

# Influence of Methane in CO<sub>2</sub> Transport and Storage for CCS Technology

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ABSTRACT: CO<sub>2</sub> Capture and Storage (CCS) is regarded as a good strategy to mitigate the ever increasing levels of greenhouse gases in the atmosphere. The presence and type of impurities clearly influence the properties and behavior of the anthropogenic CO<sub>2</sub>, and consequently the design and operation of CCS technology facilities. Its study is also necessary to elaborate the gas quality specifications for CO<sub>2</sub> transport and storage, and also in order to develop theoretical models for specific engineering applications to CCS technology. In our current work we determine the influence of CH<sub>4</sub>, an important impurity in anthropogenic CO<sub>2</sub>, within different steps of CCS technology: transport, injection and geological storage. For this purpose, we obtain new and reliable  $P\rho T$  and VLE experimental data of six CO<sub>2</sub>+CH<sub>4</sub> mixtures at compositions which represent emissions from the main sources in EU and USA. The  $P$  and  $T$  ranges studied are within the estimated for CO<sub>2</sub> pipelines and geological storage sites. From these data we evaluate the minimal pressures for transport, regarding the density and pipeline's capacity requirements, and values for the solubility parameter of the mixtures, a factor which governs the solubility of substances present in reservoir prior to injection. We also conclude that the presence of CH<sub>4</sub> reduces the storage capacity, increases the buoyancy of the CO<sub>2</sub> plume, which in turn

diminishes the efficiency of solubility and residual trapping of CO<sub>2</sub>, and reduces the injectivity into geological formations.

**KEYWORDS:** CO<sub>2</sub>, CCS, impurities, methane, density, VLE, transport, storage, injection

## 1. INTRODUCTION

Carbon Dioxide Capture and Storage (CCS) is one of several effective strategies (along with energy efficiency, fuel switching and use of renewable energy sources) to reduce greenhouse gas (GHG) levels in the atmosphere in the medium term.<sup>1</sup>

CCS is usually considered as a process consisting of four main separate steps: CO<sub>2</sub> capture, CO<sub>2</sub> conditioning, CO<sub>2</sub> transport and CO<sub>2</sub> injection and storage.

CO<sub>2</sub> capture can be performed by different techniques (post-combustion, pre-combustion decarbonisation and oxyfuel combustion) as well as conditioned (dehydration, non-condensable gas separation and/or liquefaction and compression/ pumping).<sup>2-4</sup> Even this work is not devoted to the CO<sub>2</sub> conditioning and capture, the technologies used will condition the composition of the gas to handle. It is also important to take into account that it seems that CO<sub>2</sub> purification after its capture will be very expensive and thus for many of the separation technologies the expense of purification greatly rises for a higher degree of purity of gaseous mixture,<sup>4</sup> therefore, it is essential the study of the CO<sub>2</sub> behavior with different impurities.<sup>5</sup> On the other hand, quality specifications for transport are not currently stated. The elaboration of the corresponding regulations will require studying the influence of impurities in the thermodynamic properties of the transported and stored fluid as well. This is precisely the aim of our current study.

For over 30 years now, and within the context of EOR (Enhanced Oil Recovery) and EGR (Enhanced Gas Recovery), long-distance CO<sub>2</sub> transport and injection technologies have been developed. Nevertheless, there are some important differences between these technologies and CCS since CO<sub>2</sub> captured from power stations and industrial sources may contain different proportions and/or types of impurities from those found in the sources of CO<sub>2</sub> usually used in EOR and EGR. The design and operation of a CO<sub>2</sub>+impurities managing system is complicated, due to the highly non-linear thermodynamic properties of the fluid and because it is normally transported as a dense-fluid, for operational and economic reasons.<sup>6</sup> Since the Kyoto Summit, an international network with specific research programmes devoted to CCS technology has been established. One such scheme is the FP7

Cooperation Work Programme, which includes a topic entitled “*Impact of the quality of CO<sub>2</sub> on transport and storage*” within the Energy Theme.<sup>7</sup>

Literature shows that the presence and type of impurities clearly influence the fluid’s properties and behavior and as a consequence the design and operation of CCS facilities.<sup>8</sup> Knowledge of the thermodynamic properties of the CO<sub>2</sub>+impurities mixtures, especially pressure–volume–temperature–composition ( $PVT_{xy}$ ) and vapour–liquid-equilibrium (VLE), is therefore essential. It will allow to determine composition specifications and purification requirements (if necessary) of the fluid in the different steps of this technology, and will enable us to design efficient, safe and economic processes.<sup>5</sup> These data are also necessary to develop reliable theoretical models for engineering applications, covering the large range of operative conditions (from atmospheric pressure to supercritical states) of multi-component mixtures involved in CCS processes. Many equations of state, such as PR, RKS, SAFT and GERG are available for thermodynamic calculations of CO<sub>2</sub> mixtures, but none of them show any clear advantage in CCS applications for the calculations of all  $PVT_{xy}$  properties, thus a reference EoS for CCS should be a future goal.<sup>5,9</sup>

This is the first work in a systematic study on binary mixtures of CO<sub>2</sub> and the typical impurities found in industrial emissions. In our present study we present reliable experimental data of pressure-density-temperature,  $P\rho T$ , and vapor-liquid equilibrium, VLE, properties for mixtures of CO<sub>2</sub> and CH<sub>4</sub> at the compositions,  $P$  and  $T$  ranges of interest for the transport and the storage in the CCS technologies. CO<sub>2</sub> and CH<sub>4</sub> are two of the six GHGs that have been targeted by the international community as causing global warming, being the environmental impact of methane emissions twenty one times greater than that of carbon dioxide.<sup>1</sup> Our experimental data have been compared with those predicted by GERG EoS which is the most recommended among the above mentioned by the NIST for CO<sub>2</sub>+CH<sub>4</sub> mixtures and the most used for petroleum fluids and natural gas.<sup>10</sup>

From the  $P\rho T$  experimental values of CO<sub>2</sub>+CH<sub>4</sub> mixtures, we have evaluated the effect of impurities on several parameters related to transport, injection and storage such as the minimal pressure for

transport, the solubility parameter, the normalized storage capacity of the reservoir, the normalized rising velocity of the CO<sub>2</sub> plume and the normalized permeation flux.

## 2. EXPERIMENTAL SECTION

**Materials.** Carbon Dioxide (wt % > 99.998) and methane (wt % > 99.995) were obtained from Air Liquide.

In Spain, compositions of the emissions from different industries are characterized and recorded by the *Registro Estatal de Emisiones y Fuentes Contaminantes (PRTR España)*.<sup>11</sup> The highest content of methane (wt % CH<sub>4</sub> ≈ 6.0 %) is found in emissions from waste management (7% of the total of CO<sub>2</sub> emitted in Spain in 2010). In addition to this, wt % CH<sub>4</sub> varies from ≈ 1.0 % for farming and livestock emissions to ≈ 0.36 % for other industries such as ceramics production.<sup>11</sup> Having taken these figures into account, we have chosen six compositions ranged from 0.14 % to 5.93 % in wt % of CH<sub>4</sub> which allow us to study representative industrial emissions in Spain. The mixtures were prepared by successive weighting of the components in a variable volume cell with a precision of 0.0002 g. In this composition range the percentage of methane from emissions of the main sources of anthropogenic CO<sub>2</sub> in the EU and the USA<sup>12-15</sup> are included. The total emissions in Spain, EU and USA contain wt % of CH<sub>4</sub> of 0.15 %, 0.65 % and 0.55 % respectively.

**Apparatus and Procedures.** The experimental setup used in this work for the determination of  $P\rho T$  data of CO<sub>2</sub>+CH<sub>4</sub> mixtures is the same as that described in a previous study.<sup>16</sup> It was designed for fast, reliable, and accurate generation of  $P\rho T$  data. Their quasi continuous acquisition along subcritical, critical and supercritical regions (6000 points/isotherm evenly reduced to about 1000 points/isotherm for easier handling) allows the accurate determination of the limits of VLE and calculation of derived properties from the experimental data.

The precision and accuracy in density results for mixtures were determined in a previous work;<sup>16</sup> the mean relative deviation, MRD ( $\rho$ ) = 0.7 % and mean standard deviation,  $\bar{S}_\rho^r$  = 0.13% were obtained.

## 3. RESULTS AND DISCUSSION

In this work we present 49 experimental  $P\rho T$  isotherms (containing a total of 49,000 points available in the supporting information) for six  $\text{CO}_2+\text{CH}_4$  mixtures ( $\text{CO}_2$  mole fraction,  $x_{\text{CO}_2} = 0.8525; 0.9719; 0.9809; 0.9902; 0.9932$  and  $0.9961$ ) from atmospheric pressure to 20 MPa, at 253,15 K; 263,15 K; 273,15 K; 283.15 K, 293.15 K, 298.15 K, 308.15 K and 333.15 K. In the case of the mixture with  $x_{\text{CO}_2} = 0.8525$  the isotherm at 304.21 K ( $T_c$  of  $\text{CO}_2$ ) is presented too. Properties have been measured in  $P$  and  $T$  ranges which are within the estimated pressures and temperatures in  $\text{CO}_2$  pipelines (7.5 to 20 MPa and 273 to 303K)<sup>5</sup> and in geologic storage sites on the basis of a geothermic gradient<sup>17</sup> of 25 K/km and an average gradient of hydrostatic pressure of 10 MPa/km.

From these  $P\rho T$  experimental data we have obtained the dew and bubble pressures,  $P_{\text{dew}}$  and  $P_{\text{bubble}}$ , and the densities of the phases in equilibrium ( $\rho_{\text{sat}}$ ) for each mixture at the corresponding subcritical temperatures, as well as the derivative properties  $\alpha_P$  (isobaric thermal expansivity),  $\kappa_T$  (isothermal compressibility) and  $\pi$  (internal pressure). Besides, we have evaluated the minimal pressures for transport, regarding the density and pipeline's capacity requirements, and the effect of impurities on the solubility parameter,  $\delta$ . This parameter will govern the interactions between the injected  $\text{CO}_2$  and the substances previously present in the reservoir, such as methane itself among others. Last, we have calculated, using our experimental data, values for other parameters related to storage such as the normalized storage capacity of the reservoir and the normalized rising velocity of the plume by means of the approach that Wang et al. used for other impurities.<sup>18</sup> Acting in this fashion, the experimental data will give realistic information about what is happening inside the reservoirs after injection of  $\text{CO}_2$ . The normalized permeation flux<sup>18</sup>, which provides a measure of the relative injectivity of the impure  $\text{CO}_2$  stream, has been also calculated from our data and so the viscosity data from GERG EoS.<sup>10</sup>

Figure 1 (a, b, c and d) shows the experimental densities for four of the six  $\text{CO}_2+\text{CH}_4$  mixtures which include the whole range of composition studied. The representations corresponding to the rest of the mixtures are included in Figure S1 (a and b) and the complete  $P\rho T$  experimental data are listed in Table S1, both in the Supporting Information. In these graphics, the density of the mixtures at subcritical temperatures show a discontinuity in the liquid-vapor equilibrium zone which is limited by the dew

point in the low pressure regions and by the bubble point in the high pressure regions. However, the representation at supercritical temperatures is a continuous line.

In Figures 2 and 3 the VLE properties are represented for the mixtures with  $x_{\text{CO}_2} = 0.8525$ ; 0.9719 and 0.9961 (Figure 2, dew and bubble pressures and densities of the phases in equilibrium, hence the limits of the discontinuities of Figure 1 before mentioned; Figure 3, the correspondent  $P$ - $T$ - $x_{\text{CO}_2}$  projections). For the rest of the mixtures similar representations can be found in Figure S2 and S3 of Supporting Information, and the corresponding values in Table S2.

There are numerous publications on  $\text{CO}_2$ + $\text{CH}_4$  system in the literature, but not for the compositions and conditions of interest for CCS technology. We have found three publications which give values of density<sup>19</sup> and VLE properties<sup>20, 21</sup> at similar conditions to ours (but not equal). Magee and Ely<sup>19</sup> give values for density of  $\text{CO}_2$ + $\text{CH}_4$  with  $x_{\text{CO}_2} = 0.98$  that are in good agreement with our data. Also, our value for bubble pressure at 293.15 K for this mixture agrees with that from these authors. Furthermore, we have found reasonable agreement between our pressures for VLE and those reported by Xu et al.<sup>20</sup> and Donnelly and Katz.<sup>21</sup>

Our experimental data for density and VLE have been compared with those predicted by GERG EoS.<sup>10</sup> The obtained deviations are  $\text{MRD}(\rho) = 0.28 \%$ ;  $\text{MRD}(P_{\text{dew}}, P_{\text{bubble}}) = 0.15 \%$  and  $\text{MRD}(\rho_{\text{sat}}) = 0.45 \%$ , which are within the margins of error given by the authors.

**Influence of impurities in transport.**  $\text{CO}_2$  is transported in pipelines over long distances as a dense-phase fluid with densities from 800 to 1000  $\text{kg/m}^3$ . To achieve this density requirement at the different operating temperatures, the minimal transport pressure will depend on the composition of the  $\text{CO}_2$  transported. Table 1 shows the values of minimal compressing pressure required to obtain a density of 800  $\text{kg/m}^3$  if the fluid transported is pure  $\text{CO}_2$ ,<sup>10, 16</sup> or if it is a  $\text{CO}_2$ + $\text{CH}_4$  mixture with  $x_{\text{CO}_2} = 0.8525$  or  $x_{\text{CO}_2} = 0.9961$  (from our experimental  $P\rho T$  data). As can be seen, for the  $\text{CO}_2$  rich mixture the required values of pressure are slightly higher but similar to those for pure  $\text{CO}_2$  at 253.15 K. For a mixture characterised as the binary  $\text{CO}_2$ + $\text{CH}_4$  with  $x_{\text{CO}_2} = 0.8525$ , the minimal value of pressure required in pipeline is almost three times that for pure  $\text{CO}_2$ , and this proportion increases as temperature

increases, so that the required pressure at 283.15 K is more than four times the value required for pure CO<sub>2</sub>.

The presence of impurities in the transported fluid modifies the limits of VLE as well, and hence the value for the bubble pressure for a given temperature, as it is shown in Figure 2. In the transport by pipeline, the operating pressure cannot be lower than the bubble pressure of the fluid, in order to avoid the presence of vapor phase which would diminish the pipeline's capacity. In table 2 bubble pressure data for pure CO<sub>2</sub><sup>10</sup> and CO<sub>2</sub>+CH<sub>4</sub> ( $x_{\text{CO}_2} = 0.8525$  and  $x_{\text{CO}_2} = 0.9961$ ) mixtures are listed for the subcritical temperatures studied. Although these bubble pressures are lower than those necessary to fulfil the density requirements, conditions where the fluid's pressure is lower than those values of pressure should be avoided in the different types of operations that take place in the transport network.

**Influence of impurities in storage and injection.** There are different sites which are suitable candidates for geological storage: deep saline aquifers, depleted oil and gas fields and non-exploitable coal seams.<sup>22</sup> The anthropogenic CO<sub>2</sub>-trapping mechanism and the influence of impurities can be different according to the kind of reservoir. Inside the reservoirs, there will be interactions between the substances present before the injection and the injected anthropogenic CO<sub>2</sub> (CO<sub>2</sub>+impurities). Methane can be present in the reservoir before injection and as a component of anthropogenic CO<sub>2</sub>. In the study on solvent-solute intermolecular forces, we propose the anthropogenic CO<sub>2</sub> stream to be labelled as the solvent, and those substances present beforehand in the reservoir as solutes. The solvent will probably be under supercritical state because of the conditions of temperature and pressure inside the reservoir. This state presents two characteristic properties: a great ability to dissolve non-volatile substances (several orders of magnitude greater than the gas state), and a wide variability of this solvent's capacity with the operating conditions ( $T, P$ ). The concept of solubility parameter, introduced by Hildebrand and Scott in 1950,<sup>23</sup> has been extensively used for more than sixty years in interpreting and predicting thermodynamic behavior of liquid solutions in a semi-quantitative way,<sup>24-27</sup> and has also been extended to non-polar and slightly polar supercritical fluids.<sup>16, 28</sup> The solubility parameter,  $\delta$ , was defined by Hildebrand and Scott as:



$$\delta = \left( \frac{-E(T)}{V(T,P)} \right)^{\frac{1}{2}} \quad (1)$$

where  $-E$  is the cohesive energy and  $V$  is the molar volume of the liquid, being  $(-E/V)$  the so called “cohesive energy density”. Hansen<sup>24</sup> assumes the cohesive energy to be an additive quantity composed of a dispersive (d), a polar (p) and a hydrogen-bond (h) contribution

$$E = E_d + E_p + E_h \quad (2)$$

and, therefore,

$$\delta^2 = \delta_d^2 + \delta_p^2 + \delta_h^2 \quad (3)$$

Bagley et al.<sup>26</sup> subdivide the solubility parameter in two parts:

$$\delta^2 = \delta_V^2 + \delta_R^2 \quad (4)$$

where  $\delta_V^2 = \delta_d^2 + \delta_p^2$  corresponds to the “physical” or “nonchemical” effects and is known as the “volume-dependant solubility (or cohesion) parameter”, which is defined by

$$\delta_V^2 = \pi \quad (5)$$

where  $\pi$  is the internal pressure. The other component,  $\delta_R$ , is a “residual” parameter, which results from “chemical” effects. Since there is not hydrogen bonding present in our system, it seems appropriate to neglect the residual contribution and to use the internal pressure to estimate the solubility parameter<sup>27</sup>

$$\delta^2 = \delta_V^2 = \pi \quad (6)$$

which is a relationship between the solubility parameter and the internal pressure earlier used by Hildebrand and Scott.<sup>23</sup> Allada et al.<sup>28</sup> suggest that the solubility parameters are the key determinant of solubility of the solutes in supercritical solvents and that they apparently unify diverse behaviors of solvents regardless of its kind,  $T$  or  $P$ . In this work, we propose to apply this concept to stored anthropogenic CO<sub>2</sub>. Hence, in storage of anthropogenic CO<sub>2</sub>, the solubilisation of substances present beforehand will depend on interactions between these solutes and the supercritical fluid, and as we have shown this behavior can be approximated if we know the values for internal pressure of the mixture which is injected for storage.

