1      | 2.73 | 308 | 50       | -94  | 0.579  |
| 2016.854615 | 42.89 | 13.15 | 9      | 3.73 | 326 | 64       | -106 | 0.6594 |
| 2016.855799 | 42.9  | 13.18 | 2      | 3.01 | 329 | 66       | -116 | 0.6655 |
| 2016.856133 | 42.83 | 13.04 | 7      | 3.22 | 328 | 73       | -100 | 0.7416 |
| 2016.85747  | 42.81 | 12.77 | 7      | 3.33 | 290 | 70       | -55  | 0.7238 |
| 2016.858051 | 42.55 | 13.25 | 3      | 3.04 | 165 | 55       | -90  | 0.714  |
| 2016.858294 | 43    | 13.15 | 2      | 3.38 | 340 | 45       | -90  | 0.4566 |
| 2016.85836  | 43    | 13.16 | 2      | 2.98 | 149 | 54       | -110 | 0.6199 |
| 2016.858632 | 42.66 | 13.19 | 9      | 3.6  | 180 | 50       | -60  | 0.6491 |
| 2016.858663 | 42.73 | 13.18 | 9      | 3.28 | 185 | 55       | -80  | 0.6358 |
| 2016.862232 | 42.89 | 13.13 | 3      | 3.44 | 359 | 65       | -92  | 0.5239 |
| 2016.862922 | 42.78 | 13.05 | 7      | 3.34 | 315 | 90       | -80  | 0.7889 |
| 2016.867153 | 42.9  | 13.18 | 2      | 2.94 | 318 | 56       | -97  | 0.5902 |
| 2016.867551 | 43    | 13.13 | 2      | 3.73 | 160 | 50       | -85  | 0.4966 |
| 2016.867599 | 42.99 | 13.14 | 2      | 3.55 | 165 | 50       | -80  | 0.4872 |
| 2016.867797 | 42.72 | 13.21 | 5      | 4.1  | 331 | 46       | -100 | 0.6241 |
| 2016.868231 | 42.94 | 13.2  | 1      | 2.91 | 175 | 60       | -85  | 0.701  |
| 2016.868318 | 43.03 | 13.07 | 5      | 2.98 | 345 | 65       | -80  | 0.5135 |
| 2016.868686 | 42.8  | 13.14 | 6      | 3.53 | 175 | 50       | -90  | 0.6342 |
| 2016.868722 | 42.92 | 13.21 | 3      | 3.16 | 105 | 76       | -159 | 0.6908 |
| 2016.868776 | 42.82 | 13.1  | 8      | 3.05 | 10  | 65       | -80  | 0.6441 |
| 2016.868844 | 42.82 | 13.1  | 10     | 3.02 | 143 | 71       | 159  | 0.604  |
| 2016.869224 | 42.55 | 13.23 | 3      | 3.17 | 140 | 60       | -109 | 0.5959 |
| 2016.871474 | 42.95 | 13.09 | 6      | 3.21 | 315 | 55       | -120 | 0.5389 |
| 2016.871763 | 42.86 | 13.16 | 8      | 3.88 | 324 | 64       | -114 | 0.676  |
| 2016.872216 | 43.01 | 13.06 | 5      | 3.14 | 350 | 60       | -70  | 0.5334 |
| 2016.873226 | 42.98 | 13.06 | 6      | 3.15 | 335 | 80       | -87  | 0.7348 |
| 2016.873842 | 42.94 | 13.15 | 9      | 3.67 | 341 | 52       | -102 | 0.6638 |
| 2016.876261 | 43.03 | 13.07 | 3      | 3    | 160 | 55       | -70  | 0.6453 |
| 2016.876425 | 43.03 | 13.08 | 5      | 3.21 | 141 | 55       | -87  | 0.6396 |
| 2016.876931 | 42.75 | 13.21 | 5      | 3.17 | 355 | 50       | -90  | 0.6194 |
| 2016.878152 | 43.04 | 13.11 | 2      | 2.87 | 279 | 64       | 146  | 0.672  |
| 2016.878401 | 42.8  | 13.13 | 7      | 3.8  | 125 | 80       | -75  | 0.7088 |
| 2016.878415 | 43.03 | 13.1  | 2      | 2.83 | 185 | 85       | -35  | 0.5972 |
| 2016.882432 | 42.77 | 13.2  | 10     | 3.32 | 314 | 76       | -133 | 0.5769 |
| 2016.885384 | 43.01 | 13.07 | 6      | 3.22 | 325 | 55       | -90  | 0.6311 |
| 2016.887501 | 42.86 | 13.19 | 4      | 3.08 | 246 | 72       | 154  | 0.7105 |
|             |       |       |        |      | •   |          |      |        |

| 2016.888171 | 42.64 | 13.22 | 8      | 3.24 | 0         | 73 | -148      | 0.702  |
|-------------|-------|-------|--------|------|-----------|----|-----------|--------|
| 2016.88933  | 42.95 | 13.16 | 9      | 3.16 | 348       | 61 | -96       | 0.5956 |
| 2016.891062 | 44.43 | 9.79  | 4      | 3.18 | 143       | 56 | -97       | 0.601  |
| 2016.891145 | 43.01 | 13.08 | 5      | 3.07 | 330       | 55 | -75       | 0.549  |
| 2016.891876 | 43.02 | 13.08 | 4      | 2.94 | 315       | 50 | -85       | 0.5475 |
| 2016.89444  | 43.01 | 13.13 | 2      | 2.85 | 141       | 46 | -100      | 0.5656 |
| 2016.89618  | 42.84 | 13.12 | 5      | 3.46 | 334       | 55 | -93       | 0.6747 |
| 2016 896354 | 42.93 | 13.15 | 2      | 3 16 | 350       | 60 | -45       | 0 7215 |
| 2016.896899 | 43.05 | 13.15 | 3      | 2.88 | 195       | 90 | -15       | 0.6827 |
| 2016.897076 | 43.05 | 13.1  | 3      | 3 15 | 10        | 85 | 10        | 0.752  |
| 2016.898587 | 42 72 | 13.7  | 10     | 3.15 | 322       | 76 | -111      | 0.732  |
| 2010.000007 | 43.02 | 13.08 | 5      | 3.17 | 330       | 55 | -70       | 0.7475 |
| 2016.902985 | 43.02 | 12.00 | 2      | 2.15 | 160       | 55 | -70       | 0.0280 |
| 2010.903194 | 42.99 | 12.15 | 2      | 2.79 | 100       |    | -75       | 0.7020 |
| 2010.904693 | 42.00 | 12.94 | 5      | 2.11 | 00<br>140 | 90 | -155      | 0.7102 |
| 2016.907554 | 42.0  | 13.21 | 5      | 3.37 | 140       | 55 | -05       | 0.5308 |
| 2016.908889 | 43.01 | 13.07 | 5      | 3.12 | 335       | 65 | -75       | 0.6939 |
| 2016.908957 | 43.01 | 13.07 | 3      | 3.1  | 335       | 55 | -50       | 0.7408 |
| 2016.909285 | 43.02 | 13.08 | 5      | 3.59 | 325       | 50 | -70       | 0.6016 |
| 2016.909332 | 43.02 | 13.08 | 5      | 3.66 | 143       | 45 | -95       | 0.6112 |
| 2016.909364 | 43.02 | 13.07 | 4      | 3.02 | 334       | 47 | -105      | 0.7727 |
| 2016.909457 | 43.02 | 13.07 | 4      | 2.96 | 130       | 55 | -95       | 0.6875 |
| 2016.909573 | 43.02 | 13.07 | 5      | 3.86 | 131       | 46 | -100      | 0.6318 |
| 2016.910429 | 42.65 | 13.22 | 8      | 3.16 | 129       | 76 | 154       | 0.6157 |
| 2016.910587 | 42.81 | 12.76 | 5      | 3.18 | 280       | 65 | -60       | 0.606  |
| 2016.910734 | 43.02 | 13.07 | 5      | 3.61 | 136       | 46 | -100      | 0.6312 |
| 2016.911699 | 43.02 | 13.07 | 5      | 3.42 | 323       | 61 | -98       | 0.69   |
| 2016.912395 | 43.02 | 13.07 | 5      | 3.48 | 335       | 50 | -70       | 0.6188 |
| 2016.912783 | 42.81 | 12.78 | 5      | 3.35 | 265       | 50 | -80       | 0.6269 |
| 2016.912977 | 42.76 | 13.24 | 7      | 3.48 | 335       | 55 | -85       | 0.5928 |
| 2016.913648 | 43.02 | 13.12 | 2      | 3.06 | 155       | 50 | -80       | 0.5986 |
| 2016.914416 | 42.53 | 13.29 | 7      | 4.34 | 334       | 71 | -95       | 0.6433 |
| 2016.9169   | 42.75 | 13.25 | 9      | 3.03 | 344       | 86 | -115      | 0.5902 |
| 2016.919344 | 43    | 13.08 | 5      | 3.96 | 328       | 56 | -97       | 0.507  |
| 2016.919963 | 43.04 | 13.07 | 6      | 3.16 | 347       | 56 | -83       | 0.7057 |
| 2016.920324 | 43.04 | 13.07 | 6      | 3.06 | 325       | 50 | -90       | 0.6438 |
| 2016.92251  | 43.01 | 13.14 | 2      | 2.99 | 147       | 51 | -98       | 0.6833 |
| 2016.923738 | 42.99 | 13.08 | 5      | 3.18 | 330       | 60 | -85       | 0.62   |
| 2016.926108 | 43.01 | 13.06 | 5      | 3.14 | 307       | 62 | -101      | 0.7412 |
| 2016 928549 | 43.04 | 13.1  | 3      | 3 29 | 10        | 90 | -10       | 0.8111 |
| 2016 930139 | 42.56 | 13.29 | 6      | 3 15 | 335       | 55 | -85       | 0.7635 |
| 2016 931948 | 40.54 | 15.82 | 10     | 3.72 | 288       | 56 | -113      | 0.4703 |
| 2016 932488 | 42.88 | 13.02 | 5      | 2.87 | 314       | 71 | -126      | 0.5898 |
| 2016 932907 | 42.83 | 13.10 | 1      | 2.07 | 97        | 54 | -127      | 0.5938 |
| 2016 933439 | 43.01 | 13.07 | 5      | 2.97 | 322       | 51 | -98       | 0.5550 |
| 2016 93388  | 43.05 | 13.07 | 2      | 2.52 | 175       | 65 | -45       | 0.644  |
| 2016 93510/ | 42.87 | 13.09 | 7      | 2.95 | 90        | 60 | -90       | 0.6444 |
| 2016 036065 | 42.07 | 13.22 | 6      | 2.95 | 310       | 66 | _07       | 0.0444 |
| 2016 038131 | 42.50 | 13.20 | 7      | 3.15 | 325       | 70 | _00       | 0.0009 |
| 2010.938131 | 42.04 | 12.03 | /<br>E | 2.41 | 245       | 70 | -90       | 0.7341 |
| 2010.940715 | 43.02 | 10.07 | 6      | 2 02 | 170       | 50 | -40<br>6E | 0.0200 |
| 2016.940729 | 44.55 | 10.5  | 0<br>F | 2.05 | 170       | 50 | -05       | 0.6349 |
| 2016.04250  | 43.02 | 12.07 | C      | 3.27 | 123       | 48 | -109      | 0.0235 |
| 2016.94358  | 43.02 | 13.07 | 4      | 3.02 | 324       | 54 | -110      | 0.638  |
| 2016.946825 | 42.9  | 13.11 | 3      | 4.05 | 25        | 65 | -70       | 0.4957 |
| 2016.94/883 | 38.06 | 14./3 | /      | 3.34 | 50        | 90 | 55        | 0.4595 |
| 2016.950041 | 42.74 | 13.04 | 8      | 3.4  | 330       | /0 | -85       | 0.672  |
| 2016.953301 | 42.99 | 13.07 | 5      | 3.4  | 339       | 71 | -95       | 0.5464 |
| 2016.953996 | 42.65 | 13.3  | 3      | 3.69 | 154       | 60 | -93       | 0.6099 |
| 2016.955103 | 43.02 | 13.07 | 5      | 3.24 | 330       | 55 | -85       | 0.561  |
| 2016.955109 | 43.02 | 13.06 | 5      | 3.48 | 335       | 55 | -75       | 0.5846 |
| 2016.95539  | 43.02 | 13.06 | 5      | 3.27 | 340       | 60 | -75       | 0.5714 |
| 2016.956343 | 42.56 | 13.27 | 6      | 3.18 | 325       | 50 | -85       | 0.5866 |
| 2016.958023 | 42.93 | 13.16 | 2 | 3.06 | 104 | 60 | -145 | 0.6514 |
|-------------|-------|-------|---|------|-----|----|------|--------|
| 2016.96447  | 42.92 | 13.16 | 2 | 3.32 | 355 | 70 | -55  | 0.5797 |
| 2016.966562 | 42.93 | 13.2  | 2 | 3.2  | 350 | 55 | -60  | 0.6765 |
| 2016.966938 | 42.92 | 13.17 | 2 | 3    | 355 | 70 | -35  | 0.6174 |
| 2016.968429 | 42.78 | 13.15 | 6 | 3.19 | 145 | 53 | -106 | 0.5564 |
| 2016.988609 | 42.92 | 13.2  | 2 | 3.42 | 323 | 48 | -109 | 0.5447 |
| 2017.005891 | 42.8  | 12.75 | 4 | 3.91 | 72  | 85 | -155 | 0.5715 |
| 2017.007233 | 42.57 | 13.24 | 3 | 2.97 | 180 | 70 | -45  | 0.6243 |
| 2017.012352 | 43.01 | 13.11 | 1 | 2.73 | 140 | 65 | -75  | 0.5665 |
| 2017.01502  | 42.97 | 13.07 | 5 | 3.18 | 293 | 66 | -123 | 0.538  |
| 2017.015968 | 42.44 | 13.27 | 7 | 3.25 | 118 | 51 | -124 | 0.6708 |
| 2017.023395 | 42.43 | 13.27 | 7 | 2.99 | 285 | 70 | -142 | 0.6639 |
| 2017.024636 | 42.42 | 13.28 | 7 | 3.46 | 288 | 66 | -141 | 0.6409 |
| 2017.034845 | 43.08 | 13.07 | 5 | 3.36 | 175 | 60 | -60  | 0.5949 |

Table S3. Dislocation parameters for the earthquakes used in this study to compute cumulative stress changes.

|   | #TYP        | #  | LONCEN  | LATCEN  | DCEN    | STR      | DIP    | HORLEN  | DIPLEN | SS(m)   | DS(m)   | OP(m) | RAKE     |
|---|-------------|----|---------|---------|---------|----------|--------|---------|--------|---------|---------|-------|----------|
|   | Dislocation | 1  | 13.2200 | 42.7100 | 5.0000  | 155.0000 | 50.000 | 12.0865 | 7.9506 | 0.0306  | 0.3496  | 0.    | -85.     |
|   | Dislocation | 2  | 13.2800 | 42.6100 | 5.0000  | 115.0000 | 57.000 | 1.5538  | 2.6134 | -0.0246 | 0.0378  | 0.    | -123.    |
|   | Dislocation | 3  | 13.1500 | 42.7900 | 5.0000  | 136.0000 | 46.000 | 4.7984  | 4.8173 | -0.0242 | 0.1372  | 0.    | -100.    |
|   | Dislocation | 4  | 13.1400 | 42.8000 | 5.0000  | 151.0000 | 57.000 | 0.7563  | 1.7685 | -0.0049 | 0.0214  | 0.    | -103.    |
|   | Dislocation | 5  | 13.2700 | 42.6100 | 7.0000  | 152.0000 | 61.000 | 0.5533  | 1.4928 | 0.0017  | 0.016   | 0.    | -84.     |
|   | Dislocation | 6  | 13.2400 | 42.6200 | 6.0000  | 150.0000 | 60.000 | 0.9790  | 2.0342 | 0.      | 0.0284  | 0.    | -90.     |
|   | Dislocation | 7  | 13.1200 | 42.7700 | 3.0000  | 160.0000 | 50.000 | 1.2847  | 2.3572 | 0.      | 0.0373  | 0.    | -90.     |
|   | Dislocation | 8  | 13.1500 | 42.8200 | 7.0000  | 155.0000 | 65.000 | 1.6406  | 2.6915 | 0.0123  | 0.046   | 0.    | -75.     |
|   | Dislocation | 9  | 13.2500 | 42.8000 | 3.0000  | 40.0000  | 65.000 | 0.6086  | 1.5718 | 0.0135  | 0.0114  | 0.    | -40.0001 |
|   | Dislocation | 10 | 13.2200 | 42.6600 | 7.0000  | 159.0000 | 55.000 | 1.0767  | 2.1419 | -0.0016 | 0.0312  | 0.    | -93.     |
|   | Dislocation | 11 | 13.1500 | 42.7800 | 5.0000  | 137.0000 | 63.000 | 0.3258  | 1.1200 | -0.0049 | 0.0081  | 0.    | -121.    |
|   | Dislocation | 12 | 13.1700 | 42.8000 | 6.0000  | 168.0000 | 50.000 | 0.2257  | 0.9179 | -0.0005 | 0.0065  | 0.    | -94.     |
|   | Dislocation | 13 | 13.2100 | 42.6500 | 9.0000  | 147.0000 | 56.000 | 0.8095  | 1.8348 | -0.0041 | 0.0231  | 0.    | -100.    |
|   | Dislocation | 14 | 13.2100 | 42.7500 | 5.0000  | 159.0000 | 72.000 | 1.3564  | 2.4277 | -0.0062 | 0.0389  | 0.    | -99.     |
|   | Dislocation | 15 | 13.2300 | 42.6900 | 7.0000  | 157.0000 | 50.000 | 0.3085  | 1.0874 | -0.0035 | 0.0082  | 0.    | -113.    |
|   | Dislocation | 16 | 13.3300 | 42.6200 | 2.0000  | 138.0000 | 61.000 | 0.5922  | 1.5488 | -0.0024 | 0.017   | 0.    | -98.     |
|   | Dislocation | 17 | 13.3000 | 42.6100 | 3.0000  | 140.0000 | 55.000 | 0.2383  | 0.9454 | 0.      | 0.0069  | 0.    | -90.     |
|   | Dislocation | 18 | 13.2500 | 42.6100 | 7.0000  | 144.0000 | 65.000 | 0.2693  | 1.0102 | -0.0007 | 0.0078  | 0.    | -95.     |
|   | Dislocation | 19 | 13.2900 | 42.6000 | 5.0000  | 125.0000 | 55.000 | 1.4129  | 2.4820 | -0.0205 | 0.0355  | 0.    | -120.    |
|   | Dislocation | 20 | 13.2900 | 42.5900 | 5.0000  | 122.0000 | 54.000 | 0.3940  | 1.2416 | -0.0069 | 0.0091  | 0.    | -127.    |
|   | Dislocation | 21 | 13.2900 | 42.6700 | 3.0000  | 155.0000 | 55.000 | 0.4897  | 1.3970 | 0.      | 0.0142  | 0.    | -90.     |
|   | Dislocation | 22 | 13.2300 | 42.7000 | 7.0000  | 180.0000 | 55.000 | 0.2693  | 1.0102 | 0.0045  | 0.0064  | 0.    | -55.     |
|   | Dislocation | 23 | 13.2900 | 42.6200 | 5.0000  | 138.0000 | 48.000 | 0.2551  | 0.9808 | -0.0024 | 0.007   | 0.    | -109.    |
|   | Dislocation | 24 | 13.2900 | 42.6000 | 5.0000  | 127.0000 | 50.000 | 2.2121  | 3.1652 | -0.0251 | 0.0591  | 0.    | -113.    |
|   | Dislocation | 25 | 13.3000 | 42.6200 | 5.0000  | 159.0000 | 55.000 | 0.2922  | 1.0558 | -0.0004 | 0.0085  | 0.    | -93.     |
|   | Dislocation | 26 | 13.2100 | 42.7500 | 7.0000  | 120.0000 | 70.000 | 0.2844  | 1.0404 | 0.      | -0.0083 | 0.    | 90.      |
|   | Dislocation | 27 | 13.1500 | 42.7700 | 5.0000  | 167.0000 | 71.000 | 0.3487  | 1.1620 | -0.003  | 0.0097  | 0.    | -107.    |
|   | Dislocation | 28 | 13.2900 | 42.5700 | 7.0000  | 155.0000 | 55.000 | 0.1792  | 0.8098 | 0.0009  | 0.0051  | 0.    | -80.     |
|   | Dislocation | 29 | 13.3000 | 42.6100 | 5.0000  | 128.0000 | 51.000 | 0.1697  | 0.7863 | -0.0028 | 0.0041  | 0.    | -124.    |
|   | Dislocation | 30 | 13.2900 | 42.6000 | 5.0000  | 150.0000 | 60.000 | 0.2053  | 0.8718 | 0.0015  | 0.0058  | 0.    | -75.     |
|   | Dislocation | 31 | 13.1500 | 42.6900 | 7.0000  | 143.0000 | 61.000 | 0.4160  | 1.2788 | -0.0013 | 0.012   | 0.    | -96.     |
|   | Dislocation | 32 | 13.1500 | 42.7900 | 5.0000  | 175.0000 | 65.000 | 0.2351  | 0.9384 | 0.0023  | 0.0064  | 0.    | -70.     |
|   | Dislocation | 33 | 13.2600 | 42.8400 | 2.0000  | 170.0000 | 55.000 | 0.2551  | 0.9808 | 0.0037  | 0.0064  | 0.    | -60.     |
|   | Dislocation | 34 | 13.2400 | 42.8400 | 2.0000  | 175.0000 | 50.000 | 0.5922  | 1.5488 | 0.0073  | 0.0156  | 0.    | -65.     |
|   | Dislocation | 35 | 13.2500 | 42.8400 | 2.0000  | 175.0000 | 55.000 | 0.7360  | 1.7426 | 0.0107  | 0.0185  | 0.    | -60.     |
|   | Dislocation | 36 | 13.2500 | 42.8400 | 3.0000  | 165.0000 | 65.000 | 0.1866  | 0.8279 | 0.0031  | 0.0044  | 0.    | -55.     |
|   | Dislocation | 37 | 13.2400 | 42.8400 | 2.0000  | 175.0000 | 65.000 | 0.3994  | 1.2508 | 0.0058  | 0.01    | 0.    | -60.     |
|   | Dislocation | 38 | 13.3100 | 42.5500 | 3.0000  | 150.0000 | 50.000 | 0.3128  | 1.0955 | 0.0031  | 0.0085  | 0.    | -70.     |
|   | Dislocation | 39 | 13.2300 | 42.7700 | 4.0000  | 165.0000 | 85.000 | 0.1461  | 0.7251 | 0.0027  | -0.0033 | 0.    | 50.      |
|   | Dislocation | 40 | 13.1800 | 42.7900 | 5.0000  | 121.0000 | 52.000 | 0.2320  | 0.9315 | -0.0014 | 0.0066  | 0.    | -102.    |
|   | Dislocation | 41 | 13.2500 | 42.8400 | 2.0000  | 175.0000 | 65.000 | 0.4392  | 1.3170 | 0.0064  | 0.011   | 0.    | -60.     |
|   | Dislocation | 42 | 13.2600 | 42.5900 | 7.0000  | 130.0000 | 53.000 | 0.3681  | 1.1967 | -0.0029 | 0.0103  | 0.    | -106.    |
|   | Dislocation | 43 | 13.3100 | 42.6000 | 5.0000  | 144.0000 | 47.000 | 0.2586  | 0.9881 | -0.0019 | 0.0073  | 0.    | -105.    |
|   | Dislocation | 44 | 13.2100 | 42.7200 | 7.0000  | 149.0000 | 54.000 | 0.3258  | 1.1200 | -0.0032 | 0.0089  | 0.    | -110.    |
|   | Dislocation | 45 | 13.2300 | 42.8000 | 5.0000  | 124.0000 | 66.000 | 0.2693  | 1.0102 | -0.001  | 0.0078  | 0.    | -97.     |
|   | Dislocation | 46 | 13.2900 | 42.6300 | 5.0000  | 140.0000 | 55.000 | 0.2962  | 1.0637 | 0.0007  | 0.0086  | 0.    | -85.     |
|   | Dislocation | 47 | 13.1100 | 42.7800 | 10.0000 | 103.0000 | 57.000 | 0.1944  | 0.8464 | -0.0036 | 0.0043  | 0.    | -130.    |
|   | Dislocation | 48 | 13.2900 | 42.5900 | 5.0000  | 159.0000 | 71.000 | 0.4638  | 1.3564 | -0.0012 | 0.0134  | 0.    | -95.     |
|   | Dislocation | 49 | 13.1200 | 42.7700 | 9.0000  | 155.0000 | 50.000 | 0.4104  | 1.2694 | -0.001  | 0.0119  | 0.    | -95.     |
|   | Dislocation | 50 | 13.2400 | 42.8200 | 5.0000  | 206.0000 | 60.000 | 1.0198  | 2.0797 | 0.0015  | 0.0296  | 0.    | -87.     |
|   | Dislocation | 51 | 13.1400 | 42.8200 | 5.0000  | 160.0000 | 55.000 | 0.6169  | 1.5834 | 0.0016  | 0.0178  | 0.    | -85.     |
|   | Dislocation | 52 | 13.2000 | 42.7400 | 5.0000  | 144.0000 | 47.000 | 0.2383  | 0.9454 | -0.0018 | 0.0067  | 0.    | -105.    |
| J |             |    |         |         |         |          |        |         |        |         |         |       |          |

| Dislocation | 53  | 13,2000 | 42,7600 | 7.0000  | 165.0000 | 50.000 | 0.3783  | 1.2145    | 0.0038  | 0.0103  | 0. | -70.     |
|-------------|-----|---------|---------|---------|----------|--------|---------|-----------|---------|---------|----|----------|
| Dislocation | 54  | 13 1000 | 42 7500 | 6,0000  | 131,0000 | 46.000 | 0.4638  | 1 3564    | 0.0023  | 0.0133  | 0  | 100      |
| Dislocation | 54  | 13.1900 | 42.7500 | 0.0000  | 131.0000 | 40.000 | 0.4038  | 1.3304    | -0.0023 | 0.0155  | 0. | -100.    |
| Dislocation | 55  | 13.1400 | 42.7300 | 4.0000  | 132.0000 | /5.000 | 0.1652  | 0.7748    | -0.0036 | -0.0032 | 0. | 137.9999 |
| Dislocation | 56  | 13.1500 | 42.8300 | 6.0000  | 119.0000 | 77.000 | 0.1744  | 0.7980    | -0.0031 | -0.004  | 0. | 128.     |
| Dislocation | 57  | 13.2200 | 42.8600 | 4.0000  | 185.0000 | 80.000 | 0.2621  | 0.9954    | 0.0072  | -0.0026 | 0. | 20.      |
| Dislocation | 58  | 13 1/00 | 42 8000 | 6,0000  | 160,0000 | 55,000 | 03347   | 1 1 3 6 6 | 0.00/11 | 0.0088  | 0  | -65      |
| Dislocation | 50  | 13.1400 | 42.0000 | 8,0000  | 172.0000 | 72,000 | 0.1702  | 0.0000    | 0.000   | 0.0000  | 0. | 100      |
| DISIOCACION | 59  | 13.1900 | 42.7300 | 8.0000  | 173.0000 | 73.000 | 0.1792  | 0.8098    | -0.0009 | 0.0031  | 0. | -100.    |
| Dislocation | 60  | 13.2600 | 42.8200 | 3.0000  | 158.0000 | 61.000 | 0.2025  | 0.8654    | -0.0039 | 0.0044  | 0. | -132.    |
| Dislocation | 61  | 13.1600 | 42.8100 | 7.0000  | 50.0000  | 89.000 | 0.2383  | 0.9454    | -0.0018 | 0.0067  | 0. | -105.    |
| Dislocation | 62  | 13.1800 | 42.7600 | 6.0000  | 132.0000 | 56.000 | 0.2730  | 1.0177    | -0.0014 | 0.0078  | 0. | -100.    |
| Dislocation | 63  | 13 1400 | 42 8400 | 5 0000  | 160 0000 | 60,000 | 0 7771  | 1 7947    | 0.002   | 0.0225  | 0  | -85      |
| Dislocation | 64  | 13 2400 | 42 8700 | 4,0000  | 97,0000  | 81.000 | 0.3783  | 1 21/15   | 0.0103  | 0.0038  | 0  | 160      |
| Dislocation | 04  | 13.2400 | 42.8700 | 4.0000  | 37.0000  | 31.000 | 0.3783  | 1.2145    | -0.0103 | -0.0038 | 0. | 100.     |
| Dislocation | 65  | 13.2400 | 42.7600 | 8.0000  | 165.0000 | 75.000 | 0.3258  | 1.1200    | 0.0054  | 0.0077  | 0. | -55.     |
| Dislocation | 66  | 13.2600 | 42.8300 | 5.0000  | 141.0000 | 79.000 | 0.4333  | 1.3074    | -0.0087 | 0.009   | 0. | -134.    |
| Dislocation | 67  | 13.1300 | 42.8300 | 5.0000  | 165.0000 | 60.000 | 0.3583  | 1.1792    | 0.0018  | 0.0102  | 0. | -80.     |
| Dislocation | 68  | 13.1600 | 42,7800 | 5.0000  | 164.0000 | 65.000 | 0.3783  | 1.2145    | -0.0004 | 0.011   | 0. | -92.     |
| Dislocation | 69  | 13 2400 | 42 7500 | 5,0000  | 130,0000 | 45 000 | 0 3887  | 1 2325    | 0       | 0.0113  | 0  | -90      |
| Dislocation | 70  | 13.2400 | 42.7500 | 11,0000 | 117,0000 | 43.000 | 0.1966  | 0.8370    | 0.0025  | 0.0019  | 0. | 110      |
| Dislocation | 70  | 13.1800 | 42.8500 | 11.0000 | 117.0000 | 61.000 | 0.1866  | 0.8279    | -0.0025 | 0.0048  | 0. | -116.    |
| Dislocation | /1  | 13.3100 | 42.6200 | 5.0000  | 145.0000 | 60.000 | 0.4964  | 1.4073    | 0.0025  | 0.0142  | 0. | -80.     |
| Dislocation | 72  | 13.2300 | 42.8600 | 5.0000  | 135.0000 | 50.000 | 0.2483  | 0.9665    | 0.      | 0.0072  | 0. | -90.     |
| Dislocation | 73  | 13.2400 | 42.8100 | 3.0000  | 135.0000 | 70.000 | 0.2227  | 0.9112    | -0.0051 | 0.004   | 0. | -142.    |
| Dislocation | 74  | 13 1700 | 42 8100 | 7 0000  | 40 0000  | 80,000 | 0 2517  | 0.9736    | 0.0071  | -0.0019 | 0  | 15       |
| Dislocation | 75  | 13 3000 | 42 5600 | 6,0000  | 121 0000 | 69,000 | 0 3303  | 1 1/150   | -0.0037 | 0.0001  | 0  | -112     |
| Dislocation | 75  | 12,1400 | 42.3000 | 2,0000  | 105.0000 | 59.000 | 0.3555  | 0.7625    | -0.0037 | 0.0091  | 0. | -112.    |
| Dislocation | /6  | 13.1400 | 42.7500 | 2.0000  | 195.0000 | 50.000 | 0.1607  | 0.7635    | 0.002   | 0.0042  | U. | -05.     |
| Dislocation | 77  | 9.6000  | 44.5000 | 3.0000  | 77.0000  | 76.000 | 0.2383  | 0.9454    | -0.0025 | 0.0065  | 0. | -111.    |
| Dislocation | 78  | 13.1300 | 42.7700 | 2.0000  | 158.0000 | 61.000 | 1.0337  | 2.0951    | -0.0042 | 0.0297  | 0. | -98.     |
| Dislocation | 79  | 13.2000 | 42.8100 | 3.0000  | 158.0000 | 74.000 | 0.1792  | 0.8098    | -0.0011 | 0.0051  | 0. | -102.    |
| Dislocation | 80  | 13 2600 | 42 9300 | 4 0000  | 170.0000 | 80.000 | 0 1892  | 0.8341    | 0.0023  | 0.005   | 0  | -65      |
| Dislocation | 01  | 13 2100 | 12.000  | 4,0000  | 104 0000 | 8E 000 | 1 2224  | 2 2057    | 0.0025  | 0.005   | 0  | 170      |
| Dislocation | 01  | 13.2100 | 42.8700 | 4.0000  | 104.0000 | 05.000 | 1.2334  | 2.3057    | -0.0353 | -0.0062 | U. | 170.     |
| Dislocation | 82  | 13.2200 | 42.8700 | 4.0000  | 190.0000 | 70.000 | 0.2416  | 0.9524    | 0.0064  | -0.003  | 0. | 25.      |
| Dislocation | 83  | 13.2200 | 42.8600 | 2.0000  | 115.0000 | 67.000 | 0.2081  | 0.8782    | -0.0043 | 0.0042  | 0. | -136.    |
| Dislocation | 84  | 7.5200  | 43.9800 | 9.0000  | 112.0000 | 81.000 | 0.3258  | 1.1200    | -0.0089 | -0.0032 | 0. | 160.     |
| Dislocation | 85  | 13 2300 | 42 8500 | 2 0000  | 132 0000 | 63 000 | 0 1607  | 0 7635    | -0.0024 | 0.004   | 0  | -121     |
| Dislocation | 86  | 13 2100 | 42.8500 | 4,0000  | 107,0000 | 81.000 | 0 3303  | 1 1 4 5 0 | 0.0003  | 0.0034  | 0  | 160      |
| Dislocation | 00  | 13.2100 | 42.6300 | 4.0000  | 107.0000 | 81.000 | 0.3393  | 1.1450    | -0.0093 | -0.0034 | 0. | 100.     |
| Dislocation | 8/  | 13.3100 | 42.6300 | 7.0000  | 159.0000 | 65.000 | 0.1697  | 0.7863    | -0.0004 | 0.0049  | 0. | -95.     |
| Dislocation | 88  | 13.2400 | 42.8500 | 2.0000  | 140.0000 | 60.000 | 0.2551  | 0.9808    | -0.0024 | 0.007   | 0. | -109.    |
| Dislocation | 89  | 13.3400 | 42.6500 | 6.0000  | 140.0000 | 55.000 | 0.4452  | 1.3268    | 0.0022  | 0.0127  | 0. | -80.     |
| Dislocation | 90  | 13.0000 | 42.8300 | 7.0000  | 180.0000 | 65.000 | 0.1720  | 0.7921    | 0.0043  | -0.0025 | 0. | 30.      |
| Dislocation | 91  | 13.3400 | 42.6600 | 5.0000  | 126.0000 | 46.000 | 0.2693  | 1.0102    | -0.0014 | 0.0077  | 0. | -100.    |
| Dislocation | 92  | 13 1900 | 42 7600 | 6,0000  | 155,0000 | 55,000 | 0.2351  | 0.9384    | 0,0006  | 0.0068  | 0  | -85      |
| Dislocation | 02  | 12,2200 | 42.7000 | 2,0000  | 133.0000 | 72,000 | 0.2551  | 0.0054    | 0.0000  | 0.0000  | 0. | -05.     |
| Dislocation | 95  | 13.2200 | 42.8600 | 2.0000  | 141.0000 | 75.000 | 0.2621  | 0.9954    | -0.0032 | 0.0069  | 0. | -115.    |
| Dislocation | 94  | 13.1900 | 42.7300 | 9.0000  | 127.0000 | 54.000 | 0.2483  | 0.9665    | -0.0043 | 0.0058  | 0. | -127.    |
| Dislocation | 95  | 13.2000 | 42.8000 | 6.0000  | 215.0000 | 60.000 | 0.2730  | 1.0177    | 0.004   | 0.0069  | 0. | -60.     |
| Dislocation | 96  | 13.3000 | 42.6700 | 9.0000  | 175.0000 | 70.000 | 0.2053  | 0.8718    | 0.      | 0.006   | 0. | -90.     |
| Dislocation | 97  | 13.2400 | 42.8000 | 1.0000  | 133.0000 | 45.000 | 0.3214  | 1.1117    | -0.0008 | 0.0093  | 0. | -95.     |
| Dislocation | 98  | 13 1600 | 42 9500 | 1 0000  | 144 0000 | 47 000 | 0 2053  | 0.8718    | -0.0015 | 0.0058  | 0  | -105     |
| Dislocation | 00  | 13 2600 | 42.8400 | 3,0000  | 195.0000 | 55,000 | 0.18/1  | 0.8210    | 0.0031  | 0.0044  | 0  | 55       |
| Dislocation | 33  | 13.2000 | 42.0400 | 3.0000  | 195.0000 | 55.000 | 0.1041  | 0.0219    | 0.0031  | 0.0044  | 0. | -55.     |
| Dislocation | 100 | 13.1600 | 42.9600 | 1.0000  | 160.0000 | 60.000 | 0.2025  | 0.8654    | 0.0015  | 0.0057  | 0. | -/5.     |
| Dislocation | 101 | 13.2300 | 42.7900 | 3.0000  | 150.0000 | 55.000 | 0.2805  | 1.0328    | 0.0014  | 0.008   | 0. | -80.     |
| Dislocation | 102 | 13.2800 | 42.6800 | 4.0000  | 150.0000 | 50.000 | 0.2962  | 1.0637    | 0.0007  | 0.0086  | 0. | -85.     |
| Dislocation | 103 | 13.2200 | 42.8000 | 2.0000  | 134.0000 | 47.000 | 0.2109  | 0.8847    | -0.0016 | 0.0059  | 0. | -105.    |
| Dislocation | 104 | 13 2000 | 42 5800 | 15 0000 | 150,0000 | 70.000 | 0 3303  | 1 1/150   | 0.0075  | 0.0063  | 0  | -40.0001 |
| Dislocation | 104 | 13 2600 | 12.0000 | 2 0000  | 100,0000 | 74.000 | 0.1044  | 0.8464    | 0.0073  | 0.0045  | 0. | 10.0001  |
| Dislocation | 105 | 13.2600 | 42.6600 | 2.0000  | 100.0000 | /4.000 | 0.1944  | 0.8464    | -0.0034 | 0.0045  | 0. | -127.    |
| Dislocation | 106 | 13.1300 | 42./800 | 2.0000  | 150.0000 | 60.000 | 0.1892  | 0.8341    | 0.0005  | 0.0055  | 0. | -85.     |
| Dislocation | 107 | 13.1300 | 42.7800 | 2.0000  | 178.0000 | 61.000 | 0.5686  | 1.5150    | -0.0017 | 0.0164  | 0. | -96.     |
| Dislocation | 108 | 13.1300 | 42.7800 | 2.0000  | 182.0000 | 56.000 | 0.4217  | 1.2882    | -0.0021 | 0.0121  | 0. | -100.    |
| Dislocation | 109 | 13.1400 | 42.7800 | 1.0000  | 165.0000 | 55.000 | 0.3044  | 1.0794    | 0.      | 0.0088  | 0. | -90.     |
| Dislocation | 110 | 13,1400 | 42,7500 | 1.0000  | 170,0000 | 50,000 | 0.1607  | 0.7635    | -0.0004 | 0.0046  | 0. | -95.     |
| Dislocation | 111 | 13 0900 | 42 7600 | 7 0000  | 43.0000  | 76.000 | 0.2351  | 0.9394    | -0.0017 | 0.0066  | 0  | -104     |
| Dislocation | 112 | 12,0900 | 42.7000 | 7.0000  | 40.0000  | 70.000 | 0.20011 | 1.0404    | -0.0017 | 0.0000  | 0. | 104.     |
| Dislocation | 112 | 13.2300 | 42.8400 | 5.0000  | 120.0000 | 59.000 | 0.2844  | 1.0404    | -0.0023 | 0.0079  | U. | -106.    |
| Dislocation | 113 | 13.2900 | 42.6800 | 4.0000  | 145.0000 | 80.000 | 0.2517  | 0.9736    | 0.0047  | 0.0056  | 0. | -50.     |
| Dislocation | 114 | 13.2500 | 42.8200 | 2.0000  | 132.0000 | 71.000 | 0.2109  | 0.8847    | -0.0045 | 0.0042  | 0. | -137.    |
| Dislocation | 115 | 16.4500 | 39.0400 | 17.0000 | 68.0000  | 69.000 | 0.3170  | 1.1036    | -0.0021 | 0.009   | 0. | -103.    |
| Dislocation | 116 | 13,2900 | 42,6800 | 4.0000  | 135,0000 | 75,000 | 0.1816  | 0.8158    | 0.0026  | 0.0046  | 0. | -60.     |