The internal pressure is defined as

$$\pi = \left(\frac{\partial U}{\partial V}\right)_T = T \left(\frac{\partial P}{\partial T}\right)_V - P \quad (7)$$

In this equation, we can write

$$\left(\frac{\partial P}{\partial T}\right)_V = - \left(\frac{1}{\rho}\right) \left(\frac{\partial \rho}{\partial T}\right)_P \frac{1}{\left(\frac{1}{\rho}\right) \left(\frac{\partial \rho}{\partial P}\right)_T} = \frac{\alpha_P}{\kappa_T} \quad (8)$$

where  $\alpha_P$  is the isobaric thermal expansivity and  $\kappa_T$  the isothermal compressibility. We have calculated  $\alpha_P$ ,  $\kappa_T$  and  $\pi$  values (see Supporting Information) from our  $P\rho T$  experimental data. Solubility parameters are represented in Figure 4 for mixtures with  $x_{\text{CO}_2} = 0.8525$  and  $x_{\text{CO}_2} = 0.9902$  at 293.15 K, 308.15 K and 333.15 K. As can be seen, the solubility parameters decrease as the methane mole fraction increases in the anthropogenic  $\text{CO}_2$ . For each mole fraction studied, the greatest value of the parameter is obtained for the compressed liquid mixtures, and will decrease as temperature increases and pressure decreases.

Non-condensable impurities, such as methane, will increase the compression pressure needed for injection and reduce the capacity of the storage sites because the density of the mixture will decrease. Wang, et al.<sup>18</sup> proposed the following expression for the storage capacity, expressed in mass, as a function of the density of the  $\text{CO}_2$  stream:

$$\frac{M}{M_0} = \frac{\rho}{\rho_0 \left[1 + \sum_i \left(\frac{m_i}{m_0}\right)\right]} \quad (9)$$

where  $M$  and  $M_0$  denote, respectively, the mass of  $\text{CO}_2$  in the mixture and in the pure  $\text{CO}_2$  stream which occupies the same volume or its ratio per unit volume.  $\rho$  and  $\rho_0$  are the density of the mixture and the pure  $\text{CO}_2$  stream, and  $m_i/m_0$  is the ratio of the mass of impurity  $i$  to the mass of  $\text{CO}_2$  in the mixture. The ratio  $M/M_0$  on the left hand side of this relation represents a normalized storage capacity for  $\text{CO}_2$ , i.e. the capacity for structural trapping of  $\text{CO}_2$ . In the case of pure  $\text{CO}_2$  (zero impurity effect) the ratio equals unity. The right hand side is a function of temperature, pressure and mixture composition and has been calculated from our  $P\rho T$  experimental data. Accordingly, the normalized storage capacity has been determined, and in Figures 5a and 5b the results for  $\text{CO}_2+\text{CH}_4$  mixtures with  $x_{\text{CO}_2} = 0.8525$  and  $x_{\text{CO}_2} = 0.9902$  are shown, respectively, at three temperatures that can be found in storage at different depths: 293.15 K, 308.15 K and 333.15 K. As can be observed, the presence of  $\text{CH}_4$  negatively affects the mass

of CO<sub>2</sub> which can be stored in a given reservoir. At a given temperature, for any reservoir, the lowest value of anthropogenic CO<sub>2</sub> stored (expressed by mass) corresponds to the richest methane mole fractions (Figure 5a). The deeper the location of the reservoir (higher values of  $T$  and  $P$ ) the greater is the mass of CO<sub>2</sub> which can be potentially stored. If we consider a depth from 1000 to 2000 m, the pressure of the injected CO<sub>2</sub> will range from 10 to 20 MPa, and the average temperature will be 333.15 K (for an average gradient of hydrostatic pressure of 10 MPa/km and a geothermic gradient<sup>17</sup> of 25 K/km). Under these conditions, the storage capacity can be reduced to a figure as low as 60% for the mixture with  $x_{\text{CO}_2} = 0.8525$  and 96% for the mixture with  $x_{\text{CO}_2} = 0.9902$  (Figure 5: a and b).

In general, the presence of non-condensable impurities (i.e. methane) in anthropogenic CO<sub>2</sub> causes a decrease in the CO<sub>2</sub> storage capacity, with a minimum at a given  $P$  for each  $T$  (Figure 5: a and b). As a consequence, the effect of pressure has to be taken into account in the estimation of the capacity of underground formations. In order to increase the efficiency of the storage, both the pressure of injection and the depth inside the reservoir should be combined. At a given depth ( $T = \text{constant}$ ), increasing the storage pressure well beyond the minimum pressure would improve the storage efficiency (Figure 5: a and b). For closed reservoirs, this may be achieved by increasing the injection pressure within the allowable overpressure range; for open formations where overpressure may not be attainable, increasing the depth of injection and storage is the only option.

In deep saline aquifers, the presence of impurities affects parameters related to storage, such as the buoyancy and the rising velocity. The presence of light-impurity species, such as CH<sub>4</sub>, generates a greater buoyancy of the CO<sub>2</sub> plume, due to its lower density. For a given mass of the plume in a unit volume in contact with the site water, the buoyant force,  $F$ , can be expressed as

$$F = (\rho_{\text{H}_2\text{O}} - \rho)g \quad (10)$$

where  $\rho_{\text{H}_2\text{O}}$  and  $\rho$  are the densities of the water and the plume, respectively, and  $g$  is the gravitational acceleration. The effect of impurities on this force with reference to pure CO<sub>2</sub> may be given as

$$\frac{F}{F_0} = \frac{\rho_{\text{H}_2\text{O}} - \rho}{\rho_{\text{H}_2\text{O}} - \rho_0} \quad (11)$$

where  $F$  and  $F_0$  are the buoyant forces for the CO<sub>2</sub> mixture and for pure CO<sub>2</sub> respectively. The greater the difference between the densities of anthropogenic CO<sub>2</sub> ( $\rho$ ) and pure CO<sub>2</sub> ( $\rho_0$ ), the greater the change in the buoyancy will be. If impurities are non-condensable,  $\rho < \rho_0$ , the buoyancy increases, and this in turn will significantly increase the rising velocity of the plume,  $v$ . The rising velocity for the CO<sub>2</sub> mixture,  $v$ , can be related to that of the pure CO<sub>2</sub> stream,  $v_0$ , by<sup>18</sup>

$$\frac{v}{v_0} = \frac{F/(\rho\eta)}{F_0/(\rho_0\eta_0)} \quad (12)$$

where  $\eta$  is the viscosity of the CO<sub>2</sub> impure stream and  $\eta_0$  that of pure CO<sub>2</sub>. In Figure 6, the relations  $v/v_0$  for CO<sub>2</sub>+CH<sub>4</sub> with  $x_{\text{CO}_2} = 0.8525$  (Figure 6a) and  $x_{\text{CO}_2} = 0.9902$  (Figure 6b) at 293.15 K, 308.15 K and 333.15 K, are represented against pressure. The values for the relations are calculated from our experimental  $P\rho T$  data and values for viscosity calculated using GERG EoS.<sup>10</sup> For the two mixtures, the  $v/v_0$  relations reach maxima at 308.15 K and 333.15 K inside the pressure range represented in the figures. For the CH<sub>4</sub>-richest mixture at 308.15 K, the rising velocity can reach nearly three times that of the pure CO<sub>2</sub> plume. At 333.15 K, which would be the average temperature at depths from 1000 to 2000 m, the maxima, for the two compositions, are found exactly at pressures inside the ranges corresponding to those depths (10 to 20 MPa). For  $x_{\text{CO}_2} = 0.8525$ , the rising velocity of the fluid, at this temperature, can be more than 1.5 times that of the pure CO<sub>2</sub> plume (Fig. 6a), but for  $x_{\text{CO}_2} = 0.9902$  this relation diminish to almost 1 (Fig. 6b). An elevated rising velocity makes the time for CO<sub>2</sub>–water contact in the reservoir to shorten, with less dissolving effect. The lateral spreading of the plume will be diminished as well, and as a consequence the area for trapping CO<sub>2</sub> in the rock's pores will decrease, with a reduction in the formation of a residual phase. When the plume makes contact with the cap rock layer and is retained under, it spreads laterally, but the contact with saline water happens only at the interface. Moreover, near the cap rock, at a lower depth, the pressure is lower than in the deeper region, and therefore the efficiency of both solubility and residual trapping will be lower. Therefore, the risk for leakage increases if pathways are available.

In relation to injection, to analyze the differences due to the type of the fluid injected, pure CO<sub>2</sub> or anthropogenic CO<sub>2</sub>, an expression based on Darcy's law for calculating the permeation flux can be used

$$\dot{M} = \frac{\rho k}{\eta} \nabla P \quad (13)$$

Where  $\dot{M}$  is the mass flow per unit area,  $\rho$  and  $\eta$  are the density and the viscosity, respectively, of the injected fluid,  $k$  is the rock permeability,  $\nabla$  the gradient operator and  $P$  the pressure. Non-condensable impurities reduce the density of the CO<sub>2</sub> stream, and the mass flux will decrease for the same pressure drop and viscosity. Additionally, impurities will also affect the viscosity of the fluid, and the mass flow will increase if the viscosity of the impure CO<sub>2</sub> stream is lower than the viscosity of pure CO<sub>2</sub>. Therefore, the decrease in density may be compensated by a corresponding decrease in viscosity. Both density and viscosity are functions of temperature and pressure, and the rock permeability and pressure gradient vary for each particular site. Nevertheless, we may use the following relation for an estimation of the impurity effects under the same permeability and pressure drop conditions<sup>18</sup>

$$\frac{\dot{M}}{\dot{M}_0} = \frac{\rho \left( \frac{\eta_0}{\eta} \right)}{\rho_0 \left[ 1 + \sum_i \left( \frac{m_i}{m_0} \right) \right]} \quad (14)$$

Where  $\dot{M}$ ,  $\eta$  and  $\rho$  are the mass flow per unit area, viscosity and density of the anthropogenic CO<sub>2</sub> and  $\dot{M}_0$ ,  $\eta_0$  and  $\rho_0$  those of the pure CO<sub>2</sub>. The bracket in the denominator introduces a correction for impurities as in eq. 9. Eq. 14 represents a normalized permeation flux and allows estimating the relative injectivity of the impure CO<sub>2</sub> stream.

We have calculated the values of  $\dot{M}/\dot{M}_0$  for mixtures with  $x_{\text{CO}_2} = 0.8525$  and  $x_{\text{CO}_2} = 0.9902$  at 293.15 K, 308.15 K and 333.15 K, using our experimental  $P\rho T$  data and calculated values for viscosity.<sup>10</sup> In Figure 7, a and b, the values obtained for the relation are represented against pressure. It can be observed that for pressures from 10 to 20 MPa, the permeation flux at 293.15 K and 308.15 K for the two mixtures is higher than that for pure CO<sub>2</sub>. At 333.15 K the trend changes, and the permeation flux of the mixture poorest in CO<sub>2</sub> is lower than that of pure CO<sub>2</sub>, trending towards 1 as pressure increases;

for the other mixture, the permeation flux is lower than 1 up to 14 MPa, and approximately equals 1 from this pressure.

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## ASSOCIATED CONTENT

### Supporting Information

$P$ - $\rho$ - $T$  experimental values for CO<sub>2</sub>+CH<sub>4</sub> mixtures;  $\rho$ - $T$ - $P$  representations;  $P$ - $\rho_{\text{sat}}$ - $x_{\text{CO}_2}$  and  $P$ - $T$ - $x_{\text{CO}_2}$  values and representations of VLE;  $\kappa_T$ - $T$ - $P$ ,  $\alpha_P$ - $T$ - $P$  and  $\pi$ - $P$ - $T$  values and representations. This material is available free of charge via the Internet at <http://pubs.acs.org>.

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**Figure 1.** Experimental densities,  $\rho$ , for CO<sub>2</sub>+CH<sub>4</sub> mixtures with (a)  $x_{\text{CO}_2} = 0.8525$ ; (b)  $x_{\text{CO}_2} = 0.9719$ ; (c)  $x_{\text{CO}_2} = 0.9902$ , and (d)  $x_{\text{CO}_2} = 0.9961$  at several temperatures and pressures.

**Figure 2.** Experimental dew (blank symbols) and bubble (solid symbols) pressures,  $P_{\text{dew}}$  and  $P_{\text{bubble}}$ , and saturation densities,  $\rho_{\text{sat}}$ , of the phases in equilibrium for CO<sub>2</sub>+CH<sub>4</sub> mixtures with  $x_{\text{CO}_2} = 0.8525$  (red);  $x_{\text{CO}_2} = 0.9719$  (blue) and  $x_{\text{CO}_2} = 0.9961$  (black).

**Figure 3.** Phase envelopes for CO<sub>2</sub>+CH<sub>4</sub> mixtures with  $x_{\text{CO}_2} = 0.8525$  (red);  $x_{\text{CO}_2} = 0.9719$  (blue) and  $x_{\text{CO}_2} = 0.9961$  (black). Blank symbols, dew pressures,  $P_{\text{dew}}$ ; solid symbols, bubble pressures,  $P_{\text{bubble}}$ .

**Figure 4.** Solubility parameters,  $\delta$ , for CO<sub>2</sub>+CH<sub>4</sub> mixtures with  $x_{\text{CO}_2} = 0.8525$  (continuous line);  $x_{\text{CO}_2} = 0.9902$  (discontinuous line) at 293.15 K (red), 308.15 K (blue) and 333.15 K (black).

**Figure 5.** Normalized CO<sub>2</sub> storage capacity,  $M/M_0$ , for CO<sub>2</sub>+CH<sub>4</sub> mixtures with (a)  $x_{\text{CO}_2} = 0.8525$  and (b)  $x_{\text{CO}_2} = 0.9902$  at 293.15 K, 308.15 K and 333.15 K.

**Figure 6.** Normalized rising velocity of the plume,  $v/v_0$ , for CO<sub>2</sub>+CH<sub>4</sub> mixtures with (a)  $x_{\text{CO}_2} = 0.8525$  and (b)  $x_{\text{CO}_2} = 0.9902$  at 293.15 K, 308.15 K and 333.15 K.

**Figure 7.** Normalized permeation flux,  $\dot{M}/\dot{M}_0$ , for CO<sub>2</sub>+CH<sub>4</sub> mixtures with (a)  $x_{\text{CO}_2} = 0.8525$  and (b)  $x_{\text{CO}_2} = 0.9902$  at 293.15 K, 308.15 K and 333.15 K.

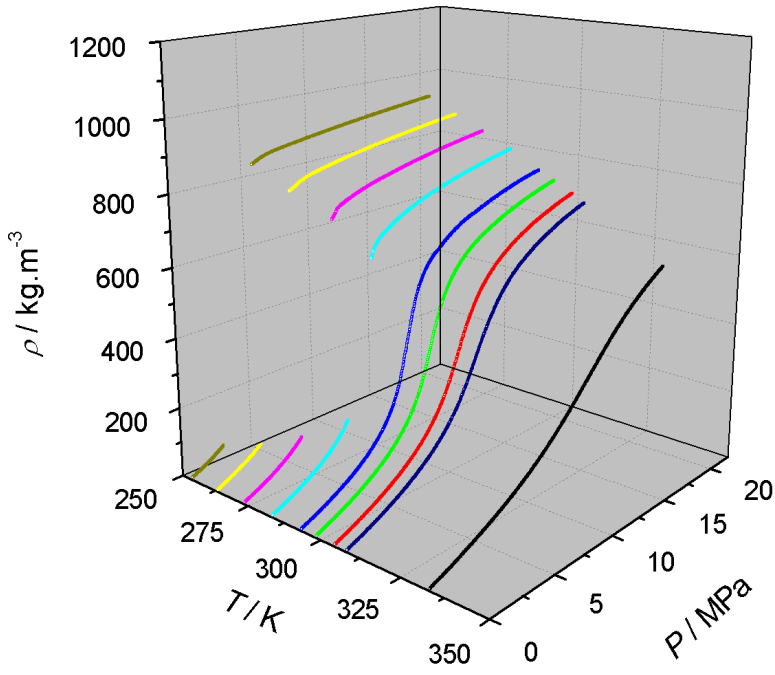
**Table 1.** Values of minimal compressing pressure,  $P$ , required to obtain a density of  $800 \text{ kg/m}^3$  when pure  $\text{CO}_2^{16}$  is transported, or when is a  $\text{CO}_2+\text{CH}_4$  mixture with  $x_{\text{CO}_2}=0.9961$  or  $x_{\text{CO}_2}=0.8525$ .

$T$ (K)	$P$ (MPa)		
	Pure $\text{CO}_2^{10,16}$	$x_{\text{CO}_2}=0.9961$	$x_{\text{CO}_2}=0.8525$
253.15	1.970	2.094	5.233
263.15	2.649	2.758	6.031
273.15	3.485	3.626	12.859
283.15	4.502	4.700	18.951
293.15	6.626	7.014	> 20 MPa
298.15	9.017	9.367	
304.21	11.987	12.359	
308.15	13.904	14.239	
333.15	26.398	>20 MPa	

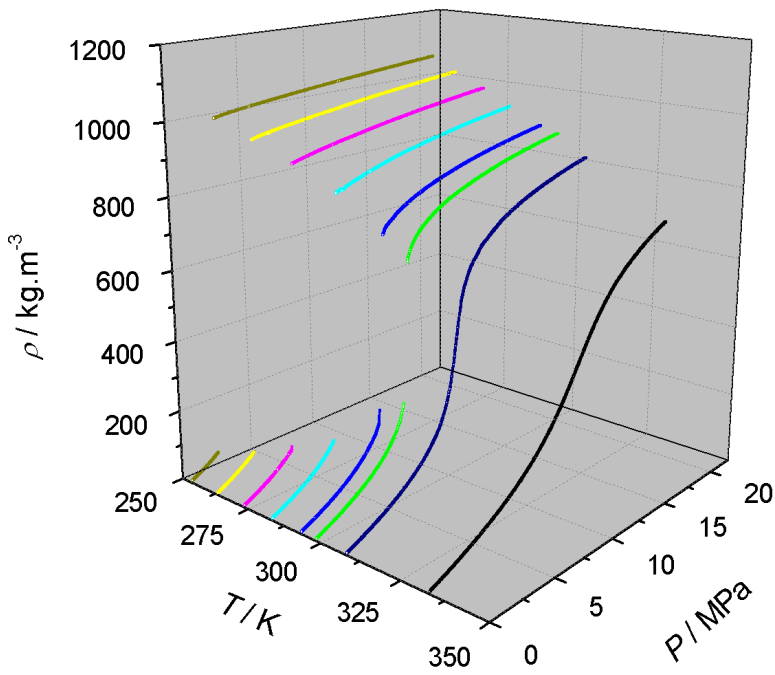
**Table 2.** Bubble pressure values,  $P_{\text{bubble}}$ , for pure  $\text{CO}_2^{10}$  and for  $\text{CO}_2+\text{CH}_4$  mixtures with  $x_{\text{CO}_2}=0.9961$  and  $x_{\text{CO}_2}=0.8525$ .

$T$ (K)	$P_{\text{bubble}}$ (MPa)		
	Pure $\text{CO}_2^{10}$	$x_{\text{CO}_2}=0.9961$	$x_{\text{CO}_2}=0.8525$
253.15	1.9696	2.073	5.232
263.15	2.6487	2.753	6.031
273.15	3.4851	3.622	7.000
283.15	4.5022	4.608	7.741
293.15	5.7291	5.827	
298.15	6.4342	6.532	

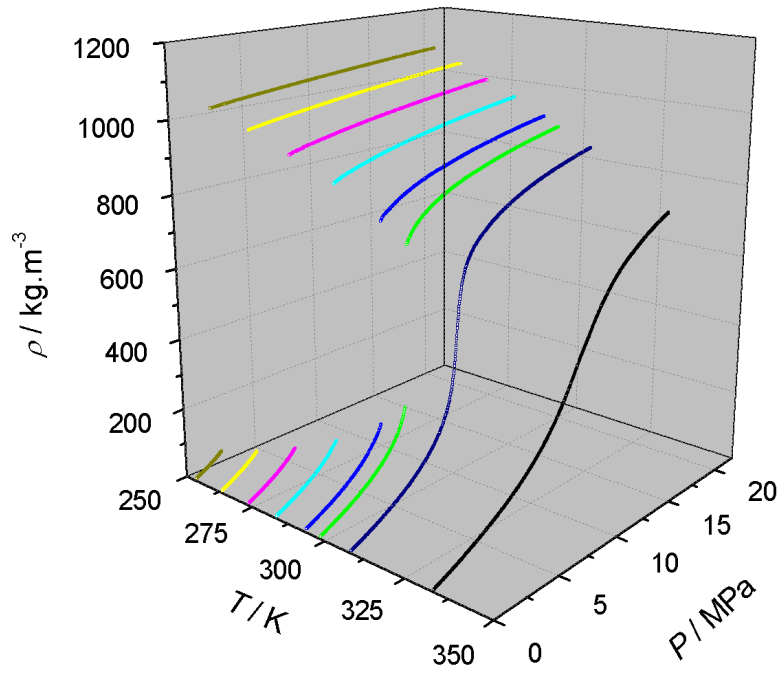
FIGURE 1  
(a)



(b)



(c)



(d)

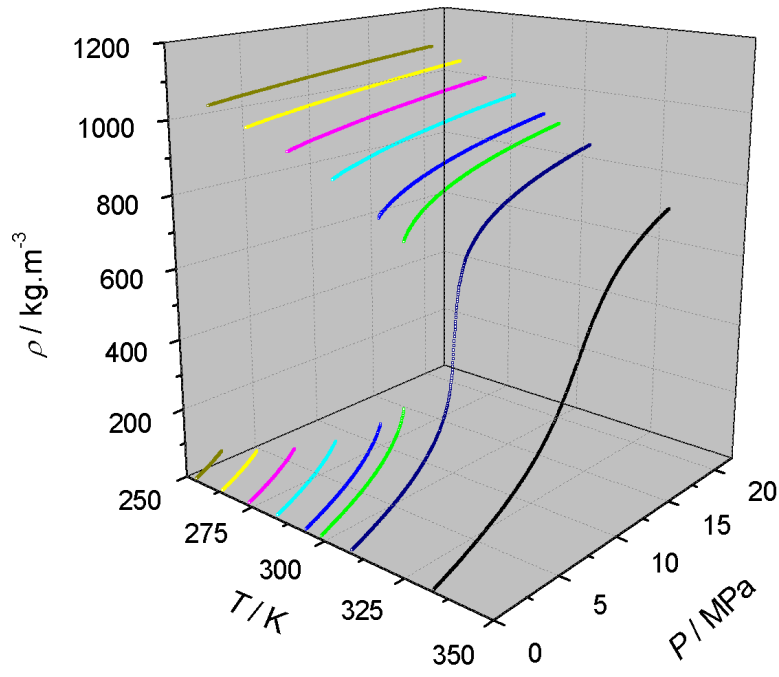


FIGURE 2

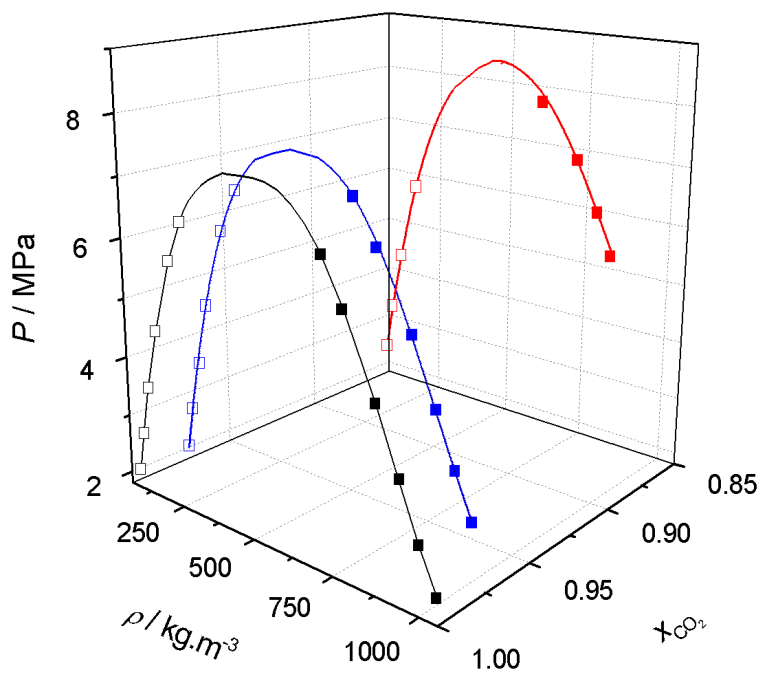


FIGURE 3

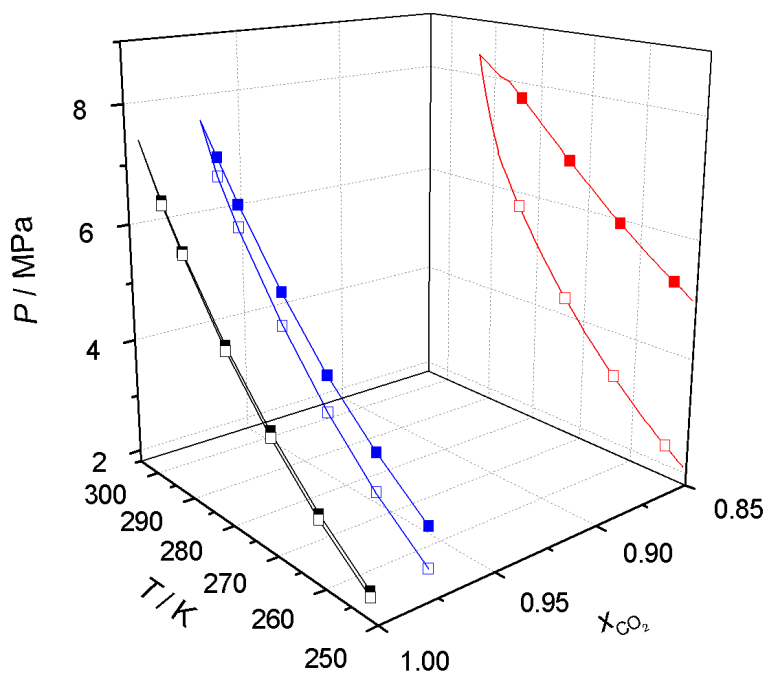


FIGURE 4

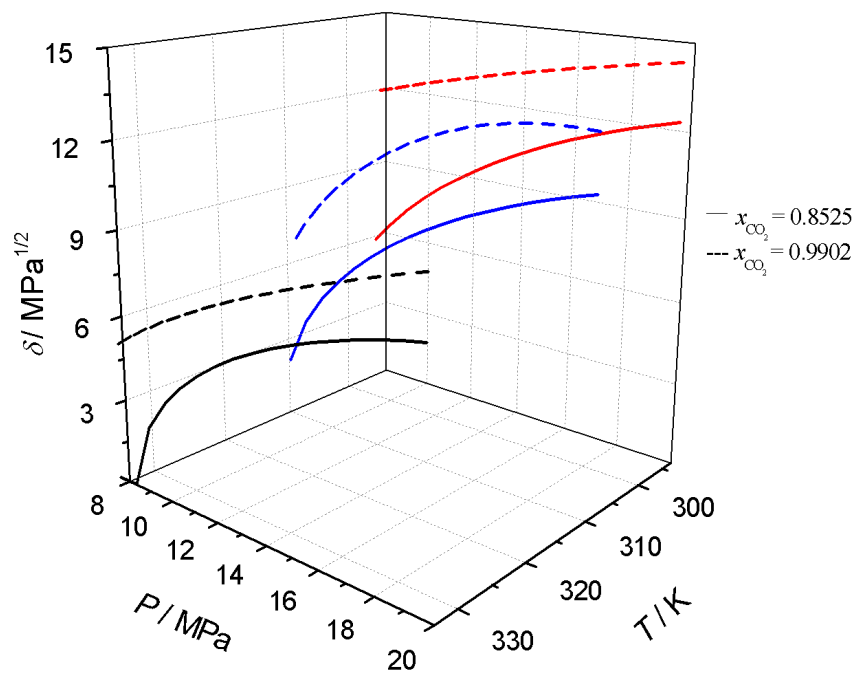
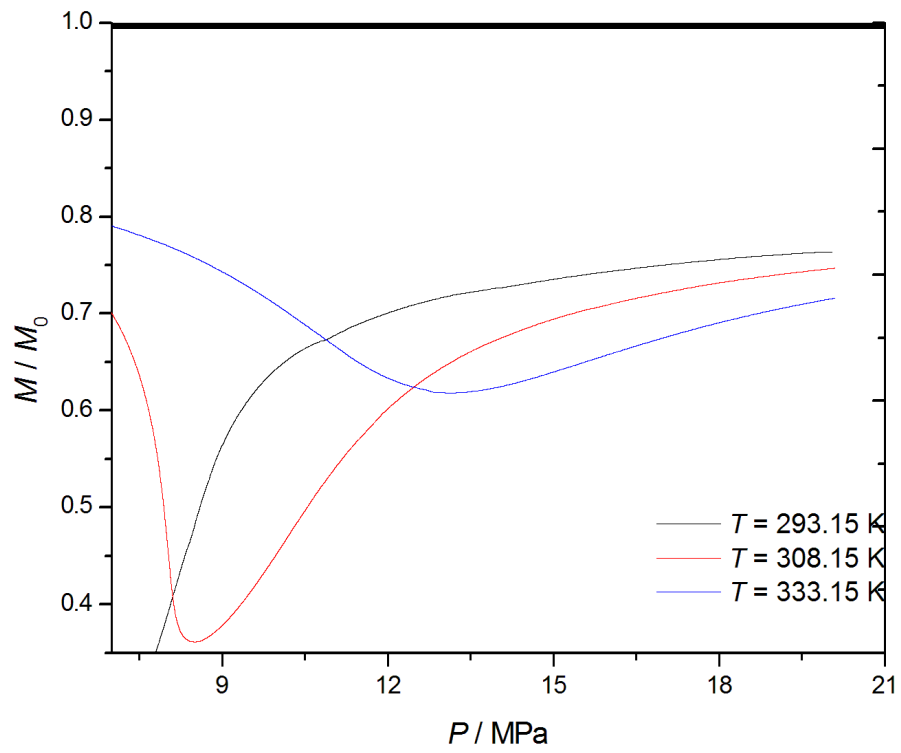




FIGURE 5

(a)



(b)

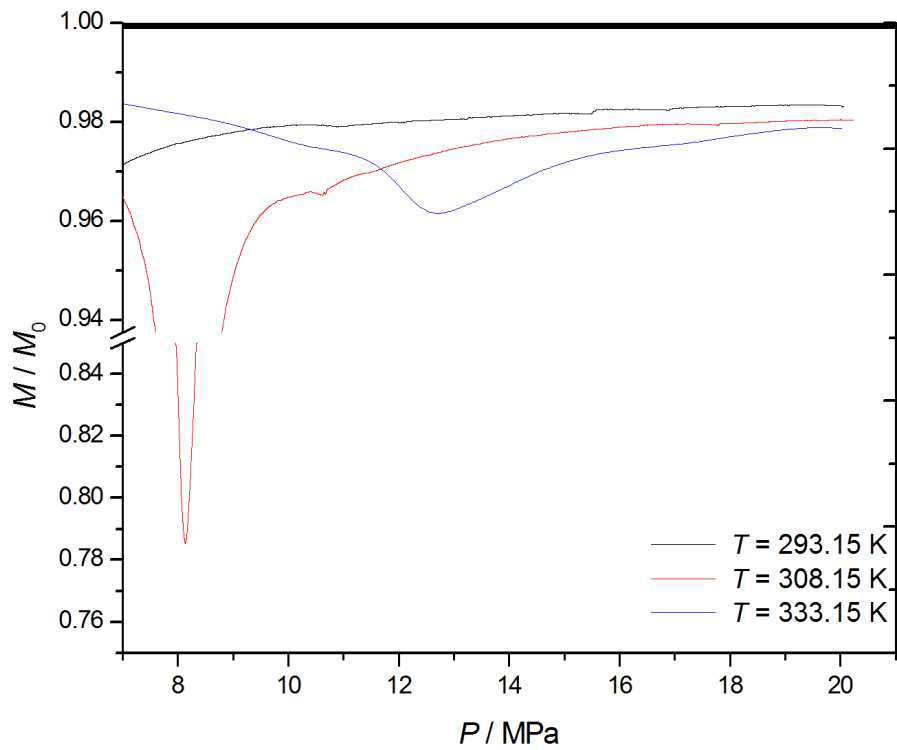
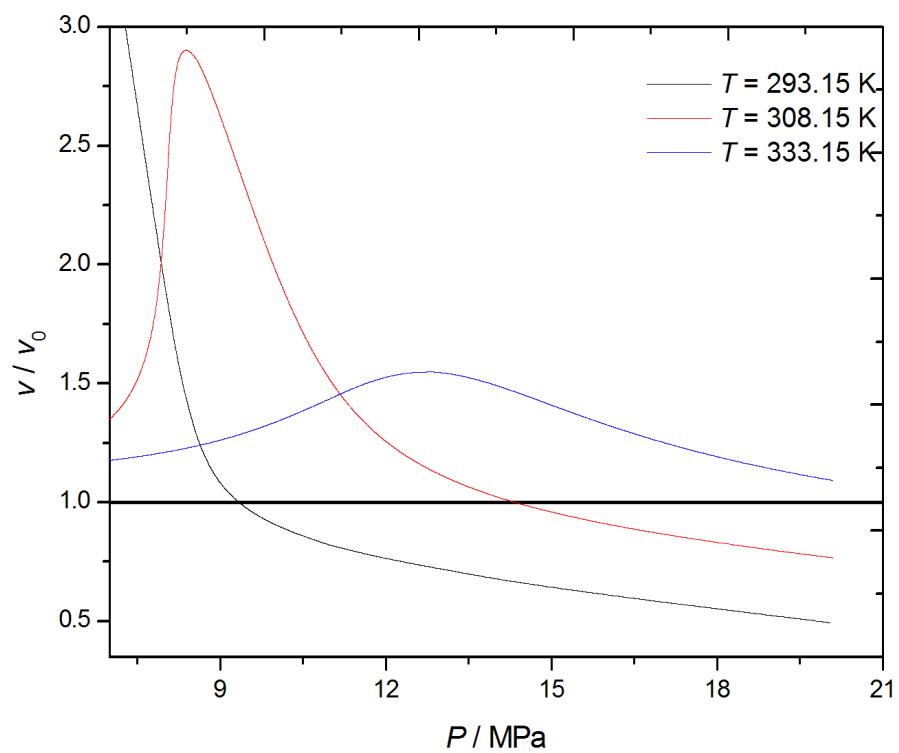