| Dislocation | 117 | 13 2800 | 42 6700 | 4 0000  | 145 0000 | 65,000 | 0.5313  | 1.4602    | 0.0088  | 0.0126  | 0  | -55      |
| Dislocation | 110 | 12 2000 | 42.0700 | 4.0000  | 145.0000 | 00.000 | 0.3315  | 1.002     | 0.0000  | 0.0120  | 0. | 70       |
| Dislocation | 118 | 13.2900 | 42.6800 | 4.0000  | 145.0000 | 90.000 | 0.2805  | 1.0328    | 0.0028  | -0.0077 | 0. | /0.      |
| Dislocation | 119 | 13.1500 | 42.8100 | 6.0000  | 120.0000 | /5.000 | 0.1918  | 0.8402    | 0.0019  | 0.0052  | 0. | -/0.     |
| Dislocation | 120 | 13.1500 | 42.8100 | 6.0000  | 130.0000 | 90.000 | 0.1918  | 0.8402    | 0.0019  | 0.0052  | 0. | -70.     |
| Dislocation | 121 | 13.1500 | 42.8000 | 5.0000  | 175.0000 | 90.000 | 0.3583  | 1.1792    | 0.0018  | -0.0102 | 0. | 80.      |
| Dislocation | 122 | 13,1300 | 42,7800 | 2.0000  | 140,0000 | 75,000 | 0.1607  | 0.7635    | 0.0004  | 0.0046  | 0. | -85.     |
| Dislocation | 123 | 13 1900 | 42 7600 | 5,0000  | 155,0000 | 60.000 | 0.4104  | 1 269/    | 0.0021  | 0.0117  | 0  | -80      |
| Dislocation | 124 | 13 2500 | 42.0000 | 5.0000  | 175.0000 | 60.000 | 0.3691  | 1 1067    | 0.0029  | 0.0102  | 0  | 75       |
| Dislocation | 124 | 13.2300 | 42.9000 | 5.0000  | 175.0000 | 60.000 | 0.3001  | 1.190/    | 0.0028  | 0.0105  | 0. | -7.5.    |
| Dislocation | 125 | 13.2400 | 42.9000 | 5.0000  | 1/5.0000 | 60.000 | 0.4452  | 1.3268    | 0.0044  | 0.0121  | U. | -70.     |
| Dislocation | 126 | 13.2300 | 42.7900 | 2.0000  | 140.0000 | 55.000 | 0.2962  | 1.0637    | 0.0015  | 0.0085  | 0. | -80.     |
| Dislocation | 127 | 13.1200 | 42.8600 | 5.0000  | 107.0000 | 54.000 | 0.3940  | 1.2416    | -0.0069 | 0.0091  | 0. | -127.    |
| Dislocation | 128 | 13.2200 | 42.6400 | 7.0000  | 148.0000 | 61.000 | 0.2586  | 0.9881    | -0.001  | 0.0074  | 0. | -98.     |
| Dislocation | 120 | 13 1400 | 42.8800 | 5.0000  | 149.0000 | 66.000 | 0.1697  | 0.7863    | -0.0006 | 0.0049  | 0. | -97.     |
| DISIOCATION | 129 |         |         |         |          |        |         |           | 2.0000  |         | ·  |          |
| Dislocation | 129 | 13 2500 | 12 0000 | 5 0000  | 160.0000 | 65 000 | 0 2022  | 1 0559    | 0 0022  | 0.0082  | 0  | -75      |

| Dislocation   | 131  | 13,2000  | 42,7800   | 6.0000   | 90.0000  | 65.000   | 0.1866   | 0.8279  | 0.0031   | 0.0044   | 0.  | -55.   |
|---|--|--|---|--|--|--|--|---|--|--|---|--|
| Dislocation   | 137  | 13 1800  | 42 7500   | 3,0000   | 148.0000   | 45.000   | 0.4701   | 1 3665  | 0.0012   | 0.0136   | 0   | 05   |
| Dislocation   | 132  | 13.1000  | 42.7500   | 3.0000   | 148.0000   | 45.000   | 0.4701   | 1.3005  | -0.0012  | 0.0130   | 0.  | -95.   |
| Dislocation   | 133  | 13.1900  | 42.7500   | 4.0000   | 148.0000   | 45.000   | 0.2517   | 0.9736  | -0.0006  | 0.0073   | 0.  | -95.   |
| Dislocation   | 134  | 13.1900  | 42.7400   | 3.0000   | 151.0000   | 46.000   | 0.7360   | 1.7426  | -0.0037  | 0.021  | 0.  | -100.  |
| Dislocation   | 135  | 13.2000  | 42,7400   | 3.0000   | 165.0000   | 70.000   | 0.2320   | 0.9315  | 0.0006   | 0.0067   | 0.  | -85.   |
| Dislocation   | 136  | 13 2000  | 42 7400   | 3 0000   | 160.0000   | 60.000   | 0.4217   | 1 2882  | 0.0011   | 0.0122   | 0   | -85  |
| Dislocation   | 127  | 12.2000  | 42.7400   | 1.0000   | 115.0000   | 52,000   | 0.1620   | 0.7601  | 0.0011   | 0.0045   | 0.  | 106  |
| DISIOCATION   | 137  | 13.2300  | 42.8000   | 1.0000   | 115.0000   | 33.000   | 0.1029   | 0.7091  | -0.0013  | 0.0043   | 0.  | -100.  |
| Dislocation   | 138  | 13.0700  | 42.8700   | 5.0000   | 145.0000   | 55.000   | 0.2586   | 0.9881  | 0.0026   | 0.0071   | 0.  | -/0.   |
| Dislocation   | 139  | 13.3300  | 42.6300   | 5.0000   | 152.0000   | 51.000   | 0.3170   | 1.1036  | -0.0013  | 0.0091   | 0.  | -98.   |
| Dislocation   | 140  | 13.2600  | 42.8900   | 3.0000   | 145.0000   | 60.000   | 0.2517   | 0.9736  | 0.0042   | 0.006  | 0.  | -55.   |
| Dislocation   | 141  | 13 1800  | 42 7500   | 3 0000   | 180 0000   | 60,000   | 0 2257   | 0 9179  | 0.0022   | 0.0062   | 0   | -70  |
| Dislocation   | 1/12   | 13 1800  | 42 7500   | 3,0000   | 161,0000   | 46.000   | 0.7771   | 1 70/7  | 0.0030   | 0.0222   | 0   | 100  |
| Dislocation   | 142  | 13.1800  | 42.7500   | 5.0000   | 101.0000   | 40.000   | 0.7771   | 1.7947  | -0.0039  | 0.0222   | 0.  | -100.  |
| Dislocation   | 143  | 13.1500  | 42.8500   | 5.0000   | 175.0000   | 70.000   | 0.2922   | 1.0558  | 0.0007   | 0.0085   | 0.  | -85.   |
| Dislocation   | 144  | 15.6500  | 40.7600   | 16.0000  | 150.0000   | 89.000   | 0.4160   | 1.2788  | -0.0021  | -0.0119  | 0.  | 100.   |
| Dislocation   | 145  | 11.0500  | 43.1900   | 9.0000   | 37.0000  | 78.000   | 0.4392   | 1.3170  | -0.0048  | -0.0118  | 0.  | 112.   |
| Dislocation   | 146  | 12,5500  | 43.3800   | 1.0000   | 145.0000   | 60.000   | 0.1918   | 0.8402  | 0.001  | 0.0055   | 0.  | -80.   |
| Dislocation   | 147  | 10,9900  | 43 6000   | 8 0000   | 82 0000  | 85,000   | 0 7667   | 1 7816  | -0.0202  | 0.0094   | 0   | -155   |
| Dislocation   | 140  | 12,1200  | 43.0000   | C.0000   | 154,0000   | 60.000   | 4.96.41  | 4.9520  | 0.0202   | 0.0034   | 0.  | 02   |
| DISIOCATION   | 140  | 13.1300  | 42.0000   | 5.0000   | 134.0000   | 00.000   | 4.6041   | 4.6329  | -0.0074  | 0.141  | 0.  | -93.   |
| Dislocation   | 149  | 13.0900  | 42.8800   | 6.0000   | 159.0000   | 66.000   | 0.3214   | 1.1117  | -0.0011  | 0.0093   | 0.  | -97.   |
| Dislocation   | 150  | 13.1200  | 42.9100   | 5.0000   | 144.0000   | 47.000   | 0.3347   | 1.1366  | -0.0025  | 0.0094   | 0.  | -105.  |
| Dislocation   | 151  | 13.1300  | 42.8900   | 5.0000   | 170.0000   | 60.000   | 0.2257   | 0.9179  | 0.0017   | 0.0063   | 0.  | -75.   |
| Dislocation   | 152  | 13,1300  | 42,9100   | 5.0000   | 162.0000   | 45.000   | 10.5511  | 7.3858  | 0.0267   | 0.3052   | 0.  | -85.   |
| Dislocation   | 152  | 13 0700  | 42 8900   | 6,0000   | 175 0000   | 75 000   | 0.6971   | 1 6920  | 0.0116   | -0.0166  | 0   | 55   |
| Diclocation   | 155  | 12 0900  | 42.0500   | E 0000   | 140.0000   | 66.000   | 0.5571   | 1.5520  | 0.002  | 0.0166   | 0.  | 07   |
| DISIOCATION   | 154  | 13.0800  | 42.0700   | 5.0000   | 149.0000   | 00.000   | 0.3704   | 1.3202  | -0.002   | 0.0100   | 0.  | -37.   |
| Dislocation   | 155  | 13.2600  | 42.8200   | 4.0000   | 134.0000   | /9.000   | 0.2138   | 0.8913  | -0.0043  | -0.0045  | 0.  | 134.   |
| Dislocation   | 156  | 13.1300  | 42.8600   | 5.0000   | 150.0000   | 60.000   | 1.5966   | 2.6522  | 0.   | 0.0464   | 0.  | -90.   |
| Dislocation   | 157  | 13.2100  | 42.8600   | 4.0000   | 163.0000   | 78.000   | 0.3258   | 1.1200  | -0.0035  | 0.0088   | 0.  | -112.  |
| Dislocation   | 158  | 13.1600  | 42.9300   | 2,0000   | 137.0000   | 84.000   | 0,2586   | 0.9881  | -0.0043  | -0,0061  | 0.  | 125.   |
| Dislocation   | 150  | 13 1200  | 42 8700   | 5,0000   | 186.0000   | 60.000   | 0.2768   | 1 0 2 5 2   | 0.0004   | 0.008  | 0   | -87  |
| Dislocation   | 109  | 12,1200  | 42.0700   | 3.0000   | 150.0000   | 60.000   | 0.2700   | 1.02.02   | 0.0004   | 0.000  | 0.  | -07.   |
| Dislocation   | 160  | 13.1700  | 42.8400   | 3.0000   | 150.0000   | 60.000   | 0.3887   | 1.2325  | 0.0039   | 0.0106   | 0.  | -70.   |
| Dislocation   | 161  | 13.1700  | 42.8400   | 2.0000   | 175.0000   | 60.000   | 0.2227   | 0.9112  | 0.0046   | 0.0046   | 0.  | -45.   |
| Dislocation   | 162  | 13.1200  | 42.9900   | 2.0000   | 146.0000   | 55.000   | 0.3044   | 1.0794  | 0.0005   | 0.0088   | 0.  | -87.   |
| Dislocation   | 163  | 13.0600  | 42.8900   | 7.0000   | 130.0000   | 55.000   | 0.2693   | 1.0102  | -0.0039  | 0.0068   | 0.  | -120.  |
| Dislocation   | 164  | 13 1500  | 42 8400   | 5 0000   | 159 0000   | 60,000   | 0 7878   | 1 8080  | -0.0012  | 0.0228   | 0   | -93  |
| Dislocation   | 165  | 13 1300  | 42 0000   | 3,0000   | 170,0000   | 70,000   | 0.0528   | 2 0045  | 0.0048   | 0.0272   | 0   | 80   |
| Dislocation   | 105  | 13.1300  | 42.9900   | 3.0000   | 170.0000   | 70.000   | 0.9528   | 2.0045  | 0.0048   | 0.0272   | 0.  | -00.   |
| Dislocation   | 166  | 13.1300  | 42.8700   | 3.0000   | 161.0000   | 73.000   | 0.2883   | 1.0481  | -0.0035  | 0.0076   | 0.  | -115.  |
| Dislocation   | 167  | 13.1000  | 42.8700   | 5.0000   | 168.0000   | 61.000   | 1.2847   | 2.3572  | -0.0039  | 0.0371   | 0.  | -96.   |
| Dislocation   | 168  | 13.1500  | 42.9600   | 1.0000   | 160.0000   | 80.000   | 0.2167   | 0.8978  | 0.0044   | 0.0044   | 0.  | -45.   |
| Dislocation   | 169  | 13.1300  | 43.0200   | 1.0000   | 135.0000   | 59.000   | 0.3128   | 1.0955  | -0.0025  | 0.0087   | 0.  | -106.  |
| Dislocation   | 170  | 13.1400  | 43.0200   | 1.0000   | 128.0000   | 66.000   | 0.2288   | 0.9247  | -0.0036  | 0.0056   | 0.  | -123.  |
| Dislocation   | 171  | 13 1600  | 42 7900   | 5,0000   | 173 0000   | 61,000   | 0.2883   | 1 0481  | -0.0009  | 0.0083   | 0   | -96  |
| Dislocation   | 172  | 12.0700  | 42.7500   | 7,0000   | 1/3.0000   | 66.000   | 0.2665   | 0.0909  | 0.0000   | 0.0067   | 0.  | 116  |
| Dislocation   | 172  | 12.1000  | 42.9300   | 7.0000   | 144.0000   | 70,000   | 1.1041   | 0.9608  | -0.0032  | 0.0007   | 0.  | -110.  |
| Dislocation   | 1/3  | 13.1000  | 42.8400   | 5.0000   | 175.0000   | 70.000   | 1.1841   | 2.2553  | -0.0012  | 0.0344   | 0.  | -92.   |
| Dislocation   | 174  | 13.1100  | 42.8500   | 5.0000   | 175.0000   | 65.000   | 0.6784   | 1.6673  | 0.   | 0.0197   | 0.  | -90.   |
| Dislocation   | 175  | 13.1200  | 43.0100   | 2.0000   | 170.0000   | 50.000   | 0.3214   | 1.1117  | 0.0039   | 0.0085   | 0.  | -65.   |
| Dislocation   | 176  | 13.1500  | 42.8700   | 3.0000   | 107.0000   | 62.000   | 0.2351   | 0.9384  | -0.0052  | 0.0045   | 0.  | -139.  |
| Dislocation   | 177  | 13,1200  | 42.8200   | 5.0000   | 156.0000   | 57.000   | 0.2962   | 1.0637  | -0.0019  | 0.0084   | 0.  | -103.  |
| Dislocation   | 178  | 13 1/00  | 12 9900   | 2,0000   | 140.0000   | 55,000   | 0.2922   | 1.0558  | 0  | 0.0085   | 0   | -90  |
| Dislocation   | 170  | 12,1200  | 42.000  | 2.0000   | 121.0000   | 64.000   | 0.2322   | 1.000   | 0.0076   | 0.0005   | 0.  | -50.   |
| DISIOCATION   | 1/9  | 13.1200  | 43.0300   | 2.0000   | 121.0000   | 04.000   | 0.3170   | 1.1030  | -0.0076  | 0.0031   | 0.  | -140.  |
| Dislocation   | 180  | 13.1500  | 42.9900   | 2.0000   | 130.0000   | 53.000   | 0.2883   | 1.0481  | -0.0023  | 0.008  | 0.  | -106.  |
| Dislocation   | 181  | 13.1400  | 43.0000   | 2.0000   | 145.0000   | 50.000   | 0.2621   | 0.9954  | 0.0007   | 0.0076   | 0.  | -85.   |
| Dislocation   | 182  | 13.0400  | 42.8600   | 8.0000   | 130.0000   | 67.000   | 0.2730   | 1.0177  | -0.0057  | 0.0055   | 0.  | -136.  |
| Dislocation   | 183  | 13.1800  | 42.8900   | 2.0000   | 150.0000   | 50.000   | 0.2320   | 0.9315  | 0.0012   | 0.0066   | 0.  | -80.   |
| Dislocation   | 184  | 13,1400  | 42,9600   | 3.0000   | 106.0000   | 66,000   | 0.2257   | 0.9179  | -0.0041  | 0.0051   | 0.  | -129.  |
| Dislocation   | 185  | 13 1100  | 42 9200   | 5,0000   | 155 0000   | 55 000   | 0 3170   | 1 1036  | 0.0046   | 0.008  | 0   | -60  |
| Diclocation   | 105  | 12 2100  | 42.0200   | 1,0000   | 150,0000   | EE 000   | 0.2440   | 1.1630  | 0.0000   | 0.0000   | 0.  | 00.<br>0E  |
| Dislocation   | 100  | 12.4200  | 42.0700   | 1.0000   | 160,0000   | 75.000   | 0.3440   | 1.1333  | 0.0009   | 0.0099   | 0.  | -0.00.0  |
| Dislocation   | 18/  | 13.1200  | 47 /900   | 8.0000   | 160.0000   | I /5.000   | 0.5032   |   |  | 0.0094   | υ.  | -40.0001   |
| <b>B</b> 11   | 1.2.2  | 10.17  | 12.7500   |  | 100.000  | -  | 0.5.5.5  | 1.4178  | 0.0112   | 0.0051   |   |  |
| Dislocation   | 188  | 13.1600  | 42.8700   | 5.0000   | 180.0000   | 75.000   | 0.5385   | 1.4710  | 0.0027   | 0.0154   | 0.  | -80.   |
| Dislocation<br>Dislocation  | 188<br>189   | 13.1600<br>13.1400   | 42.8700<br>42.8000  | 5.0000   | 180.0000<br>158.0000   | 75.000<br>61.000   | 0.5385   | 1.4710<br>1.0177  | 0.0027   | 0.0154   | 0.  | -80.<br>-98.   |
| Dislocation<br>Dislocation<br>Dislocation   | 188<br>189<br>190  | 13.1600<br>13.1400<br>13.0900  | 42.8700<br>42.8000<br>42.8800   | 5.0000<br>5.0000<br>6.0000   | 180.0000<br>158.0000<br>148.0000   | 75.000<br>61.000<br>67.000   | 0.5385<br>0.2730<br>0.3534   | 1.4770<br>1.0177<br>1.1706  | 0.0027<br>-0.0011<br>-0.0016   | 0.0154<br>0.0078<br>0.0101   | 0.<br>0.<br>0.  | -80.<br>-98.<br>-99.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 188<br>189<br>190<br>191   | 13.1600<br>13.1400<br>13.0900<br>13.0500   | 42.8700<br>42.8000<br>42.8800<br>42.9900  | 5.0000<br>5.0000<br>6.0000<br>6.0000   | 180.0000<br>158.0000<br>148.0000<br>136.0000   | 75.000<br>61.000<br>67.000<br>66.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487   | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620  | 0.0012<br>0.0027<br>-0.0011<br>-0.0016<br>-0.0031  | 0.0154<br>0.0078<br>0.0101<br>0.0096   | 0.<br>0.<br>0.  | -80.<br>-98.<br>-99.<br>-108.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 188<br>189<br>190<br>191<br>192  | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500  | 42.8700<br>42.8000<br>42.8800<br>42.9900<br>42.8500   | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000   | 180.0000<br>158.0000<br>148.0000<br>136.0000<br>205.0000   | 75.000<br>61.000<br>67.000<br>66.000<br>85.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258   | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200  | 0.00112<br>0.0027<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032   | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089  | 0.<br>0.<br>0.<br>0.  | -80.<br>-98.<br>-99.<br>-108.<br>70.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 188<br>189<br>190<br>191<br>192  | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000   | 42.8700<br>42.8000<br>42.8800<br>42.9900<br>42.8500<br>43.0200  | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000<br>3.0000   | 180.0000<br>158.0000<br>148.0000<br>136.0000<br>205.0000<br>123.0000   | 75.000<br>61.000<br>67.000<br>66.000<br>85.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138   | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913  | 0.00112<br>0.0027<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036  | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089  | 0.<br>0.<br>0.<br>0.<br>0.  | -80.<br>-98.<br>-99.<br>-108.<br>70.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 188<br>189<br>190<br>191<br>192<br>193   | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1500<br>13.1000  | 42.8700<br>42.8000<br>42.8800<br>42.9900<br>42.8500<br>43.0200  | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000<br>3.0000   | 180.0000<br>158.0000<br>148.0000<br>136.0000<br>205.0000<br>123.0000<br>145.0000   | 75.000<br>61.000<br>67.000<br>66.000<br>85.000<br>68.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138   | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913  | 0.00112<br>0.0027<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036  | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 188<br>189<br>190<br>191<br>192<br>193<br>194  | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000  | 42.8700<br>42.8000<br>42.8800<br>42.9900<br>42.8500<br>43.0200<br>42.8800   | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000<br>3.0000<br>1.0000   | 180.0000<br>158.0000<br>148.0000<br>136.0000<br>205.0000<br>123.0000<br>145.0000   | 75.000<br>61.000<br>67.000<br>66.000<br>85.000<br>68.000<br>55.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138<br>0.2383   | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913<br>0.9454  | 0.00112<br>0.0027<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036<br>0.  | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051<br>0.0069  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 188<br>189<br>190<br>191<br>192<br>193<br>194<br>195   | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000<br>13.1000   | 42.8700<br>42.8000<br>42.8000<br>42.8800<br>42.9900<br>42.8500<br>43.0200<br>42.8800<br>42.8100   | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000<br>3.0000<br>1.0000<br>7.0000   | 180.0000<br>158.0000<br>148.0000<br>136.0000<br>205.0000<br>123.0000<br>145.0000<br>150.0000   | 75.000<br>61.000<br>67.000<br>66.000<br>85.000<br>68.000<br>55.000<br>50.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138<br>0.2383<br>0.9273   | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913<br>0.9454<br>1.9751  | 0.0017<br>0.0027<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036<br>0.<br>0.   | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051<br>0.0069<br>0.0269  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.<br>-90.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 188<br>189<br>190<br>191<br>192<br>193<br>194<br>195<br>196  | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000<br>13.1000<br>13.0800  | 42.8700<br>42.8700<br>42.8000<br>42.8800<br>42.9900<br>42.8500<br>43.0200<br>42.8800<br>42.8100<br>42.8100<br>42.9600   | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000<br>3.0000<br>1.0000<br>7.0000<br>5.0000   | 180.0000           158.0000           148.0000           136.0000           205.0000           123.0000           145.0000           145.0000           145.0000           136.0000  | 75.000<br>61.000<br>67.000<br>66.000<br>85.000<br>68.000<br>55.000<br>50.000<br>66.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138<br>0.2383<br>0.9273<br>0.2517   | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913<br>0.9454<br>1.9751<br>0.9736  | 0.0012<br>0.0027<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036<br>0.<br>0.<br>-0.0032  | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051<br>0.0069<br>0.0269<br>0.0066  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                              | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.<br>-90.<br>-116.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 188<br>189<br>190<br>191<br>192<br>193<br>194<br>195<br>196<br>197   | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000<br>13.1000<br>13.0800<br>13.1000   | 42.8700<br>42.8000<br>42.8000<br>42.8800<br>42.9900<br>42.8500<br>43.0200<br>42.8800<br>42.8100<br>42.8100<br>42.8100<br>42.8300  | 5.0000<br>5.0000<br>6.0000<br>3.0000<br>3.0000<br>1.0000<br>7.0000<br>5.0000<br>5.0000   | 180.0000           158.0000           148.0000           136.0000           205.0000           123.0000           145.0000           145.0000           150.0000           134.0000           134.0000   | 75.000<br>61.000<br>67.000<br>85.000<br>68.000<br>55.000<br>50.000<br>66.000<br>61.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138<br>0.2383<br>0.22383<br>0.9273<br>0.2517<br>0.2844  | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913<br>0.9454<br>1.9751<br>0.9736<br>1.0404  | 0.0012<br>0.0027<br>-0.0011<br>-0.0031<br>-0.0032<br>-0.0032<br>0.<br>0.<br>-0.0032<br>-0.0032<br>-0.0032<br>-0.0032   | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051<br>0.0069<br>0.0269<br>0.0066<br>0.0082  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.<br>-90.<br>-116.<br>-96.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 188<br>189<br>190<br>191<br>192<br>193<br>194<br>195<br>196<br>197   | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000<br>13.1000<br>13.0800<br>13.1000<br>13.0700  | 42.8700<br>42.8000<br>42.8000<br>42.8800<br>42.9900<br>42.8500<br>43.0200<br>42.8800<br>42.8100<br>42.9600<br>42.8300<br>43.0600  | 5.0000<br>5.0000<br>6.0000<br>3.0000<br>3.0000<br>1.0000<br>7.0000<br>5.0000<br>5.0000<br>5.0000   | 180.0000<br>158.0000<br>148.0000<br>205.0000<br>123.0000<br>145.0000<br>150.0000<br>134.0000<br>173.0000<br>160.0000   | 75.000<br>61.000<br>67.000<br>66.000<br>85.000<br>68.000<br>55.000<br>50.000<br>66.000<br>61.000<br>65.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138<br>0.2383<br>0.2383<br>0.2517<br>0.2844<br>0.3044   | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913<br>0.9454<br>1.9751<br>0.9736<br>1.0404<br>1.0794  | 0.00112<br>0.0027<br>-0.0011<br>-0.0031<br>0.0032<br>-0.0036<br>0.<br>-0.0032<br>-0.0032<br>-0.0009<br>0.0037  | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051<br>0.0069<br>0.0269<br>0.0066<br>0.0082<br>0.008   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.<br>-90.<br>-116.<br>-96.<br>-65.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 188<br>189<br>190<br>191<br>192<br>193<br>194<br>195<br>196<br>197<br>198  | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000<br>13.1000<br>13.0800<br>13.1000<br>13.0700<br>13.1100   | 42.8700<br>42.8000<br>42.8000<br>42.8800<br>42.9900<br>42.8500<br>43.0200<br>42.8800<br>42.8100<br>42.8300<br>42.8300<br>43.0600<br>43.0600   | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000<br>3.0000<br>1.0000<br>7.0000<br>5.0000<br>5.0000<br>5.0000<br>2.0000   | 180.000<br>158.000<br>148.000<br>205.000<br>123.000<br>145.000<br>150.000<br>134.000<br>173.000<br>160.000<br>150.000  | 75.000<br>61.000<br>67.000<br>85.000<br>68.000<br>55.000<br>50.000<br>66.000<br>61.000<br>65.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138<br>0.2383<br>0.2383<br>0.9273<br>0.2517<br>0.2844<br>0.3044<br>19,7105  | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913<br>0.9454<br>1.9751<br>0.9736<br>1.0404<br>1.0794<br>10.3657   | 0.00172<br>0.0027<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036<br>0.<br>-0.0032<br>-0.0009<br>0.0037<br>0.  | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051<br>0.0069<br>0.0269<br>0.0066<br>0.0082<br>0.0082<br>0.008   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.<br>-90.<br>-1116.<br>-96.<br>-65.<br>-90.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 188<br>189<br>190<br>191<br>192<br>193<br>194<br>195<br>196<br>197<br>198<br>199<br>200  | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000<br>13.0800<br>13.0800<br>13.0700<br>13.0700<br>13.1100   | 42.8700<br>42.8000<br>42.8000<br>42.8800<br>42.8500<br>43.0200<br>42.8500<br>42.8100<br>42.8100<br>42.8300<br>42.8300<br>42.8300<br>42.8300<br>42.8400  | 5.0000<br>5.0000<br>6.0000<br>3.0000<br>3.0000<br>1.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000<br>2.0000   | 180.000<br>158.000<br>148.000<br>136.000<br>205.000<br>123.000<br>145.000<br>130.000<br>134.000<br>173.000<br>160.000<br>150.000<br>150.000  | 75.000<br>61.000<br>67.000<br>85.000<br>68.000<br>55.000<br>50.000<br>66.000<br>61.000<br>65.000<br>55.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138<br>0.2383<br>0.2213<br>0.2517<br>0.2844<br>0.3044<br>19.7106<br>0.5843  | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913<br>0.9454<br>1.9751<br>0.9736<br>1.0404<br>1.0794<br>1.03657<br>1.5374   | 0.00172<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036<br>0.<br>-0.0032<br>-0.0009<br>0.0037<br>0.<br>0.<br>0.<br>0.0037  | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051<br>0.0069<br>0.0269<br>0.0066<br>0.0082<br>0.0082<br>0.008<br>0.008<br>0.008   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.<br>-90.<br>-116.<br>-96.<br>-65.<br>-90.<br>-55.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 188<br>189<br>190<br>191<br>192<br>193<br>194<br>195<br>196<br>197<br>198<br>199<br>200  | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000<br>13.1000<br>13.0800<br>13.1000<br>13.0700<br>13.1100<br>13.0500  | 42.8700<br>42.8700<br>42.8000<br>42.8800<br>42.8500<br>42.8500<br>42.8500<br>42.8800<br>42.8100<br>42.8000<br>42.8300<br>42.8300<br>42.8400<br>42.8400<br>42.8400   | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000<br>3.0000<br>1.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000<br>8.0000<br>8.0000   | 180.0000<br>158.0000<br>136.0000<br>205.0000<br>123.0000<br>145.0000<br>145.0000<br>134.0000<br>134.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000   | 75.000<br>61.000<br>67.000<br>85.000<br>85.000<br>55.000<br>55.000<br>66.000<br>61.000<br>65.000<br>55.000<br>90.000<br>90.000   | 0.5385<br>0.2730<br>0.3534<br>0.3258<br>0.2138<br>0.2383<br>0.2383<br>0.2217<br>0.2814<br>0.3044<br>19.7106<br>0.5843<br>11651   | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913<br>0.9454<br>1.9751<br>0.9736<br>1.0404<br>1.0794<br>10.3657<br>1.5374<br>2.3287   | 0.0027<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036<br>0.<br>-0.0032<br>-0.0032<br>-0.0009<br>0.0037<br>0.<br>0.<br>0.0097<br>0.00097   | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051<br>0.0069<br>0.0066<br>0.0082<br>0.0082<br>0.0082<br>0.0082<br>0.0082  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.<br>-90.<br>-90.<br>-116.<br>-96.<br>-65.<br>-90.<br>-55.<br>-90.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 188<br>189<br>190<br>191<br>192<br>193<br>194<br>195<br>196<br>197<br>198<br>199<br>200<br>201<br>200  | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000<br>13.1000<br>13.0800<br>13.0000<br>13.0700<br>13.1100<br>13.0500<br>13.0500   | 42.8700<br>42.8000<br>42.8000<br>42.8800<br>42.9900<br>43.0200<br>42.8800<br>42.8100<br>42.8300<br>42.8300<br>43.0600<br>42.8400<br>42.8400<br>42.8600<br>42.8400   | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000<br>3.0000<br>1.0000<br>7.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000<br>8.0000<br>8.0000<br>8.0000   | 180.0000<br>158.0000<br>148.0000<br>205.0000<br>123.0000<br>145.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>160.0000<br>165.0000<br>185.0000   | 75.000<br>61.000<br>67.000<br>66.000<br>85.000<br>55.000<br>55.000<br>66.000<br>61.000<br>65.000<br>55.000<br>90.000<br>75.000   | 0.5385<br>0.2730<br>0.3534<br>0.3258<br>0.2138<br>0.2383<br>0.22383<br>0.9273<br>0.2517<br>0.2844<br>0.3044<br>19.7106<br>0.5843<br>1.1681<br>1.681  | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913<br>0.9454<br>1.9751<br>0.9736<br>1.0404<br>1.0794<br>10.3657<br>1.5374<br>2.2387<br>2.2387   | 0.0027<br>-0.0011<br>-0.0016<br>-0.0031<br>-0.0032<br>-0.0036<br>0.<br>-0.0032<br>-0.0009<br>0.00097<br>0.00097<br>0.00059<br>0.00059  | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051<br>0.0069<br>0.0269<br>0.0066<br>0.0082<br>0.0082<br>0.0082<br>0.0082<br>0.0082<br>0.0139<br>0.0334  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.<br>-90.<br>-90.<br>-116.<br>-96.<br>-65.<br>-90.<br>-55.<br>-90.<br>-55.<br>-80.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40.<br>-40. |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 188<br>189<br>190<br>191<br>192<br>193<br>194<br>195<br>196<br>197<br>198<br>199<br>200<br>201<br>200  | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000<br>13.1000<br>13.0800<br>13.1000<br>13.0700<br>13.1100<br>13.0500<br>13.1900   | 42.8700<br>42.8700<br>42.8000<br>42.8800<br>42.8500<br>43.0200<br>42.8800<br>42.8100<br>42.8300<br>42.8300<br>42.8400<br>42.8600<br>42.8300<br>42.8300<br>42.8300   | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000<br>3.0000<br>7.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000<br>8.0000<br>8.0000<br>8.0000   | 180.000<br>158.000<br>148.000<br>205.000<br>205.000<br>123.000<br>145.000<br>150.000<br>134.000<br>134.000<br>150.000<br>150.000<br>150.000<br>185.000<br>185.000<br>128.000   | 75.000<br>61.000<br>67.000<br>66.000<br>85.000<br>55.000<br>55.000<br>66.000<br>61.000<br>65.000<br>55.000<br>75.000<br>75.000<br>51.000   | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138<br>0.2383<br>0.2233<br>0.2517<br>0.2844<br>0.3044<br>19.7106<br>0.5843<br>1.1681<br>0.5100  | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.9454<br>1.9751<br>0.9736<br>1.0404<br>1.0794<br>10.3657<br>1.5374<br>2.2387<br>1.4282   | 0.00172<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036<br>-0.0032<br>-0.0009<br>0.0037<br>0.<br>0.0097<br>0.0059<br>-0.0083   | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051<br>0.0069<br>0.0069<br>0.0066<br>0.0082<br>0.008<br>0.0722<br>0.0139<br>0.0334<br>0.0123   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -80.           -98.           -99.           -108.           70.           -125.           -90.           -91.           -90.           -116.           -96.           -65.           -90.           -55.           -80.           -124.   |