FIGURE 6

(a)



(b)

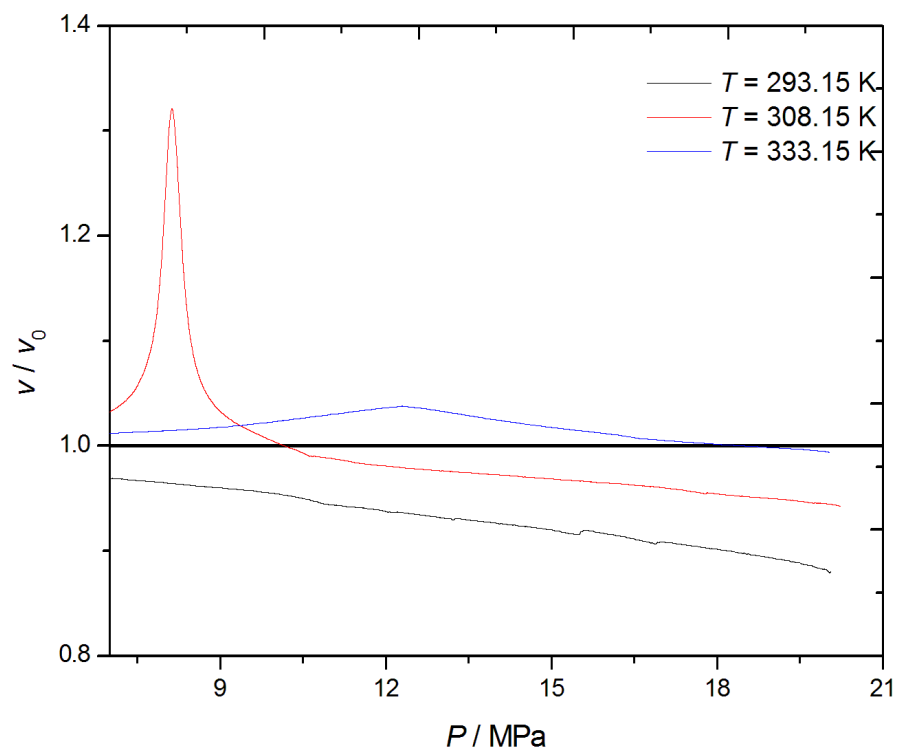
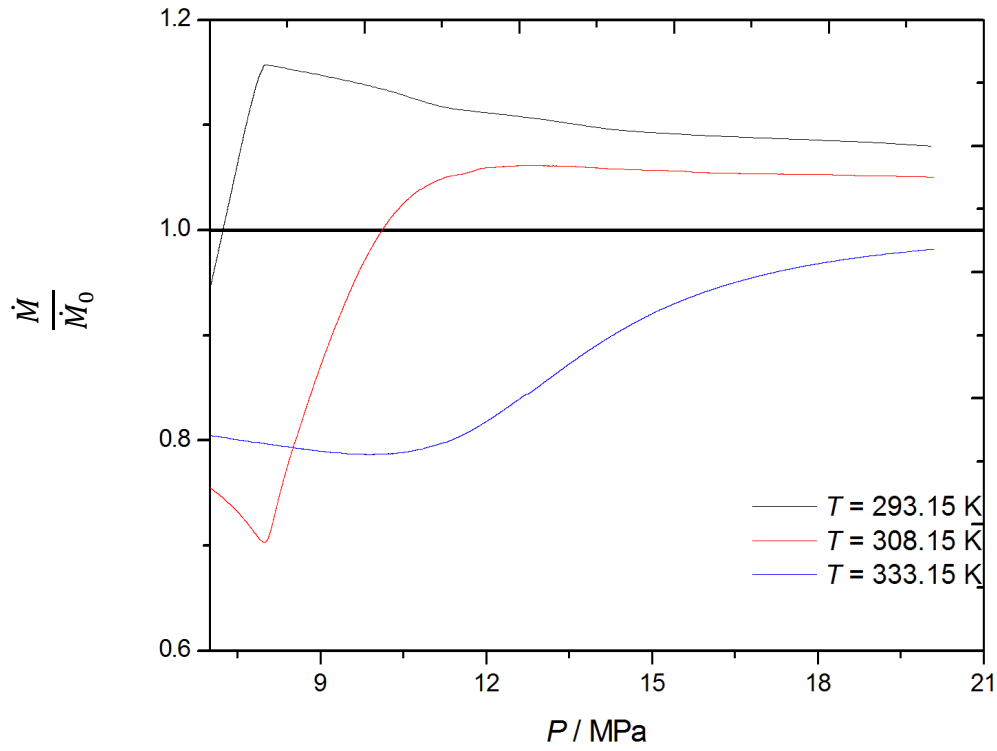
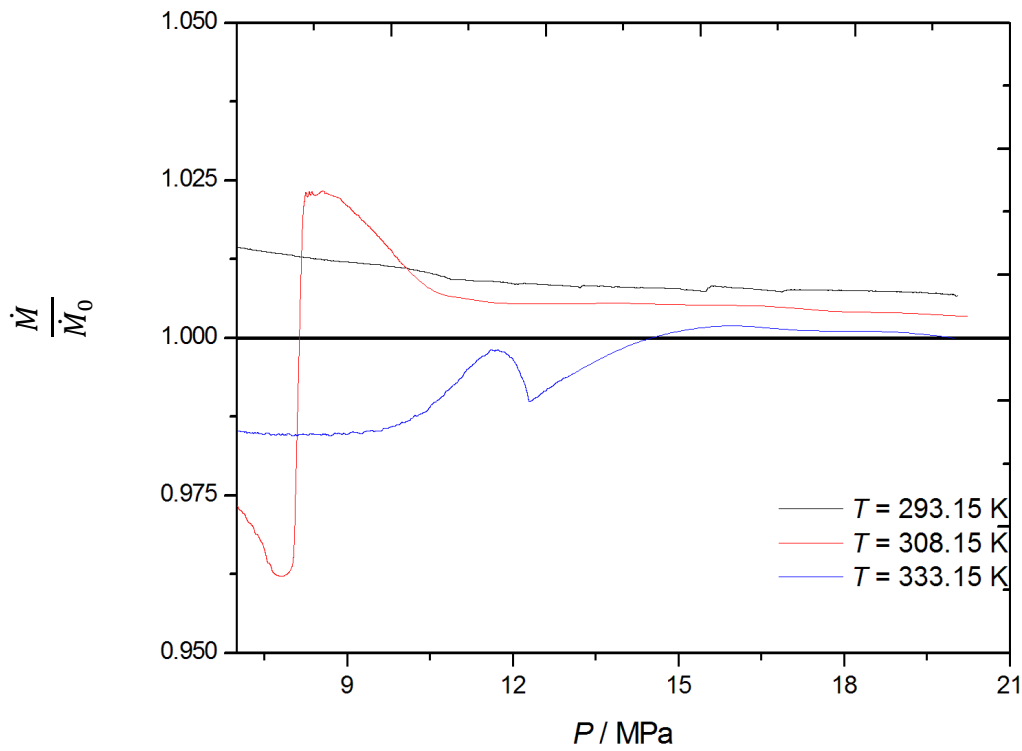


FIGURE 7

(a)



(b)



# Influence of Methane in CO<sub>2</sub> Transport and Storage for CCS Technology

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## **Supporting Information**

176 pages, 3 tables (Table S1 to S3) and 6 figures (Figure S1 to S6)

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**Table S1.**  $P\rho T$  experimental data for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures.

$T = 253.15$ K											
$x = 0.8525$		$x = 0.9719$		$x = 0.9809$		$x = 0.9902$		$x = 0.9932$		$x = 0.9961$	
$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )
20.103	929.23	20.454	1062.29	20.082	1072.45	20.200	1082.55	20.404	1087.34	20.026	1089.35
20.084	929.16	20.432	1062.24	20.060	1072.46	20.177	1082.55	20.381	1087.26	20.003	1089.35
20.065	929.08	20.410	1062.17	20.038	1072.37	20.155	1082.54	20.358	1087.20	19.981	1089.35
20.047	929.01	20.388	1062.10	20.016	1072.29	20.132	1082.47	20.335	1087.12	19.958	1089.36
20.028	928.94	20.365	1062.04	19.994	1072.22	20.110	1082.48	20.312	1087.04	19.936	1089.27
20.010	928.87	20.343	1062.01	19.972	1072.21	20.087	1082.39	20.289	1086.99	19.914	1089.27
19.991	928.80	20.321	1061.96	19.950	1072.17	20.065	1082.40	20.267	1086.91	19.891	1089.24
19.972	928.72	20.299	1061.92	19.928	1072.09	20.042	1082.40	20.244	1086.86	19.869	1089.19
19.954	928.65	20.277	1061.84	19.906	1072.04	20.020	1082.31	20.221	1086.86	19.846	1089.20
19.935	928.57	20.255	1061.79	19.884	1071.95	19.997	1082.25	20.198	1086.75	19.824	1089.11
19.916	928.50	20.232	1061.73	19.862	1071.88	19.975	1082.23	20.175	1086.69	19.801	1089.12
19.898	928.43	20.210	1061.66	19.840	1071.81	19.952	1082.15	20.152	1086.62	19.779	1089.03
19.879	928.35	20.188	1061.58	19.817	1071.79	19.930	1082.14	20.129	1086.61	19.756	1089.04
19.861	928.27	20.166	1061.52	19.795	1071.72	19.907	1082.05	20.106	1086.53	19.734	1088.95
19.842	928.20	20.144	1061.47	19.773	1071.64	19.885	1081.99	20.083	1086.45	19.712	1088.96
19.823	928.12	20.122	1061.46	19.751	1071.60	19.862	1081.95	20.060	1086.38	19.689	1088.87
19.805	928.04	20.099	1061.39	19.729	1071.56	19.840	1081.87	20.038	1086.37	19.667	1088.82
19.786	927.96	20.077	1061.32	19.707	1071.48	19.817	1081.83	20.015	1086.29	19.644	1088.79
19.768	927.89	20.055	1061.26	19.685	1071.42	19.795	1081.79	19.992	1086.23	19.622	1088.73
19.749	927.84	20.033	1061.15	19.663	1071.37	19.772	1081.75	19.969	1086.21	19.599	1088.71
19.730	927.81	20.011	1061.10	19.641	1071.27	19.750	1081.69	19.946	1086.12	19.577	1088.63
19.712	927.73	19.989	1061.04	19.619	1071.23	19.727	1081.60	19.923	1086.09	19.555	1088.55
19.693	927.65	19.966	1060.97	19.597	1071.21	19.705	1081.53	19.900	1086.01	19.532	1088.55
19.675	927.58	19.944	1060.91	19.575	1071.15	19.682	1081.50	19.877	1085.96	19.510	1088.47
19.656	927.50	19.922	1060.82	19.553	1071.03	19.660	1081.42	19.854	1085.89	19.487	1088.39
19.637	927.42	19.900	1060.77	19.531	1070.99	19.638	1081.40	19.831	1085.80	19.465	1088.39
19.619	927.35	19.878	1060.70	19.509	1070.96	19.615	1081.34	19.809	1085.76	19.442	1088.31
19.600	927.27	19.856	1060.64	19.487	1070.89	19.593	1081.28	19.786	1085.67	19.420	1088.23
19.581	927.18	19.833	1060.60	19.465	1070.83	19.570	1081.20	19.763	1085.64	19.397	1088.23
19.563	927.10	19.811	1060.50	19.443	1070.76	19.548	1081.15	19.740	1085.56	19.375	1088.15
19.544	927.02	19.789	1060.46	19.421	1070.69	19.525	1081.10	19.717	1085.52	19.353	1088.06
19.526	926.95	19.767	1060.43	19.399	1070.58	19.503	1081.04	19.694	1085.48	19.330	1088.07
19.507	926.94	19.745	1060.36	19.377	1070.53	19.480	1081.01	19.671	1085.39	19.308	1087.98
19.488	926.85	19.723	1060.30	19.355	1070.50	19.458	1080.94	19.648	1085.32	19.285	1087.90
19.470	926.77	19.700	1060.21	19.333	1070.42	19.435	1080.88	19.625	1085.24	19.263	1087.82
19.451	926.69	19.678	1060.13	19.311	1070.37	19.413	1080.81	19.602	1085.15	19.240	1087.75
19.433	926.60	19.656	1060.06	19.288	1070.31	19.390	1080.77	19.580	1085.14	19.218	1087.74
19.414	926.52	19.634	1059.99	19.266	1070.26	19.368	1080.69	19.557	1085.07	19.195	1087.66
19.395	926.46	19.612	1059.93	19.244	1070.18	19.345	1080.61	19.534	1084.99	19.173	1087.57
19.377	926.43	19.590	1059.88	19.222	1070.15	19.323	1080.55	19.511	1084.95	19.151	1087.58
19.358	926.35	19.568	1059.79	19.200	1070.08	19.300	1080.50	19.488	1084.90	19.128	1087.49
19.340	926.26	19.545	1059.77	19.178	1070.01	19.278	1080.45	19.465	1084.80	19.106	1087.42
19.321	926.17	19.523	1059.66	19.156	1069.90	19.255	1080.36	19.442	1084.74	19.083	1087.39
19.302	926.09	19.501	1059.60	19.134	1069.85	19.233	1080.31	19.419	1084.74	19.061	1087.33
19.284	926.05	19.479	1059.51	19.112	1069.79	19.210	1080.28	19.396	1084.65	19.038	1087.25
19.265	926.00	19.457	1059.46	19.090	1069.75	19.188	1080.20	19.373	1084.58	19.016	1087.17
19.246	925.92	19.435	1059.42	19.068	1069.64	19.165	1080.12	19.351	1084.50	18.993	1087.15

19.228	925.84	19.412	1059.37	19.046	1069.60	19.143	1080.09	19.328	1084.42	18.971	1087.09
19.209	925.75	19.390	1059.29	19.024	1069.58	19.120	1080.04	19.305	1084.42	18.949	1087.01
19.191	925.66	19.368	1059.23	19.002	1069.51	19.098	1079.98	19.282	1084.34	18.926	1086.92
19.172	925.57	19.346	1059.15	18.980	1069.43	19.075	1079.89	19.259	1084.27	18.904	1086.84
19.153	925.56	19.324	1059.11	18.958	1069.36	19.053	1079.79	19.236	1084.18	18.881	1086.84
19.135	925.48	19.302	1059.05	18.936	1069.28	19.030	1079.77	19.213	1084.12	18.859	1086.76
19.116	925.38	19.279	1058.99	18.914	1069.25	19.008	1079.64	19.190	1084.04	18.836	1086.68
19.098	925.30	19.257	1058.89	18.892	1069.15	18.985	1079.63	19.167	1084.01	18.814	1086.62
19.079	925.21	19.235	1058.80	18.870	1069.09	18.963	1079.55	19.144	1084.01	18.791	1086.58
19.060	925.16	19.213	1058.73	18.848	1069.01	18.941	1079.49	19.122	1083.97	18.769	1086.52
19.042	925.11	19.191	1058.66	18.826	1068.95	18.918	1079.43	19.099	1083.86	18.747	1086.43
19.023	925.02	19.169	1058.63	18.804	1068.87	18.896	1079.39	19.076	1083.77	18.724	1086.35
19.005	924.93	19.146	1058.56	18.782	1068.80	18.873	1079.33	19.053	1083.77	18.702	1086.27
18.986	924.84	19.124	1058.48	18.759	1068.76	18.851	1079.27	19.030	1083.68	18.679	1086.26
18.967	924.83	19.102	1058.40	18.737	1068.71	18.828	1079.21	19.007	1083.60	18.657	1086.19
18.949	924.74	19.080	1058.35	18.715	1068.63	18.806	1079.11	18.984	1083.56	18.634	1086.11
18.930	924.65	19.058	1058.30	18.693	1068.54	18.783	1079.06	18.961	1083.51	18.612	1086.03
18.911	924.55	19.036	1058.22	18.671	1068.46	18.761	1078.98	18.938	1083.43	18.589	1085.95
18.893	924.51	19.013	1058.16	18.649	1068.42	18.738	1078.90	18.915	1083.35	18.567	1085.95
18.874	924.45	18.991	1058.12	18.627	1068.38	18.716	1078.88	18.893	1083.31	18.545	1085.86
18.856	924.35	18.969	1058.02	18.605	1068.30	18.693	1078.78	18.870	1083.26	18.522	1085.78
18.837	924.26	18.947	1057.94	18.583	1068.22	18.671	1078.74	18.847	1083.18	18.500	1085.70
18.818	924.18	18.925	1057.89	18.561	1068.15	18.648	1078.65	18.824	1083.12	18.477	1085.64
18.800	924.15	18.903	1057.85	18.539	1068.06	18.626	1078.65	18.801	1083.09	18.455	1085.62
18.781	924.06	18.880	1057.79	18.517	1068.03	18.603	1078.52	18.778	1083.01	18.432	1085.54
18.763	923.97	18.858	1057.72	18.495	1067.97	18.581	1078.49	18.755	1082.95	18.410	1085.46
18.744	923.88	18.836	1057.65	18.473	1067.90	18.558	1078.41	18.732	1082.90	18.388	1085.37
18.725	923.79	18.814	1057.61	18.451	1067.82	18.536	1078.37	18.709	1082.81	18.365	1085.29
18.707	923.77	18.792	1057.52	18.429	1067.75	18.513	1078.30	18.686	1082.72	18.343	1085.21
18.688	923.68	18.770	1057.43	18.407	1067.73	18.491	1078.25	18.664	1082.70	18.320	1085.21
18.670	923.58	18.747	1057.38	18.385	1067.62	18.468	1078.20	18.641	1082.62	18.298	1085.13
18.651	923.53	18.725	1057.32	18.363	1067.56	18.446	1078.15	18.618	1082.55	18.275	1085.05
18.632	923.47	18.703	1057.25	18.341	1067.50	18.423	1078.09	18.595	1082.51	18.253	1085.00
18.614	923.38	18.681	1057.19	18.319	1067.43	18.401	1078.02	18.572	1082.42	18.230	1084.91
18.595	923.28	18.659	1057.08	18.297	1067.34	18.378	1077.96	18.549	1082.38	18.208	1084.89
18.576	923.26	18.637	1057.03	18.275	1067.32	18.356	1077.89	18.526	1082.31	18.186	1084.80
18.558	923.16	18.615	1057.00	18.253	1067.24	18.333	1077.84	18.503	1082.22	18.163	1084.72
18.539	923.06	18.592	1056.93	18.230	1067.16	18.311	1077.78	18.480	1082.17	18.141	1084.64
18.521	923.04	18.570	1056.84	18.208	1067.08	18.288	1077.66	18.457	1082.11	18.118	1084.62
18.502	922.95	18.548	1056.81	18.186	1067.07	18.266	1077.60	18.435	1082.02	18.096	1084.56
18.483	922.85	18.526	1056.73	18.164	1066.96	18.244	1077.59	18.412	1081.98	18.073	1084.48
18.465	922.75	18.504	1056.62	18.142	1066.91	18.221	1077.53	18.389	1081.91	18.051	1084.40
18.446	922.72	18.482	1056.58	18.120	1066.85	18.199	1077.47	18.366	1081.85	18.028	1084.31
18.428	922.64	18.459	1056.51	18.098	1066.75	18.176	1077.40	18.343	1081.80	18.006	1084.23
18.409	922.55	18.437	1056.44	18.076	1066.69	18.154	1077.33	18.320	1081.75	17.984	1084.20
18.390	922.47	18.415	1056.36	18.054	1066.60	18.131	1077.27	18.297	1081.69	17.961	1084.15
18.372	922.43	18.393	1056.28	18.032	1066.51	18.109	1077.20	18.274	1081.59	17.939	1084.07
18.353	922.33	18.371	1056.25	18.010	1066.51	18.086	1077.14	18.251	1081.49	17.916	1083.99
18.335	922.23	18.349	1056.17	17.988	1066.42	18.064	1077.07	18.228	1081.44	17.894	1083.97
18.316	922.21	18.326	1056.10	17.966	1066.34	18.041	1077.01	18.206	1081.38	17.871	1083.90
18.297	922.10	18.304	1056.05	17.944	1066.26	18.019	1076.95	18.183	1081.32	17.849	1083.82
18.279	922.01	18.282	1055.98	17.922	1066.20	17.996	1076.88	18.160	1081.26	17.826	1083.74
18.260	921.98	18.260	1055.94	17.900	1066.11	17.974	1076.81	18.137	1081.24	17.804	1083.66
18.241	921.88	18.238	1055.86	17.878	1066.10	17.951	1076.74	18.114	1081.14	17.782	1083.60
18.223	921.78	18.216	1055.82	17.856	1066.02	17.929	1076.68	18.091	1081.06	17.759	1083.53

18.204	921.74	18.193	1055.74	17.834	1065.92	17.906	1076.61	18.068	1081.01	17.737	1083.50
18.186	921.66	18.171	1055.64	17.812	1065.85	17.884	1076.55	18.045	1080.93	17.714	1083.42
18.167	921.57	18.149	1055.59	17.790	1065.81	17.861	1076.48	18.022	1080.83	17.692	1083.33
18.148	921.53	18.127	1055.54	17.768	1065.70	17.839	1076.41	17.999	1080.83	17.669	1083.25
18.130	921.42	18.105	1055.45	17.746	1065.65	17.816	1076.34	17.977	1080.75	17.647	1083.21
18.111	921.33	18.083	1055.37	17.724	1065.61	17.794	1076.27	17.954	1080.72	17.624	1083.14
18.093	921.30	18.060	1055.33	17.701	1065.53	17.771	1076.20	17.931	1080.62	17.602	1083.09
18.074	921.19	18.038	1055.26	17.679	1065.50	17.749	1076.13	17.908	1080.56	17.580	1083.01
18.055	921.10	18.016	1055.18	17.657	1065.40	17.726	1076.13	17.885	1080.51	17.557	1082.93
18.037	921.08	17.994	1055.13	17.635	1065.31	17.704	1076.03	17.862	1080.47	17.535	1082.83
18.018	920.97	17.972	1055.06	17.613	1065.28	17.681	1075.93	17.839	1080.41	17.512	1082.79
18.000	920.92	17.950	1054.96	17.591	1065.20	17.659	1075.89	17.816	1080.31	17.490	1082.76
17.981	920.84	17.927	1054.91	17.569	1065.12	17.636	1075.87	17.793	1080.24	17.467	1082.68
17.962	920.73	17.905	1054.87	17.547	1065.04	17.614	1075.81	17.770	1080.19	17.445	1082.60
17.944	920.68	17.883	1054.79	17.525	1064.97	17.591	1075.73	17.748	1080.10	17.422	1082.52
17.925	920.60	17.861	1054.72	17.503	1064.94	17.569	1075.66	17.725	1080.02	17.400	1082.45
17.907	920.51	17.839	1054.66	17.481	1064.87	17.547	1075.59	17.702	1079.99	17.378	1082.44
17.888	920.46	17.817	1054.55	17.459	1064.79	17.524	1075.52	17.679	1079.89	17.355	1082.36
17.869	920.35	17.795	1054.47	17.437	1064.71	17.502	1075.45	17.656	1079.86	17.333	1082.27
17.851	920.32	17.772	1054.45	17.415	1064.66	17.479	1075.39	17.633	1079.78	17.310	1082.19
17.832	920.21	17.750	1054.39	17.393	1064.63	17.457	1075.36	17.610	1079.69	17.288	1082.11
17.813	920.18	17.728	1054.34	17.371	1064.53	17.434	1075.32	17.587	1079.64	17.265	1082.03
17.795	920.07	17.706	1054.21	17.349	1064.39	17.412	1075.25	17.564	1079.57	17.243	1081.98
17.776	919.96	17.684	1054.15	17.327	1064.38	17.389	1075.18	17.541	1079.53	17.221	1081.95
17.758	919.93	17.662	1054.12	17.305	1064.30	17.367	1075.11	17.519	1079.46	17.198	1081.87
17.739	919.86	17.639	1054.07	17.283	1064.26	17.344	1075.03	17.496	1079.36	17.176	1081.78
17.720	919.79	17.617	1053.99	17.261	1064.16	17.322	1074.96	17.473	1079.29	17.153	1081.77
17.702	919.68	17.595	1053.90	17.239	1064.14	17.299	1074.89	17.450	1079.26	17.131	1081.70
17.683	919.62	17.573	1053.87	17.217	1064.04	17.277	1074.82	17.427	1079.22	17.108	1081.62
17.665	919.53	17.551	1053.74	17.195	1063.98	17.254	1074.74	17.404	1079.12	17.086	1081.54
17.646	919.42	17.529	1053.74	17.172	1063.89	17.232	1074.66	17.381	1079.04	17.063	1081.46
17.627	919.37	17.506	1053.63	17.150	1063.81	17.209	1074.59	17.358	1079.00	17.041	1081.45
17.609	919.29	17.484	1053.58	17.128	1063.76	17.187	1074.52	17.335	1078.90	17.019	1081.38
17.590	919.25	17.462	1053.52	17.106	1063.65	17.164	1074.45	17.312	1078.80	16.996	1081.30
17.572	919.13	17.440	1053.46	17.084	1063.65	17.142	1074.42	17.290	1078.78	16.974	1081.21
17.553	919.10	17.418	1053.37	17.062	1063.56	17.119	1074.38	17.267	1078.70	16.951	1081.13
17.534	918.98	17.396	1053.32	17.040	1063.49	17.097	1074.31	17.244	1078.65	16.929	1081.10
17.516	918.95	17.373	1053.26	17.018	1063.40	17.074	1074.24	17.221	1078.55	16.906	1081.05
17.497	918.84	17.351	1053.19	16.996	1063.32	17.052	1074.16	17.198	1078.54	16.884	1080.97
17.478	918.80	17.329	1053.11	16.974	1063.24	17.029	1074.08	17.175	1078.43	16.861	1080.89
17.460	918.68	17.307	1053.03	16.952	1063.24	17.007	1074.01	17.152	1078.36	16.839	1080.81
17.441	918.64	17.285	1052.98	16.930	1063.16	16.984	1074.01	17.129	1078.31	16.817	1080.74
17.423	918.53	17.263	1052.88	16.908	1063.08	16.962	1073.87	17.106	1078.22	16.794	1080.73
17.404	918.48	17.240	1052.80	16.886	1063.01	16.939	1073.85	17.083	1078.17	16.772	1080.64
17.385	918.40	17.218	1052.75	16.864	1062.91	16.917	1073.79	17.061	1078.12	16.749	1080.56
17.367	918.33	17.196	1052.68	16.842	1062.83	16.894	1073.72	17.038	1078.07	16.727	1080.48
17.348	918.23	17.174	1052.60	16.820	1062.83	16.872	1073.64	17.015	1077.97	16.704	1080.46
17.330	918.17	17.152	1052.55	16.798	1062.74	16.850	1073.56	16.992	1077.90	16.682	1080.40
17.311	918.06	17.130	1052.51	16.776	1062.67	16.827	1073.50	16.969	1077.84	16.659	1080.32
17.292	917.99	17.107	1052.41	16.754	1062.59	16.805	1073.46	16.946	1077.74	16.637	1080.24
17.274	917.90	17.085	1052.36	16.732	1062.50	16.782	1073.38	16.923	1077.72	16.615	1080.15
17.255	917.83	17.063	1052.28	16.710	1062.46	16.760	1073.28	16.900	1077.66	16.592	1080.09
17.237	917.74	17.041	1052.19	16.688	1062.41	16.737	1073.26	16.877	1077.59	16.570	1080.04
17.218	917.70	17.019	1052.19	16.666	1062.30	16.715	1073.19	16.854	1077.49	16.547	1079.99
17.199	917.58	16.997	1052.11	16.643	1062.24	16.692	1073.10	16.832	1077.47	16.525	1079.97

17.181	917.54	16.974	1052.02	16.621	1062.18	16.670	1073.02	16.809	1077.42	16.502	1079.91
17.162	917.49	16.952	1051.95	16.599	1062.10	16.647	1072.99	16.786	1077.32	16.480	1079.85
17.143	917.37	16.930	1051.90	16.577	1062.09	16.625	1072.95	16.763	1077.25	16.457	1079.78
17.125	917.33	16.908	1051.82	16.555	1061.96	16.602	1072.87	16.740	1077.18	16.435	1079.67
17.106	917.20	16.886	1051.71	16.533	1061.93	16.580	1072.79	16.717	1077.07	16.413	1079.58
17.088	917.16	16.864	1051.66	16.511	1061.85	16.557	1072.71	16.694	1077.00	16.390	1079.51
17.069	917.09	16.842	1051.62	16.489	1061.77	16.535	1072.63	16.671	1076.94	16.368	1079.50
17.050	917.01	16.819	1051.55	16.467	1061.69	16.512	1072.55	16.648	1076.88	16.345	1079.42
17.032	916.94	16.797	1051.50	16.445	1061.65	16.490	1072.55	16.626	1076.80	16.323	1079.33
17.013	916.85	16.775	1051.42	16.423	1061.55	16.467	1072.47	16.603	1076.73	16.300	1079.26
16.995	916.76	16.753	1051.30	16.401	1061.47	16.445	1072.39	16.580	1076.67	16.278	1079.22
16.976	916.69	16.731	1051.24	16.379	1061.44	16.422	1072.31	16.557	1076.59	16.255	1079.18
16.957	916.60	16.709	1051.22	16.357	1061.36	16.400	1072.23	16.534	1076.53	16.233	1079.10
16.939	916.53	16.686	1051.13	16.335	1061.28	16.377	1072.15	16.511	1076.50	16.211	1079.01
16.920	916.41	16.664	1051.05	16.313	1061.20	16.355	1072.10	16.488	1076.41	16.188	1078.93
16.902	916.36	16.642	1050.97	16.291	1061.15	16.332	1072.06	16.465	1076.35	16.166	1078.93
16.883	916.28	16.620	1050.89	16.269	1061.10	16.310	1071.98	16.442	1076.29	16.143	1078.85
16.864	916.20	16.598	1050.86	16.247	1061.04	16.287	1071.90	16.419	1076.21	16.121	1078.78
16.846	916.14	16.576	1050.74	16.225	1060.95	16.265	1071.82	16.397	1076.11	16.098	1078.69
16.827	916.03	16.553	1050.69	16.203	1060.87	16.242	1071.73	16.374	1076.04	16.076	1078.68
16.808	915.96	16.531	1050.65	16.181	1060.79	16.220	1071.73	16.351	1076.03	16.054	1078.59
16.790	915.90	16.509	1050.57	16.159	1060.71	16.197	1071.65	16.328	1075.91	16.031	1078.53
16.771	915.85	16.487	1050.53	16.136	1060.63	16.175	1071.56	16.305	1075.86	16.009	1078.44
16.753	915.72	16.465	1050.44	16.114	1060.62	16.153	1071.47	16.282	1075.77	15.986	1078.42
16.734	915.66	16.443	1050.36	16.092	1060.50	16.130	1071.39	16.259	1075.70	15.964	1078.33
16.715	915.61	16.420	1050.29	16.070	1060.47	16.108	1071.35	16.236	1075.66	15.941	1078.26
16.697	915.47	16.398	1050.24	16.048	1060.38	16.085	1071.29	16.213	1075.61	15.919	1078.19
16.678	915.42	16.376	1050.16	16.026	1060.30	16.063	1071.21	16.190	1075.55	15.896	1078.12
16.660	915.36	16.354	1050.07	16.004	1060.22	16.040	1071.12	16.168	1075.44	15.874	1078.04
16.641	915.30	16.332	1050.04	15.982	1060.20	16.018	1071.03	16.145	1075.37	15.852	1077.95
16.622	915.17	16.310	1049.98	15.960	1060.06	15.995	1071.00	16.122	1075.29	15.829	1077.87
16.604	915.11	16.287	1049.91	15.938	1059.97	15.973	1070.94	16.099	1075.27	15.807	1077.87
16.585	915.06	16.265	1049.83	15.916	1059.98	15.950	1070.85	16.076	1075.21	15.784	1077.79
16.567	914.97	16.243	1049.75	15.894	1059.89	15.928	1070.80	16.053	1075.09	15.762	1077.71
16.548	914.89	16.221	1049.65	15.872	1059.81	15.905	1070.76	16.030	1075.01	15.739	1077.67
16.529	914.81	16.199	1049.59	15.850	1059.73	15.883	1070.67	16.007	1074.94	15.717	1077.59
16.511	914.73	16.177	1049.53	15.828	1059.66	15.860	1070.59	15.984	1074.88	15.694	1077.55
16.492	914.65	16.154	1049.48	15.806	1059.61	15.838	1070.51	15.961	1074.79	15.672	1077.47
16.473	914.57	16.132	1049.37	15.784	1059.54	15.815	1070.46	15.939	1074.74	15.650	1077.39
16.455	914.50	16.110	1049.32	15.762	1059.49	15.793	1070.40	15.916	1074.64	15.627	1077.30
16.436	914.40	16.088	1049.24	15.740	1059.40	15.770	1070.32	15.893	1074.60	15.605	1077.26
16.418	914.32	16.066	1049.18	15.718	1059.32	15.748	1070.28	15.870	1074.56	15.582	1077.18
16.399	914.24	16.044	1049.10	15.696	1059.26	15.725	1070.21	15.847	1074.47	15.560	1077.10
16.380	914.17	16.022	1049.07	15.674	1059.17	15.703	1070.13	15.824	1074.44	15.537	1077.06
16.362	914.11	15.999	1048.97	15.652	1059.13	15.680	1070.07	15.801	1074.35	15.515	1076.98
16.343	914.00	15.977	1048.91	15.630	1059.08	15.658	1070.02	15.778	1074.24	15.492	1076.89
16.325	913.91	15.955	1048.80	15.607	1059.00	15.635	1069.94	15.755	1074.18	15.470	1076.86
16.306	913.84	15.933	1048.77	15.585	1058.95	15.613	1069.83	15.732	1074.11	15.448	1076.81
16.287	913.79	15.911	1048.69	15.563	1058.83	15.590	1069.74	15.710	1074.07	15.425	1076.74
16.269	913.67	15.889	1048.64	15.541	1058.75	15.568	1069.69	15.687	1073.99	15.403	1076.65
16.250	913.59	15.866	1048.57	15.519	1058.71	15.545	1069.64	15.664	1073.88	15.380	1076.57
16.232	913.52	15.844	1048.44	15.497	1058.67	15.523	1069.54	15.641	1073.82	15.358	1076.49
16.213	913.45	15.822	1048.41	15.475	1058.59	15.501	1069.53	15.618	1073.76	15.335	1076.46
16.194	913.39	15.800	1048.33	15.453	1058.51	15.478	1069.44	15.595	1073.70	15.313	1076.39
16.176	913.26	15.778	1048.28	15.431	1058.45	15.456	1069.34	15.572	1073.61	15.290	1076.29