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| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 188<br>189<br>190<br>191<br>192<br>193<br>194<br>195<br>196<br>197<br>198<br>199<br>200<br>201<br>202<br>203<br>204                                    | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000<br>13.1000<br>13.0800<br>13.0000<br>13.0700<br>13.0700<br>13.0500<br>13.0800<br>13.1900<br>13.2200<br>13.2100                                  | 42.8700<br>42.8000<br>42.8800<br>42.9900<br>42.8500<br>43.0200<br>42.8800<br>42.8100<br>42.8100<br>42.8300<br>42.8300<br>42.8400<br>42.8400<br>42.8300<br>42.8800<br>42.8300<br>42.7100<br>42.9300  | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000<br>1.0000<br>7.0000<br>5.0000<br>5.0000<br>5.0000<br>2.0000<br>8.0000<br>8.0000<br>2.0000<br>4.0000<br>4.0000   | 180.0000<br>158.0000<br>148.0000<br>205.0000<br>123.0000<br>145.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>128.0000<br>128.0000<br>90.0000  | 75.000<br>61.000<br>67.000<br>66.000<br>85.000<br>55.000<br>55.000<br>50.000<br>66.000<br>61.000<br>55.000<br>55.000<br>90.000<br>75.000<br>51.000<br>55.000<br>57.000                               | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138<br>0.2383<br>0.22138<br>0.2217<br>0.2844<br>0.3044<br>19.7106<br>0.5843<br>1.1681<br>0.5100<br>0.3834<br>0.3534   | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913<br>0.9454<br>1.9751<br>0.9736<br>1.09736<br>1.09736<br>1.09736<br>1.0794<br>10.3657<br>1.5374<br>2.2387<br>1.4282<br>1.2235<br>1.1706                                    | 0.0027<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036<br>0.<br>0.<br>-0.0032<br>-0.0009<br>0.00097<br>0.00097<br>0.00097<br>0.00059<br>-0.0083<br>0.00064<br>-0.0056  | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0051<br>0.0069<br>0.0066<br>0.0082<br>0.0082<br>0.0082<br>0.0088<br>0.5722<br>0.0139<br>0.0334<br>0.0123<br>0.0091<br>-0.0086   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -80.         -98.         -99.         -108.         70.         -125.         -90.         -910.         -96.         -65.         -90.         -55.         -80.         -124.         -55.         123.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 188<br>189<br>190<br>191<br>192<br>193<br>194<br>195<br>196<br>197<br>198<br>199<br>200<br>201<br>202<br>203<br>204<br>204<br>205                      | 13.1600<br>13.1400<br>13.0900<br>13.0500<br>13.1500<br>13.1000<br>13.2000<br>13.1000<br>13.0800<br>13.1000<br>13.0700<br>13.1100<br>13.0500<br>13.1900<br>13.2200<br>13.2100<br>13.2100                                  | 42.8700<br>42.8700<br>42.8000<br>42.8800<br>42.9900<br>43.0200<br>42.8800<br>42.8100<br>42.8300<br>42.8300<br>42.8400<br>42.8600<br>42.8400<br>42.8600<br>42.8800<br>42.8800<br>42.8300<br>42.8300<br>42.8300<br>42.8300<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.8400<br>42.840 | 5.0000<br>5.0000<br>6.0000<br>6.0000<br>3.0000<br>1.0000<br>7.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000<br>8.0000<br>8.0000<br>8.0000<br>8.0000<br>7.0000<br>4.0000<br>3.0000   | 180.000<br>158.000<br>148.000<br>148.000<br>205.000<br>123.000<br>145.000<br>150.000<br>150.000<br>160.000<br>165.000<br>185.000<br>185.000<br>155.000<br>90.0000<br>165.000   | 75.000<br>61.000<br>67.000<br>66.000<br>85.000<br>55.000<br>55.000<br>66.000<br>61.000<br>65.000<br>55.000<br>75.000<br>51.000<br>55.000<br>55.000<br>55.000<br>57.000                               | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138<br>0.2383<br>0.9273<br>0.2517<br>0.2844<br>0.3044<br>19.7106<br>0.5843<br>1.1681<br>0.5100<br>0.3834<br>0.3534  | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>1.1200<br>0.8913<br>0.9454<br>1.9751<br>0.9736<br>1.0404<br>1.0794<br>10.3657<br>1.5374<br>2.2387<br>1.4282<br>1.2235<br>1.1706   | 0.00112<br>0.0027<br>-0.0011<br>-0.0031<br>0.0032<br>-0.0036<br>0.<br>0.<br>-0.0032<br>-0.0039<br>0.0037<br>0.00097<br>0.0059<br>-0.0083<br>0.0064<br>-0.0056<br>0.0056  | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0069<br>0.0269<br>0.0066<br>0.0082<br>0.008<br>0.0082<br>0.008<br>0.0722<br>0.0139<br>0.0334<br>0.0123<br>0.0091<br>-0.0086<br>-0.0059  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0 | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.<br>-90.<br>-90.<br>-116.<br>-96.<br>-65.<br>-90.<br>-55.<br>-80.<br>-124.<br>-55.<br>123.<br>35.   |
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0.00112<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036<br>0.<br>0.<br>-0.0037<br>0.<br>0.0097<br>0.0097<br>0.0097<br>0.00097<br>0.00097<br>0.00059<br>-0.0083<br>0.00059<br>-0.0083<br>0.00059<br>-0.0083<br>0.00059<br>-0.0083<br>0.00059<br>-0.0083<br>0.00059<br>-0.0083<br>0.00059<br>-0.0083<br>0.00059<br>-0.0083<br>0.00059<br>-0.00056<br>0.00054<br>-0.0056<br>0.00054<br>-0.0056<br>0.00054<br>-0.0056<br>0.00054<br>-0.0056<br>0.00054<br>-0.0056<br>0.00054<br>-0.0056<br>0.00054<br>-0.0056<br>0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00059<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0.00056<br>-0 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-80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.<br>-125.<br>-90.<br>-116.<br>-96.<br>-65.<br>-90.<br>-55.<br>-90.<br>-124.<br>-55.<br>123.<br>35.<br>-80.<br>-80.<br>-85.<br>-80.<br>-85.<br>-80.<br>-85.<br>-85.<br>-85.<br>-85.<br>-85.<br>-85.<br>-85.<br>-85.<br>-85.<br>-85.<br>-85.<br>-85.<br>-85.<br>-85.<br>-95.<br>-85.<br>-95.<br>-95.<br>-95.<br>-90.<br>-124.<br>-55.<br>-90.<br>-124.<br>-55.<br>-90.<br>-124.<br>-55.<br>-90.<br>-124.<br>-55.<br>-90.<br>-124.<br>-55.<br>-90.<br>-124.<br>-55.<br>-90.<br>-124.<br>-55.<br>-85.<br>-90.<br>-124.<br>-55.<br>-85.<br>-90.<br>-124.<br>-55.<br>-85.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95.<br>-95. 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| 180.0000<br>158.0000<br>148.0000<br>205.0000<br>123.0000<br>145.0000<br>150.0000<br>150.0000<br>150.0000<br>165.0000<br>165.0000<br>155.0000<br>165.0000<br>170.0000<br>170.0000<br>170.0000<br>155.0000   | 75.000<br>61.000<br>67.000<br>66.000<br>85.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>57.000<br>80.000<br>65.000<br>75.000<br>75.000 | 0.5385<br>0.2730<br>0.3534<br>0.3487<br>0.3258<br>0.2138<br>0.2383<br>0.9273<br>0.2517<br>0.2844<br>0.3044<br>19.7106<br>0.5843<br>1.1681<br>0.5100<br>0.3834<br>0.3534<br>0.3534<br>0.3534<br>0.4104<br>0.4897<br>0.475 | 1.4178<br>1.4710<br>1.0177<br>1.1706<br>1.1620<br>0.8913<br>0.9454<br>1.9751<br>0.9736<br>1.0404<br>1.0794<br>1.0794<br>1.3657<br>1.5374<br>2.2387<br>1.4282<br>1.2235<br>1.1706<br>1.1706<br>1.1706<br>1.1706<br>1.2694<br>1.3970<br>1.276 | 0.00112<br>-0.0011<br>-0.0016<br>-0.0031<br>0.0032<br>-0.0036<br>0.<br>-0.0032<br>-0.0037<br>0.0009<br>0.00037<br>0.00097<br>0.00097<br>0.00059<br>-0.0083<br>0.0064<br>-0.0056<br>0.0084<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0032<br>0.0032<br>0.0037<br>0.0032<br>0.0032<br>0.0037<br>0.0037<br>0.0037<br>0.0037<br>0.0037<br>0.0037<br>0.0037<br>0.0059<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.005 | 0.0154<br>0.0078<br>0.0101<br>0.0096<br>-0.0089<br>0.0069<br>0.0269<br>0.0066<br>0.0082<br>0.0082<br>0.0082<br>0.0082<br>0.0082<br>0.00334<br>0.0334<br>0.0123<br>0.0091<br>-0.0086<br>-0.0059<br>0.0117<br>0.0129<br>0.01129<br>0.01129 | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -80.<br>-98.<br>-99.<br>-108.<br>70.<br>-125.<br>-90.<br>-90.<br>-90.<br>-90.<br>-96.<br>-96.<br>-96.<br>-90.<br>-55.<br>-80.<br>-124.<br>-55.<br>-123.<br>35.<br>-80.<br>-65.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-95.<br>-90.<br>-90.<br>-95.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90. 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| Biblocation   | 209  | 12 2400  | 44 1800   | 10 0000  | 68 0000   | 80,000  | 0 5241   | 1 4494   | -0.0071   | -0.0134   | 0  | 118  |
|---|--|--|---|--|---|---|--|--|---|---|--|--|
| Diclocation   | 210  | 12.0900  | 42 7800   | 7,0000   | 172 0000  | 74.000  | 0.5211   | 1 E 4 9 9  | 0.0026  | 0.0169  | 0  | 102  |
| DISIOCATION   | 210  | 13.0600  | 42.7600   | 7.0000   | 173.0000  | 74.000  | 0.3922   | 1.3400   | -0.0030   | 0.0108  | 0.   | -102.  |
| Dislocation   | 211  | 13.0900  | 42.8200   | 6.0000   | 148.0000  | 67.000  | 0.4333   | 1.3074   | -0.002  | 0.0124  | 0.   | -99.   |
| Dislocation   | 212  | 13.1900  | 42.9200   | 2.0000   | 118.0000  | 51.000  | 0.4701   | 1.3665   | -0.0076   | 0.0113  | 0.   | -124.  |
| Dislocation   | 213  | 13 1900  | 42 8000   | 7 0000   | 165 0000  | 65 000  | 0 4392   | 1 3170   | 0.0022  | 0.0126  | 0  | -80  |
| Diclocation   | 214  | 12 1000  | 42,8000   | 7,0000   | 165.0000  | 65.000  | 0.4202   | 1 2170   | 0.0022  | 0.0126  | 0  | 90<br>90   |
| Dislocation   | 214  | 13.1900  | 42.8000   | 7.0000   | 103.0000  | 03.000  | 0.4392   | 1.3170   | 0.0022  | 0.0120  | 0.   | -00.   |
| Dislocation   | 215  | 13.0700  | 43.0600   | 5.0000   | 160.0000  | 60.000  | 0.8095   | 1.8348   | 0.008   | 0.0221  | 0.   | -70.   |
| Dislocation   | 216  | 13.1200  | 42.8500   | 9.0000   | 125.0000  | 68.000  | 0.2883   | 1.0481   | -0.0039   | 0.0074  | 0.   | -118.  |
| Dislocation   | 217  | 13.1400  | 42.8900   | 5.0000   | 145.0000  | 55.000  | 0.4049   | 1.2601   | 0.003   | 0.0114  | 0.   | -75.   |
| Dislocation   | 218  | 13,0600  | 42 8400   | 9 0000   | 160 0000  | 90,000  | 0.8782   | 1 9178   | 0.0022  | 0.0254  | 0  | -85  |
| Dislocation   | 210  | 13.0000  | 42.0400   | 6.0000   | 100.0000  | 75.000  | 1.6406   | 2.6015   | 0.0022  | 0.0234  | 0.   | 01   |
| DISIOCATION   | 219  | 13.0800  | 42.8400   | 6.0000   | 150.0000  | 75.000  | 1.0406   | 2.0915   | -0.0008   | 0.0476  | 0.   | -91.   |
| Dislocation   | 220  | 13.2000  | 42.9300   | 2.0000   | 165.0000  | 55.000  | 0.5241   | 1.4494   | 0.0076  | 0.0132  | 0.   | -60.   |
| Dislocation   | 221  | 13.2000  | 42.9300   | 2.0000   | 165.0000  | 55.000  | 0.5241   | 1.4494   | 0.0076  | 0.0132  | 0.   | -60.   |
| Dislocation   | 222  | 13.1400  | 42.8500   | 3.0000   | 170.0000  | 75.000  | 0.3258   | 1.1200   | -0.0002   | 0.0095  | 0.   | -91.   |
| Dislocation   | 223  | 13 1500  | 12 9200   | 2 0000   | 126,0000  | 52,000  | 0 3302   | 1 1 2 8 2  | -0.0044   | 0.0085  | 0  | -117   |
| Dislocation   | 223  | 13,1000  | 42.0200   | 2.0000   | 82,0000   | 74.000  | 0.3302   | 0.0284   | 0.0055  | 0.0005  | 0.   | 142,0000   |
| Dislocation   | 224  | 13.1900  | 42.9200   | 4.0000   | 83.0000   | 74.000  | 0.2351   | 0.9384   | -0.0055   | -0.0041   | 0.   | 142.9999   |
| Dislocation   | 225  | 13.2000  | 42.9100   | 2.0000   | 165.0000  | 50.000  | 0.2768   | 1.0252   | 0.0034  | 0.0073  | 0.   | -65.   |
| Dislocation   | 226  | 13.1900  | 42.7300   | 2.0000   | 149.0000  | 66.000  | 0.2449   | 0.9594   | -0.0031   | 0.0064  | 0.   | -116.  |
| Dislocation   | 227  | 13.2000  | 42.9000   | 2.0000   | 158.0000  | 50.000  | 0.3044   | 1.0794   | -0.0006   | 0.0088  | 0.   | -94.   |
| Dislocation   | 228  | 13 1500  | 42 7300   | 6 0000   | 153 0000  | 45 000  | 0 3085   | 1 0874   | -0.0008   | 0.0089  | 0  | -95  |
| Dislocation   | 220  | 12,0600  | 42 7700   | 7,0000   | 124 0000  | E4 000  | 0.2202   | 1.1450   | 0.0024  | 0.0003  | 0  | 110  |
| Dislocation   | 229  | 13.0000  | 42.7700   | 7.0000   | 134.0000  | 34.000  | 0.3393   | 1.1430   | -0.0034   | 0.0093  | 0.   | -110.  |
| Dislocation   | 230  | 13.2000  | 42.8100   | 7.0000   | 170.0000  | 70.000  | 0.2621   | 0.9954   | -0.0003   | 0.0076  | 0.   | -92.   |
| Dislocation   | 231  | 13.1200  | 43.0200   | 1.0000   | 155.0000  | 45.000  | 0.3940   | 1.2416   | 0.  | 0.0114  | 0.   | -90.   |
| Dislocation   | 232  | 13.1200  | 43.0100   | 4.0000   | 119.0000  | 81.000  | 0.3044   | 1.0794   | -0.0018   | 0.0086  | 0.   | -102.  |
| Dislocation   | 233  | 13.1600  | 42.8000   | 6.0000   | 155.0000  | 75.000  | 0.9399   | 1.9898   | 0.0175  | 0.0209  | 0.   | -50.   |
| Dislocation   | 23/  | 13 2200  | 42 9000   | 4 0000   | 188 0000  | 69 000  | 0.3258   | 1 1200   | -0.008  | 0.005   | 0  | -147 9999  |
| Dislocation   | 204  | 12 2000  | 42.0000   | 1,0000   | 112 0000  | 61.000  | 0.3230   | 0.0215   | 0.000   | 0.005   | 0.   | 110  |
| DISIOCATION   | 235  | 15.2000  | 42.9100   | 1.0000   | 112.0000  | 01.000  | 0.2320   | 0.9315   | -0.0032   | 0.0059  | U.   | -110.  |
| Dislocation   | 236  | 13.2100  | 42.9400   | 1.0000   | 158.0000  | 56.000  | 0.4452   | 1.3268   | -0.0016   | 0.0128  | 0.   | -97.   |
| Dislocation   | 237  | 13.0700  | 42.7900   | 7.0000   | 149.0000  | 71.000  | 0.2922   | 1.0558   | -0.0007   | 0.0085  | 0.   | -95.   |
| Dislocation   | 238  | 13.2000  | 42.9100   | 2.0000   | 151.0000  | 46.000  | 0.3994   | 1.2508   | -0.002  | 0.0114  | 0.   | -100.  |
| Dislocation   | 239  | 13 0900  | 42 7800   | 7 0000   | 165 0000  | 75 000  | 0 5922   | 1 5488   | 0.0009  | -0.0172   | 0  | 87   |
| Dislocation   | 240  | 12 2100  | 42.7000   | F 0000   | 161.0000  | 60.000  | 0.3322   | 0.0454   | 0.0005  | 0.0064  | 0.   | 112  |
| Dislocation   | 240  | 13.2100  | 42.0600   | 3.0000   | 101.0000  | 09.000  | 0.2363   | 0.9434   | -0.0020   | 0.0004  | 0.   | -112.  |
| Dislocation   | 241  | 13.0600  | 42.7600   | 6.0000   | 180.0000  | 88.000  | 0.3632   | 1.1880   | -0.0018   | 0.0104  | 0.   | -100.  |
| Dislocation   | 242  | 13.1600  | 42.9000   | 2.0000   | 155.0000  | 60.000  | 0.4831   | 1.3868   | 0.0059  | 0.0127  | 0.   | -65.   |
| Dislocation   | 243  | 13.2100  | 42.9300   | 3.0000   | 185.0000  | 85.000  | 0.2138   | 0.8913   | 0.0051  | 0.0036  | 0.   | -35.   |
| Dislocation   | 244  | 13.1900  | 42.6900   | 7.0000   | 167.0000  | 71.000  | 0.2483   | 0.9665   | -0.0021   | 0.0069  | 0.   | -107.  |
| Dislocation   | 245  | 13 2000  | 42 9400   | 2 0000   | 165,0000  | 65,000  | 0 2922   | 1.0558   | 0.0015  | 0.0084  | 0  | -80  |
| Dislocation   | 245  | 12,2000  | 42.0300   | 2.0000   | 122,0000  | 50.000  | 0.2522   | 0.0001   | 0.0013  | 0.0060  | 0.   | 112  |
| Dislocation   | 240  | 13.2000  | 42.9300   | 2.0000   | 152.0000  | 50.000  | 0.2360   | 0.9661   | -0.0029   | 0.0009  | 0.   | -115.  |
| Dislocation   | 247  | 13.0400  | 42.8400   | 7.0000   | 163.0000  | 67.000  | 0.2197   | 0.9045   | -0.0012   | 0.0063  | 0.   | -101.  |
| Dislocation   | 248  | 13.1400  | 42.8000   | 6.0000   | 168.0000  | 56.000  | 0.3085   | 1.0874   | -0.0011   | 0.0089  | 0.   | -97.   |
| Dislocation   | 249  | 13.2000  | 42.7700   | 3.0000   | 155.0000  | 50.000  | 0.1971   | 0.8527   | 0.0024  | 0.0052  | 0.   | -65.   |
| Dislocation   | 250  | 13.1000  | 42.8600   | 8.0000   | 40.0000   | 55.000  | 0.1998   | 0.8590   | 0.0037  | 0.0044  | 0.   | -50.   |
| Dislocation   | 251  | 13 0700  | 43.0600   | 5,0000   | 160 0000  | 55,000  | 0.4765   | 1 3766   | 0 0047  | 0.013   | 0  | -70  |
| Dislocation   | 251  | 12 1600  | 43.0000   | 6.0000   | 141.0000  | 86.000  | 0.1700   | 0.0247   | 0.0047  | 0.015   | 0.   | 115  |
| DISIOCATION   | 252  | 15.1000  | 42.0200   | 0.0000   | 141.0000  | 80.000  | 0.2266   | 0.9247   | -0.0028   | -0.000  | 0.   | 113.   |
| DI L LI   | 252  | 12 1700  | 42 7000   | 5 0000   | 00 0000   |   | 0.2053   | 08/18  | -0.0012   | 0.0058  |  | -102.  |
| Dislocation   | 253  | 13.1700  | 42.7800   | 5.0000   | 83.0000   | 74.000  |  | 0.0710   |   | 0.0050  | 0.   |  |
| Dislocation<br>Dislocation  | 253<br>254   | 13.1700<br>13.0500   | 42.7800<br>42.8300  | 5.0000<br>6.0000   | 83.0000<br>150.0000   | 70.000  | 0.2730   | 1.0177   | 0.  | 0.0079  | 0.<br>0.   | -90.   |
| Dislocation<br>Dislocation<br>Dislocation   | 253<br>254<br>255  | 13.1700<br>13.0500<br>13.2100  | 42.7800<br>42.8300<br>42.9200   | 5.0000<br>6.0000<br>3.0000   | 83.0000<br>150.0000<br>116.0000   | 70.000  | 0.2730<br>0.1866   | 1.0177<br>0.8279   | 0.<br>-0.004  | 0.0079  | 0.<br>0.<br>0.   | -90.<br>-137.9999  |
| Dislocation<br>Dislocation<br>Dislocation   | 253<br>254<br>255<br>256   | 13.1700<br>13.0500<br>13.2100<br>13.0700   | 42.7800<br>42.8300<br>42.9200<br>43.0700  | 5.0000<br>6.0000<br>3.0000<br>5.0000   | 83.0000<br>150.0000<br>116.0000<br>160.0000   | 70.000<br>58.000<br>60.000  | 0.2730<br>0.1866<br>0.2621   | 0.8710<br>1.0177<br>0.8279<br>0.9954   | 0.<br>-0.004<br>0.002   | 0.0079<br>0.0036<br>0.0074  | 0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 253<br>254<br>255<br>256<br>257  | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000  | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8100   | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000   | 83.0000<br>150.0000<br>116.0000<br>160.0000   | 70.000<br>58.000<br>60.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109   | 0.8718<br>1.0177<br>0.8279<br>0.9954<br>0.8847   | 0.<br>-0.004<br>0.002<br>-0.0048  | 0.0036<br>0.0036<br>0.0074  | 0.<br>0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.<br>141.0001  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 253<br>254<br>255<br>256<br>257  | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000  | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8100   | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000   | 83.0000<br>150.0000<br>116.0000<br>160.0000<br>107.0000   | 70.000<br>58.000<br>60.000<br>66.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109   | 1.0177<br>0.8279<br>0.9954<br>0.8847   | 0.<br>-0.004<br>0.002<br>-0.0048  | 0.0079<br>0.0036<br>0.0074<br>-0.0039   | 0.<br>0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.<br>141.0001  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 253<br>254<br>255<br>256<br>257<br>258   | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.0700   | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8100<br>42.8700  | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000<br>7.0000   | 83.0000<br>150.0000<br>116.0000<br>160.0000<br>107.0000<br>126.0000   | 74.000<br>70.000<br>58.000<br>60.000<br>66.000<br>63.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449   | 1.0177<br>0.8279<br>0.9954<br>0.8847<br>0.9594   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043   | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.<br>141.0001<br>-127.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 253<br>254<br>255<br>256<br>257<br>258<br>259  | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.0700<br>13.1600  | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8100<br>42.8700<br>42.8900   | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000<br>7.0000<br>2.0000   | 83.0000<br>150.0000<br>116.0000<br>160.0000<br>107.0000<br>126.0000<br>128.0000   | 74.000<br>70.000<br>58.000<br>60.000<br>66.000<br>63.000<br>48.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887   | 1.0177<br>0.8279<br>0.9954<br>0.8847<br>0.9594<br>1.2325   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.<br>141.0001<br>-127.<br>-109.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 253<br>254<br>255<br>256<br>257<br>258<br>259<br>260   | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.0700<br>13.1600<br>13.1800   | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8100<br>42.8700<br>42.8900<br>42.9500  | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000<br>7.0000<br>2.0000<br>4.0000   | 83.0000<br>150.0000<br>116.0000<br>160.0000<br>107.0000<br>126.0000<br>128.0000<br>170.0000   | 74.000<br>70.000<br>58.000<br>60.000<br>66.000<br>63.000<br>48.000<br>75.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197   | 1.0177<br>0.8279<br>0.9954<br>0.8847<br>0.9594<br>1.2325<br>0.9045   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261  | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.0700<br>13.1600<br>13.1800<br>13.1400  | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8100<br>42.8700<br>42.8900<br>42.9500<br>42.9100   | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000<br>2.0000<br>4.0000<br>6.0000   | 83.0000<br>150.0000<br>116.0000<br>107.0000<br>126.0000<br>128.0000<br>170.0000<br>175.0000   | 74.000<br>70.000<br>58.000<br>60.000<br>66.000<br>63.000<br>48.000<br>75.000<br>50.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638   | 1.0177<br>0.8279<br>0.9954<br>0.8847<br>0.9594<br>1.2325<br>0.9045<br>1.3564   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-90.<br>-137.9999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262   | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.1600<br>13.1600<br>13.1800<br>13.1400<br>13.2100   | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8100<br>42.8700<br>42.8700<br>42.8900<br>42.9500<br>42.9100<br>42.8800   | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000<br>2.0000<br>4.0000<br>6.0000<br>2.0000   | 83.0000<br>150.0000<br>116.0000<br>160.0000<br>126.0000<br>128.0000<br>170.0000<br>175.0000<br>130.0000   | 74.000<br>70.000<br>58.000<br>60.000<br>66.000<br>63.000<br>48.000<br>75.000<br>50.000<br>71.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621   | 1.0177<br>0.8279<br>0.9954<br>0.8847<br>0.9594<br>1.2325<br>0.9045<br>1.3564<br>0.9954   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038   | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0066  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263  | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.0700<br>13.1600<br>13.1800<br>13.1400<br>13.2100<br>13.2100  | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8100<br>42.8700<br>42.8900<br>42.9500<br>42.9500<br>42.9100<br>42.8800<br>42.9200  | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000<br>7.0000<br>2.0000<br>4.0000<br>6.0000<br>2.0000<br>1.0000   | 83.0000<br>150.0000<br>116.0000<br>160.0000<br>126.0000<br>128.0000<br>170.0000<br>170.0000<br>130.0000<br>145.0000   | 74.000<br>70.000<br>58.000<br>60.000<br>66.000<br>63.000<br>48.000<br>75.000<br>50.000<br>71.000<br>53.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.2621   | 0.9710<br>0.8279<br>0.9954<br>0.8847<br>0.9594<br>1.2325<br>0.9045<br>1.3564<br>0.9954<br>0.9954<br>0.9954   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0066<br>0.0045  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264   | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.0700<br>13.1600<br>13.1800<br>13.1400<br>13.2100<br>13.2100<br>13.2100   | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8100<br>42.8700<br>42.9500<br>42.9500<br>42.9100<br>42.8800<br>42.9200   | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000<br>2.0000<br>4.0000<br>6.0000<br>2.0000<br>1.0000<br>1.0000   | 83.0000<br>150.0000<br>116.0000<br>107.0000<br>126.0000<br>128.0000<br>170.0000<br>175.0000<br>130.0000<br>145.0000<br>175.0000   | 74.000<br>70.000<br>58.000<br>60.000<br>66.000<br>63.000<br>48.000<br>75.000<br>50.000<br>71.000<br>53.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.1607<br>0.6724   | 0.8279<br>0.9954<br>0.8847<br>0.9594<br>1.2325<br>0.9045<br>1.3564<br>0.9954<br>0.7635<br>1.6572   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0   | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0066<br>0.0045<br>0.0127  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>90.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>263<br>263  | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.1600<br>13.1800<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.1500   | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8100<br>42.8700<br>42.8900<br>42.9500<br>42.9500<br>42.9100<br>42.8800<br>42.9200<br>42.9200   | 5.0000<br>6.0000<br>3.0000<br>7.0000<br>7.0000<br>2.0000<br>4.0000<br>6.0000<br>2.0000<br>1.0000<br>1.0000<br>1.0000   | 83.0000<br>150.0000<br>116.0000<br>107.0000<br>126.0000<br>126.0000<br>128.0000<br>175.0000<br>130.0000<br>145.0000<br>145.0000<br>145.0000   | 74.000<br>70.000<br>58.000<br>60.000<br>66.000<br>63.000<br>48.000<br>75.000<br>50.000<br>71.000<br>53.000<br>45.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.1607<br>0.6784<br>0.2651   | 0.9710<br>0.8279<br>0.9954<br>0.8847<br>0.9594<br>1.2325<br>0.9045<br>1.3564<br>0.9954<br>0.7635<br>1.6673<br>1.6673   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0066<br>0.0045<br>0.0197<br>0.0197  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-120.<br>-106.<br>-90.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264<br>264<br>265   | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.1600<br>13.1800<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.1500   | 42.7800<br>42.8300<br>43.0700<br>42.8100<br>42.8700<br>42.8700<br>42.9500<br>42.9500<br>42.9100<br>42.8800<br>42.9200<br>42.9200<br>42.7900<br>42.8100  | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000<br>2.0000<br>4.0000<br>6.0000<br>2.0000<br>1.0000<br>1.0000<br>5.0000   | 83.0000<br>150.0000<br>116.0000<br>160.0000<br>126.0000<br>128.0000<br>175.0000<br>145.0000<br>145.0000<br>145.0000<br>145.0000   | 74.000<br>70.000<br>58.000<br>60.000<br>66.000<br>63.000<br>48.000<br>75.000<br>50.000<br>71.000<br>53.000<br>45.000<br>70.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.2449<br>0.2449<br>0.2197<br>0.4638<br>0.2621<br>0.4638<br>0.2621<br>0.1607<br>0.6784<br>0.3681   | 0.9710           0.0177           0.8279           0.9954           0.8847           0.9594           1.2325           0.9045           1.3564           0.9954           0.7635           1.6673           1.1967   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0066<br>0.0045<br>0.0197<br>0.0107  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264<br>265<br>266   | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.1600<br>13.1800<br>13.1400<br>13.2100<br>13.2100<br>13.1500<br>13.1500   | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8700<br>42.8700<br>42.9500<br>42.9500<br>42.9100<br>42.9200<br>42.9200<br>42.7900<br>42.8100<br>42.8000  | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000<br>2.0000<br>4.0000<br>6.0000<br>2.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000   | 83.0000<br>150.0000<br>116.0000<br>107.0000<br>126.0000<br>128.0000<br>175.0000<br>130.0000<br>145.0000<br>145.0000<br>145.0000<br>166.0000   | 74.000<br>70.000<br>58.000<br>60.000<br>63.000<br>48.000<br>75.000<br>50.000<br>71.000<br>53.000<br>45.000<br>70.000<br>46.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.4638<br>0.2621<br>0.1607<br>0.6784<br>0.3681<br>0.2288   | 1.0177           0.8279           0.9954           0.8847           0.9594           1.2325           0.9045           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3667           0.9054   | 0.<br>-0.004<br>0.002<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.<br>0.0004<br>-0.0012  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0066<br>0.0045<br>0.0197<br>0.0107<br>0.0107  | 0.           0. | -90.<br>-137.9999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264<br>265<br>266<br>267  | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.1600<br>13.1800<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.1500<br>13.1500<br>13.0900   | 42.7800<br>42.8300<br>43.0700<br>42.8100<br>42.8700<br>42.8900<br>42.9500<br>42.9500<br>42.9100<br>42.9200<br>42.7900<br>42.8100<br>42.8100   | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000<br>2.0000<br>4.0000<br>6.0000<br>2.0000<br>1.0000<br>1.0000<br>1.0000<br>8.0000   | 83.0000<br>150.0000<br>116.0000<br>107.0000<br>126.0000<br>126.0000<br>126.0000<br>170.0000<br>175.0000<br>130.0000<br>145.0000<br>145.0000<br>145.0000<br>155.0000   | 74.000<br>70.000<br>58.000<br>60.000<br>63.000<br>48.000<br>75.000<br>50.000<br>71.000<br>53.000<br>45.000<br>45.000<br>70.000<br>70.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.1607<br>0.6784<br>0.3681<br>0.2288<br>0.2109   | 0.9710           0.0177           0.8279           0.9954           0.8847           0.90594           1.2325           0.9045           1.3564           0.9954           0.7635           1.6673           1.1967           0.9247           0.8847  | 0.<br>-0.004<br>0.002<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0031  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0066<br>0.0045<br>0.0197<br>0.0107<br>0.0065<br>-0.0053   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.  |
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| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264<br>265<br>266<br>266<br>266<br>266<br>268<br>268  | 13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.1600<br>13.1600<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.1500<br>13.1500<br>13.1500<br>13.1500<br>13.1500<br>13.12000<br>13.2000  | 42.7800<br>42.8300<br>42.9200<br>43.0700<br>42.8100<br>42.8700<br>42.9500<br>42.9500<br>42.9100<br>42.9200<br>42.9200<br>42.9200<br>42.7900<br>42.8100<br>42.8100<br>42.8100<br>42.8100   | 5.0000<br>6.0000<br>3.0000<br>5.0000<br>7.0000<br>2.0000<br>4.0000<br>6.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>4.0000<br>6.0000   | 83.0000<br>150.0000<br>116.0000<br>160.0000<br>126.0000<br>128.0000<br>175.0000<br>175.0000<br>145.0000<br>145.0000<br>145.0000<br>155.0000<br>94.0000  | 74.000<br>70.000<br>58.000<br>60.000<br>66.000<br>63.000<br>48.000<br>75.000<br>75.000<br>71.000<br>53.000<br>45.000<br>70.000<br>46.000<br>70.000<br>67.000<br>67.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.1607<br>0.6784<br>0.3681<br>0.2288<br>0.2109<br>0.3170<br>0.3085   | 1.0177           0.8279           0.9954           0.8847           0.9594           1.2325           0.9045           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.6673           1.1967           0.9247           0.8847           1.036           1.0874  | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.0031<br>-0.0031<br>-0.0032<br>-0.002  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>0.0045<br>0.0197<br>0.0107<br>0.0065<br>-0.0053<br>-0.0042<br>0.0087  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0  | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-103.   |
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-90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-90.<br>-85.<br>-90.<br>-85.<br>-103.<br>-85.<br>-90.<br>-85.<br>-103.<br>-85.<br>-90.<br>-85.<br>-103.<br>-85.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>- 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  | 74.000<br>70.000<br>58.000<br>60.000<br>63.000<br>48.000<br>75.000<br>75.000<br>53.000<br>70.000<br>45.000<br>70.000<br>67.000<br>45.000<br>57.000<br>45.000<br>45.000  | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.1607<br>0.6784<br>0.3681<br>0.2288<br>0.2109<br>0.3170<br>0.3085<br>0.3085<br>0.1652<br>0.3170   | 0.9710           0.0177           0.8279           0.9954           0.8847           0.9594           1.2325           0.9045           1.3564           0.9954           0.7635           1.6673           1.1967           0.9247           0.8847           1.1036           1.0874           0.7748           1.0136   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.0031<br>-0.0082<br>-0.002<br>0.0004<br>0.0004<br>0.0004   | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>0.0045<br>0.0045<br>0.0045<br>0.0053<br>-0.0042<br>0.0087<br>0.0042<br>0.0087   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>-45.<br>-80.   |
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83.0000<br>150.0000<br>116.0000<br>107.0000<br>126.0000<br>126.0000<br>128.0000<br>175.0000<br>130.0000<br>145.0000<br>145.0000<br>145.0000<br>145.0000<br>146.0000<br>146.0000<br>177.0000<br>175.0000<br>110.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.0000<br>175.000 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0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0066<br>0.0045<br>0.0197<br>0.0107<br>0.0107<br>0.00053<br>-0.0042<br>0.0087<br>0.0048<br>0.0091<br>-0.0036<br>0.00102  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>-70.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-70.<br>-75.<br>-70.<br>-70.<br>-75.<br>-70.<br>-70.<br>-70.<br>-70.<br>-75.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-75.<br>-7 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0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.002<br>-0.002<br>-0.002<br>0.0004<br>0.0016<br>-0.0057<br>0.0037<br>0.0066<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0047<br>-0.0055<br>-0.0047<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0066<br>0.0045<br>0.0197<br>0.0045<br>-0.0053<br>-0.0042<br>0.0087<br>0.00087<br>0.0048<br>0.0091<br>-0.0036<br>0.0102<br>-0.0046<br>0.0092<br>0.0048   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.9999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>35.<br>-120.<br>-120.<br>-105.<br>-85.<br>-80.<br>-147.<br>-85.<br>-80.<br>-147.<br>-105.<br>-85.<br>-85.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-125.<br>-1 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42.7800<br>42.8300<br>42.8300<br>42.8700<br>42.8100<br>42.8700<br>42.9500<br>42.9500<br>42.9100<br>42.9200<br>42.9200<br>42.8100<br>42.8000<br>42.8100<br>42.8000<br>42.9300<br>42.9400<br>42.9100<br>42.9100<br>42.9200<br>42.9200<br>42.9200  | 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0.2730<br>0.2866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.4638<br>0.2621<br>0.4677<br>0.6784<br>0.3681<br>0.2288<br>0.2109<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.2320<br>0.3732<br>0.2768<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258   | 0.3716           1.0177           0.8279           0.9954           1.2325           0.9045           1.3564           0.9594           1.3564           0.9954           1.3564           0.9954           1.673           1.673           1.1967           0.9247           0.8847           1.1036           1.0874           0.7748           1.2056           1.0252           1.1200           0.8219           1.3257   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.002<br>0.0004<br>0.00057<br>0.00057<br>0.0057<br>0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0053<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.005  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>0.0045<br>0.0045<br>0.0045<br>0.0045<br>0.0053<br>-0.0042<br>0.0087<br>0.00087<br>0.0048<br>0.0091<br>-0.0036<br>0.00102<br>-0.0046<br>0.00082<br>0.0005  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>-100.<br>60.<br>-120.<br>-105.<br>-30.<br>-88.<br>-100.<br>60.<br>-120.<br>-109.<br>35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-109.<br>-35.<br>-100.<br>-30.<br>-100.<br>-30.<br>-100.<br>-35.<br>-100.<br>-35.<br>-100.<br>-35.<br>-100.<br>-35.<br>-100.<br>-35.<br>-100.<br>-35.<br>-100.<br>-35.<br>-100.<br>-35.<br>-100.<br>-35.<br>-100.<br>-35.<br>-100.<br>-35.<br>-100.<br>-35.<br>-103.<br>-35.<br>-70.<br>-35.<br>-70.<br>-70.<br>-75.<br>-70.<br>-75.<br>-70.<br>-75.<br>-70.<br>-75.<br>-70.<br>-75.<br>-70.<br>-75.<br>-70.<br>-75.<br>-70.<br>-75.<br>-70.<br>-75.<br>-70.<br>-75.<br>-70.<br>-75.<br>-70.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-77.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-75.<br>-7120.<br>-715.<br>-7120.<br>-715.<br>-7120.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>-715.<br>- 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13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.1600<br>13.1400<br>13.1400<br>13.2100<br>13.2100<br>13.1500<br>13.1500<br>13.1500<br>13.1500<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13. 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 | 74.000<br>70.000<br>58.000<br>60.000<br>60.000<br>60.000<br>60.000<br>75.000<br>50.000<br>71.000<br>50.000<br>70.000<br>45.000<br>45.000<br>45.000<br>70.000<br>67.000<br>57.000<br>50.000<br>73.000<br>70.000<br>65.000<br>85.000<br>85.000<br>85.000  | 0.2730<br>0.2866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.1607<br>0.6784<br>0.3681<br>0.2288<br>0.2109<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.2320<br>0.3732<br>0.2768<br>0.3258<br>0.3258<br>0.1841<br>0.3887<br>0.255  | 0.3916           1.0177           0.8279           0.9954           1.2325           0.9045           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.6673           1.6673           1.1967           0.9247           0.8847           1.036           0.7748           1.1036           0.9315           1.0256           1.0252           1.1200           0.8219           1.23255  | 0.<br>-0.004<br>0.002<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.0004<br>-0.0012<br>0.0004<br>-0.0012<br>0.0004<br>-0.002<br>0.0004<br>0.00057<br>0.00057<br>0.00057<br>0.00057<br>0.00057<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0025<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055<br>-0.0055  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>-0.0045<br>0.0197<br>0.0107<br>0.0065<br>-0.0053<br>-0.0042<br>0.0042<br>0.0042<br>0.0048<br>0.0091<br>-0.0036<br>0.0048<br>0.0091<br>-0.0036<br>0.0102<br>-0.0046<br>0.0005<br>0.0005<br>0.0005  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>35.<br>-120.<br>-175.<br>-101.<br>-127.<br>-101.<br>-4.45.0000<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-100.<br>-120.<br>-100.<br>-120.<br>-100.<br>-120.<br>-100.<br>-120.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-103.<br>-85.<br>-80.<br>-117.<br>-103.<br>-85.<br>-80.<br>-120.<br>-103.<br>-85.<br>-80.<br>-120.<br>-103.<br>-85.<br>-100.<br>-103.<br>-120.<br>-103.<br>-120.<br>-103.<br>-120.<br>-103.<br>-120.<br>-103.<br>-120.<br>-103.<br>-120.<br>-103.<br>-120.<br>-103.<br>-120.<br>-103.<br>-120.<br>-103.<br>-120.<br>-103.<br>-120.<br>-120.<br>-103.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>-120.<br>- 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42.7800<br>42.8300<br>42.8300<br>42.8100<br>42.8700<br>42.8700<br>42.8900<br>42.9500<br>42.9500<br>42.9200<br>42.7900<br>42.8800<br>42.9200<br>42.8100<br>42.9400<br>42.9400<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.7800<br>42.7800   | 5.0000<br>6.0000<br>3.0000<br>7.0000<br>7.0000<br>2.0000<br>4.0000<br>1.0000<br>1.0000<br>1.0000<br>4.0000<br>4.0000<br>1.0000<br>4.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000 | 83.0000<br>150.0000<br>116.0000<br>107.0000<br>126.0000<br>126.0000<br>126.0000<br>126.0000<br>175.0000<br>130.0000<br>145.0000<br>145.0000<br>145.0000<br>155.0000<br>155.0000<br>175.0000<br>175.0000<br>175.0000<br>100.0000<br>120.0000<br>120.0000<br>159.0000<br>147.0000<br>147.0000   | 74.000<br>70.000<br>58.000<br>66.000<br>66.000<br>66.000<br>75.000<br>50.000<br>71.000<br>53.000<br>45.000<br>70.000<br>46.000<br>70.000<br>67.000<br>67.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.000<br>70.0000<br>70.0000<br>70.0000<br>70.0000<br>70.0000<br>70.0000<br>70.0000<br>70.0000<br>70.0000<br>70.0000<br>70.0000<br>70.0000<br>70.0000<br>70.0000<br>70.00000<br>70.00000<br>70.00000<br>70.00000000   | 0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.1607<br>0.6784<br>0.3681<br>0.2288<br>0.2109<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.2320<br>0.3732<br>0.2768<br>0.3258<br>0.3887<br>0.3887<br>0.3887   | 0.3716           1.0177           0.8279           0.9954           0.8847           0.90594           1.2325           0.9045           1.3564           0.9954           0.7635           1.6673           1.1967           0.9247           0.8847           1.1036           1.09748           1.1036           0.9315           1.2056           1.2252           1.3268  | 0.<br>-0.004<br>0.002<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.0022<br>-0.002<br>0.0004<br>0.0004<br>0.00057<br>0.00047<br>-0.0053<br>-0.0022<br>-0.0011  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>-0.0045<br>0.0197<br>0.0045<br>-0.0053<br>-0.0042<br>0.0087<br>0.0048<br>0.0091<br>-0.0036<br>0.0102<br>-0.0048<br>0.0091<br>-0.0048<br>0.0091<br>-0.0048<br>0.0091<br>-0.0048<br>0.0091<br>-0.0048<br>0.0005<br>0.0111<br>-0.0068  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>35.<br>-120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120.<br>-1120. 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| 83.0000           150.0000           116.0000           107.0000           126.0000           128.0000           170.0000           175.0000           175.0000           145.0000           175.0000           145.0000           145.0000           145.0000           145.0000           145.0000           145.0000           145.0000           145.0000           145.0000           155.0000           140.0000           175.0000           120.0000           120.0000           165.0000           147.0000           160.0000  | 74.000<br>70.000<br>58.000<br>60.000<br>63.000<br>75.000<br>75.000<br>75.000<br>70.000<br>45.000<br>70.000<br>45.000<br>70.000<br>67.000<br>45.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>73.000<br>55.000<br>85.000<br>85.000<br>85.000  | 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0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.0012<br>-0.0022<br>-0.0057<br>0.00057<br>0.00057<br>0.00057<br>0.00057<br>0.00057<br>-0.0053<br>-0.0022<br>-0.0011<br>0.0058  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0066<br>0.0045<br>0.0045<br>0.0045<br>0.0045<br>0.0053<br>-0.0042<br>0.0087<br>0.0042<br>0.0087<br>0.0048<br>0.0091<br>-0.0036<br>0.0102<br>-0.0046<br>0.00052<br>0.0111<br>-0.0068<br>0.0058   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>-127.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>35.<br>-120.<br>-175.<br>-101.<br>147.9999<br>-45.  |
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  | 0.2730<br>0.2866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.4638<br>0.2621<br>0.4677<br>0.6784<br>0.3681<br>0.2288<br>0.2109<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.2320<br>0.3732<br>0.2768<br>0.2258<br>0.1841<br>0.3887<br>0.4452<br>0.2805<br>0.2081   | 0.3715           1.0177           0.8279           0.9954           0.8847           0.9594           1.2325           0.9045           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.6673           1.6673           1.1967           0.9247           0.8847           1.036           0.9315           1.0256           1.0252           1.1200           0.8219           1.2325           1.3268           1.0328           0.8782  | 0.<br>-0.004<br>0.002<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.0012<br>0.0004<br>-0.0012<br>0.0004<br>-0.0012<br>0.0004<br>0.00058<br>-0.0049   | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>-0.0045<br>0.0045<br>0.0045<br>0.0045<br>-0.0053<br>-0.0053<br>-0.0042<br>0.00042<br>0.00042<br>0.00042<br>0.00042<br>0.00042<br>0.00042<br>0.00042<br>0.00042<br>0.00042<br>0.00046<br>0.0005<br>0.0111<br>-0.0068<br>0.0005<br>0.0111<br>-0.0068<br>0.0058<br>0.0035  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>35.<br>-120.<br>-175.<br>-101.<br>147.9999<br>-45.<br>-145.  |
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13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1600<br>13.1600<br>13.1800<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.1500<br>13.1500<br>13.1500<br>13.1500<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.2000<br>13.1900<br>13.1200<br>13.1900  | 42.7800<br>42.8300<br>42.8300<br>42.8700<br>42.8700<br>42.8900<br>42.9500<br>42.9500<br>42.9200<br>42.9200<br>42.7900<br>42.8100<br>42.8100<br>42.8100<br>42.9300<br>42.9400<br>42.9400<br>42.9100<br>42.9100<br>42.9200<br>42.9100<br>42.9200<br>42.9100<br>42.9200<br>42.7800<br>42.7800<br>42.7800<br>42.7500  | 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 | 74.000<br>70.000<br>58.000<br>66.000<br>66.000<br>66.000<br>75.000<br>50.000<br>71.000<br>50.000<br>45.000<br>45.000<br>45.000<br>46.000<br>70.000<br>67.000<br>57.000<br>45.000<br>50.000<br>55.000<br>55.000<br>85.000<br>85.000<br>85.000<br>85.000  | 0.2730<br>0.2866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.1607<br>0.6784<br>0.3681<br>0.2288<br>0.2109<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.2320<br>0.3170<br>0.2320<br>0.3732<br>0.2768<br>0.3258<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3288<br>0.3887<br>0.3288<br>0.3887<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3387<br>0.3387<br>0.3387<br>0.3387<br>0.3387<br>0.3387<br>0.3387<br>0.3388<br>0.3387<br>0.3387<br>0.3387<br>0.3388<br>0.3288<br>0.3387<br>0.3387<br>0.3388<br>0.3388<br>0.3288<br>0.3387<br>0.3388<br>0.3288<br>0.3387<br>0.3388<br>0.3288<br>0.3387<br>0.3388<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.3288<br>0.32888<br>0.3288<br>0.32889<br>0.3289<br>0.3287<br>0.3289<br>0.3288<br>0.3289<br>0.3289 | 0.3715<br>0.8279<br>0.9954<br>0.8847<br>0.9594<br>1.2325<br>0.9045<br>1.3564<br>0.9954<br>1.3564<br>0.9954<br>1.3564<br>0.9954<br>1.3564<br>0.9954<br>1.36673<br>1.1967<br>0.9247<br>0.8847<br>1.1036<br>1.0974<br>0.7748<br>1.1036<br>0.9315<br>1.2056<br>1.2056<br>1.2052<br>1.1200<br>0.8219<br>1.2325<br>1.3268<br>0.8782<br>0.7980  | 0.<br>-0.004<br>0.002<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.002<br>0.0004<br>0.00057<br>0.00057<br>0.00057<br>0.00057<br>0.00057<br>-0.0053<br>-0.0022<br>-0.0013<br>-0.0053<br>-0.0022<br>-0.0011<br>0.0058<br>-0.0049<br>0.00049<br>0.00049<br>0.00049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0048<br>-0.0049<br>-0.0048<br>-0.0049<br>-0.0048<br>-0.0049<br>-0.0048<br>-0.0049<br>-0.0048<br>-0.0049<br>-0.0048<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0048<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.00  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>-0.0045<br>0.0197<br>0.0045<br>0.0107<br>0.0065<br>-0.0053<br>-0.0042<br>0.0087<br>0.00048<br>0.0091<br>-0.0036<br>0.0102<br>-0.0048<br>0.0005<br>0.0111<br>-0.0068<br>0.0058<br>0.0035<br>0.0035<br>0.0048   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>35.<br>-120.<br>-1175.<br>-101.<br>147.9999<br>-45.<br>-70.<br>-70.  |
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13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.1600<br>13.1800<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.1500<br>13.1500<br>13.1500<br>13.1500<br>13.1600<br>13.1600<br>13.2000<br>13.1600<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.1900<br>13.1900<br>13.1900<br>13.1900  | 42.7800<br>42.8300<br>42.8300<br>42.8700<br>42.8100<br>42.8700<br>42.8900<br>42.9500<br>42.9500<br>42.9200<br>42.9200<br>42.8100<br>42.8100<br>42.8100<br>42.9300<br>42.9400<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9200<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.910 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0.2730<br>0.2866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.4638<br>0.2621<br>0.4637<br>0.6784<br>0.3681<br>0.2288<br>0.2109<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.3320<br>0.2768<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258   | 0.3716           1.0177           0.8279           0.9954           0.8847           0.9594           1.2325           0.9045           1.3564           0.9954           0.7635           1.6673           1.1967           0.9247           0.8847           1.1036           1.0874           0.7748           1.1036           1.2056           1.2056           1.2056           1.2255           1.3268           1.3268           1.0328           0.8782           0.7980           1.1450   | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.0012<br>-0.002<br>-0.002<br>0.0004<br>0.00057<br>0.00057<br>0.00057<br>-0.0057<br>-0.0057<br>-0.0053<br>-0.0022<br>-0.0011<br>0.0058<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0058<br>-0.0049<br>-0.0049<br>-0.0049<br>-0.0057<br>-0.0053<br>-0.0057<br>-0.0053<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.005  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>0.0045<br>0.0045<br>0.0045<br>0.0045<br>0.0053<br>-0.0042<br>0.0087<br>0.0048<br>0.0091<br>-0.0046<br>0.0005<br>0.00102<br>-0.0046<br>0.0005<br>0.00111<br>-0.0068<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0 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-90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>35.<br>-120.<br>-175.<br>-101.<br>147.9999<br>-45.<br>-145.<br>-70.<br>-102.<br>-102.<br>-102.<br>-109.<br>-137.<br>-109.<br>-137.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-120.<br>-109.<br>-120.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-103.<br>-120.<br>-1175.<br>-101.<br>-147.9999<br>-45.<br>-145.<br>-101.<br>-145.<br>-101.<br>-145.<br>-102.<br>-145.<br>-102.<br>-145.<br>-102.<br>-145.<br>-102.<br>-145.<br>-102.<br>-145.<br>-102.<br>-145.<br>-102.<br>-145.<br>-102.<br>-145.<br>-102.<br>-145.<br>-102.<br>-102.<br>-105.<br>-102.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>- 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  | 0.3716           1.0177           0.8279           0.9954           0.8847           0.9594           1.2325           0.9045           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.6673           1.6673           1.1967           0.9247           0.8847           1.036           0.9315           1.0256           1.0252           1.32056           1.0252           1.3268           1.0328           0.8782           0.7980           1.1450  | 0.<br>-0.004<br>0.002<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.0012<br>0.0004<br>-0.0012<br>0.0004<br>-0.002<br>0.0004<br>0.00057<br>0.00057<br>0.00057<br>0.00057<br>-0.0053<br>-0.0022<br>-0.0011<br>0.0058<br>-0.0049<br>0.0017<br>-0.002<br>0.0017<br>-0.002<br>0.0017<br>-0.002<br>0.0017<br>-0.002<br>0.0017<br>-0.002<br>0.0017<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>0.0045<br>0.0045<br>0.0045<br>0.0045<br>0.0053<br>-0.0042<br>0.0005<br>0.0042<br>0.0005<br>0.00042<br>0.00042<br>0.00042<br>0.00042<br>0.00042<br>0.00042<br>0.00042<br>0.00042<br>0.0005<br>0.0111<br>-0.0046<br>0.0005<br>0.0111<br>-0.0068<br>0.0058<br>0.0058<br>0.0035<br>0.0048<br>0.0058<br>0.0035   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>35.<br>-120.<br>-175.<br>-101.<br>147.9999<br>-45.<br>-145.<br>-70.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-103.<br>-127.<br>-104.<br>-105.<br>-127.<br>-105.<br>-105.<br>-127.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-105.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>-107.<br>- 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13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.1600<br>13.1800<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.1500<br>13.1500<br>13.1500<br>13.1500<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1600<br>13.1900<br>13.1200<br>13.1200<br>13.1200<br>13.1900<br>13.1900<br>13.1900<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13. 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 | 74.000<br>70.000<br>58.000<br>60.000<br>66.000<br>66.000<br>75.000<br>50.000<br>71.000<br>50.000<br>70.000<br>45.000<br>45.000<br>70.000<br>45.000<br>57.000<br>57.000<br>50.000<br>73.000<br>73.000<br>70.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>74.000<br>74.000<br>74.000  | 0.2730<br>0.2866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.1607<br>0.6784<br>0.3681<br>0.2228<br>0.2109<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.2320<br>0.3732<br>0.2768<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3393<br>0.3393<br>0.3393<br>0.3393   | 0.8715           1.0177           0.8279           0.9954           0.8847           0.9594           1.2325           0.9045           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.3564           0.9954           1.6673           1.6673           1.6673           1.1067           0.9247           0.8847           1.036           0.9315           1.2056           1.1205           1.3225           1.3268           0.08219           1.2325           1.3268           0.0328           0.8782           0.7980           1.1450           1.450 | 0.<br>-0.004<br>0.002<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.0004<br>-0.0012<br>0.0004<br>-0.0012<br>0.0004<br>-0.002<br>-0.0057<br>0.0066<br>-0.0047<br>-0.0053<br>-0.0022<br>-0.0011<br>0.0058<br>-0.002<br>-0.0017<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002 | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>-0.0045<br>0.0197<br>0.0107<br>0.0065<br>-0.0053<br>-0.0042<br>0.0087<br>0.0042<br>0.0091<br>-0.0036<br>0.0091<br>-0.0036<br>0.0048<br>0.0091<br>-0.0036<br>0.0111<br>-0.0068<br>0.0005<br>0.0111<br>-0.0068<br>0.0053<br>0.00111<br>-0.0068<br>0.0053<br>0.00148<br>0.0035<br>0.0048<br>0.0096<br>0.0096<br>0.0096   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>35.