16.157	913.25	15.756	1048.22	15.409	1058.34	15.433	1069.26	15.549	1073.56	15.268	1076.24
16.138	913.10	15.733	1048.11	15.387	1058.33	15.411	1069.22	15.526	1073.46	15.246	1076.16
16.120	913.03	15.711	1048.04	15.365	1058.24	15.388	1069.14	15.503	1073.41	15.223	1076.08
16.101	912.96	15.689	1047.98	15.343	1058.18	15.366	1069.04	15.481	1073.38	15.201	1076.03
16.083	912.88	15.667	1047.90	15.321	1058.10	15.343	1069.04	15.458	1073.29	15.178	1076.00
16.064	912.81	15.645	1047.81	15.299	1058.02	15.321	1068.93	15.435	1073.18	15.156	1075.92
16.045	912.74	15.623	1047.77	15.277	1057.99	15.298	1068.85	15.412	1073.11	15.133	1075.81
16.027	912.67	15.600	1047.69	15.255	1057.94	15.276	1068.80	15.389	1073.05	15.111	1075.75
16.008	912.59	15.578	1047.63	15.233	1057.90	15.253	1068.72	15.366	1072.97	15.088	1075.67
15.990	912.49	15.556	1047.55	15.211	1057.81	15.231	1068.63	15.343	1072.92	15.066	1075.59
15.971	912.38	15.534	1047.47	15.189	1057.75	15.208	1068.58	15.320	1072.84	15.044	1075.52
15.952	912.31	15.512	1047.39	15.167	1057.70	15.186	1068.53	15.297	1072.76	15.021	1075.51
15.934	912.23	15.490	1047.35	15.145	1057.60	15.163	1068.48	15.274	1072.74	14.999	1075.42
15.915	912.16	15.467	1047.31	15.123	1057.52	15.141	1068.40	15.252	1072.66	14.976	1075.34
15.897	912.09	15.445	1047.22	15.101	1057.47	15.118	1068.29	15.229	1072.53	14.954	1075.28
15.878	912.01	15.423	1047.12	15.078	1057.39	15.096	1068.22	15.206	1072.46	14.931	1075.18
15.859	911.95	15.401	1047.04	15.056	1057.29	15.073	1068.18	15.183	1072.40	14.909	1075.12
15.841	911.86	15.379	1046.98	15.034	1057.27	15.051	1068.08	15.160	1072.35	14.887	1075.07
15.822	911.79	15.357	1046.90	15.012	1057.17	15.028	1067.97	15.137	1072.27	14.864	1074.97
15.803	911.71	15.334	1046.82	14.990	1057.12	15.006	1067.95	15.114	1072.22	14.842	1074.94
15.785	911.63	15.312	1046.76	14.968	1057.08	14.983	1067.85	15.091	1072.14	14.819	1074.86
15.766	911.55	15.290	1046.65	14.946	1057.03	14.961	1067.81	15.068	1072.03	14.797	1074.76
15.748	911.43	15.268	1046.59	14.924	1056.93	14.938	1067.74	15.045	1071.96	14.774	1074.69
15.729	911.39	15.246	1046.57	14.902	1056.82	14.916	1067.65	15.023	1071.94	14.752	1074.69
15.710	911.31	15.224	1046.46	14.880	1056.72	14.893	1067.62	15.000	1071.86	14.729	1074.58
15.692	911.22	15.201	1046.40	14.858	1056.70	14.871	1067.50	14.977	1071.76	14.707	1074.53
15.673	911.14	15.179	1046.33	14.836	1056.63	14.848	1067.40	14.954	1071.70	14.685	1074.47
15.655	911.06	15.157	1046.24	14.814	1056.57	14.826	1067.37	14.931	1071.62	14.662	1074.36
15.636	910.98	15.135	1046.18	14.792	1056.47	14.804	1067.26	14.908	1071.54	14.640	1074.28
15.617	910.90	15.113	1046.10	14.770	1056.43	14.781	1067.24	14.885	1071.50	14.617	1074.21
15.599	910.82	15.091	1046.08	14.748	1056.36	14.759	1067.14	14.862	1071.41	14.595	1074.20
15.580	910.73	15.069	1046.00	14.726	1056.31	14.736	1067.08	14.839	1071.36	14.572	1074.13
15.562	910.66	15.046	1045.92	14.704	1056.21	14.714	1067.00	14.816	1071.29	14.550	1074.04
15.543	910.57	15.024	1045.84	14.682	1056.17	14.691	1066.91	14.794	1071.17	14.527	1073.96
15.524	910.49	15.002	1045.75	14.660	1056.11	14.669	1066.88	14.771	1071.13	14.505	1073.90
15.506	910.41	14.980	1045.67	14.638	1056.04	14.646	1066.77	14.748	1071.05	14.483	1073.79
15.487	910.32	14.958	1045.63	14.616	1055.94	14.624	1066.75	14.725	1070.98	14.460	1073.74
15.468	910.23	14.936	1045.57	14.594	1055.90	14.601	1066.63	14.702	1070.91	14.438	1073.67
15.450	910.14	14.913	1045.48	14.572	1055.82	14.579	1066.59	14.679	1070.84	14.415	1073.63
15.431	910.05	14.891	1045.43	14.549	1055.78	14.556	1066.50	14.656	1070.76	14.393	1073.55
15.413	909.96	14.869	1045.35	14.527	1055.65	14.534	1066.46	14.633	1070.70	14.370	1073.48
15.394	909.88	14.847	1045.22	14.505	1055.62	14.511	1066.35	14.610	1070.64	14.348	1073.38
15.375	909.84	14.825	1045.18	14.483	1055.52	14.489	1066.31	14.587	1070.54	14.325	1073.30
15.357	909.76	14.803	1045.10	14.461	1055.49	14.466	1066.20	14.565	1070.47	14.303	1073.22
15.338	909.67	14.780	1045.03	14.439	1055.41	14.444	1066.17	14.542	1070.39	14.281	1073.16
15.320	909.59	14.758	1044.95	14.417	1055.36	14.421	1066.05	14.519	1070.33	14.258	1073.12
15.301	909.51	14.736	1044.89	14.395	1055.25	14.399	1066.01	14.496	1070.25	14.236	1073.06
15.282	909.41	14.714	1044.80	14.373	1055.21	14.376	1065.93	14.473	1070.18	14.213	1072.98
15.264	909.32	14.692	1044.72	14.351	1055.13	14.354	1065.87	14.450	1070.11	14.191	1072.89
15.245	909.22	14.670	1044.70	14.329	1055.07	14.331	1065.84	14.427	1070.04	14.168	1072.89
15.227	909.18	14.647	1044.58	14.307	1054.98	14.309	1065.73	14.404	1069.96	14.146	1072.77
15.208	909.10	14.625	1044.53	14.285	1054.92	14.286	1065.69	14.381	1069.90	14.123	1072.66
15.189	909.02	14.603	1044.48	14.263	1054.90	14.264	1065.58	14.358	1069.82	14.101	1072.62
15.171	908.93	14.581	1044.38	14.241	1054.79	14.241	1065.53	14.336	1069.79	14.079	1072.57
15.152	908.83	14.559	1044.32	14.219	1054.76	14.219	1065.42	14.313	1069.71	14.056	1072.49

15.133	908.75	14.537	1044.23	14.197	1054.63	14.196	1065.36	14.290	1069.62	14.034	1072.41
15.115	908.65	14.514	1044.15	14.175	1054.59	14.174	1065.28	14.267	1069.55	14.011	1072.32
15.096	908.59	14.492	1044.13	14.153	1054.50	14.151	1065.24	14.244	1069.45	13.989	1072.24
15.078	908.48	14.470	1044.04	14.131	1054.43	14.129	1065.11	14.221	1069.41	13.966	1072.16
15.059	908.38	14.448	1043.96	14.109	1054.35	14.107	1065.03	14.198	1069.34	13.944	1072.16
15.040	908.36	14.426	1043.88	14.087	1054.29	14.084	1064.96	14.175	1069.26	13.921	1072.05
15.022	908.20	14.404	1043.80	14.065	1054.23	14.062	1064.91	14.152	1069.17	13.899	1072.00
15.003	908.17	14.381	1043.72	14.043	1054.18	14.039	1064.87	14.129	1069.08	13.877	1071.89
14.985	908.07	14.359	1043.63	14.020	1054.12	14.017	1064.76	14.107	1069.00	13.854	1071.83
14.966	907.97	14.337	1043.61	13.998	1054.06	13.994	1064.67	14.084	1068.92	13.832	1071.75
14.947	907.88	14.315	1043.52	13.976	1053.96	13.972	1064.61	14.061	1068.88	13.809	1071.69
14.929	907.80	14.293	1043.47	13.954	1053.86	13.949	1064.54	14.038	1068.81	13.787	1071.59
14.910	907.76	14.271	1043.39	13.932	1053.81	13.927	1064.48	14.015	1068.71	13.764	1071.51
14.892	907.66	14.249	1043.31	13.910	1053.73	13.904	1064.42	13.992	1068.68	13.742	1071.47
14.873	907.55	14.226	1043.23	13.888	1053.70	13.882	1064.34	13.969	1068.57	13.720	1071.43
14.854	907.47	14.204	1043.15	13.866	1053.60	13.859	1064.30	13.946	1068.51	13.697	1071.34
14.836	907.39	14.182	1043.06	13.844	1053.50	13.837	1064.24	13.923	1068.43	13.675	1071.26
14.817	907.34	14.160	1042.98	13.822	1053.45	13.814	1064.13	13.900	1068.35	13.652	1071.18
14.799	907.23	14.138	1042.91	13.800	1053.42	13.792	1064.06	13.878	1068.27	13.630	1071.10
14.780	907.14	14.116	1042.83	13.778	1053.35	13.769	1063.97	13.855	1068.19	13.607	1071.02
14.761	907.06	14.093	1042.80	13.756	1053.29	13.747	1063.89	13.832	1068.19	13.585	1070.93
14.743	907.00	14.071	1042.70	13.734	1053.17	13.724	1063.83	13.809	1068.11	13.562	1070.92
14.724	906.90	14.049	1042.66	13.712	1053.04	13.702	1063.73	13.786	1068.02	13.540	1070.84
14.705	906.82	14.027	1042.59	13.690	1053.04	13.679	1063.65	13.763	1067.93	13.518	1070.74
14.687	906.74	14.005	1042.49	13.668	1052.93	13.657	1063.60	13.740	1067.86	13.495	1070.69
14.668	906.65	13.983	1042.41	13.646	1052.84	13.634	1063.55	13.717	1067.74	13.473	1070.61
14.650	906.57	13.960	1042.33	13.624	1052.77	13.612	1063.41	13.694	1067.65	13.450	1070.53
14.631	906.49	13.938	1042.25	13.602	1052.71	13.589	1063.38	13.671	1067.61	13.428	1070.44
14.612	906.41	13.916	1042.19	13.580	1052.63	13.567	1063.31	13.649	1067.53	13.405	1070.39
14.594	906.33	13.894	1042.08	13.558	1052.58	13.544	1063.24	13.626	1067.45	13.383	1070.34
14.575	906.25	13.872	1042.06	13.536	1052.52	13.522	1063.14	13.603	1067.37	13.360	1070.26
14.557	906.16	13.850	1041.92	13.514	1052.42	13.499	1063.07	13.580	1067.30	13.338	1070.20
14.538	906.04	13.827	1041.88	13.491	1052.35	13.477	1063.02	13.557	1067.26	13.316	1070.12
14.519	906.00	13.805	1041.81	13.469	1052.31	13.454	1062.93	13.534	1067.18	13.293	1070.04
14.501	905.87	13.783	1041.76	13.447	1052.23	13.432	1062.87	13.511	1067.07	13.271	1069.95
14.482	905.79	13.761	1041.68	13.425	1052.14	13.410	1062.78	13.488	1066.99	13.248	1069.87
14.464	905.68	13.739	1041.59	13.403	1052.14	13.387	1062.72	13.465	1066.94	13.226	1069.79
14.445	905.63	13.717	1041.51	13.381	1051.99	13.365	1062.62	13.442	1066.88	13.203	1069.71
14.426	905.51	13.694	1041.43	13.359	1051.91	13.342	1062.55	13.420	1066.82	13.181	1069.63
14.408	905.47	13.672	1041.35	13.337	1051.84	13.320	1062.50	13.397	1066.73	13.158	1069.58
14.389	905.35	13.650	1041.27	13.315	1051.80	13.297	1062.45	13.374	1066.65	13.136	1069.48
14.370	905.31	13.628	1041.20	13.293	1051.74	13.275	1062.38	13.351	1066.56	13.114	1069.45
14.352	905.19	13.606	1041.15	13.271	1051.65	13.252	1062.27	13.328	1066.49	13.091	1069.38
14.333	905.13	13.584	1041.11	13.249	1051.58	13.230	1062.21	13.305	1066.40	13.069	1069.30
14.315	905.04	13.561	1041.00	13.227	1051.51	13.207	1062.16	13.282	1066.35	13.046	1069.22
14.296	904.94	13.539	1040.92	13.205	1051.41	13.185	1062.08	13.259	1066.27	13.024	1069.14
14.277	904.86	13.517	1040.86	13.183	1051.33	13.162	1062.02	13.236	1066.23	13.001	1069.07
14.259	904.78	13.495	1040.78	13.161	1051.24	13.140	1061.93	13.213	1066.13	12.979	1068.97
14.240	904.70	13.473	1040.70	13.139	1051.20	13.117	1061.80	13.191	1066.04	12.956	1068.95
14.222	904.61	13.451	1040.62	13.117	1051.13	13.095	1061.75	13.168	1065.97	12.934	1068.89
14.203	904.53	13.429	1040.59	13.095	1051.06	13.072	1061.68	13.145	1065.90	12.912	1068.80
14.184	904.45	13.406	1040.45	13.073	1050.98	13.050	1061.60	13.122	1065.82	12.889	1068.73
14.166	904.37	13.384	1040.42	13.051	1050.91	13.027	1061.53	13.099	1065.74	12.867	1068.65
14.147	904.29	13.362	1040.29	13.029	1050.83	13.005	1061.44	13.076	1065.66	12.844	1068.56
14.129	904.21	13.340	1040.29	13.007	1050.75	12.982	1061.40	13.053	1065.57	12.822	1068.48