<br>-101.<br>147.9999<br>-45.<br>-101.<br>147.9999<br>-45.<br>-102.<br>-70.<br>-102.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>-70.<br>- 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13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.1600<br>13.1400<br>13.1400<br>13.2100<br>13.2100<br>13.1500<br>13.1500<br>13.1500<br>13.1500<br>13.1500<br>13.1500<br>13.1600<br>13.1600<br>13.2000<br>13.1400<br>13.2000<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1300<br>13.1300<br>13.1300   | 42.7800<br>42.8300<br>42.8300<br>42.8700<br>42.8700<br>42.8700<br>42.8900<br>42.9500<br>42.9500<br>42.9200<br>42.9200<br>42.7900<br>42.8100<br>42.8100<br>42.9300<br>42.9400<br>42.9400<br>42.9100<br>42.9100<br>42.9100<br>42.9100<br>42.9200<br>42.9200<br>42.9200<br>42.7200<br>42.7500<br>42.7500<br>42.7500<br>42.7500   | 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0.2730<br>0.2730<br>0.1866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.1607<br>0.6784<br>0.3681<br>0.2288<br>0.3681<br>0.2288<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.3320<br>0.3732<br>0.2768<br>0.3258<br>0.1841<br>0.3288<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258<br>0.3258   | 0.3716           1.0177           0.8279           0.9954           0.8847           0.9594           1.2325           0.9045           1.3564           0.9954           0.7635           1.6673           1.1967           0.9247           0.8847           1.1036           1.0874           0.7748           1.1036           1.2056           1.2056           1.2252           1.3268           1.3225           1.3268           1.0328           0.8782           0.7980           1.1450           1.1450  | 0.<br>-0.004<br>0.002<br>-0.0048<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.0012<br>0.0004<br>-0.0082<br>-0.002<br>0.0004<br>0.00057<br>0.00057<br>0.00057<br>0.00057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.0057<br>-0.05  | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>0.0045<br>0.0045<br>0.0045<br>0.0045<br>0.0045<br>0.0053<br>-0.0042<br>0.0087<br>0.0048<br>0.0091<br>-0.0046<br>0.0091<br>-0.0046<br>0.00102<br>-0.0046<br>0.00102<br>-0.0046<br>0.00102<br>-0.0046<br>0.0005<br>0.0111<br>-0.0068<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.00 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-90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>35.<br>-120.<br>-175.<br>-120.<br>-175.<br>-120.<br>-175.<br>-101.<br>147.9999<br>-45.<br>-145.<br>-70.<br>-102.<br>-102.<br>-99.<br>-90.<br>-90.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-127.<br>-109.<br>-120.<br>-109.<br>-120.<br>-100.<br>-100.<br>-90.<br>-88.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-100.<br>-101.<br>-147.9999<br>-45.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102.<br>-102. 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13.1700<br>13.0500<br>13.2100<br>13.0700<br>13.1000<br>13.1600<br>13.1800<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.1500<br>13.1500<br>13.1500<br>13.1500<br>13.1000<br>13.2000<br>13.1400<br>13.2000<br>13.1400<br>13.2000<br>13.1400<br>13.2100<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900<br>13.1900   | 42.7800<br>42.8300<br>42.8300<br>42.8700<br>42.8700<br>42.8700<br>42.9500<br>42.9500<br>42.9100<br>42.8000<br>42.8000<br>42.8000<br>42.8000<br>42.9400<br>42.8000<br>42.9100<br>42.9100<br>42.9200<br>42.9100<br>42.9200<br>42.9200<br>42.7200<br>42.7800<br>42.7500<br>42.7500<br>42.7500<br>42.7500<br>42.7500<br>42.9900   | 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0.2730<br>0.2866<br>0.2621<br>0.2109<br>0.2449<br>0.3887<br>0.2197<br>0.4638<br>0.2621<br>0.4607<br>0.6784<br>0.3681<br>0.2288<br>0.2109<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.3085<br>0.1652<br>0.3170<br>0.3258<br>0.3732<br>0.2768<br>0.22805<br>0.2081<br>0.4522<br>0.2805<br>0.2081<br>0.4744<br>0.3393<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.2768<br>0.276   | 0.3715           1.0177           0.8279           0.9954           0.8847           0.9594           1.2325           0.9045           1.3564           0.9954           0.7635           1.6673           1.1967           0.9247           0.8847           1.036           1.0874           0.7748           1.1036           1.2256           1.2056           1.0252           1.3268           1.0328           0.8782           0.7980           1.1450           1.252           0.7805   | 0.<br>-0.004<br>0.002<br>-0.0043<br>-0.0043<br>-0.0037<br>0.0052<br>0.0067<br>-0.0038<br>-0.0013<br>0.<br>0.0004<br>-0.0012<br>0.0004<br>-0.0012<br>-0.002<br>0.0004<br>-0.0057<br>0.00057<br>0.00057<br>0.00057<br>0.00057<br>-0.0023<br>-0.0023<br>-0.0023<br>-0.0023<br>-0.0023<br>-0.0029<br>-0.0011<br>0.00058<br>-0.0049<br>0.0017<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.0013<br>0.00017<br>-0.002<br>-0.002<br>-0.0013<br>0.00017<br>-0.002<br>-0.002<br>-0.0013<br>0.00017<br>-0.002<br>-0.002<br>-0.0013<br>0.00017<br>-0.002<br>-0.0013<br>0.00017<br>-0.002<br>-0.0013<br>0.00017<br>-0.002<br>-0.0013<br>0.00017<br>-0.0013<br>0.0017<br>-0.0013<br>-0.0013<br>-0.0013<br>-0.0017<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002<br>-0.002       | 0.0079<br>0.0036<br>0.0074<br>-0.0039<br>0.0057<br>0.0107<br>-0.0037<br>0.0117<br>0.0065<br>0.0045<br>0.0045<br>0.0045<br>0.0045<br>0.0053<br>-0.0042<br>0.0005<br>0.0042<br>0.0087<br>0.0048<br>0.0091<br>-0.0046<br>0.0005<br>0.0111<br>-0.0046<br>0.0005<br>0.0111<br>-0.0068<br>0.0005<br>0.0111<br>-0.0068<br>0.0058<br>0.0035<br>0.0048<br>0.0096<br>0.0096<br>0.0079<br>0.0046   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.   | -90.<br>-137.99999<br>-75.<br>141.0001<br>-127.<br>-109.<br>35.<br>-60.<br>-120.<br>-106.<br>-90.<br>-88.<br>-100.<br>60.<br>153.<br>-100.<br>60.<br>153.<br>-103.<br>-85.<br>-80.<br>147.9999<br>-70.<br>-127.<br>-101.<br>147.9999<br>-45.<br>-145.<br>-70.<br>-102.<br>-99.<br>-70.   |

| Dislocation | 287     | 13,1800  | 42,7400 | 6.0000  | 125.0000 | 60.000 | 0.2081    | 0.8782    | 0.003   | 0.0052  | 0. | -60.      |
|-------------|---------|----------|---------|---------|----------|--------|-----------|-----------|---------|---------|----|-----------|
| Dislocation | 288     | 13 1500  | 42 0000 | 2,0000  | 160,0000 | 60.000 | 0.3681    | 1 1 967   | 0.0045  | 0.0097  | 0  | 65        |
| Dislocation | 200     | 13.1300  | 42.9000 | 2.0000  | 100.0000 | 70.000 | 0.3081    | 1.1907    | 0.0045  | 0.0037  | 0. | -0.5.     |
| Dislocation | 289     | 13.1200  | 42.7800 | 11.0000 | 91.0000  | /8.000 | 0.2483    | 0.9665    | -0.0058 | -0.0042 | 0. | 144.      |
| Dislocation | 290     | 13.1100  | 42.7800 | 7.0000  | 145.0000 | 85.000 | 0.1971    | 0.8527    | 0.0024  | 0.0052  | 0. | -65.      |
| Dislocation | 291     | 13.0700  | 43.0700 | 5.0000  | 165.0000 | 60.000 | 0.4513    | 1.3366    | 0.0045  | 0.0123  | 0. | -70.      |
| Dislocation | 202     | 13 3000  | 42 6200 | 5,0000  | 160,0000 | 65,000 | 0 3994    | 1 2508    | 0.001   | 0.0116  | 0  | -85       |
| Dislocation | 202     | 12.0500  | 42.0200 | 5.0000  | 72,0000  | 05.000 | 0.3554    | 1.2300    | 0.001   | 0.0110  | 0. | -05.      |
| Dislocation | 293     | 13.0500  | 42.8400 | 5.0000  | 72.0000  | 80.000 | 0.2693    | 1.0102    | -0.0076 | -0.002  | 0. | 165.      |
| Dislocation | 294     | 13.0900  | 42.7700 | 7.0000  | 174.0000 | 84.000 | 0.8664    | 1.9037    | -0.0061 | 0.0244  | 0. | -104.     |
| Dislocation | 295     | 13.1900  | 42.9500 | 2.0000  | 101.0000 | 58.000 | 0.4897    | 1.3970    | -0.0106 | 0.0095  | 0. | -137.9999 |
| Dislocation | 296     | 13 1900  | 42 7200 | 4 0000  | 163 0000 | 50,000 | 0 1998    | 0.8590    | -0.0004 | 0.0058  | 0  | -94       |
| Dislocation | 207     | 12 1400  | 42.0400 | 7,0000  | 142,0000 | 66.000 | 0.2220    | 0.0215    | 0.0027  | 0.0056  | 0  | 122       |
| Dislocation | 237     | 13.1400  | 42.9400 | 7.0000  | 143.0000 | 50.000 | 0.2320    | 0.9515    | -0.0037 | 0.0000  | 0. | -125.     |
| Dislocation | 298     | 13.1900  | 42.8900 | 2.0000  | 150.0000 | 50.000 | 0.2922    | 1.0558    | 0.0015  | 0.0084  | 0. | -80.      |
| Dislocation | 299     | 13.0600  | 42.8400 | 7.0000  | 160.0000 | 60.000 | 0.3583    | 1.1792    | 0.      | 0.0104  | 0. | -90.      |
| Dislocation | 300     | 13.0700  | 42.7900 | 6.0000  | 147.0000 | 70.000 | 0.2844    | 1.0404    | -0.0021 | 0.008   | 0. | -105.     |
| Dislocation | 301     | 13 2100  | 42 7700 | 3 0000  | 132 0000 | 51 000 | 0.2517    | 0.9736    | -0.001  | 0.0072  | 0  | -98       |
| Dislocation | 202     | 12 2100  | 42 7700 | E 0000  | 120.0000 | 47.000 | 0 5 9 4 2 | 1 5 2 7 4 | 0.0044  | 0.0164  | 0  | 105       |
| DISIOCATION | 302     | 13.2100  | 42.7700 | 5.0000  | 129.0000 | 47.000 | 0.3643    | 1.3374    | -0.0044 | 0.0104  | 0. | -105.     |
| Dislocation | 303     | 13.1300  | 42.8400 | 5.0000  | 175.0000 | 70.000 | 0.8095    | 1.8348    | 0.002   | 0.0234  | 0. | -85.      |
| Dislocation | 304     | 13.0800  | 43.0200 | 5.0000  | 165.0000 | 55.000 | 0.3887    | 1.2325    | 0.0048  | 0.0102  | 0. | -65.      |
| Dislocation | 305     | 13.1400  | 42.8100 | 5.0000  | 148.0000 | 61.000 | 0.3783    | 1.2145    | -0.0011 | 0.0109  | 0. | -96.      |
| Dislocation | 306     | 13,1900  | 42.8100 | 7.0000  | 165.0000 | 75.000 | 0.2922    | 1.0558    | 0.0036  | 0.0077  | 0. | -65.      |
| Dislocation | 307     | 13 1500  | 42 8200 | 7,0000  | 146.0000 | 66,000 | 0.4104    | 1 269/    | -0.0075 | 0.0093  | 0  | -129      |
| Dislocation | 200     | 12,1100  | 42.0200 | 7.0000  | 140.0000 | 00.000 | 0.4104    | 0.0070    | -0.0075 | 0.0000  | 0. | -125.     |
| Dislocation | 508     | 13.1100  | 42.9100 | 8.0000  | 109.0000 | 00.000 | 0.1866    | 0.82/9    | -0.0038 | 0.0038  | U. | -135.     |
| Dislocation | 309     | 13.2100  | 42.9000 | 2.0000  | 200.0000 | 50.000 | 0.1792    | 0.8098    | 0.0026  | 0.0045  | 0. | -60.      |
| Dislocation | 310     | 13.0800  | 42.7700 | 7.0000  | 99.0000  | 87.000 | 0.2351    | 0.9384    | -0.0044 | 0.0052  | 0. | -130.     |
| Dislocation | 311     | 13.2700  | 42.6900 | 7.0000  | 160.0000 | 80.000 | 0.2320    | 0.9315    | 0.0012  | 0.0066  | 0. | -80.      |
| Dislocation | 312     | 13 2200  | 42 9200 | 2,0000  | 165 0000 | 50 000 | 0.2551    | 0.9808    | 0.0019  | 0.0072  | 0. | -75.      |
| Dislocation | 212     | 13 1200  | 13 0600 | 2.0000  | 131 0000 | 63.000 | 0.1010    | 0.8402    | 0.0024  | 0.0044  | 0  | 127       |
| Dislocation | 212     | 13.1300  | 43.0000 | 2.0000  | 142,0000 | 05.000 | 0.1918    | 0.0402    | -0.0034 | 0.0044  | 0. | -127.     |
| Dislocation | 314     | 13.1400  | 42.7500 | 8.0000  | 143.0000 | 86.000 | 0.2517    | 0.9736    | -0.006  | 0.0042  | υ. | -145.     |
| Dislocation | 315     | 13.1400  | 42.9000 | 5.0000  | 150.0000 | 55.000 | 0.3214    | 1.1117    | 0.0024  | 0.009   | 0. | -75.      |
| Dislocation | 316     | 13.0500  | 42.7700 | 6.0000  | 160.0000 | 75.000 | 0.2730    | 1.0177    | 0.0021  | -0.0077 | 0. | 75.       |
| Dislocation | 317     | 13 2000  | 42 9500 | 2,0000  | 150 0000 | 50 000 | 0.2883    | 1.0481    | 0.0015  | 0.0082  | 0. | -80.      |
| Dislocation | 210     | 13.2000  | 42.5500 | 1.0000  | 215 0000 | GE 000 | 0.2005    | 0.0702    | 0.0015  | 0.0002  | 0. | <u>сг</u> |
| Dislocation | 310     | 15.1500  | 42.7400 | 1.0000  | 215.0000 | 65.000 | 0.2081    | 0.8782    | 0.0026  | 0.0055  | 0. | -05.      |
| Dislocation | 319     | 13.2100  | 42.9400 | 2.0000  | 125.0000 | 68.000 | 0.2351    | 0.9384    | -0.0032 | 0.006   | 0. | -118.     |
| Dislocation | 320     | 13.1800  | 42.8900 | 4.0000  | 85.0000  | 73.000 | 0.2167    | 0.8978    | -0.0053 | -0.0033 | 0. | 147.9999  |
| Dislocation | 321     | 13.0500  | 42.8100 | 7.0000  | 106.0000 | 73.000 | 0.2844    | 1.0404    | -0.0035 | 0.0075  | 0. | -115.     |
| Dislocation | 322     | 13.2000  | 42.9500 | 1.0000  | 160.0000 | 50.000 | 0.2551    | 0.9808    | 0.0019  | 0.0072  | 0. | -75.      |
| Dislocation | 323     | 13 0800  | 42 8500 | 8 0000  | 151 0000 | 73 000 | 0 2257    | 0.9179    | -0.0028 | 0.0059  | 0  | -115      |
| Dislocation | 224     | 12.0600  | 42.0300 | 6.0000  | 146.0000 | 73.000 | 0.2257    | 0.9179    | 0.0020  | 0.0055  | 0. | 115.      |
| Dislocation | 324     | 13.0000  | 42.9300 | 0.0000  | 140.0000 | 73.000 | 0.2107    | 0.0970    | -0.0027 | 0.0037  | 0. | -115.     |
| Dislocation | 325     | 13.2200  | 42.6600 | 7.0000  | 134.0000 | 54.000 | 0.2922    | 1.0558    | -0.0029 | 0.008   | 0. | -110.     |
| Dislocation | 326     | 13.0300  | 42.7700 | 7.0000  | 145.0000 | 90.000 | 0.1720    | 0.7921    | -0.0021 | 0.0045  | 0. | -115.     |
| Dislocation | 327     | 13.3100  | 42.9100 | 17.0000 | 105.0000 | 68.000 | 0.4160    | 1.2788    | -0.0057 | 0.0107  | 0. | -118.     |
| Dislocation | 328     | 13.1400  | 42.7800 | 6.0000  | 146.0000 | 46.000 | 0.2053    | 0.8718    | -0.001  | 0.0059  | 0. | -100.     |
| Dislocation | 329     | 13 1400  | 43 0100 | 1 0000  | 147 0000 | 51 000 | 0 3302    | 1 1 2 8 2 | -0.0013 | 0.0095  | 0  | -98       |
| Dislocation | 330     | 13 1400  | 43 0100 | 1,0000  | 146.0000 | 46.000 | 0.2621    | 0.0054    | 0.0013  | 0.0075  | 0  | 100       |
| Dislocation | 330     | 13.1400  | 43.0100 | 7.0000  | 140.0000 | 40.000 | 0.2021    | 0.9954    | -0.0013 | 0.0073  | 0. | -100.     |
| Dislocation | 331     | 13.1600  | 43.0000 | 7.0000  | 110.0000 | 81.000 | 1.8793    | 2.8973    | -0.0473 | 0.0273  | 0. | -150.     |
| Dislocation | 332     | 11.0100  | 43.6100 | 9.0000  | 180.0000 | 70.000 | 0.3085    | 1.0874    | 0.0078  | -0.0045 | 0. | 30.       |
| Dislocation | 333     | 13.2100  | 42.7300 | 5.0000  | 155.0000 | 60.000 | 0.2586    | 0.9881    | 0.0032  | 0.0068  | 0. | -65.      |
| Dislocation | 334     | 13.1500  | 42.6900 | 9.0000  | 110.0000 | 70.000 | 0.2288    | 0.9247    | -0.0052 | -0.0041 | 0. | 142.      |
| Dislocation | 335     | 13 1600  | 42 9000 | 3,0000  | 113,0000 | 57 000 | 0 1998    | 0.8590    | -0.0037 | 0.0044  | 0  | -130      |
| Dislocation | 226     | 12,1700  | 42.0000 | 1,0000  | 138,0000 | 45.000 | 0.1550    | 1 1 9 9 0 | 0.0000  | 0.00105 | 0. | 05        |
| Dislocation | 330     | 13.1700  | 42.9100 | 1.0000  | 136.0000 | 43.000 | 0.3032    | 1.1000    | -0.0009 | 0.0105  | 0. | -93.      |
| Dislocation | 337     | 13.1100  | 42.8000 | 11.0000 | 106.0000 | 77.000 | 0.2730    | 1.0177    | -0.0049 | 0.0062  | 0. | -128.     |
| Dislocation | 338     | 13.2100  | 42.9300 | 2.0000  | 155.0000 | 45.000 | 0.3128    | 1.0955    | 0.      | 0.0091  | 0. | -90.      |
| Dislocation | 339     | 13.1000  | 42.8000 | 7.0000  | 150.0000 | 55.000 | 0.2768    | 1.0252    | 0.0034  | 0.0073  | 0. | -65.      |
| Dislocation | 340     | 13,1300  | 42,8100 | 8.0000  | 130.0000 | 75,000 | 0.3440    | 1.1535    | 0.0042  | 0.0091  | 0. | -65.      |
| Dislocation | 341     | 13 2200  | 42 7300 | 6 0000  | 137 0000 | 73 000 | 0 3302    | 1 1 2 8 2 | -0.003  | 0.0091  | 0  | -108      |
| Dislocation | 3/17    | 13 0200  | 42,8000 | 7 0000  | 155 0000 | 80.000 | 0.5312    | 1 4602    | 0.0027  | 0.0152  | 0  | 80        |
| Dislocation | 342     | 12.0300  | 42.0000 | 7.0000  | 133.0000 | 60.000 | 0.3313    | 1.4002    | 0.0027  | 0.0152  | 0. | -00.      |
| Dislocation | 343     | 13.1300  | 42.9100 | 5.0000  | 142.0000 | 69.000 | 0.1971    | 0.8527    | -0.0038 | 0.0043  | υ. | -131.     |
| Dislocation | 344     | 13.0600  | 43.0400 | 6.0000  | 136.0000 | 66.000 | 0.1918    | 0.8402    | -0.0017 | 0.0053  | 0. | -108.     |
| Dislocation | 345     | 13.0800  | 42.7800 | 6.0000  | 144.0000 | 85.000 | 0.2621    | 0.9954    | -0.0038 | 0.0066  | 0. | -120.     |
| Dislocation | 346     | 13.0600  | 43,0300 | 6.0000  | 145.0000 | 65,000 | 0.3347    | 1.1366    | 0.      | 0.0097  | 0. | -90.      |
| Dislocation | 3/17    | 13 1700  | 42 8000 | 6,0000  | 111 0000 | 63.000 | 0.2022    | 1.0558    | -0.0051 | 0.0068  | 0  | -127      |
| Dislocation | 240     | 12 1000  | 42.0000 | 5.0000  | EE 0000  | 60.000 | 0.2522    | 0.0000    | 0.0057  | 0.0000  | 0. | 40.0001   |
| DISIOCATION | 348     | 13.1900  | 42.7100 | 5.0000  | 33.0000  | 00.000 | 0.2551    | 0.9008    | 0.0057  | 0.0048  | 0. | -40.0001  |
| Dislocation | 349     | 13.1500  | 43.0000 | 1.0000  | 152.0000 | 45.000 | 0.2109    | 0.8847    | 0.0005  | 0.0061  | 0. | -85.      |
| Dislocation | 350     | 13.2100  | 42.7800 | 3.0000  | 150.0000 | 60.000 | 0.2416    | 0.9524    | 0.0035  | 0.0061  | 0. | -60.      |
| Dislocation | 351     | 13.1500  | 42.8800 | 7.0000  | 148.0000 | 56.000 | 0.2730    | 1.0177    | -0.0031 | 0.0073  | 0. | -113.     |
| Dislocation | 352     | 13,1500  | 42,8000 | 7.0000  | 59.0000  | 83,000 | 0.1629    | 0.7691    | -0.0015 | 0.0045  | 0. | -109.     |
| Dislocation | 353     | 13 0400  | 43 0300 | 6,0000  | 160,0000 | 65,000 | 0 3044    | 1 0794    | 0.0015  | 0.0087  | 0  | -80       |
| Diclocation | 253     | 12 15 00 | 42,0000 | E 0000  | 152,0000 | 40.000 | 0.2107    | 0.0045    | 0.0011  | 0.000   | 0. | 71        |
| Dislocation | 354     | 13.1500  | 42.6900 | 5.0000  | 152.0000 | 40.000 | 0.2197    | 0.9045    | 0.0021  | 0.006   | 0. | -/1.      |
| Dislocation | 355     | 13.2100  | 42.9300 | 2.0000  | 195.0000 | /5.000 | 0.2483    | 0.9665    | 0.0068  | -0.0025 | υ. | 20.       |
| Dislocation | 356     | 13.1500  | 42.9400 | 5.0000  | 148.0000 | 61.000 | 0.3085    | 1.0874    | -0.0012 | 0.0089  | 0. | -98.      |
| Dislocation | 357     | 13.0700  | 42.8800 | 1.0000  | 142.0000 | 51.000 | 0.4897    | 1.3970    | -0.002  | 0.0141  | 0. | -98.      |
| Dislocation | 358     | 13,2000  | 42,9000 | 2.0000  | 97.0000  | 86,000 | 0.1522    | 0.7413    | -0.0038 | -0.0022 | 0. | 150.      |
| Dislocation | 359     | 13 1900  | 42 8800 | 2 0000  | 134 0000 | 47 000 | 0 3170    | 1 1036    | -0.0024 | 0.0089  | 0  | -105      |
| Dislocation | 360     | 13 0600  | 13 0400 | 5,0000  | 160,0000 | 55 000 | 0.2320    | 0.0315    | 0.0027  | 0.0063  | 0  | -70       |
| Dislocation | 300     | 13.0000  | 43.0400 | 5.0000  | 100.0000 | 55.000 | 0.2320    | 0.9315    | 0.0023  | 0.0005  | 0. | -70.      |
| Dislocation | 361     | 13.0600  | 43.0400 | 5.0000  | 160.0000 | 55.000 | 0.2320    | 0.9315    | 0.0023  | 0.0063  | U. | -/U.      |
| Dislocation | 362     | 13.0500  | 43.0300 | 5.0000  | 144.0000 | 71.000 | 2.1237    | 3.0960    | -0.0054 | 0.0614  | 0. | -95.      |
| Dislocation | 363     | 13.0700  | 42.8600 | 9.0000  | 185.0000 | 60.000 | 0.1720    | 0.7921    | 0.0009  | 0.0049  | 0. | -80.      |
| Dislocation | 364     | 13.3100  | 42.6600 | 2.0000  | 154.0000 | 65.000 | 0.2288    | 0.9247    | -0.0006 | 0.0066  | 0. | -95.      |
|             | · · · · |          |         |         |          |        |           |           |         |         |    |           |

| <ul> <li>10500 d1000</li> </ul>   | 365   | 13 0600   | 43 0200   | 5 0000   | 145 0000   | 70 000   | 0 2025   | 0.8654   | 0   | 0.0059   | 0   | -90  |
|---|---|---|---|--|--|--|--|--|---|--|---|--|
| Dislocation   | 366   | 13 1500   | 42.9700   | 5,0000   | 155,0000   | 55,000   | 0.2805   | 1 0328   | 0.0047  | 0.0067   | 0   | 55   |
| Dislocation   | 300   | 13.1300   | 42.9700   | 5.0000   | 155.0000   | 55.000   | 0.2803   | 1.0528   | 0.0047  | 0.0007   | 0.  | -55.   |
| Dislocation   | 367   | 13.1200   | 42.8300   | 6.0000   | 150.0000   | 55.000   | 0.3440   | 1.1535   | 0.  | 0.01   | 0.  | -90.   |
| Dislocation   | 368   | 13.2100   | 42.7800   | 4.0000   | 188.0000   | 67.000   | 0.2416   | 0.9524   | -0.0013   | 0.0069   | 0.  | -101.  |
| Dislocation   | 369   | 13.2200   | 42.9100   | 2.0000   | 143.0000   | 57.000   | 0.3487   | 1.1620   | -0.0065   | 0.0078   | 0.  | -130.  |
| Dislocation   | 370   | 13 2000   | 12 9200   | 2 0000   | 180.0000   | 55,000   | 0.2844   | 1.0404   | 0.00/1  | 0.0072   | 0   | -60  |
| Dislocation   | 271   | 13.2000   | 42.5200   | 2.0000   | 147.0000   | 55.000   | 0.5764   | 1.0404   | 0.0041  | 0.0072   | 0.  | 100  |
| Dislocation   | 3/1   | 13.1800   | 42.6900   | 9.0000   | 147.0000   | 56.000   | 0.5764   | 1.5262   | -0.0029   | 0.0165   | 0.  | -100.  |
| Dislocation   | 3/2   | 13.0800   | 42.9900   | 5.0000   | 153.0000   | 69.000   | 0.3534   | 1.1706   | -0.0023   | 0.01   | 0.  | -103.  |
| Dislocation   | 373   | 13.0600   | 43.0300   | 6.0000   | 137.0000   | 56.000   | 0.2483   | 0.9665   | -0.0013   | 0.0071   | 0.  | -100.  |
| Dislocation   | 374   | 13.0500   | 43.0200   | 5.0000   | 158.0000   | 77.000   | 0.2320   | 0.9315   | -0.0019   | 0.0065   | 0.  | -106.  |
| Dislocation   | 375   | 13 1100   | 42 7900   | 7 0000   | 184 0000   | 84 000   | 0 2449   | 0 9594   | -0.0029   | 0.0065   | 0   | -114   |
| Dislocation   | 376   | 13,0500   | 42 7600   | 7,0000   | 130,0000   | 53,000   | 0.2517   | 0.9736   | 0.002   | 0.007  | 0   | 106  |
| Dislocation   | 370   | 13.0300   | 42.7000   | 7.0000   | 130.0000   | 55.000   | 0.2317   | 0.9730   | -0.002  | 0.007  | 0.  | -100.  |
| Dislocation   | 3//   | 13.1000   | 42.8700   | 7.0000   | 133.0000   | 61.000   | 0.1944   | 0.8464   | -0.0038   | 0.0042   | 0.  | -132.  |
| Dislocation   | 378   | 13.0700   | 42.8700   | 7.0000   | 149.0000   | 66.000   | 0.2883   | 1.0481   | -0.001  | 0.0083   | 0.  | -97.   |
| Dislocation   | 379   | 13.2100   | 42.6800   | 9.0000   | 127.0000   | 54.000   | 0.2768   | 1.0252   | -0.0048   | 0.0064   | 0.  | -127.  |
| Dislocation   | 380   | 13,1600   | 42,9000   | 2.0000   | 140.0000   | 60.000   | 0.1971   | 0.8527   | 0.  | 0.0057   | 0.  | -90.   |
| Dislocation   | 381   | 13 1400   | 42 7800   | 6,0000   | 143 0000   | 56,000   | 0.2167   | 0.8978   | -0.0008   | 0.0062   | 0   | -97  |
| Dislocation   | 201   | 12,0700   | 42.7000   | C.0000   | 152,0000   | 45.000   | 0.2107   | 0.0010   | 0.0000  | 0.0002   | 0.  | ог.  |
| Dislocation   | 302   | 13.0700   | 45.0100   | 5.0000   | 152.0000   | 45.000   | 0.2156   | 0.8915   | 0.0005  | 0.0062   | 0.  | -65.   |
| Dislocation   | 383   | 13.1300   | 42.8700   | 3.0000   | 102.0000   | 54.000   | 0.2517   | 0.9736   | -0.0044   | 0.0058   | 0.  | -127.  |
| Dislocation   | 384   | 13.1300   | 42.9800   | 3.0000   | 190.0000   | 65.000   | 0.1697   | 0.7863   | 0.0043  | 0.0025   | 0.  | -30.   |
| Dislocation   | 385   | 13.1300   | 42.7900   | 6.0000   | 152.0000   | 56.000   | 0.3347   | 1.1366   | 0.0012  | 0.0096   | 0.  | -83.   |
| Dislocation   | 386   | 13 2300   | 42 8300   | 11 0000  | 135 0000   | 75 000   | 0 2320   | 0.9315   | 0.0043  | 0.0052   | 0   | -50  |
| Dislocation   | 207   | 12 1200   | 42 0000   | 2 0000   | 175,0000   | 65.000   | 0.1720   | 0.7021   | 0.0000  | 0.0040   | 0   | 80   |
| Dislocation   | 200   | 12.000  | 42.0000   | 5.0000   | 141.0000   | 53.000   | 0.1720   | 0.7 22 1   | 0.0009  | 0.0049   | 0.  | -00.   |
| Dislocation   | 200   | 13.0600   | 45.0600   | 5.0000   | 141.0000   | 52.000   | 0.1944   | 0.8464   | -0.0012   | 0.0055   | 0.  | -102.  |
| Dislocation   | 389   | 13.1500   | 42.7000   | 8.0000   | 145.0000   | 80.000   | 0.2483   | 0.9665   | 0.0013  | 0.0071   | Ο.  | -80.   |
| Dislocation   | 390   | 13.1800   | 42.6800   | 7.0000   | 128.0000   | 51.000   | 0.2053   | 0.8718   | -0.0033   | 0.0049   | 0.  | -124.  |
| Dislocation   | 391   | 13.1900   | 42.9100   | 2.0000   | 129.0000   | 64.000   | 0.2483   | 0.9665   | -0.0029   | 0.0066   | 0.  | -114.  |
| Dislocation   | 392   | 13,2100   | 42 9400   | 1.0000   | 170 0000   | 60 000   | 0.2693   | 1.0102   | 0.002   | 0.0076   | 0.  | -75.   |
| Dislocation   | 302   | 13 22/00  | 12 0500   | 1,0000   | 155 0000   | 55.000   | 0.4765   | 1 3766   | -0.0012   | 0.0139   | 0   | -95  |
| Dislocation   | 252   | 13.2300   | 42.9300   | 1.0000   | 155.0000   | 55.000   | 0.4703   | 1.5700   | -0.0012   | 0.0136   | 0.  | -25.   |
| Dislocation   | 394   | 13.2200   | 42.9500   | 1.0000   | 155.0000   | 55.000   | 0.2483   | 0.9665   | 0.0019  | 0.007  | 0.  | -/5.   |
| Dislocation   | 395   | 13.1800   | 42.7900   | 7.0000   | 102.0000   | 62.000   | 0.1971   | 0.8527   | -0.0043   | 0.0038   | 0.  | -139.  |
| Dislocation   | 396   | 13.1300   | 42.9800   | 2.0000   | 147.0000   | 50.000   | 0.3302   | 1.1282   | -0.0037   | 0.0088   | 0.  | -113.  |
| Dislocation   | 397   | 13 1900   | 42 7500   | 2 0000   | 159 0000   | 55 000   | 0 3258   | 1 1 2 0 0  | -0.0005   | 0.0094   | 0   | -93  |
| Dislocation   | 308   | 13 2000   | 42.9500   | 1,0000   | 155,0000   | 60,000   | 0.2022   | 1.0558   | 0.0020  | 0.008  | 0   | 70   |
| Dislocation   | 200   | 13.2000   | 42.9500   | 2.0000   | 135.0000   | 70.000   | 0.2922   | 1.0558   | 0.0029  | 0.008  | 0.  | -70.   |
| Dislocation   | 399   | 13.2200   | 42.9400   | 2.0000   | 175.0000   | 70.000   | 0.1792   | 0.8098   | 0.0018  | 0.0049   | 0.  | -70.   |
| Dislocation   | 400   | 13.1900   | 42.7300   | 5.0000   | 180.0000   | 50.000   | 0.3681   | 1.1967   | 0.0053  | 0.0093   | 0.  | -60.   |
| Dislocation   | 402   | 13.2100   | 42.9500   | 2.0000   | 120.0000   | 55.000   | 0.2351   | 0.9384   | -0.0034   | 0.0059   | 0.  | -120.  |
| Dislocation   | 403   | 13.0600   | 43.0600   | 5.0000   | 131.0000   | 64.000   | 0.4964   | 1.4073   | -0.004  | 0.0139   | 0.  | -106.  |
| Dislocation   | 404   | 13.2000   | 42,7800   | 4.0000   | 135.0000   | 65.000   | 0.2551   | 0.9808   | 0.0037  | 0.0064   | 0.  | -60.   |
| Dislocation   | 405   | 13 1900   | 42 8100   | 6,0000   | 140 0000   | 65,000   | 0 3732   | 1 2056   | 0.0028  | 0.0105   | 0   | -75  |
| Dislocation   | 405   | 12,1000   | 42.0100   | 2,0000   | 150,0000   | 50.000   | 0.2202   | 0.0454   | 0.0020  | 0.0060   | 0.  | 95.<br>9E  |
| Dislocation   | 400   | 13.1900   | 42.8800   | 2.0000   | 130.0000   | 30.000   | 0.2363   | 0.9434   | 0.0000  | 0.0009   | 0.  | -63.   |
| Dislocation   | 407   | 13.0800   | 42.8700   | 9.0000   | 197.0000   | 77.000   | 0.2768   | 1.0252   | -0.0022   | -0.0077  | 0.  | 106.   |
| Dislocation   | 408   | 13.1400   | 43.0200   | 2.0000   | 152.0000   | 50.000   | 0.2962   | 1.0637   | 0.0006  | 0.0086   | 0.  | -86.   |
| Dislocation   | 409   | 13.1800   | 42.9000   | 1.0000   | 128.0000   | 50.000   | 0.1481   | 0.7305   | -0.0003   | 0.0043   | 0.  | -94.   |
| Dislocation   | 410   | 13.1500   | 42.8900   | 9.0000   | 146.0000   | 64.000   | 0.5764   | 1.5262   | -0.0046   | 0.0161   | 0.  | -106.  |
| Dislocation   | 411   | 13 1800   | 42 9000   | 2 0000   | 149 0000   | 66 000   | 0 2167   | 0 8978   | -0.0028   | 0.0057   | 0   | -116   |
| Dislocation   | /12   | 13 0400   | 10.0000   | 7,0000   | 1/8 0000   | 73,000   | 0.2883   | 1.0/91   | 0.0015  |  |   | 100  |
| Dislocation   | 412   |   | 10 8300   |  |  |  | 0.2005   |  |   | 0.008.2  | 0   |  |
| DISIOCATION   | 412   | 12,7700   | 42.8300   | 7.0000   | 140.0000   | 70.000   | 0 2247   | 1.1266   | -0.0015   | 0.0082   | 0.  | -100.  |
| Billiocucion  | 413   | 12.7700   | 42.8300   | 7.0000   | 110.0000   | 70.000   | 0.3347   | 1.1366   | 0.0056  | 0.0082   | 0.<br>0.  | -55.   |
| Dislocation   | 413<br>414  | 12.7700<br>13.2500  | 42.8300<br>42.8100<br>42.5500   | 7.0000 7.0000 3.0000   | 110.0000<br>165.0000   | 70.000   | 0.3347<br>0.2257   | 1.1366<br>0.9179   | 0.0056  | 0.0082<br>0.008<br>0.0066  | 0.<br>0.<br>0.  | -55.<br>-90.   |
| Dislocation   | 413<br>414<br>415   | 12.7700<br>13.2500<br>13.1500   | 42.8300<br>42.8100<br>42.5500<br>43.0000  | 7.0000<br>7.0000<br>3.0000<br>2.0000   | 110.0000<br>165.0000<br>160.0000   | 70.000<br>55.000<br>45.000   | 0.3347<br>0.2257<br>0.3583   | 1.1366<br>0.9179<br>1.1792   | 0.0056<br>0.<br>0.  | 0.0082<br>0.008<br>0.0066<br>0.0104  | 0.<br>0.<br>0.  | -55.<br>-90.<br>-90.   |
| Dislocation<br>Dislocation<br>Dislocation   | 413<br>414<br>415<br>416  | 12.7700<br>13.2500<br>13.1500<br>13.1600  | 42.8300<br>42.8100<br>42.5500<br>43.0000<br>43.0000   | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>2.0000   | 110.0000<br>165.0000<br>160.0000<br>149.0000   | 70.000<br>55.000<br>45.000<br>54.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081   | 1.1366<br>0.9179<br>1.1792<br>0.8782   | 0.0056<br>0.<br>0.<br>-0.0021   | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057  | 0.<br>0.<br>0.<br>0.  | -55.<br>-90.<br>-110.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900   | 42.8300<br>42.8100<br>42.5500<br>43.0000<br>43.0000<br>42.6600  | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>2.0000<br>9.0000   | 110.0000<br>165.0000<br>160.0000<br>149.0000<br>180.0000   | 70.000<br>55.000<br>45.000<br>54.000<br>50.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868   | 0.0015<br>0.0056<br>0.<br>-0.0021<br>0.007  | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121  | 0.<br>0.<br>0.<br>0.<br>0.  | -55.<br>-90.<br>-90.<br>-110.<br>-60.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418  | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900   | 42.8300<br>42.8100<br>42.5500<br>43.0000<br>43.0000<br>42.6600<br>42.7300   | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>9.0000<br>9.0000   | 110.0000<br>165.0000<br>160.0000<br>149.0000<br>180.0000<br>185.0000   | 70.000<br>55.000<br>45.000<br>54.000<br>50.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955   | 0.0015<br>0.0056<br>0.<br>-0.0021<br>0.007<br>0.0016  | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -55.<br>-90.<br>-90.<br>-110.<br>-60.<br>-80   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 413<br>414<br>415<br>416<br>417<br>418<br>410   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800   | 42.8300<br>42.8100<br>42.5500<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.7300  | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>9.0000<br>9.0000<br>9.0000   | 140.0000<br>110.0000<br>165.0000<br>160.0000<br>149.0000<br>180.0000<br>185.0000<br>170.0000   | 70.000<br>55.000<br>45.000<br>54.000<br>50.000<br>55.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955   | 0.0015<br>0.0056<br>0.<br>0.<br>-0.0021<br>0.007<br>0.0016<br>0.0004  | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0112  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -100.<br>-55.<br>-90.<br>-90.<br>-110.<br>-60.<br>-80.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418<br>419   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800   | 42.8300<br>42.8100<br>42.5500<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.8900  | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>9.0000<br>9.0000<br>3.0000<br>3.0000   | 110.0000<br>165.0000<br>160.0000<br>149.0000<br>180.0000<br>185.0000<br>179.0000   | 70.000<br>55.000<br>45.000<br>54.000<br>50.000<br>55.000<br>65.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325   | 0.0015<br>0.0056<br>0.<br>-0.0021<br>0.007<br>0.0016<br>-0.0004   | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                                    | -100.<br>-55.<br>-90.<br>-90.<br>-110.<br>-60.<br>-80.<br>-92.<br>-90.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420  | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1300<br>13.0500  | 42.8300<br>42.8100<br>42.5500<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.8900<br>42.7800   | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>9.0000<br>9.0000<br>3.0000<br>7.0000   | 110.0000<br>165.0000<br>160.0000<br>149.0000<br>180.0000<br>185.0000<br>179.0000<br>135.0000   | 70.000<br>55.000<br>45.000<br>54.000<br>50.000<br>55.000<br>65.000<br>90.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450   | 0.0015<br>0.0056<br>0.<br>-0.0021<br>0.007<br>0.0016<br>-0.0004<br>0.0017   | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                              | -100.<br>-55.<br>-90.<br>-90.<br>-110.<br>-60.<br>-80.<br>-92.<br>-80.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1300<br>13.0500<br>13.1800   | 42.8300<br>42.8100<br>42.5500<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.8900<br>42.7800<br>42.9000  | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>9.0000<br>9.0000<br>9.0000<br>3.0000<br>7.0000<br>2.0000   | 110.0000           110.0000           165.0000           160.0000           180.0000           180.0000           185.0000           185.0000           185.0000           135.0000           138.0000   | 70.000<br>55.000<br>45.000<br>54.000<br>50.000<br>55.000<br>65.000<br>90.000<br>56.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971   | 1.1366           0.9179           1.1792           0.8782           1.3868           1.0955           1.2325           1.1450           0.8527   | 0.0013           0.0056           0.           0.0021           0.007           0.0016           -0.0004           0.0017   | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.<br>-55.<br>-90.<br>-90.<br>-110.<br>-60.<br>-80.<br>-92.<br>-80.<br>-97.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422  | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800<br>13.1300<br>13.0500<br>13.1800<br>13.1300   | 42.8300<br>42.8100<br>42.5500<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.8900<br>42.7800<br>42.7800<br>42.9000<br>43.0000  | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>9.0000<br>9.0000<br>3.0000<br>7.0000<br>2.0000<br>2.0000   | 110.0000<br>165.0000<br>160.0000<br>149.0000<br>180.0000<br>185.0000<br>179.0000<br>135.0000<br>138.0000<br>160.0000   | 70.000<br>55.000<br>45.000<br>54.000<br>50.000<br>55.000<br>65.000<br>90.000<br>56.000<br>50.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262   | 0.0015           0.0056           0.           0.0021           0.007           0.0016           -0.0004           0.0017           0.0007  | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0057  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                  | -100.<br>-55.<br>-90.<br>-110.<br>-60.<br>-80.<br>-92.<br>-80.<br>-97.<br>-85.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1300<br>13.0500<br>13.1800<br>13.1800<br>13.1400   | 42.8300<br>42.8100<br>42.5500<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.8900<br>42.7800<br>42.9000<br>42.9000<br>43.0000<br>42.9900   | 7.0000<br>7.0000<br>2.0000<br>2.0000<br>9.0000<br>9.0000<br>3.0000<br>7.0000<br>2.0000<br>2.0000<br>2.0000   | 110.0000<br>165.0000<br>160.0000<br>149.0000<br>180.0000<br>185.0000<br>135.0000<br>135.0000<br>160.0000<br>165.0000   | 70.000<br>55.000<br>45.000<br>54.000<br>55.000<br>65.000<br>90.000<br>56.000<br>50.000<br>50.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.393<br>0.1971<br>0.5764<br>0.4513  | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366   | 0.0015<br>0.0056<br>0.<br>-0.0021<br>0.007<br>0.0016<br>-0.0004<br>0.0017<br>-0.0007<br>0.0015<br>0.0023  | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0057<br>0.0167<br>0.0129  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0 | -100.<br>-55.<br>-90.<br>-90.<br>-110.<br>-60.<br>-80.<br>-92.<br>-80.<br>-97.<br>-85.<br>-80.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424  | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1300<br>13.1400<br>13.2100  | 42.8300<br>42.8100<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.7800<br>42.7800<br>42.9000<br>43.0000<br>42.9000<br>42.9000  | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>9.0000<br>9.0000<br>9.0000<br>3.0000<br>7.0000<br>2.0000<br>2.0000<br>2.0000   | 110.0000<br>165.0000<br>165.0000<br>149.0000<br>180.0000<br>185.0000<br>135.0000<br>135.0000<br>135.0000<br>165.0000<br>165.0000   | 70.000<br>55.000<br>45.000<br>54.000<br>50.000<br>55.000<br>65.000<br>90.000<br>56.000<br>50.000<br>50.000<br>46.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.9528   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045   | 0.0015<br>0.0056<br>0.<br>0.007<br>0.007<br>0.0016<br>-0.0004<br>0.0017<br>-0.0007<br>0.0015<br>0.0023<br>-0.0048   | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0 | -100.<br>-55.<br>-90.<br>-90.<br>-110.<br>-60.<br>-80.<br>-92.<br>-80.<br>-97.<br>-85.<br>-80.<br>-100.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800<br>13.0500<br>13.1800<br>13.1300<br>13.1400<br>13.2100<br>13.2100   | 42.8300<br>42.8300<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.8900<br>42.7800<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9000   | 7.0000<br>7.0000<br>2.0000<br>2.0000<br>9.0000<br>9.0000<br>3.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>5.0000   | 110.0000<br>165.0000<br>165.0000<br>149.0000<br>180.0000<br>185.0000<br>135.0000<br>135.0000<br>138.0000<br>165.0000<br>151.0000<br>151.0000   | 70.000<br>55.000<br>45.000<br>54.000<br>50.000<br>55.000<br>65.000<br>56.000<br>56.000<br>50.000<br>50.000<br>50.000<br>60.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341   | 0.0015<br>0.0056<br>0.<br>0.<br>0.007<br>0.0016<br>-0.0004<br>0.0017<br>-0.0007<br>0.0015<br>0.0023<br>-0.0048<br>0.0005  | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0 | -100.<br>-55.<br>-90.<br>-90.<br>-110.<br>-60.<br>-80.<br>-92.<br>-80.<br>-97.<br>-85.<br>-80.<br>-100.<br>-85.<br>-85.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>424<br>425<br>426   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800<br>13.0500<br>13.1800<br>13.1300<br>13.1300<br>13.1400<br>13.2100<br>13.2000  | 42.8300<br>42.8300<br>42.5500<br>43.0000<br>42.6600<br>42.7300<br>42.8900<br>42.7800<br>42.9000<br>42.9900<br>42.9900<br>42.9900<br>42.9900<br>42.9200  | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>9.0000<br>9.0000<br>3.0000<br>7.0000<br>2.0000<br>2.0000<br>2.0000<br>5.0000<br>1.0000<br>5.0000   | 110.0000<br>165.0000<br>165.0000<br>149.0000<br>185.0000<br>179.0000<br>135.0000<br>135.0000<br>165.0000<br>151.0000<br>151.0000   | 70.000<br>55.000<br>45.000<br>54.000<br>50.000<br>55.000<br>90.000<br>56.000<br>56.000<br>50.000<br>50.000<br>46.000<br>60.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.4513<br>0.9528<br>0.1892<br>0.2091   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.972  | 0.0015<br>0.0056<br>0.<br>0.<br>0.0021<br>0.007<br>0.0016<br>-0.0004<br>0.0017<br>-0.0007<br>0.0015<br>0.0023<br>-0.0048<br>0.0005<br>0.0015  | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.<br>-55.<br>-90.<br>-90.<br>-110.<br>-60.<br>-80.<br>-92.<br>-80.<br>-97.<br>-85.<br>-80.<br>-100.<br>-85.<br>-92.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>420<br>421<br>422<br>423<br>424<br>425<br>426  | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1400<br>13.2100<br>13.2000<br>13.2000   | 42.8300<br>42.5500<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.7300<br>42.9000<br>42.7800<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9200<br>42.9400<br>42.9400  | 7.0000<br>7.0000<br>2.0000<br>2.0000<br>9.0000<br>9.0000<br>7.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>1.0000<br>5.0000<br>5.0000   | 110.0000<br>165.0000<br>165.0000<br>160.0000<br>149.0000<br>185.0000<br>179.0000<br>135.0000<br>135.0000<br>160.0000<br>165.0000<br>151.0000<br>175.0000<br>155.0000   | 70.000<br>55.000<br>55.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>60.000<br>60.000<br>65.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.4513<br>0.9528<br>0.1892<br>0.2081   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>0.8341   | 0.0015<br>0.0056<br>0.<br>0.<br>0.007<br>0.0016<br>-0.0004<br>0.0017<br>-0.0007<br>0.0015<br>0.0015<br>0.0023<br>-0.0048<br>0.0005<br>0.0001  | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0055<br>0.0059  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0 | -100.<br>-55.<br>-90.<br>-90.<br>-1110.<br>-60.<br>-80.<br>-92.<br>-80.<br>-97.<br>-85.<br>-80.<br>-100.<br>-85.<br>-80.<br>-00.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425<br>426<br>427   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800<br>13.1300<br>13.1300<br>13.1300<br>13.1400<br>13.2100<br>13.2100<br>13.2000<br>13.0700<br>13.1400  | 42.8300<br>42.8300<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.8900<br>42.7800<br>42.7800<br>42.9000<br>43.0000<br>42.9900<br>43.0000<br>42.9200<br>43.0300<br>42.8000  | 7.0000<br>7.0000<br>2.0000<br>2.0000<br>9.0000<br>9.0000<br>3.0000<br>7.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>5.0000<br>5.0000<br>6.0000   | 110.0000<br>165.0000<br>165.0000<br>149.0000<br>149.0000<br>185.0000<br>135.0000<br>135.0000<br>135.0000<br>165.0000<br>165.0000<br>175.0000<br>175.0000   | 70.000<br>55.000<br>55.000<br>54.000<br>55.000<br>55.000<br>55.000<br>50.000<br>50.000<br>50.000<br>65.000<br>65.000<br>50.000<br>50.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.4392   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>1.3170   | 0.0015           0.0056           0.           0.0021           0.007           0.0016           -0.0004           0.0017           0.0015           0.0023           -0.0048           0.0005           0.001  | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0059<br>0.0128  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0 | -100.           -55.           -90.           -90.           -110.           -60.           -80.           -92.           -80.           -97.           -85.           -80.           -100.           -85.           -80.           -90.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425<br>426<br>427<br>428  | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1800<br>13.1800<br>13.1800<br>13.0500<br>13.1800<br>13.1300<br>13.1400<br>13.2100<br>13.2100   | 42.8300<br>42.8300<br>42.5500<br>43.0000<br>42.6600<br>42.7300<br>42.7800<br>42.7800<br>42.7800<br>42.9900<br>42.7200<br>42.9900<br>42.7200<br>42.9400<br>43.0300<br>42.8000<br>42.8000<br>42.9200  | 7.0000<br>7.0000<br>2.0000<br>9.0000<br>9.0000<br>9.0000<br>3.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>5.0000<br>1.0000<br>5.0000<br>3.0000   | 110.0000<br>165.0000<br>160.0000<br>149.0000<br>185.0000<br>179.0000<br>135.0000<br>135.0000<br>135.0000<br>165.0000<br>151.0000<br>155.0000<br>105.0000<br>105.0000   | 70.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>76.000<br>76.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.4392<br>0.2657  | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>1.3170<br>1.3028   | 0.0015           0.0056           0.           0.0021           0.007           0.0016           -0.0004           0.0017           0.0015           0.0023           -0.0048           0.0005           0.0011           0.00123   | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0055<br>0.0059<br>0.0128<br>0.0028  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0 | -100.<br>-55.<br>-90.<br>-90.<br>-110.<br>-60.<br>-80.<br>-92.<br>-80.<br>-92.<br>-80.<br>-97.<br>-85.<br>-80.<br>-100.<br>-85.<br>-80.<br>-100.<br>-85.<br>-80.<br>-97.<br>-95.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-97.<br>-85.<br>-80.<br>-90.<br>-80.<br>-97.<br>-85.<br>-80.<br>-90.<br>-80.<br>-97.<br>-85.<br>-80.<br>-90.<br>-90.<br>-80.<br>-97.<br>-85.<br>-80.<br>-90.<br>-90.<br>-80.<br>-97.<br>-85.<br>-80.<br>-90.<br>-90.<br>-80.<br>-90.<br>-90.<br>-90.<br>-80.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-9 |
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 | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.4392<br>0.2081<br>0.4392<br>0.2288<br>0.2288<br>0.2197<br>0.2693  | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>1.3170<br>1.0028<br>0.9247<br>0.9045<br>1.0102   | 0.0015           0.0056           0.           0.0021           0.007           0.0016           -0.0004           0.0017           0.0007           0.0015           0.0023           -0.0048           0.0005           0.001           0.           -0.0072           0.0012           -0.006           -0.0055  | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0055<br>0.0055<br>0.0059<br>0.0128<br>0.0028<br>0.0028<br>0.0023<br>0.0074  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.             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-100.<br>-55.<br>-90.<br>-90.<br>-110.<br>-60.<br>-80.<br>-92.<br>-80.<br>-97.<br>-85.<br>-80.<br>-100.<br>-85.<br>-80.<br>-90.<br>-159.<br>-80.<br>-109.<br>-109.<br>-100.<br>-100.<br>-110.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-92.<br>-88.<br>-97.<br>-85.<br>-80.<br>-97.<br>-85.<br>-80.<br>-90.<br>-97.<br>-85.<br>-80.<br>-90.<br>-90.<br>-85.<br>-80.<br>-90.<br>-85.<br>-80.<br>-90.<br>-90.<br>-85.<br>-80.<br>-90.<br>-90.<br>-85.<br>-80.<br>-90.<br>-90.<br>-85.<br>-80.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-97.<br>-85.<br>-80.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90.<br>-90 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0.0082<br>0.008<br>0.006<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0055<br>0.0059<br>0.0128<br>0.0055<br>0.0059<br>0.0128<br>0.0065<br>-0.0023<br>0.0074<br>0.0074  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.           -55.           -90.           -90.           -110.           -60.           -80.           -97.           -85.           -80.           -100.           -85.           -80.           -100.           -85.           -80.           -159.           -80.           159.           -109.           -120   |
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110.0000<br>165.0000<br>165.0000<br>149.0000<br>180.0000<br>185.0000<br>135.0000<br>135.0000<br>135.0000<br>165.0000<br>175.0000<br>175.0000<br>175.0000<br>105.0000<br>105.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>143.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>144.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.00 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  | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.4922<br>0.2081<br>0.4392<br>0.2081<br>0.4392<br>0.20857<br>0.2288<br>0.2197<br>0.2693<br>0.22844<br>0.7555   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>1.3170<br>1.0028<br>0.9247<br>0.9045<br>1.0102<br>1.0404<br>1.7045   | 0.0015           0.0056           0.           0.0021           0.007           0.0016           -0.0004           0.0017           0.0007           0.0015           0.0023           -0.0048           0.0005           0.0015           0.0012           -0.006           -0.0025           -0.0041  | 0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0059<br>0.0128<br>0.0028<br>0.0028<br>0.0023<br>0.0074<br>0.0072<br>0.0072  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.           -55.           -90.           -90.           -110.           -60.           -80.           -92.           -80.           -97.           -85.           -80.           -100.           -85.           -80.           -100.           -85.           -80.           -159.           -80.           -159.           -80.           159.           -109.           -120.           1144  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425<br>426<br>427<br>428<br>426<br>427<br>428<br>429<br>430<br>431<br>432<br>433  | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800<br>13.1300<br>13.1300<br>13.1300<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2300<br>13.1600   | 42.8300<br>42.8300<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.8900<br>42.7800<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9500<br>42.9500   | 7.0000<br>7.0000<br>2.0000<br>9.0000<br>9.0000<br>9.0000<br>7.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>5.0000<br>5.0000<br>6.0000<br>8.0000<br>8.0000<br>6.0000<br>8.0000<br>8.0000   | 110.0000<br>110.0000<br>165.0000<br>149.0000<br>149.0000<br>185.0000<br>185.0000<br>135.0000<br>135.0000<br>135.0000<br>165.0000<br>165.0000<br>165.0000<br>175.0000<br>105.0000<br>140.0000<br>140.0000<br>135.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>150.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.00000<br>140.0000<br>140.0000<br>140.0000<br>140.0000<br>140.0 | 70.000<br>70.000<br>55.000<br>45.000<br>55.000<br>55.000<br>90.000<br>56.000<br>50.000<br>50.000<br>65.000<br>65.000<br>65.000<br>65.000<br>76.000<br>65.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.4392<br>0.2657<br>0.2288<br>0.2288<br>0.2197<br>0.2693<br>0.2844<br>0.7065   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>1.3170<br>1.0028<br>0.9247<br>0.9045<br>1.0102<br>1.0404<br>1.7045   | 0.0015           0.0056           0.           0.0021           0.007           0.0016           -0.0004           0.0017           0.0015           0.0015           0.0015           0.0015           0.0015           0.0011           0.           -0.0007           0.0015           0.0012           -0.006           -0.0025           -0.0041           -0.0083   | 0.0082<br>0.008<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0059<br>0.0128<br>0.0028<br>0.0023<br>0.0074<br>0.0072<br>0.0072<br>0.0074<br>0.0072<br>0.0187   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.           -55.           -90.           -90.           -110.           -60.           -80.           -92.           -80.           -97.           -85.           -80.           -100.           -85.           -80.           -90.           -159.           -80.           -159.           -109.           -120.           -114.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425<br>426<br>427<br>428<br>429<br>430<br>431<br>432<br>433<br>434  | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1300<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.1400<br>13.2100<br>13.1000<br>13.1000<br>13.1600<br>13.1600   | 42.8300<br>42.5500<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.7800<br>42.9000<br>42.7800<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9400<br>42.9400<br>42.9200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8500<br>42.8500<br>42.8600<br>43.0100   | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>9.0000<br>9.0000<br>3.0000<br>2.0000<br>2.0000<br>2.0000<br>5.0000<br>1.0000<br>5.0000<br>6.0000<br>3.0000<br>8.0000<br>5.0000<br>5.0000<br>5.0000   | 10.0000           110.0000           165.0000           165.0000           160.0000           180.0000           185.0000           179.0000           135.0000           135.0000           135.0000           135.0000           151.0000           151.0000           175.0000           105.0000           143.0000           143.0000           144.0000           170.0000   | 70.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>50.000<br>50.000<br>50.000<br>60.000<br>65.000<br>71.000<br>65.000<br>71.000<br>65.000<br>71.000<br>65.000<br>65.000<br>71.000<br>60.000<br>55.000<br>64.000<br>64.000<br>64.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.4392<br>0.2081<br>0.2657<br>0.2288<br>0.2197<br>0.2693<br>0.2844<br>0.7066<br>0.2586   | 1.1366           0.9179           1.1792           0.8782           1.3868           1.0955           1.2325           1.1450           0.8527           1.5262           1.3366           2.0045           0.8341           0.8782           1.3170           1.0028           0.9247           0.9045           1.0102           1.0404           1.7045   | 0.0015           0.0056           0.           0.0021           0.007           0.0016           -0.0004           0.0017           0.0015           0.00015           0.00023           -0.0048           0.00015           0.0012           -0.0048           0.00012           -0.0072           0.0012           -0.00641           -0.0083           0.0026  | 0.0082<br>0.008<br>0.006<br>0.0104<br>0.0057<br>0.0121<br>0.0097<br>0.0057<br>0.0167<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0055<br>0.0055<br>0.0059<br>0.0128<br>0.0055<br>0.0023<br>0.0065<br>-0.0023<br>0.0074<br>0.0072<br>0.0187<br>0.0071  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.           -55.           -90.           -90.           -110.           -60.           -80.           -92.           -80.           -97.           -85.           -80.           -100.           -85.           -80.           -100.           -85.           -80.           -159.           -80.           159.           -109.           -120.           -1114.           -70.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 413<br>414<br>415<br>416<br>417<br>418<br>420<br>421<br>422<br>423<br>424<br>425<br>426<br>427<br>428<br>427<br>428<br>429<br>430<br>431<br>432<br>433<br>434<br>435  | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1300<br>13.0500<br>13.1800<br>13.1800<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2000<br>13.1000<br>13.2300<br>13.0900<br>13.0600<br>13.0600   | 42.8300<br>42.5500<br>43.0000<br>42.5500<br>43.0000<br>42.6600<br>42.7300<br>42.9000<br>42.9000<br>42.9000<br>42.9900<br>42.7200<br>42.9900<br>42.7200<br>42.9400<br>42.9200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8500<br>42.8500<br>42.8500<br>42.9500<br>42.9500<br>43.0100<br>42.9800  | 7.0000<br>7.0000<br>2.0000<br>2.0000<br>9.0000<br>9.0000<br>7.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>1.0000<br>5.0000<br>6.0000<br>3.0000<br>8.0000<br>6.0000<br>6.0000<br>6.0000   | 10.0000           110.0000           165.0000           165.0000           160.0000           149.0000           185.0000           135.0000           135.0000           135.0000           135.0000           135.0000           151.0000           151.0000           175.0000           175.0000           190.0000           143.0000           144.0000           175.0000           155.0000  | 70.000<br>70.000<br>55.000<br>45.000<br>55.000<br>65.000<br>90.000<br>56.000<br>50.000<br>46.000<br>46.000<br>46.000<br>46.000<br>65.000<br>76.000<br>76.000<br>76.000<br>76.000<br>65.000<br>76.000<br>85.000<br>76.