14.110	904.12	13.318	1040.21	12.984	1050.67	12.960	1061.27	13.030	1065.56	12.799	1068.40
14.091	904.04	13.296	1040.08	12.962	1050.59	12.937	1061.22	13.007	1065.47	12.777	1068.35
14.073	903.94	13.273	1040.05	12.940	1050.55	12.915	1061.14	12.985	1065.39	12.754	1068.24
14.054	903.88	13.251	1039.96	12.918	1050.43	12.892	1061.07	12.962	1065.33	12.732	1068.16
14.035	903.75	13.229	1039.87	12.896	1050.40	12.870	1060.97	12.939	1065.24	12.710	1068.09
14.017	903.64	13.207	1039.80	12.874	1050.26	12.847	1060.92	12.916	1065.15	12.687	1068.04
13.998	903.57	13.185	1039.72	12.852	1050.24	12.825	1060.86	12.893	1065.06	12.665	1067.95
13.980	903.47	13.163	1039.64	12.830	1050.13	12.802	1060.78	12.870	1065.00	12.642	1067.91
13.961	903.40	13.140	1039.55	12.808	1050.03	12.780	1060.71	12.847	1064.92	12.620	1067.83
13.942	903.31	13.118	1039.51	12.786	1050.00	12.757	1060.63	12.824	1064.87	12.597	1067.77
13.924	903.23	13.096	1039.40	12.764	1049.89	12.735	1060.56	12.801	1064.75	12.575	1067.66
13.905	903.15	13.074	1039.36	12.742	1049.83	12.713	1060.46	12.778	1064.72	12.553	1067.58
13.887	903.06	13.052	1039.24	12.720	1049.69	12.690	1060.44	12.756	1064.59	12.530	1067.55
13.868	902.98	13.030	1039.16	12.698	1049.69	12.668	1060.33	12.733	1064.51	12.508	1067.46
13.849	902.90	13.007	1039.06	12.676	1049.61	12.645	1060.23	12.710	1064.44	12.485	1067.40
13.831	902.84	12.985	1039.03	12.654	1049.60	12.623	1060.13	12.687	1064.38	12.463	1067.29
13.812	902.71	12.963	1038.94	12.632	1049.51	12.600	1060.11	12.664	1064.28	12.440	1067.26
13.794	902.66	12.941	1038.90	12.610	1049.43	12.578	1059.99	12.641	1064.26	12.418	1067.18
13.775	902.58	12.919	1038.82	12.588	1049.32	12.555	1059.94	12.618	1064.14	12.395	1067.09
13.756	902.43	12.897	1038.74	12.566	1049.24	12.533	1059.85	12.595	1064.10	12.373	1067.01
13.738	902.41	12.874	1038.66	12.544	1049.18	12.510	1059.80	12.572	1064.04	12.351	1066.93
13.719	902.31	12.852	1038.55	12.522	1049.08	12.488	1059.72	12.549	1063.94	12.328	1066.90
13.700	902.17	12.830	1038.49	12.500	1049.04	12.465	1059.64	12.527	1063.85	12.306	1066.83
13.682	902.09	12.808	1038.41	12.478	1048.98	12.443	1059.57	12.504	1063.77	12.283	1066.73
13.663	902.02	12.786	1038.33	12.455	1048.83	12.420	1059.48	12.481	1063.73	12.261	1066.67
13.645	901.94	12.764	1038.25	12.433	1048.79	12.398	1059.39	12.458	1063.63	12.238	1066.59
13.626	901.84	12.741	1038.17	12.411	1048.73	12.375	1059.31	12.435	1063.54	12.216	1066.48
13.607	901.76	12.719	1038.08	12.389	1048.63	12.353	1059.27	12.412	1063.44	12.193	1066.44
13.589	901.68	12.697	1038.00	12.367	1048.54	12.330	1059.18	12.389	1063.38	12.171	1066.36
13.570	901.59	12.675	1037.92	12.345	1048.46	12.308	1059.10	12.366	1063.28	12.149	1066.28
13.552	901.51	12.653	1037.89	12.323	1048.43	12.285	1059.05	12.343	1063.23	12.126	1066.19
13.533	901.43	12.631	1037.80	12.301	1048.30	12.263	1058.96	12.320	1063.20	12.104	1066.11
13.514	901.35	12.608	1037.76	12.279	1048.22	12.240	1058.87	12.298	1063.12	12.081	1066.05
13.496	901.23	12.586	1037.68	12.257	1048.14	12.218	1058.82	12.275	1063.04	12.059	1065.96
13.477	901.16	12.564	1037.54	12.235	1048.12	12.195	1058.75	12.252	1062.97	12.036	1065.88
13.459	901.05	12.542	1037.51	12.213	1048.01	12.173	1058.67	12.229	1062.87	12.014	1065.82
13.440	900.94	12.520	1037.43	12.191	1047.91	12.150	1058.59	12.206	1062.80	11.991	1065.77
13.421	900.86	12.498	1037.35	12.169	1047.85	12.128	1058.49	12.183	1062.71	11.969	1065.65
13.403	900.78	12.476	1037.27	12.147	1047.72	12.105	1058.41	12.160	1062.60	11.947	1065.62
13.384	900.70	12.453	1037.19	12.125	1047.66	12.083	1058.33	12.137	1062.55	11.924	1065.54
13.365	900.61	12.431	1037.10	12.103	1047.61	12.060	1058.28	12.114	1062.46	11.902	1065.46
13.347	900.53	12.409	1037.02	12.081	1047.52	12.038	1058.19	12.091	1062.42	11.879	1065.38
13.328	900.45	12.387	1036.99	12.059	1047.48	12.016	1058.11	12.069	1062.30	11.857	1065.29
13.310	900.37	12.365	1036.86	12.037	1047.40	11.993	1058.01	12.046	1062.25	11.834	1065.21
13.291	900.28	12.343	1036.80	12.015	1047.32	11.971	1057.92	12.023	1062.18	11.812	1065.13
13.272	900.21	12.320	1036.70	11.993	1047.20	11.948	1057.90	12.000	1062.07	11.789	1065.09
13.254	900.10	12.298	1036.62	11.971	1047.10	11.926	1057.78	11.977	1061.97	11.767	1064.97
13.235	899.96	12.276	1036.59	11.949	1047.07	11.903	1057.73	11.954	1061.92	11.745	1064.95
13.217	899.92	12.254	1036.53	11.926	1046.99	11.881	1057.63	11.931	1061.88	11.722	1064.89
13.198	899.83	12.232	1036.42	11.904	1046.91	11.858	1057.60	11.908	1061.77	11.700	1064.77
13.179	899.72	12.210	1036.37	11.882	1046.83	11.836	1057.51	11.885	1061.65	11.677	1064.72
13.161	899.64	12.187	1036.24	11.860	1046.74	11.813	1057.43	11.862	1061.65	11.655	1064.64
13.142	899.51	12.165	1036.14	11.838	1046.68	11.791	1057.37	11.840	1061.48	11.632	1064.56
13.124	899.47	12.143	1036.06	11.816	1046.59	11.768	1057.28	11.817	1061.48	11.610	1064.48
13.105	899.39	12.121	1035.98	11.794	1046.50	11.746	1057.19	11.794	1061.40	11.587	1064.39

13.086	899.25	12.099	1035.90	11.772	1046.43	11.723	1057.10	11.771	1061.31	11.565	1064.31
13.068	899.23	12.077	1035.82	11.750	1046.34	11.701	1057.02	11.748	1061.24	11.543	1064.24
13.049	899.13	12.054	1035.75	11.728	1046.25	11.678	1056.94	11.725	1061.13	11.520	1064.17
13.030	899.03	12.032	1035.69	11.706	1046.26	11.656	1056.87	11.702	1061.07	11.498	1064.10
13.012	898.92	12.010	1035.62	11.684	1046.16	11.633	1056.81	11.679	1060.99	11.475	1064.07
12.993	898.86	11.988	1035.56	11.662	1046.06	11.611	1056.71	11.656	1060.91	11.453	1064.02
12.975	898.74	11.966	1035.44	11.640	1045.95	11.588	1056.65	11.633	1060.83	11.430	1063.89
12.956	898.65	11.944	1035.37	11.618	1045.93	11.566	1056.54	11.611	1060.75	11.408	1063.82
12.937	898.57	11.921	1035.30	11.596	1045.81	11.543	1056.45	11.588	1060.70	11.386	1063.74
12.919	898.47	11.899	1035.23	11.574	1045.76	11.521	1056.40	11.565	1060.58	11.363	1063.66
12.900	898.41	11.877	1035.16	11.552	1045.65	11.498	1056.36	11.542	1060.50	11.341	1063.61
12.882	898.26	11.855	1035.10	11.530	1045.58	11.476	1056.29	11.519	1060.44	11.318	1063.53
12.863	898.20	11.833	1035.04	11.508	1045.52	11.453	1056.18	11.496	1060.34	11.296	1063.45
12.844	898.08	11.811	1034.97	11.486	1045.43	11.431	1056.06	11.473	1060.25	11.273	1063.36
12.826	898.00	11.788	1034.90	11.464	1045.35	11.408	1056.01	11.450	1060.18	11.251	1063.31
12.807	897.92	11.766	1034.78	11.442	1045.27	11.386	1055.92	11.427	1060.15	11.228	1063.25
12.789	897.84	11.744	1034.70	11.420	1045.19	11.363	1055.85	11.404	1060.05	11.206	1063.16
12.770	897.76	11.722	1034.64	11.397	1045.11	11.341	1055.78	11.382	1059.96	11.184	1063.08
12.751	897.68	11.700	1034.59	11.375	1045.02	11.319	1055.68	11.359	1059.93	11.161	1063.01
12.733	897.59	11.678	1034.50	11.353	1044.94	11.296	1055.63	11.336	1059.80	11.139	1062.92
12.714	897.51	11.656	1034.39	11.331	1044.86	11.274	1055.55	11.313	1059.76	11.116	1062.84
12.695	897.40	11.633	1034.31	11.309	1044.78	11.251	1055.48	11.290	1059.68	11.094	1062.80
12.677	897.28	11.611	1034.23	11.287	1044.70	11.229	1055.39	11.267	1059.56	11.071	1062.69
12.658	897.18	11.589	1034.14	11.265	1044.61	11.206	1055.29	11.244	1059.52	11.049	1062.62
12.640	897.10	11.567	1034.08	11.243	1044.58	11.184	1055.22	11.221	1059.44	11.026	1062.60
12.621	897.02	11.545	1034.02	11.221	1044.48	11.161	1055.14	11.198	1059.36	11.004	1062.47
12.602	896.94	11.523	1033.94	11.199	1044.38	11.139	1055.09	11.175	1059.25	10.982	1062.42
12.584	896.86	11.500	1033.86	11.177	1044.29	11.116	1054.98	11.153	1059.19	10.959	1062.34
12.565	896.76	11.478	1033.76	11.155	1044.21	11.094	1054.90	11.130	1059.09	10.937	1062.25
12.547	896.63	11.456	1033.66	11.133	1044.12	11.071	1054.82	11.107	1059.03	10.914	1062.16
12.528	896.53	11.434	1033.57	11.111	1044.04	11.049	1054.73	11.084	1058.95	10.892	1062.11
12.509	896.47	11.412	1033.52	11.089	1043.98	11.026	1054.65	11.061	1058.86	10.869	1062.06
12.491	896.37	11.390	1033.45	11.067	1043.94	11.004	1054.57	11.038	1058.78	10.847	1061.94
12.472	896.29	11.367	1033.37	11.045	1043.84	10.981	1054.48	11.015	1058.70	10.824	1061.88
12.454	896.20	11.345	1033.29	11.023	1043.73	10.959	1054.45	10.992	1058.62	10.802	1061.83
12.435	896.12	11.323	1033.20	11.001	1043.63	10.936	1054.35	10.969	1058.54	10.780	1061.70
12.416	896.01	11.301	1033.13	10.979	1043.59	10.914	1054.25	10.946	1058.48	10.757	1061.69
12.398	895.89	11.279	1033.06	10.957	1043.48	10.891	1054.22	10.924	1058.37	10.735	1061.59
12.379	895.80	11.257	1032.94	10.935	1043.42	10.869	1054.10	10.901	1058.29	10.712	1061.53
12.360	895.71	11.234	1032.85	10.913	1043.37	10.846	1054.05	10.878	1058.21	10.690	1061.45
12.342	895.63	11.212	1032.77	10.891	1043.22	10.824	1053.98	10.855	1058.13	10.667	1061.36
12.323	895.53	11.190	1032.71	10.868	1043.23	10.801	1053.85	10.832	1058.05	10.645	1061.25
12.305	895.47	11.168	1032.63	10.846	1043.14	10.779	1053.81	10.809	1057.96	10.622	1061.21
12.286	895.39	11.146	1032.55	10.824	1042.98	10.756	1053.71	10.786	1057.94	10.600	1061.11
12.267	895.29	11.124	1032.48	10.802	1042.91	10.734	1053.60	10.763	1057.80	10.578	1061.04
12.249	895.17	11.101	1032.39	10.780	1042.82	10.711	1053.56	10.740	1057.79	10.555	1060.96
12.230	895.06	11.079	1032.28	10.758	1042.76	10.689	1053.50	10.717	1057.69	10.533	1060.91
12.212	894.98	11.057	1032.19	10.736	1042.69	10.666	1053.35	10.695	1057.59	10.510	1060.80
12.193	894.90	11.035	1032.14	10.714	1042.59	10.644	1053.34	10.672	1057.56	10.488	1060.75
12.174	894.82	11.013	1032.06	10.692	1042.54	10.622	1053.26	10.649	1057.45	10.465	1060.66
12.156	894.73	10.991	1031.98	10.670	1042.47	10.599	1053.17	10.626	1057.37	10.443	1060.55
12.137	894.65	10.968	1031.89	10.648	1042.35	10.577	1053.09	10.603	1057.31	10.420	1060.47
12.119	894.53	10.946	1031.79	10.626	1042.30	10.554	1052.99	10.580	1057.23	10.398	1060.42
12.100	894.41	10.924	1031.72	10.604	1042.18	10.532	1052.93	10.557	1057.06	10.376	1060.31
12.081	894.32	10.902	1031.65	10.582	1042.14	10.509	1052.85	10.534	1057.07	10.353	1060.28