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000<br>85.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.492<br>0.2081<br>0.4392<br>0.2081<br>0.4392<br>0.2081<br>0.2288<br>0.2197<br>0.2693<br>0.2284<br>0.7066<br>0.2586<br>0.2621  | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>1.3170<br>1.0028<br>0.9247<br>0.9045<br>1.0102<br>1.0404<br>1.7045<br>0.9881<br>0.9954   | 0.0015           0.0056           0.           0.007           0.007           0.0016           -0.0004           0.0017           0.0007           0.0015           0.0005           0.0015           0.0023           -0.0048           0.0005           0.0010           0.00072           0.0012           -0.0041           -0.0043           -0.0041           -0.0083           0.0026           0.0004  | 0.0082<br>0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0059<br>0.0128<br>0.0028<br>0.0028<br>0.0028<br>0.0023<br>0.0074<br>0.0072<br>0.0187<br>0.0071<br>0.0076  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.           -55.           -90.           -90.           -110.           -60.           -80.           -97.           -85.           -80.           -100.           -85.           -80.           -100.           -85.           -80.           -109.           -159.           -80.           159.           -109.           -120.           -114.           -70.           -87.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425<br>426<br>427<br>428<br>425<br>426<br>427<br>428<br>429<br>430<br>431<br>432<br>433<br>434<br>435   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1300<br>13.1300<br>13.1300<br>13.1300<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.1400<br>13.2100<br>13.1000<br>13.2300<br>13.0600<br>13.1600   | 42.8300<br>42.5500<br>43.0000<br>42.5500<br>43.0000<br>42.6600<br>42.7300<br>42.8900<br>42.7800<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9200<br>42.9200<br>42.9200<br>42.8200<br>42.8200<br>42.8200<br>42.8500<br>42.8500<br>42.8500<br>42.8500<br>42.8600<br>42.9800<br>42.9800  | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>9.0000<br>9.0000<br>3.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>5.0000<br>5.0000<br>6.0000<br>8.0000<br>5.0000<br>6.0000<br>9.0000   | 10.0000           110.0000           165.0000           165.0000           160.0000           149.0000           180.0000           185.0000           135.0000           135.0000           135.0000           135.0000           135.0000           165.0000           165.0000           175.0000           175.0000           105.0000           143.0000           144.0000           135.0000           161.0000   | 70.000<br>70.000<br>55.000<br>45.000<br>55.000<br>55.000<br>90.000<br>56.000<br>50.000<br>50.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>60.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000<br>65.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.4392<br>0.2081<br>0.2288<br>0.2288<br>0.2197<br>0.2288<br>0.2284<br>0.2657<br>0.2288<br>0.2197<br>0.2693<br>0.2844<br>0.7066<br>0.2586<br>0.2621<br>0.5313  | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>1.3170<br>1.0028<br>0.9247<br>0.9045<br>1.0102<br>1.0404<br>1.7045<br>0.9881<br>0.9954<br>1.4602   | 0.0015           0.0056           0.           0.0021           0.007           0.0016           -0.0004           0.0017           0.0005           0.0015           0.0023           -0.0048           0.0005           0.0012           -0.00612           -0.0061           -0.0083           0.0025           0.0041           -0.0083           0.0026           0.0004   | 0.0082<br>0.008<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0059<br>0.0128<br>0.0055<br>0.0059<br>0.0128<br>0.0055<br>0.0059<br>0.0128<br>0.0065<br>-0.0023<br>0.0074<br>0.0072<br>0.0187<br>0.0071<br>0.0076<br>0.0151  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.           -55.           -90.           -91.           -90.           -110.           -60.           -80.           -92.           -80.           -97.           -85.           -80.           -100.           -85.           -80.           -90.           -159.           -80.           159.           -109.           -120.           -1114.           -70.           -87.           -102.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425<br>426<br>427<br>428<br>429<br>430<br>431<br>432<br>433<br>434<br>435<br>436<br>437   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1300<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.1400<br>13.2100<br>13.1400<br>13.2100<br>13.1000<br>13.1000<br>13.1600<br>13.0600<br>13.0600<br>13.1500  | 42.8300<br>42.8300<br>43.0000<br>43.0000<br>42.6600<br>42.7300<br>42.7300<br>42.7300<br>42.9000<br>42.7800<br>42.9900<br>42.9900<br>42.9900<br>42.9900<br>42.9200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.9500<br>42.9500<br>42.9400<br>43.0300   | 7.0000<br>7.0000<br>3.0000<br>2.0000<br>9.0000<br>9.0000<br>3.0000<br>7.0000<br>2.0000<br>2.0000<br>5.0000<br>1.0000<br>5.0000<br>6.0000<br>8.0000<br>8.0000<br>8.0000<br>5.0000<br>8.0000<br>5.0000<br>9.0000<br>3.0000   | 10.0000           110.0000           165.0000           165.0000           160.0000           180.0000           185.0000           185.0000           135.0000           135.0000           135.0000           135.0000           150.0000           150.0000           165.0000           175.0000           105.0000           143.0000           143.0000           144.0000           170.0000           155.0000           161.0000           161.0000   | 70.000<br>70.000<br>55.000<br>45.000<br>55.000<br>55.000<br>65.000<br>90.000<br>50.000<br>50.000<br>46.000<br>60.000<br>65.000<br>71.000<br>65.000<br>71.000<br>65.000<br>71.000<br>65.000<br>71.000<br>65.000<br>72.000<br>65.000<br>55.000<br>73.000<br>74.000<br>74.000<br>74.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000<br>75.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.4392<br>0.2657<br>0.2288<br>0.2197<br>0.2693<br>0.2844<br>0.7066<br>0.2586<br>0.2586<br>0.2586<br>0.25813<br>0.2138   | 1.1366           0.9179           1.1792           0.8782           1.3868           1.0955           1.2325           1.1450           0.8527           1.5262           1.3366           2.0045           0.8341           0.8782           1.3170           1.0028           0.9247           0.9045           1.0102           1.0404           1.7045           0.9881           0.9954           1.4602           0.8913   | -0.0015           0.0056           0.           -0.0021           0.0016           -0.0004           0.0017           0.0017           0.0013           0.0014           0.0015           0.0015           0.0015           0.0012           -0.0048           0.0012           -0.0072           0.0012           -0.006           -0.0025           -0.0041           -0.0083           0.0026           0.0021   | 0.0082<br>0.008<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0059<br>0.0128<br>0.0028<br>0.0023<br>0.0074<br>0.0072<br>0.0074<br>0.0072<br>0.0187<br>0.0076<br>0.0151<br>0.0058   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.           -55.           -90.           -90.           -110.           -60.           -80.           -92.           -80.           -97.           -85.           -80.           -100.           -85.           -80.           -100.           -85.           -80.           -159.           -80.           159.           -109.           -1114.           -70.           -87.           -102.           -70.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425<br>424<br>425<br>424<br>425<br>424<br>427<br>428<br>429<br>430<br>431<br>432<br>433<br>434<br>435<br>436<br>437   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800<br>13.1300<br>13.0500<br>13.1800<br>13.1300<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2300<br>13.1000<br>13.2300<br>13.1600<br>13.0600<br>13.0600<br>13.0700<br>13.0700<br>13.0700   | 42.8300<br>42.5500<br>43.0000<br>43.0000<br>42.5500<br>42.7300<br>42.7300<br>42.9000<br>42.7800<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9400<br>42.9400<br>42.9200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9300<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.9400<br>42.940 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70.000<br>70.000<br>55.000<br>45.000<br>55.000<br>65.000<br>90.000<br>50.000<br>46.000<br>46.000<br>46.000<br>46.000<br>65.000<br>71.000<br>65.000<br>71.000<br>65.000<br>71.000<br>65.000<br>71.000<br>65.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.4392<br>0.2657<br>0.2288<br>0.2197<br>0.2693<br>0.2693<br>0.2693<br>0.2654<br>0.2286<br>0.2284<br>0.7066<br>0.2586<br>0.2621<br>0.5313<br>0.2138<br>0.2138<br>0.2138<br>0.2844   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>1.3170<br>1.0028<br>0.9247<br>0.9045<br>1.0102<br>1.0404<br>1.7045<br>0.9881<br>0.9954<br>1.4602<br>0.8913<br>1.0404   | -0.0015           0.0056           0.           -0.0021           0.007           0.0016           -0.0004           0.0017           -0.0016           -0.0004           0.0017           -0.0015           0.0015           0.0015           0.0012           -0.0048           0.00072           0.0012           -0.006           -0.0025           -0.0041           -0.0083           0.0026           0.0004           -0.0032           0.0021           0.0021           0.0024  | 0.0082<br>0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0172<br>0.0055<br>0.0055<br>0.0055<br>0.0059<br>0.0128<br>0.0023<br>0.0074<br>0.0072<br>0.0074<br>0.0072<br>0.0074<br>0.0071<br>0.0076<br>0.0071<br>0.0076<br>0.0058<br>0.0058<br>0.0058  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.         -55.         -90.         -91.         -80.         -92.         -80.         -97.         -88.         -97.         -88.         -97.         -88.         -97.         -88.         -97.         -80.         -100.         -85.         -80.         -159.         -80.         159.         -109.         -114.         -70.         -87.         -102.         -70.         -87.         -102.         -70.         -87.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425<br>426<br>427<br>428<br>425<br>426<br>427<br>428<br>425<br>426<br>427<br>428<br>425<br>430<br>431<br>432<br>433<br>433<br>434<br>435<br>436<br>437  | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800<br>13.1300<br>13.1800<br>13.1300<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.1400<br>13.2100<br>13.1000<br>13.1600<br>13.0600<br>13.0600<br>13.0700<br>13.0800<br>13.0800   | 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  | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.5764<br>0.4513<br>0.5764<br>0.4513<br>0.5764<br>0.4513<br>0.2657<br>0.2081<br>0.2693<br>0.2693<br>0.2844<br>0.7066<br>0.25313<br>0.2138<br>0.2138<br>0.2138<br>0.22844<br>0.2627   | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>1.3170<br>1.0028<br>0.9247<br>0.9045<br>1.0102<br>1.0404<br>1.7045<br>0.9954<br>1.4602<br>0.9954<br>1.4602<br>0.8913<br>1.0404   | 0.0015           0.0056           0.           0.0021           0.007           0.0016           -0.0004           0.0017           0.0007           0.0016           -0.0004           0.0017           -0.004           0.0015           0.0023           -0.0048           0.0005           0.0010           0.0012           -0.006           -0.0025           -0.0041           -0.0026           0.00026           0.00021           0.00021           0.00024           0.00024   | 0.0082<br>0.008<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0059<br>0.0128<br>0.0028<br>0.0028<br>0.0074<br>0.0072<br>0.0074<br>0.0072<br>0.0071<br>0.0076<br>0.0151<br>0.0058<br>0.0082<br>0.0082<br>0.0082   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.         -55.         -90.         -91.         -90.         -110.         -60.         -80.         -92.         -80.         -97.         -85.         -80.         -100.         -85.         -80.         -100.         -85.         -80.         -159.         -80.         159.         -109.         -114.         -70.         -87.         -102.         -70.         -87.         -00.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425<br>426<br>427<br>428<br>429<br>430<br>431<br>432<br>433<br>434<br>435<br>436<br>437<br>438<br>439   | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1300<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.1400<br>13.2100<br>13.1400<br>13.2100<br>13.1000<br>13.1000<br>13.1600<br>13.0600<br>13.0600<br>13.0700<br>13.0700<br>13.0800<br>13.2100   | 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0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.4513<br>0.9528<br>0.4513<br>0.2081<br>0.2081<br>0.2288<br>0.2093<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2657<br>0.2284<br>0.7066<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2621<br>0.5313<br>0.2138<br>0.2138<br>0.2137<br>0.2138<br>0.22844<br>0.2693<br>0.2138<br>0.2137<br>0.2138<br>0.22844<br>0.2575<br>0.2288<br>0.2576<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2573<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2586<br>0.2573<br>0.2573<br>0.2575<br>0.2586<br>0.2586<br>0.2573<br>0.2575<br>0.2586<br>0.2575<br>0.2586<br>0.2575<br>0.2586<br>0.2575<br>0.2575<br>0.2586<br>0.2575<br>0.2586<br>0.2575<br>0.2575<br>0.2575<br>0.2586<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2586<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2586<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.2575<br>0.257 | 1.1366           0.9179           1.1792           0.8782           1.3868           1.0955           1.2325           1.1450           0.8527           1.5262           1.3366           2.0045           0.8341           0.8782           1.3170           1.0028           0.9247           0.9045           1.0102           1.0404           1.7045           0.8981           0.4020           0.8913           1.0404           1.0102  | -0.0015           0.0056           0.           -0.0021           0.007           0.0016           -0.0004           0.0017           0.0015           0.00015           0.0015           0.0015           0.0012           -0.0048           0.00015           0.0012           -0.0012           -0.0012           -0.0025           -0.00641           -0.0025           -0.00241           -0.0032           0.0021           0.0024  | 0.0082<br>0.008<br>0.008<br>0.006<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0059<br>0.0128<br>0.0055<br>0.0059<br>0.0128<br>0.0023<br>0.0074<br>0.0072<br>0.0074<br>0.0072<br>0.0187<br>0.0074<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0076<br>0.0075<br>0.0075<br>0.0075<br>0.0076<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0076<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0076<br>0.0075<br>0.0075<br>0.0075<br>0.0076<br>0.0075<br>0.0075<br>0.0075<br>0.0076<br>0.0075<br>0.0075<br>0.0076<br>0.0075<br>0.0076<br>0.0075<br>0.0075<br>0.0076<br>0.0075<br>0.0077<br>0.0077<br>0.0077<br>0.0077<br>0.0077<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0.0075<br>0 | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.           -55.           -90.           -91.           -80.           -92.           -80.           -97.           -85.           -80.           -100.           -85.           -80.           -100.           -85.           -80.           -100.           -85.           -80.           -100.           -85.           -80.           -159.           -80.           159.           -109.           -114.           -70.           -87.           -90.           -70.           -87.           -90.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 413<br>414<br>415<br>416<br>417<br>418<br>419<br>420<br>421<br>422<br>423<br>424<br>425<br>426<br>427<br>428<br>429<br>430<br>431<br>432<br>433<br>434<br>435<br>436<br>437<br>438<br>439<br>440  | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1900<br>13.1800<br>13.1800<br>13.1300<br>13.1300<br>13.1300<br>13.1400<br>13.2100<br>13.2100<br>13.1400<br>13.2100<br>13.1400<br>13.2100<br>13.1000<br>13.1000<br>13.0600<br>13.0600<br>13.0600<br>13.0700<br>13.0700<br>13.0700<br>13.2100<br>13.2100   | 42.8300<br>42.5500<br>43.0000<br>42.5500<br>43.0000<br>42.6600<br>42.7300<br>42.9000<br>42.7800<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9400<br>42.9400<br>42.9200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.9400<br>43.0300<br>42.9400<br>43.0300<br>42.7500<br>43.0300   | 7.0000<br>7.0000<br>2.0000<br>9.0000<br>9.0000<br>9.0000<br>7.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>1.0000<br>5.0000<br>1.0000<br>3.0000<br>8.0000<br>8.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000<br>5.0000   | 10.0000           110.0000           165.0000           165.0000           165.0000           180.0000           185.0000           138.0000           135.0000           135.0000           135.0000           135.0000           151.0000           151.0000           175.0000           175.0000           190.0000           143.0000           144.0000           170.0000           155.0000           161.0000           161.0000           161.0000           161.0000           161.0000           161.0000           161.0000           161.0000           161.0000           161.0000           161.0000           161.0000  | 70.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>50.000<br>50.000<br>50.000<br>60.000<br>65.000<br>65.000<br>65.000<br>71.000<br>65.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000   | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.4392<br>0.2081<br>0.2657<br>0.2288<br>0.2197<br>0.2693<br>0.2693<br>0.2621<br>0.5313<br>0.2138<br>0.2844<br>0.2693<br>0.2863<br>0.2138<br>0.2864<br>0.2693<br>0.2138<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2792<br>0.2873<br>0.2884<br>0.2693<br>0.2884<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2792<br>0.2884<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2864<br>0.2693<br>0.2884<br>0.2693<br>0.2884<br>0.2693<br>0.2693<br>0.2884<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2718<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2884<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2792<br>0.2693<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792<br>0.2792 | 1.1366           0.9179           1.1792           0.8782           1.3868           1.0955           1.2325           1.1450           0.8527           1.5262           1.3366           2.0045           0.8341           0.8782           1.3028           0.9247           0.9045           1.0102           1.0404           1.7045           0.9881           0.9954           1.4602           0.8913           1.0404           1.0102           0.8098   | -0.0015           0.0056           0.           -0.0021           0.007           0.0016           -0.0004           0.0017           -0.0015           0.0015           0.0015           0.00123           -0.0048           0.0005           0.0012           -0.0048           0.00023           -0.0048           0.00023           -0.0048           0.0004           -0.0025           -0.0041           -0.0032           0.0026           0.00021           0.00024           0.00024           0.00043           0.00044           0.00043                           | 0.0082<br>0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0172<br>0.0055<br>0.0059<br>0.0128<br>0.0055<br>0.0059<br>0.0128<br>0.0028<br>0.0028<br>0.0023<br>0.0074<br>0.0072<br>0.0151<br>0.0071<br>0.0076<br>0.0151<br>0.0078<br>0.0082<br>0.0078<br>0.0029  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.         -55.         -90.         -91.         -80.         -92.         -80.         -97.         -85.         -80.         -100.         -85.         -80.         -100.         -159.         -80.         159.         -109.         -114.         -70.         -87.         -102.         -70.         -87.         -90.         146.   |
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12.7700<br>13.2500<br>13.1500<br>13.1500<br>13.1600<br>13.1800<br>13.1800<br>13.1300<br>13.0500<br>13.1800<br>13.1800<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.2100<br>13.2000<br>13.0600<br>13.0600<br>13.0600<br>13.0600<br>13.0600<br>13.0700<br>13.0700<br>13.0700<br>13.1100<br>13.1100<br>13.1100                                  | 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0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.393<br>0.1971<br>0.5764<br>0.4513<br>0.5764<br>0.4513<br>0.5764<br>0.4513<br>0.2576<br>0.2081<br>0.4392<br>0.2657<br>0.2288<br>0.2197<br>0.2693<br>0.2844<br>0.7066<br>0.2586<br>0.2586<br>0.2621<br>0.5313<br>0.2138<br>0.2844<br>0.2693<br>0.2138<br>0.2844<br>0.2693<br>0.2138<br>0.2844<br>0.2693<br>0.2138<br>0.2844<br>0.2693<br>0.2138<br>0.2844<br>0.2693<br>0.2138<br>0.2844<br>0.2693<br>0.2138<br>0.2844<br>0.2693<br>0.2138<br>0.2844<br>0.2693<br>0.2138<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.1792<br>0.6339<br>0.5383<br>0.5383<br>0.5392<br>0.5392<br>0.5392<br>0.5392<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2738<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2738<br>0.2738<br>0.2838<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2844<br>0.2693<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2738<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.2758<br>0.27587<br>0.2758<br>0.2758<br>0.2758<br>0.27587<br>0.2758<br>0.2758<br>0.2758<br>0.275 | 1.1366<br>0.9179<br>1.1792<br>0.8782<br>1.3868<br>1.0955<br>1.2325<br>1.1450<br>0.8527<br>1.5262<br>1.3366<br>2.0045<br>0.8341<br>0.8782<br>1.3170<br>1.0028<br>0.9247<br>0.9045<br>1.0102<br>1.0404<br>1.7045<br>0.9954<br>1.4602<br>0.9954<br>1.4602<br>0.9954<br>1.4602<br>0.8913<br>1.0404<br>1.0102   | 0.0015           0.0056           0.           0.0021           0.007           0.0016           -0.0004           0.0017           0.0015           0.0023           -0.0048           0.0005           0.0015           0.0015           0.0023           -0.0048           0.00012           -0.0041           0.0025           -0.0041           -0.0025           -0.0041           -0.0026           0.0026           0.0021           -0.0024           -0.0032           0.0024           -0.0032           0.0024           0.0024           0.0024           0.0024 | 0.0082<br>0.0082<br>0.008<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0055<br>0.0059<br>0.0128<br>0.0055<br>0.0059<br>0.0128<br>0.0028<br>0.0072<br>0.0074<br>0.0072<br>0.0074<br>0.0072<br>0.0071<br>0.0076<br>0.0151<br>0.0058<br>0.0082<br>0.0078<br>-0.0029<br>0.0178<br>-0.0029<br>0.0178  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.         -55.         -90.         -91.         -90.         -110.         -60.         -80.         -97.         -85.         -80.         -97.         -85.         -80.         -100.         -85.         -80.         -159.         -80.         -159.         -80.         -159.         -80.         -159.         -80.         -159.         -80.         -159.         -80.         -159.         -80.         -159.         -87.         -102.         -70.         -87.         -90.         146.         -75.   |
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12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1800<br>13.1300<br>13.1400<br>13.2100<br>13.2100<br>13.2100<br>13.1400<br>13.2100<br>13.1000<br>13.0600<br>13.0600<br>13.0600<br>13.0600<br>13.0700<br>13.1500<br>13.2100<br>13.1000   | 42.8300<br>42.8300<br>43.0000<br>42.5500<br>43.0000<br>42.6600<br>42.7300<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.8200<br>42.8200<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>43.0300<br>43.0300<br>43.0300  | 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| 140.0000           110.0000           165.0000           165.0000           160.0000           185.0000           185.0000           185.0000           135.0000           135.0000           135.0000           135.0000           150.0000           151.0000           155.0000           165.0000           175.0000           105.0000           143.0000           143.0000           143.0000           144.0000           175.0000           161.0000           161.0000           141.0000           175.0000           185.0000           185.0000   | 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  | 0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3933<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.4513<br>0.9528<br>0.4392<br>0.2081<br>0.2288<br>0.2197<br>0.2657<br>0.2288<br>0.2197<br>0.2653<br>0.2288<br>0.2197<br>0.2653<br>0.2284<br>0.7066<br>0.2586<br>0.2586<br>0.2621<br>0.5313<br>0.2138<br>0.2138<br>0.2138<br>0.2138<br>0.2138<br>0.2138<br>0.2138<br>0.2138<br>0.2138<br>0.2138<br>0.2138<br>0.2138<br>0.2633<br>0.1792<br>0.6339<br>0.1697   | 1.1366           0.9179           1.1792           0.8782           1.3868           1.0955           1.2325           1.1450           0.8527           1.5262           1.3366           2.0045           0.8341           0.8782           1.3170           1.0028           0.9247           0.9045           1.0102           1.0404           1.7045           0.8913           1.0404           1.0102           0.8913           1.0404           1.0102           0.8981           0.6098           1.6069           0.7863 | -0.0015           0.0056           0.           -0.0021           0.0016           -0.0004           0.0017           -0.0004           0.0015           0.0015           0.0015           0.00123           -0.0048           0.0001           0.           -0.0012           -0.0012           -0.0012           -0.0061           -0.0062           -0.0025           -0.0041           -0.0032           0.0024           0.0024           0.0024           0.0048           0.0048   | 0.0082<br>0.0082<br>0.008<br>0.0006<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0129<br>0.0272<br>0.0272<br>0.0272<br>0.0055<br>0.0059<br>0.0128<br>0.0055<br>0.0059<br>0.0128<br>0.0023<br>0.0074<br>0.0072<br>0.0187<br>0.0074<br>0.0072<br>0.0187<br>0.0075<br>0.0075<br>0.0076<br>0.0075<br>0.0058<br>0.0078<br>0.0029<br>0.0029<br>0.0029<br>0.0028  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.           -55.           -90.           -91.           -80.           -92.           -80.           -97.           -85.           -80.           -100.           -85.           -80.           -100.           -85.           -80.           -100.           -85.           -80.           -100.           -85.           -80.           -159.           -80.           159.           -109.           -114.           -70.           -87.           -90.           146.           -75.           -35.   |
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439         440         441         442 | 12.7700<br>13.2500<br>13.1500<br>13.1600<br>13.1800<br>13.1800<br>13.1800<br>13.1300<br>13.1300<br>13.1300<br>13.1400<br>13.2100<br>13.2100<br>13.1400<br>13.2100<br>13.1400<br>13.2100<br>13.1000<br>13.0600<br>13.0600<br>13.0600<br>13.0600<br>13.0600<br>13.1500<br>13.0700<br>13.1500<br>13.1000<br>13.1100<br>13.1300<br>13.1000<br>13.2100 | 42.8300<br>42.5500<br>43.0000<br>42.5500<br>43.0000<br>42.6600<br>42.7300<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9000<br>42.9400<br>42.9400<br>42.9400<br>42.9200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.8200<br>42.9500<br>42.9500<br>42.9500<br>42.9500<br>42.9400<br>43.0300<br>42.9400<br>43.0300<br>42.7500<br>43.0300<br>42.7500<br>43.0300<br>42.7700  | 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70.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>50.000<br>50.000<br>50.000<br>60.000<br>65.000<br>65.000<br>71.000<br>65.000<br>71.000<br>65.000<br>71.000<br>65.000<br>75.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>55.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.000<br>50.0000<br>50.0000<br>50.0000<br>50.0000<br>50.0000<br>50.0000<br>50.0000<br>50.0000<br>50.0000<br>50.00000<br>50.00000<br>50.00000000 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0.3347<br>0.2257<br>0.3583<br>0.2081<br>0.4831<br>0.3128<br>0.3887<br>0.3393<br>0.1971<br>0.5764<br>0.4513<br>0.9528<br>0.1892<br>0.2081<br>0.4392<br>0.2657<br>0.2288<br>0.2197<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2621<br>0.5313<br>0.2138<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2693<br>0.2697<br>0.2693<br>0.2693<br>0.2697<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002<br>0.3002 | 1.1366           0.9179           1.1792           0.8782           1.3868           1.0955           1.2325           1.1450           0.8527           1.5262           1.3366           2.0045           0.8341           0.8782           1.3170           1.0028           0.9247           0.9045           1.0102           1.0404           1.7045           0.9881           0.9954           1.4602           0.8098           1.0404           1.0102           0.8098           1.0609           0.7863           1.1282 | -0.0015           0.0056           0.           -0.0021           0.007           0.0016           -0.0004           0.0017           -0.0016           -0.0004           0.0017           -0.0015           0.0015           0.0023           -0.0048           0.00012           -0.0012           -0.0023           -0.0023           -0.0048           0.0026           0.00041           -0.0032           0.0021           0.0004           0.           0.0004           0.           -0.0043           0.0043           0.0044           0.0045                       | 0.0082<br>0.0082<br>0.008<br>0.0066<br>0.0104<br>0.0057<br>0.0121<br>0.0089<br>0.0113<br>0.0097<br>0.0057<br>0.0167<br>0.0172<br>0.0055<br>0.0059<br>0.0128<br>0.0055<br>0.0059<br>0.0128<br>0.0065<br>-0.0023<br>0.0074<br>0.0072<br>0.0151<br>0.0071<br>0.0076<br>0.0151<br>0.0078<br>0.0078<br>0.0028<br>0.0078<br>-0.0029<br>0.0178<br>0.0028<br>0.007   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.                        | -100.         -55.         -90.         -91.         -80.         -92.         -80.         -97.         -85.         -80.         -100.         -85.         -80.         -100.         -159.         -80.         159.         -109.         -1114.         -70.         -87.         -102.         -70.         -87.         -90.         146.         -75.         -355.         -133.   |

| Dislocation  | 444  | 13.0700  | 43.0100  | 6.0000   | 145.0000   | 55.000   | 0.2883   | 1.0481   | 0.   | 0.0084  | 0.  | -90.   |
|--|--|--|--|--|--|--|--|--|--|---|---|--|
| Dislocation  | 445  | 13,1900  | 42.8600  | 4.0000   | 66.0000  | 72.000   | 0.2383   | 0.9454   | -0.0062  | -0.003  | 0.  | 154.   |
| Dislocation  | 446  | 13 2200  | 42 6400  | 8 0000   | 180,0000   | 73 000   | 0 2962   | 1.0637   | -0.0073  | 0.0046  | 0   | -147 9999  |
| Dislocation  | 447  | 13 1600  | 42 9500  | 9,0000   | 168,0000   | 61,000   | 0.2657   | 1 0028   | -0.0008  | 0.0077  | 0   | -96  |
| Dislocation  | 1/18   | 9 7900   | 44.4300  | 4,0000   | 1/3 0000   | 56,000   | 0.2037   | 1.0020   | -0.001   | 0.0079  | 0.  | -97  |
| Dislocation  | 110  | 13 0800  | 43.0100  | 5.0000   | 150,0000   | 55,000   | 0.2750   | 0.938/   | 0.0018   | 0.0066  | 0   | -75  |
| Dislocation  | 450  | 13.0800  | 43.0200  | 4,0000   | 135,0000   | 50.000   | 0.2331   | 0.8527   | 0.0015   | 0.0057  | 0.  | -75.   |
| Dislocation  | 451  | 13,1300  | 43.0200  | 2,0000   | 141 0000   | 46.000   | 0.1744   | 0.7980   | 0.0005   | 0.005   | 0.  | 100  |
| Dislocation  | 451  | 12 1200  | 43.0100  | 2.0000<br>E.0000   | 141.0000   | 40.000   | 0.1744   | 1 2509   | -0.0009  | 0.005   | 0.  | -100.  |
| Dislocation  | 452  | 13.1200  | 42.6400  | 3.0000   | 134.0000   | 55.000   | 0.3994   | 1.2308   | -0.0000  | 0.0110  | 0.  | -95.   |
| Dislocation  | 455  | 13.1500  | 42.9500  | 2.0000   | 170.0000   | 00.000   | 0.2657   | 0.0150   | 0.0055   | 0.0055  | 0.  | -45.   |
| Dislocation  | 454  | 13.1000  | 43.0500  | 3.0000   | 195.0000   | 90.000   | 0.1816   | 0.8158   | 0.0051   | 0.0014  | 0.  | -15.   |
| Dislocation  | 455  | 13.1000  | 43.0500  | 3.0000   | 190.0000   | 85.000   | 0.2621   | 0.9954   | 0.0075   | -0.0013   | 0.  | 10.  |
| Dislocation  | 456  | 13.2800  | 42.7200  | 10.0000  | 142.0000   | 76.000   | 0.2693   | 1.0102   | -0.0028  | 0.0073  | 0.  | -111.  |
| Dislocation  | 457  | 13.0800  | 43.0200  | 5.0000   | 150.0000   | 55.000   | 0.2551   | 0.9808   | 0.0025   | 0.007   | 0.  | -70.   |
| Dislocation  | 458  | 13.1500  | 42.9900  | 2.0000   | 160.0000   | 55.000   | 0.1607   | 0.7635   | 0.0012   | 0.0045  | 0.  | -/5.   |
| Dislocation  | 459  | 12.9400  | 42.8600  | 3.0000   | 80.0000  | 90.000   | 0.2483   | 0.9665   | -0.0065  | 0.003   | 0.  | -155.  |
| Dislocation  | 460  | 13.2100  | 42.8000  | 5.0000   | 140.0000   | 55.000   | 0.3534   | 1.1706   | 0.0043   | 0.0093  | 0.  | -65.   |
| Dislocation  | 461  | 13.0700  | 43.0100  | 5.0000   | 155.0000   | 65.000   | 0.2517   | 0.9736   | 0.0019   | 0.0071  | 0.  | -/5.   |
| Dislocation  | 462  | 13.0700  | 43.0100  | 3.0000   | 155.0000   | 55.000   | 0.2449   | 0.9594   | 0.0046   | 0.0054  | 0.  | -50.   |
| Dislocation  | 463  | 13.0800  | 43.0200  | 5.0000   | 145.0000   | 50.000   | 0.4765   | 1.3766   | 0.0047   | 0.013   | 0.  | -70.   |
| Dislocation  | 464  | 13.0800  | 43.0200  | 5.0000   | 143.0000   | 45.000   | 0.5241   | 1.4494   | -0.0013  | 0.0152  | 0.  | -95.   |
| Dislocation  | 465  | 13.0700  | 43.0200  | 4.0000   | 154.0000   | 47.000   | 0.2197   | 0.9045   | -0.0017  | 0.0062  | 0.  | -105.  |
| Dislocation  | 466  | 13.0700  | 43.0200  | 4.0000   | 130.0000   | 55.000   | 0.2025   | 0.8654   | -0.0005  | 0.0059  | 0.  | -95.   |
| Dislocation  | 467  | 13.0700  | 43.0200  | 5.0000   | 131.0000   | 46.000   | 0.6877   | 1.6796   | -0.0035  | 0.0197  | 0.  | -100.  |
| Dislocation  | 468  | 13.2200  | 42.6500  | 8.0000   | 129.0000   | 76.000   | 0.2657   | 1.0028   | -0.0069  | -0.0034   | 0.  | 154.   |
| Dislocation  | 469  | 12.7600  | 42.8100  | 5.0000   | 100.0000   | 65.000   | 0.2730   | 1.0177   | 0.004  | 0.0069  | 0.  | -60.   |
| Dislocation  | 470  | 13.0700  | 43.0200  | 5.0000   | 136.0000   | 46.000   | 0.4897   | 1.3970   | -0.0025  | 0.014   | 0.  | -100.  |
| Dislocation  | 471  | 13.0700  | 43.0200  | 5.0000   | 143.0000   | 61.000   | 0.3783   | 1.2145   | -0.0015  | 0.0109  | 0.  | -98.   |
| Dislocation  | 472  | 13.0700  | 43.0200  | 5.0000   | 155.0000   | 50.000   | 0.4104   | 1.2694   | 0.0041   | 0.0112  | 0.  | -70.   |
| Dislocation  | 473  | 12.7800  | 42.8100  | 5.0000   | 85.0000  | 50.000   | 0.3440   | 1.1535   | 0.0017   | 0.0098  | 0.  | -80.   |
| Dislocation  | 474  | 13.2400  | 42.7600  | 7.0000   | 155.0000   | 55.000   | 0.4104   | 1.2694   | 0.001  | 0.0119  | 0.  | -85.   |
| Dislocation  | 475  | 13.1200  | 43.0200  | 2.0000   | 155.0000   | 50.000   | 0.2320   | 0.9315   | 0.0012   | 0.0066  | 0.  | -80.   |
| Dislocation  | 476  | 13.2900  | 42.5300  | 7.0000   | 154.0000   | 71.000   | 1.3201   | 2.3922   | -0.0033  | 0.0382  | 0.  | -95.   |
| Dislocation  | 477  | 13.2500  | 42.7500  | 9.0000   | 164.0000   | 86.000   | 0.2227   | 0.9112   | -0.0027  | 0.0059  | 0.  | -115.  |
| Dislocation  | 478  | 13.0800  | 43.0000  | 5.0000   | 148.0000   | 56.000   | 0.7878   | 1.8080   | -0.0028  | 0.0227  | 0.  | -97.   |
| Dislocation  | 479  | 13.0700  | 43.0400  | 6.0000   | 167.0000   | 56.000   | 0.2657   | 1.0028   | 0.0009   | 0.0077  | 0.  | -83.   |
| Dislocation  | 480  | 13.0700  | 43.0400  | 6.0000   | 145.0000   | 50.000   | 0.2320   | 0.9315   | 0.   | 0.0067  | 0.  | -90.   |
| Dislocation  | 481  | 13.1400  | 43.0100  | 2.0000   | 147.0000   | 51.000   | 0.2109   | 0.8847   | -0.0009  | 0.0061  | 0.  | -98.   |
| Dislocation  | 482  | 13.0800  | 42.9900  | 5.0000   | 150.0000   | 60.000   | 0.2730   | 1.0177   | 0.0007   | 0.0079  | 0.  | -85.   |
| Dislocation  | 483  | 13.0600  | 43.0100  | 5.0000   | 127.0000   | 62.000   | 0.2586   | 0.9881   | -0.0014  | 0.0074  | 0.  | -101.  |
| Dislocation  | 464  | 13.1000  | 43.0400  | 5.0000   | 190.0000   | 90.000   | 0.3170   | 1.1056   | 0.0091   | 0.0016  | 0.  | -10.   |
| Dislocation  | 465  | 15.2900  | 42.5600  | 6.0000   | 108,0000   | 55.000   | 0.2621   | 0.9954   | 0.0007   | 0.0076  | 0.  | -00.   |
| Dislocation  | 480  | 13.8200  | 40.5400  | T0.0000  | 108.0000   | 71,000   | 0.5080   | 1.5150   | -0.0064  | 0.0152  | 0.  | -115.  |
| Dislocation  | 487  | 13.1600  | 42.8800  | 5.0000   | 134.0000   | 71.000   | 0.1792   | 0.8098   | -0.0031  | 0.0042  | 0.  | -120.  |
| Dislocation  | 400  | 12.0700  | 42.8300  | T.0000   | 97.0000  | 54.000   | 0.1971   | 0.8327   | -0.0034  | 0.0046  | 0.  | -127.  |
| Dislocation  | 409  | 13.0700  | 43.0100  | 3.0000   | 142.0000   | ST.000   | 0.1918   | 0.8402   | -0.0008  | 0.0033  | 0.  | -90.<br>4E   |
| Dislocation  | 490  | 12,0900  | 43.0300  | 3.0000   | 00.0000  | 60.000   | 0.1944   | 0.8404   | 0.004  | 0.004   | 0.  | -45.   |
| Dislocation  | 491  | 13.2200  | 42.8700  | 7.0000   | 90.0000  | 66.000   | 0.1998   | 0.0390   | 0.0000   | 0.0038  | 0.  | -90.   |
| Dislocation  | 492  | 13.2800  | 42.3000  | 7,0000   | 145,0000   | 70,000   | 0.2003   | 1.0715   | -0.0009  | 0.0074  | 0.  | -57.   |
| Dislocation  | 493  | 13.0300  | 42.8400  | 5.0000   | 145.0000   | 65.000   | 0.3003   | 1.0715   | 0.0077   | 0.0087  | 0.  | -50.   |
| Dislocation  | 494  | 10.5000  | 43.0200  | 5.0000   | 170,0000   | 50,000   | 0.5752   | 1,2030   | 0.0077   | 0.0077  | 0.  | -45.<br>6E   |
| Dislocation  | 495  | 13 0700  | 43 0200  | 5.0000   | 123 0000   | 48.000   | 0.0002   | 1.0429   | 0.0001   | 0.0174  | 0.  | -05.   |
| Dislocation  | 490  | 13.0700  | 43.0200  | 1 0000   | 1// 0000   | 5/ 000   | 0.3003   | 0.00/4   | -0.0029  | 0.0065  | 0.  | -105.  |
| Dislocation  | 497  | 13.0700  | 43.0200  | 3 0000   | 205.0000   | 65.000   | 0.2197   | 1 9320   | 0.0022   | 0.000   | 0.  | -70  |
| Dislocation  | 100  | 14 7300  | 38 0600  | 7 0000   | 50,0000  | 90.000   | 0.3202   | 1 1/150  | 0.0057   | -0.0245   | 0.  | 55   |
| Dislocation  | 500  | 13 0/00  | 12 7400  | 8 0000   | 150,0000   | 70.000   | 0.3593   | 1 1967   | 0.0007   | 0.0001  | 0.  | -85  |
| Dislocation  | 500  | 13.0400  | 42.7400  | 5,0000   | 159 0000   | 71.000   | 0.3681   | 1.1.507  | 0.0009   | 0.0106  | 0.  | -95  |
| Disiocation  | 501  | 13.0700  | 72.7900  | 5.0000   | 1.77.0000  |  |  | 11967  |  |   | · · ·   | JJ.  |
| Dislocation  | 502  | 13 3000  | 42 6500  | 3 0000   | 154 0000   | 60.000   | 0.5081   | 1.1967   | -0.0009  | 0.0158  | 0   | -93  |
| Dislocation  | 502  | 13.3000  | 42.6500  | 3.0000   | 154.0000   | 60.000   | 0.5459   | 1.1967<br>1.4818<br>1.0637   | -0.0003  | 0.0158  | 0.<br>0   | -93.<br>-85  |
| Dislocation<br>Dislocation   | 502<br>503<br>504  | 13.3000<br>13.0700<br>13.0600  | 42.6500<br>43.0200<br>43.0200  | 3.0000<br>5.0000<br>5.0000   | 154.0000<br>150.0000<br>155.0000   | 60.000<br>55.000<br>55.000   | 0.5459<br>0.2962<br>0.4104   | 1.1967<br>1.4818<br>1.0637<br>1.2694   | -0.0003<br>-0.0008<br>0.0007<br>0.0031   | 0.0158<br>0.0086<br>0.0115  | 0.<br>0.<br>0.  | -93.<br>-85.<br>-75.   |
| Dislocation<br>Dislocation<br>Dislocation  | 502<br>503<br>504<br>505   | 13.3000<br>13.0700<br>13.0600<br>13.0600   | 42.6500<br>43.0200<br>43.0200<br>43.0200   | 3.0000<br>5.0000<br>5.0000<br>5.0000   | 154.0000<br>150.0000<br>155.0000<br>160.0000   | 60.000<br>55.000<br>55.000<br>60.000   | 0.5459<br>0.2962<br>0.4104<br>0.3085   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874   | -0.0003<br>-0.0008<br>0.0007<br>0.0031<br>0.0023   | 0.0158<br>0.0086<br>0.0115<br>0.0087  | 0.<br>0.<br>0.  | -93.<br>-85.<br>-75.<br>-75.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 502<br>503<br>504<br>505<br>506  | 13.3000<br>13.0700<br>13.0600<br>13.0600<br>13,2700  | 42.6500<br>43.0200<br>43.0200<br>43.0200<br>42.5600  | 3.0000<br>5.0000<br>5.0000<br>5.0000<br>6.0000   | 154.0000<br>150.0000<br>155.0000<br>160.0000<br>145.0000   | 60.000<br>55.000<br>55.000<br>60.000<br>50.000   | 0.5081<br>0.5459<br>0.2962<br>0.4104<br>0.3085<br>0.2730   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874<br>1.0177   | -0.0003<br>-0.0008<br>0.0007<br>0.0031<br>0.0023<br>0.0007   | 0.0158<br>0.0086<br>0.0115<br>0.0087<br>0.0079  | 0.<br>0.<br>0.<br>0.  | -93.<br>-85.<br>-75.<br>-75.<br>-85.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 502<br>503<br>504<br>505<br>506<br>507   | 13.3000<br>13.0700<br>13.0600<br>13.0600<br>13.2700<br>13.1600   | 42.6500<br>43.0200<br>43.0200<br>43.0200<br>42.5600<br>42.9300   | 3.0000<br>5.0000<br>5.0000<br>6.0000<br>2.0000   | 154.0000<br>150.0000<br>155.0000<br>160.0000<br>145.0000<br>104.0000   | 60.000<br>55.000<br>55.000<br>60.000<br>50.000<br>60.000   | 0.5459<br>0.2962<br>0.4104<br>0.3085<br>0.2730<br>0.2320   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874<br>1.0177<br>0.9315   | -0.0009<br>-0.0008<br>0.0007<br>0.0031<br>0.0023<br>0.0007<br>-0.0055  | 0.0158<br>0.0086<br>0.0115<br>0.0087<br>0.0079<br>0.0039  | 0.<br>0.<br>0.<br>0.<br>0.  | -93.<br>-85.<br>-75.<br>-75.<br>-85.<br>-145.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 502<br>503<br>504<br>505<br>506<br>507<br>508  | 13.3000<br>13.0700<br>13.0600<br>13.2700<br>13.1600<br>13.1600   | 42.6500<br>43.0200<br>43.0200<br>43.0200<br>42.5600<br>42.9300<br>42.9200  | 3.0000<br>5.0000<br>5.0000<br>6.0000<br>2.0000<br>2.0000   | 154.0000<br>150.0000<br>155.0000<br>160.0000<br>145.0000<br>104.0000<br>175.0000   | 60.000<br>55.000<br>55.000<br>60.000<br>50.000<br>60.000<br>70.000   | 0.5459<br>0.2962<br>0.4104<br>0.3085<br>0.2730<br>0.2320<br>0.3302   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874<br>1.0177<br>0.9315<br>1.1282   | -0.0003<br>-0.0008<br>0.0007<br>0.0031<br>0.0023<br>0.0007<br>-0.0055<br>0.0055  | 0.0158<br>0.0086<br>0.0115<br>0.0087<br>0.0079<br>0.0039<br>0.0079  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -93.<br>-85.<br>-75.<br>-75.<br>-85.<br>-145.<br>-55.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 502<br>503<br>504<br>505<br>506<br>507<br>508<br>509   | 13.3000<br>13.0700<br>13.0600<br>13.2700<br>13.1600<br>13.1600<br>13.2000  | 42.6500<br>43.0200<br>43.0200<br>42.5600<br>42.9300<br>42.9200<br>42.9300  | 3.0000<br>5.0000<br>5.0000<br>6.0000<br>2.0000<br>2.0000<br>2.0000   | 154.0000<br>150.0000<br>155.0000<br>160.0000<br>145.0000<br>104.0000<br>175.0000<br>170.0000   | 60.000<br>55.000<br>55.000<br>60.000<br>60.000<br>60.000<br>70.000<br>55.000   | 0.5459<br>0.2962<br>0.4104<br>0.3085<br>0.2730<br>0.2320<br>0.3302<br>0.2805   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874<br>1.0177<br>0.9315<br>1.1282<br>1.0328   | -0.0003<br>-0.0008<br>0.0007<br>0.0031<br>0.0023<br>0.0007<br>-0.0055<br>0.0055<br>0.0041  | 0.0158<br>0.0086<br>0.0115<br>0.0087<br>0.0079<br>0.0039<br>0.0079<br>0.0071  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -93.<br>-85.<br>-75.<br>-75.<br>-85.<br>-145.<br>-55.<br>-60.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 502<br>503<br>504<br>505<br>506<br>507<br>508<br>509<br>510  | 13.3000<br>13.0700<br>13.0600<br>13.2700<br>13.1600<br>13.1600<br>13.2000<br>13.2000   | 42.6500<br>43.0200<br>43.0200<br>42.5600<br>42.9300<br>42.9200<br>42.9300<br>42.9300<br>42.9200  | 3.0000<br>5.0000<br>5.0000<br>6.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000   | 154.0000<br>150.0000<br>155.0000<br>145.0000<br>145.0000<br>175.0000<br>175.0000<br>175.0000   | 71.000<br>60.000<br>55.000<br>60.000<br>50.000<br>60.000<br>70.000<br>55.000<br>70.000   | 0.5081<br>0.5459<br>0.2962<br>0.4104<br>0.3085<br>0.2730<br>0.2320<br>0.2320<br>0.3302<br>0.2805<br>0.2138   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874<br>1.0177<br>0.9315<br>1.1282<br>1.0328<br>0.8913   | -0.0003<br>-0.0008<br>0.0007<br>0.0031<br>0.0023<br>0.0007<br>-0.0055<br>0.0055<br>0.0041<br>0.0051  | 0.0158<br>0.0086<br>0.0115<br>0.0087<br>0.0079<br>0.0039<br>0.0079<br>0.0071<br>0.0036  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -93.<br>-85.<br>-75.<br>-75.<br>-85.<br>-145.<br>-55.<br>-60.<br>-35.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation  | 502<br>503<br>504<br>505<br>506<br>507<br>508<br>509<br>510<br>511   | 13.3000<br>13.0700<br>13.0600<br>13.2700<br>13.1600<br>13.1600<br>13.2000<br>13.1700<br>13.1500  | 42.6500<br>43.0200<br>43.0200<br>42.5600<br>42.9300<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9200   | 3.0000<br>5.0000<br>5.0000<br>6.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>6.0000   | 154.0000<br>150.0000<br>155.0000<br>145.0000<br>145.0000<br>175.0000<br>170.0000<br>175.0000<br>145.0000   | 71.000<br>60.000<br>55.000<br>60.000<br>50.000<br>60.000<br>70.000<br>55.000<br>70.000<br>53.000   | 0.5081<br>0.2962<br>0.4104<br>0.3085<br>0.2730<br>0.2320<br>0.3302<br>0.2805<br>0.2805<br>0.2138<br>0.2768   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874<br>1.0177<br>0.9315<br>1.1282<br>1.0328<br>0.8913<br>1.0252   | -0.0009<br>-0.0008<br>0.0007<br>0.0031<br>0.0023<br>0.0007<br>-0.0055<br>0.0055<br>0.0055<br>0.0051<br>-0.0022   | 0.0158<br>0.0086<br>0.0115<br>0.0087<br>0.0079<br>0.0039<br>0.0079<br>0.0071<br>0.0036<br>0.0077  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -93.<br>-85.<br>-75.<br>-75.<br>-85.<br>-145.<br>-55.<br>-60.<br>-35.<br>-106.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 502<br>503<br>504<br>505<br>506<br>507<br>508<br>509<br>510<br>511<br>512  | 13.3000<br>13.0700<br>13.0600<br>13.0600<br>13.2700<br>13.1600<br>13.1600<br>13.2000<br>13.1700<br>13.1500<br>13.2000  | 42.6500<br>43.0200<br>43.0200<br>42.5600<br>42.9300<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9200   | 3.0000<br>5.0000<br>5.0000<br>6.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000   | 154.0000<br>150.0000<br>155.0000<br>160.0000<br>145.0000<br>175.0000<br>175.0000<br>175.0000<br>145.0000<br>145.0000   | 71.000<br>60.000<br>55.000<br>55.000<br>60.000<br>50.000<br>60.000<br>70.000<br>55.000<br>70.000<br>53.000<br>48.000   | 0.5459<br>0.2962<br>0.4104<br>0.3085<br>0.2730<br>0.2320<br>0.3302<br>0.2305<br>0.2138<br>0.2768<br>0.2768   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874<br>1.0177<br>0.9315<br>1.1282<br>1.0328<br>0.8913<br>1.0252<br>1.2145   | -0.0009<br>-0.0008<br>0.0007<br>0.0031<br>0.0023<br>0.0007<br>-0.0055<br>0.0055<br>0.0041<br>0.0051<br>-0.0022<br>-0.0036  | 0.0158<br>0.0086<br>0.0115<br>0.0087<br>0.0079<br>0.0039<br>0.0079<br>0.0071<br>0.0036<br>0.0077<br>0.0104  | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -93.<br>-85.<br>-75.<br>-85.<br>-145.<br>-55.<br>-60.<br>-35.<br>-106.<br>-109.  |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 502<br>503<br>504<br>505<br>506<br>507<br>508<br>509<br>510<br>511<br>511<br>512<br>513  | 13.3000<br>13.0700<br>13.0600<br>13.2700<br>13.1600<br>13.1600<br>13.1600<br>13.2000<br>13.1700<br>13.1500<br>13.2000<br>12.7500   | 42.6500<br>43.0200<br>43.0200<br>42.5600<br>42.9300<br>42.9200<br>42.9200<br>42.9200<br>42.7800<br>42.9200<br>42.9200<br>42.8000   | 3.0000<br>5.0000<br>5.0000<br>6.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>6.0000<br>2.0000<br>4.0000   | 154.0000<br>150.0000<br>155.0000<br>145.0000<br>145.0000<br>175.0000<br>175.0000<br>175.0000<br>143.0000<br>143.0000<br>72.0000  | 71.000<br>60.000<br>55.000<br>55.000<br>60.000<br>50.000<br>70.000<br>55.000<br>70.000<br>53.000<br>48.000<br>85.000   | 0.5031<br>0.5459<br>0.2962<br>0.4104<br>0.3085<br>0.2730<br>0.2320<br>0.3302<br>0.2805<br>0.2138<br>0.2768<br>0.3783<br>0.3783<br>0.7360   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874<br>1.0177<br>0.9315<br>1.1282<br>1.0328<br>0.8913<br>1.0252<br>1.2145<br>1.7426   | -0.0009<br>-0.0008<br>0.0007<br>0.0031<br>0.0023<br>0.0007<br>-0.0055<br>0.0055<br>0.0041<br>0.0051<br>-0.0022<br>-0.0036<br>-0.0194   | 0.0158<br>0.0086<br>0.0115<br>0.0087<br>0.0079<br>0.0039<br>0.0079<br>0.0071<br>0.0036<br>0.0077<br>0.0104<br>0.009   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -93.<br>-85.<br>-75.<br>-75.<br>-85.<br>-145.<br>-55.<br>-60.<br>-35.<br>-106.<br>-109.<br>-155.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 502<br>503<br>504<br>505<br>506<br>507<br>508<br>509<br>510<br>511<br>512<br>513<br>514  | 13.3000<br>13.0700<br>13.0600<br>13.2700<br>13.1600<br>13.1600<br>13.1600<br>13.1700<br>13.1700<br>13.1500<br>13.2000<br>13.2000<br>13.27500<br>13.2400  | 42.6500<br>43.0200<br>43.0200<br>42.5600<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.8000<br>42.5700  | 3.0000<br>5.0000<br>5.0000<br>6.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>4.0000<br>3.0000   | 154.0000<br>150.0000<br>155.0000<br>145.0000<br>145.0000<br>175.0000<br>175.0000<br>175.0000<br>145.0000<br>145.0000<br>145.0000<br>180.0000   | 71.000<br>60.000<br>55.000<br>55.000<br>60.000<br>50.000<br>70.000<br>55.000<br>70.000<br>53.000<br>48.000<br>85.000<br>70.000                               | 0.5081<br>0.5459<br>0.2962<br>0.4104<br>0.3085<br>0.2730<br>0.2320<br>0.3302<br>0.2805<br>0.2138<br>0.2768<br>0.2768<br>0.3783<br>0.7360<br>0.2053   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874<br>1.0177<br>0.9315<br>1.1282<br>1.0328<br>0.8913<br>1.0252<br>1.2145<br>1.7426<br>0.8718   | -0.0009<br>-0.0008<br>0.0007<br>0.0031<br>0.0023<br>0.0007<br>-0.0055<br>0.0055<br>0.0055<br>0.0041<br>0.0051<br>-0.0022<br>-0.0036<br>-0.0194<br>0.0042   | 0.0158<br>0.0086<br>0.0115<br>0.0087<br>0.0079<br>0.0079<br>0.0079<br>0.0071<br>0.0036<br>0.0077<br>0.0104<br>0.009<br>0.0042   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.  | -93.<br>-85.<br>-75.<br>-75.<br>-85.<br>-145.<br>-55.<br>-60.<br>-35.<br>-106.<br>-109.<br>-155.<br>-45.   |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 502<br>503<br>504<br>505<br>506<br>507<br>508<br>509<br>510<br>511<br>512<br>513<br>514<br>515   | 13.3000<br>13.0700<br>13.0600<br>13.2700<br>13.1600<br>13.1600<br>13.1600<br>13.1700<br>13.1500<br>13.2000<br>13.2000<br>13.2000<br>13.2400<br>13.2400<br>13.1100                                  | 42.6500<br>43.0200<br>43.0200<br>42.5600<br>42.9300<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.7800<br>42.9200<br>42.5700<br>43.0100  | 3.0000<br>5.0000<br>5.0000<br>6.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>6.0000<br>2.0000<br>4.0000<br>3.0000   | 154.0000<br>150.0000<br>155.0000<br>145.0000<br>145.0000<br>175.0000<br>175.0000<br>175.0000<br>145.0000<br>145.0000<br>145.0000<br>180.0000<br>140.0000   | 60.000<br>55.000<br>55.000<br>60.000<br>50.000<br>60.000<br>70.000<br>55.000<br>70.000<br>53.000<br>48.000<br>85.000<br>65.000                               | 0.5031<br>0.5459<br>0.2962<br>0.4104<br>0.3085<br>0.2730<br>0.2320<br>0.3302<br>0.2805<br>0.2138<br>0.2768<br>0.2768<br>0.3783<br>0.7760<br>0.2053<br>0.2053<br>0.1481   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874<br>1.0177<br>0.9315<br>1.1282<br>1.0328<br>0.8913<br>1.0252<br>1.2145<br>1.7426<br>0.8718<br>0.7305   | -0.0009<br>-0.0008<br>0.0007<br>0.0031<br>0.0023<br>0.0007<br>-0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0005<br>0.0005<br>0.0007<br>-0.0008<br>0.0007<br>-0.0008<br>0.0007<br>-0.0008<br>0.0007<br>-0.0008<br>0.0007<br>-0.0008<br>0.0007<br>-0.0008<br>0.0007<br>-0.0055<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.00 | 0.0158<br>0.0086<br>0.0115<br>0.0087<br>0.0079<br>0.0079<br>0.0079<br>0.0071<br>0.0036<br>0.0077<br>0.0104<br>0.009<br>0.0042   | 0.           0. | -93.<br>-85.<br>-75.<br>-75.<br>-85.<br>-145.<br>-55.<br>-60.<br>-35.<br>-106.<br>-109.<br>-105.<br>-45.<br>-75.                                 |
| Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation<br>Dislocation   | 502<br>503<br>504<br>505<br>506<br>507<br>508<br>509<br>510<br>511<br>512<br>513<br>514<br>515<br>516                                    | 13.3000<br>13.0700<br>13.0600<br>13.2700<br>13.1600<br>13.1600<br>13.2000<br>13.1500<br>13.1500<br>13.2000<br>13.2000<br>13.2000<br>13.2400<br>13.1100<br>13.1000                                  | 42.6500<br>43.0200<br>43.0200<br>42.5600<br>42.9300<br>42.9200<br>42.9300<br>42.9200<br>42.9200<br>42.9200<br>42.9200<br>42.7800<br>42.9200<br>42.5700   | 3.0000<br>5.0000<br>5.0000<br>5.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>2.0000<br>4.0000<br>3.0000<br>1.0000<br>5.0000                               | 154.0000<br>150.0000<br>155.0000<br>145.0000<br>145.0000<br>175.0000<br>175.0000<br>175.0000<br>145.0000<br>143.0000<br>143.0000<br>140.0000<br>140.0000   | 71.000<br>60.000<br>55.000<br>55.000<br>60.000<br>50.000<br>60.000<br>70.000<br>55.000<br>70.000<br>53.000<br>48.000<br>85.000<br>70.000<br>65.000           | 0.5087<br>0.2962<br>0.2962<br>0.2085<br>0.2730<br>0.2320<br>0.3302<br>0.2805<br>0.2138<br>0.2768<br>0.2768<br>0.3783<br>0.7360<br>0.2053<br>0.1481<br>0.2730   | 1.1967<br>1.4818<br>1.0637<br>1.2694<br>1.0874<br>1.0177<br>0.9315<br>1.1282<br>1.0328<br>0.8913<br>1.0252<br>1.2145<br>1.7426<br>0.8718<br>0.7305<br>1.0177                               | -0.0009<br>-0.0008<br>0.0007<br>0.0031<br>0.0023<br>0.0007<br>-0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>0.0055<br>-0.0022<br>-0.0036<br>-0.0194<br>0.0042<br>0.0042<br>0.0043   | 0.0158<br>0.0086<br>0.0115<br>0.0087<br>0.0079<br>0.0039<br>0.0079<br>0.0071<br>0.0036<br>0.0077<br>0.0104<br>0.009<br>0.0042<br>0.0042<br>0.0042   | 0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0.<br>0   | -93.<br>-93.<br>-95.<br>-75.<br>-85.<br>-145.<br>-55.<br>-60.<br>-35.<br>-106.<br>-109.<br>-155.<br>-45.<br>-75.<br>-75.<br>-123.                |
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