12.063	894.24	10.880	1031.57	10.560	1042.00	10.487	1052.77	10.511	1056.98	10.331	1060.14
12.044	894.16	10.858	1031.49	10.538	1041.96	10.464	1052.69	10.488	1056.86	10.308	1060.13
12.025	894.08	10.835	1031.40	10.516	1041.87	10.442	1052.60	10.466	1056.78	10.286	1060.03
12.007	893.94	10.813	1031.30	10.494	1041.82	10.419	1052.52	10.443	1056.72	10.263	1059.95
11.988	893.83	10.791	1031.21	10.472	1041.73	10.397	1052.44	10.420	1056.65	10.241	1059.90
11.970	893.75	10.769	1031.15	10.450	1041.62	10.374	1052.36	10.397	1056.50	10.219	1059.81
11.951	893.67	10.747	1031.07	10.428	1041.53	10.352	1052.28	10.374	1056.44	10.196	1059.70
11.932	893.59	10.725	1030.98	10.406	1041.45	10.329	1052.19	10.351	1056.39	10.174	1059.64
11.914	893.51	10.703	1030.90	10.384	1041.39	10.307	1052.11	10.328	1056.33	10.151	1059.57
11.895	893.40	10.680	1030.81	10.362	1041.30	10.284	1052.03	10.305	1056.21	10.129	1059.43
11.877	893.26	10.658	1030.73	10.339	1041.24	10.262	1051.95	10.282	1056.14	10.106	1059.41
11.858	893.18	10.636	1030.66	10.317	1041.13	10.239	1051.87	10.259	1056.08	10.084	1059.30
11.839	893.12	10.614	1030.58	10.295	1041.10	10.217	1051.78	10.237	1055.92	10.061	1059.24
11.821	893.02	10.592	1030.48	10.273	1040.96	10.194	1051.70	10.214	1055.90	10.039	1059.16
11.802	892.94	10.570	1030.38	10.251	1040.89	10.172	1051.62	10.191	1055.84	10.017	1059.08
11.784	892.85	10.547	1030.30	10.229	1040.85	10.149	1051.57	10.168	1055.76	9.994	1059.00
11.765	892.76	10.525	1030.20	10.207	1040.76	10.127	1051.46	10.145	1055.65	9.972	1058.89
11.746	892.61	10.503	1030.12	10.185	1040.65	10.104	1051.39	10.122	1055.58	9.949	1058.83
11.728	892.53	10.481	1030.06	10.163	1040.53	10.082	1051.29	10.099	1055.44	9.927	1058.75
11.709	892.45	10.459	1029.94	10.141	1040.52	10.059	1051.21	10.076	1055.43	9.904	1058.69
11.690	892.36	10.437	1029.86	10.119	1040.39	10.037	1051.15	10.053	1055.35	9.882	1058.62
11.672	892.28	10.414	1029.79	10.097	1040.32	10.014	1051.05	10.030	1055.26	9.859	1058.50
11.653	892.12	10.392	1029.70	10.075	1040.19	9.992	1050.96	10.008	1055.16	9.837	1058.43
11.635	892.04	10.370	1029.60	10.053	1040.14	9.970	1050.88	9.985	1055.09	9.815	1058.34
11.616	891.95	10.348	1029.51	10.031	1040.11	9.947	1050.80	9.962	1055.02	9.792	1058.29
11.597	891.87	10.326	1029.44	10.009	1040.03	9.925	1050.75	9.939	1054.86	9.770	1058.18
11.579	891.79	10.304	1029.38	9.987	1039.93	9.902	1050.64	9.916	1054.82	9.747	1058.10
11.560	891.71	10.281	1029.31	9.965	1039.87	9.880	1050.56	9.893	1054.71	9.725	1058.01
11.542	891.57	10.259	1029.22	9.943	1039.75	9.857	1050.47	9.870	1054.67	9.702	1057.93
11.523	891.47	10.237	1029.12	9.921	1039.70	9.835	1050.39	9.847	1054.57	9.680	1057.85
11.504	891.43	10.215	1029.04	9.899	1039.56	9.812	1050.34	9.824	1054.53	9.657	1057.77
11.486	891.30	10.193	1028.97	9.877	1039.54	9.790	1050.23	9.801	1054.37	9.635	1057.71
11.467	891.22	10.171	1028.89	9.855	1039.39	9.767	1050.15	9.779	1054.28	9.613	1057.60
11.449	891.14	10.148	1028.76	9.833	1039.32	9.745	1050.06	9.756	1054.21	9.590	1057.54
11.430	890.97	10.126	1028.71	9.810	1039.21	9.722	1049.99	9.733	1054.12	9.568	1057.42
11.411	890.89	10.104	1028.62	9.788	1039.14	9.700	1049.91	9.710	1054.03	9.545	1057.36
11.393	890.81	10.082	1028.51	9.766	1039.11	9.677	1049.82	9.687	1053.95	9.523	1057.28
11.374	890.73	10.060	1028.46	9.744	1039.04	9.655	1049.76	9.664	1053.87	9.500	1057.26
11.356	890.64	10.038	1028.35	9.722	1038.89	9.632	1049.66	9.641	1053.79	9.478	1057.17
11.337	890.53	10.015	1028.27	9.700	1038.85	9.610	1049.57	9.618	1053.71	9.455	1057.03
11.318	890.41	9.993	1028.18	9.678	1038.72	9.587	1049.49	9.595	1053.63	9.433	1056.99
11.300	890.32	9.971	1028.09	9.656	1038.64	9.565	1049.41	9.572	1053.54	9.411	1056.87
11.281	890.24	9.949	1028.01	9.634	1038.60	9.542	1049.33	9.550	1053.46	9.388	1056.78
11.262	890.16	9.927	1027.96	9.612	1038.48	9.520	1049.27	9.527	1053.40	9.366	1056.70
11.244	890.04	9.905	1027.82	9.590	1038.44	9.497	1049.16	9.504	1053.30	9.343	1056.62
11.225	889.92	9.883	1027.75	9.568	1038.32	9.475	1049.08	9.481	1053.22	9.321	1056.54
11.207	889.83	9.860	1027.66	9.546	1038.23	9.452	1049.00	9.458	1053.13	9.298	1056.48
11.188	889.75	9.838	1027.59	9.524	1038.15	9.430	1048.92	9.435	1053.05	9.276	1056.43
11.169	889.67	9.816	1027.52	9.502	1038.07	9.407	1048.84	9.412	1052.97	9.253	1056.29
11.151	889.58	9.794	1027.41	9.480	1037.98	9.385	1048.76	9.389	1052.89	9.231	1056.21
11.132	889.48	9.772	1027.30	9.458	1037.90	9.362	1048.67	9.366	1052.78	9.209	1056.13
11.114	889.34	9.750	1027.23	9.436	1037.82	9.340	1048.59	9.344	1052.72	9.186	1056.08
11.095	889.26	9.727	1027.18	9.414	1037.74	9.317	1048.51	9.321	1052.64	9.164	1055.97
11.076	889.17	9.705	1027.09	9.392	1037.66	9.295	1048.43	9.298	1052.56	9.141	1055.92
11.058	889.09	9.683	1027.00	9.370	1037.57	9.273	1048.35	9.275	1052.48	9.119	1055.82

11.039	888.97	9.661	1026.95	9.348	1037.49	9.250	1048.26	9.252	1052.40	9.096	1055.77
11.021	888.85	9.639	1026.89	9.326	1037.41	9.228	1048.18	9.229	1052.32	9.074	1055.64
11.002	888.77	9.617	1026.72	9.303	1037.41	9.205	1048.10	9.206	1052.23	9.052	1055.56
10.983	888.65	9.594	1026.69	9.281	1037.32	9.183	1048.00	9.183	1052.15	9.029	1055.47
10.965	888.60	9.572	1026.59	9.259	1037.22	9.160	1047.94	9.160	1052.07	9.007	1055.39
10.946	888.46	9.550	1026.49	9.237	1037.14	9.138	1047.85	9.137	1051.99	8.984	1055.31
10.927	888.36	9.528	1026.43	9.215	1037.07	9.115	1047.77	9.115	1051.91	8.962	1055.23
10.909	888.28	9.506	1026.36	9.193	1037.01	9.093	1047.69	9.092	1051.82	8.939	1055.15
10.890	888.19	9.484	1026.23	9.171	1036.87	9.070	1047.61	9.069	1051.74	8.917	1055.06
10.872	888.11	9.461	1026.17	9.149	1036.84	9.048	1047.52	9.046	1051.66	8.894	1054.98
10.853	887.95	9.439	1026.07	9.127	1036.71	9.025	1047.44	9.023	1051.58	8.872	1054.90
10.834	887.87	9.417	1026.02	9.105	1036.61	9.003	1047.36	9.000	1051.50	8.850	1054.82
10.816	887.79	9.395	1025.92	9.083	1036.59	8.980	1047.26	8.977	1051.33	8.827	1054.74
10.797	887.68	9.373	1025.81	9.061	1036.53	8.958	1047.20	8.954	1051.25	8.805	1054.66
10.779	887.54	9.351	1025.73	9.039	1036.45	8.935	1047.12	8.931	1051.33	8.782	1054.57
10.760	887.46	9.328	1025.66	9.017	1036.36	8.913	1047.04	8.908	1051.13	8.760	1054.49
10.741	887.38	9.306	1025.58	8.995	1036.27	8.890	1046.95	8.886	1051.07	8.737	1054.41
10.723	887.30	9.284	1025.52	8.973	1036.18	8.868	1046.87	8.863	1051.01	8.715	1054.33
10.704	887.21	9.262	1025.45	8.951	1036.10	8.845	1046.79	8.840	1050.91	8.692	1054.25
10.686	887.05	9.240	1025.32	8.929	1036.02	8.823	1046.71	8.817	1050.84	8.670	1054.16
10.667	886.97	9.218	1025.25	8.907	1035.93	8.800	1046.63	8.794	1050.74	8.648	1054.08
10.648	886.89	9.195	1025.18	8.885	1035.84	8.778	1046.54	8.771	1050.67	8.625	1054.00
10.630	886.81	9.173	1025.11	8.863	1035.75	8.755	1046.46	8.748	1050.56	8.603	1053.92
10.611	886.69	9.151	1025.03	8.841	1035.69	8.733	1046.38	8.725	1050.51	8.580	1053.84
10.592	886.58	9.129	1024.89	8.819	1035.64	8.710	1046.30	8.702	1050.36	8.558	1053.75
10.574	886.48	9.107	1024.84	8.797	1035.55	8.688	1046.18	8.679	1050.27	8.535	1053.67
10.555	886.40	9.085	1024.77	8.774	1035.46	8.665	1046.05	8.657	1050.25	8.513	1053.59
10.537	886.31	9.062	1024.64	8.752	1035.35	8.643	1045.99	8.634	1050.13	8.490	1053.51
10.518	886.15	9.040	1024.52	8.730	1035.27	8.620	1045.96	8.611	1050.08	8.468	1053.43
10.499	886.07	9.018	1024.49	8.708	1035.22	8.598	1045.82	8.588	1049.96	8.446	1053.34
10.481	885.99	8.996	1024.42	8.686	1035.15	8.576	1045.73	8.565	1049.92	8.423	1053.26
10.462	885.89	8.974	1024.31	8.664	1035.05	8.553	1045.64	8.542	1049.80	8.401	1053.17
10.444	885.74	8.952	1024.23	8.642	1034.95	8.531	1045.56	8.519	1049.69	8.378	1053.10
10.425	885.66	8.930	1024.14	8.620	1034.84	8.508	1045.51	8.496	1049.65	8.356	1053.02
10.406	885.58	8.907	1024.02	8.598	1034.79	8.486	1045.40	8.473	1049.53	8.333	1052.94
10.388	885.50	8.885	1024.00	8.576	1034.72	8.463	1045.31	8.450	1049.45	8.311	1052.82
10.369	885.33	8.863	1023.91	8.554	1034.61	8.441	1045.26	8.428	1049.37	8.288	1052.77
10.351	885.25	8.841	1023.78	8.532	1034.55	8.418	1045.15	8.405	1049.28	8.266	1052.69
10.332	885.17	8.819	1023.73	8.510	1034.48	8.396	1045.07	8.382	1049.20	8.244	1052.54
10.313	885.09	8.797	1023.61	8.488	1034.41	8.373	1045.01	8.359	1049.12	8.221	1052.47
10.295	884.97	8.774	1023.53	8.466	1034.33	8.351	1044.91	8.336	1049.04	8.199	1052.41
10.276	884.86	8.752	1023.45	8.444	1034.23	8.328	1044.82	8.313	1048.96	8.176	1052.36
10.257	884.76	8.730	1023.37	8.422	1034.11	8.306	1044.74	8.290	1048.88	8.154	1052.28
10.239	884.68	8.708	1023.29	8.400	1034.05	8.283	1044.66	8.267	1048.79	8.131	1052.19
10.220	884.55	8.686	1023.18	8.378	1033.97	8.261	1044.58	8.244	1048.71	8.109	1052.07
10.202	884.43	8.664	1023.08	8.356	1033.90	8.238	1044.50	8.221	1048.63	8.086	1052.00
10.183	884.35	8.641	1023.02	8.334	1033.80	8.216	1044.41	8.199	1048.55	8.064	1051.91
10.164	884.26	8.619	1022.91	8.312	1033.71	8.193	1044.33	8.176	1048.47	8.042	1051.86
10.146	884.19	8.597	1022.86	8.290	1033.63	8.171	1044.25	8.153	1048.38	8.019	1051.75
10.127	884.02	8.575	1022.80	8.268	1033.52	8.148	1044.17	8.130	1048.30	7.997	1051.68
10.109	883.94	8.553	1022.67	8.245	1033.44	8.126	1044.09	8.107	1048.22	7.974	1051.62
10.090	883.86	8.531	1022.56	8.223	1033.35	8.103	1044.01	8.084	1048.14	7.952	1051.50
10.071	883.72	8.508	1022.49	8.201	1033.31	8.081	1043.92	8.061	1048.06	7.929	1051.45
10.053	883.61	8.486	1022.39	8.179	1033.16	8.058	1043.84	8.038	1047.97	7.907	1051.31
10.034	883.53	8.464	1022.30	8.157	1033.12	8.036	1043.76	8.015	1047.83	7.885	1051.26

10.016	883.45	8.442	1022.22	8.135	1032.99	8.013	1043.68	7.992	1047.81	7.862	1051.13
9.997	883.30	8.420	1022.15	8.113	1032.93	7.991	1043.60	7.970	1047.65	7.840	1051.07
9.978	883.21	8.398	1022.06	8.091	1032.85	7.968	1043.46	7.947	1047.56	7.817	1050.97
9.960	883.12	8.375	1021.95	8.069	1032.77	7.946	1043.35	7.924	1047.50	7.795	1050.89
9.941	883.00	8.353	1021.85	8.047	1032.67	7.923	1043.27	7.901	1047.40	7.772	1050.85
9.922	882.92	8.331	1021.75	8.025	1032.55	7.901	1043.19	7.878	1047.32	7.750	1050.79
9.904	882.80	8.309	1021.67	8.003	1032.47	7.879	1043.19	7.855	1047.24	7.727	1050.64
9.885	882.71	8.287	1021.58	7.981	1032.38	7.856	1043.09	7.832	1047.15	7.705	1050.56
9.867	882.55	8.265	1021.44	7.959	1032.32	7.834	1042.95	7.809	1047.07	7.683	1050.48
9.848	882.47	8.242	1021.36	7.937	1032.25	7.811	1042.86	7.786	1046.99	7.660	1050.39
9.829	882.39	8.220	1021.29	7.915	1032.16	7.789	1042.77	7.763	1046.91	7.638	1050.31
9.811	882.30	8.198	1021.16	7.893	1032.00	7.766	1042.69	7.741	1046.80	7.615	1050.23
9.792	882.14	8.176	1021.10	7.871	1031.92	7.744	1042.61	7.718	1046.74	7.593	1050.15
9.774	882.06	8.154	1020.99	7.849	1031.84	7.721	1042.53	7.695	1046.70	7.570	1050.07
9.755	881.98	8.132	1020.91	7.827	1031.75	7.699	1042.45	7.672	1046.58	7.548	1049.99
9.736	881.90	8.110	1020.79	7.805	1031.66	7.676	1042.37	7.649	1046.52	7.525	1049.90
9.718	881.74	8.087	1020.71	7.783	1031.59	7.654	1042.28	7.626	1046.41	7.503	1049.82
9.699	881.65	8.065	1020.58	7.761	1031.46	7.631	1042.21	7.603	1046.35	7.481	1049.71
9.681	881.57	8.043	1020.54	7.739	1031.38	7.609	1042.08	7.580	1046.24	7.458	1049.62
9.662	881.40	8.021	1020.47	7.716	1031.31	7.586	1042.04	7.557	1046.19	7.436	1049.54
9.643	881.32	7.999	1020.38	7.694	1031.18	7.564	1041.96	7.534	1046.09	7.413	1049.44
9.625	881.24	7.977	1020.26	7.672	1031.13	7.541	1041.85	7.512	1045.97	7.391	1049.35
9.606	881.14	7.954	1020.17	7.650	1031.02	7.519	1041.72	7.489	1045.93	7.368	1049.26
9.587	881.00	7.932	1020.09	7.628	1030.92	7.496	1041.66	7.466	1045.79	7.346	1049.16
9.569	880.91	7.910	1020.01	7.606	1030.82	7.474	1041.54	7.443	1045.75	7.323	1049.08
9.550	880.80	7.888	1019.90	7.584	1030.69	7.451	1041.46	7.420	1045.61	7.301	1049.00
9.532	880.67	7.866	1019.80	7.562	1030.66	7.429	1041.41	7.397	1045.59	7.279	1048.92
9.513	880.59	7.844	1019.72	7.540	1030.53	7.406	1041.30	7.374	1045.51	7.256	1048.84
9.494	880.51	7.821	1019.61	7.518	1030.44	7.384	1041.22	7.351	1045.40	7.234	1048.73
9.476	880.38	7.799	1019.52	7.496	1030.34	7.361	1041.14	7.328	1045.33	7.211	1048.67
9.457	880.26	7.777	1019.46	7.474	1030.27	7.339	1041.05	7.305	1045.26	7.189	1048.59
9.439	880.18	7.755	1019.38	7.452	1030.17	7.316	1040.97	7.283	1045.12	7.166	1048.48
9.420	880.09	7.733	1019.31	7.430	1030.06	7.294	1040.89	7.260	1045.06	7.144	1048.43
9.401	879.93	7.711	1019.22	7.408	1029.95	7.271	1040.81	7.237	1044.96	7.121	1048.34
9.383	879.85	7.688	1019.11	7.386	1029.87	7.249	1040.73	7.214	1044.89	7.099	1048.18
9.364	879.76	7.666	1019.05	7.364	1029.79	7.226	1040.59	7.191	1044.82	7.077	1048.10
9.346	879.62	7.644	1018.93	7.342	1029.69	7.204	1040.55	7.168	1044.70	7.054	1048.02
9.327	879.52	7.622	1018.82	7.320	1029.61	7.182	1040.40	7.145	1044.58	7.032	1047.93
9.308	879.44	7.600	1018.77	7.298	1029.50	7.159	1040.32	7.122	1044.50	7.009	1047.85
9.290	879.28	7.578	1018.64	7.276	1029.38	7.137	1040.23	7.099	1044.41	6.987	1047.77
9.271	879.20	7.555	1018.60	7.254	1029.29	7.114	1040.15	7.076	1044.34	6.964	1047.69
9.252	879.11	7.533	1018.50	7.232	1029.21	7.092	1040.07	7.054	1044.29	6.942	1047.61
9.234	878.97	7.511	1018.37	7.210	1029.10	7.069	1039.99	7.031	1044.18	6.919	1047.52
9.215	878.87	7.489	1018.27	7.187	1029.05	7.047	1039.91	7.008	1044.09	6.897	1047.44
9.197	878.79	7.467	1018.16	7.165	1028.93	7.024	1039.82	6.985	1044.01	6.875	1047.33
9.178	878.69	7.445	1018.12	7.143	1028.81	7.002	1039.74	6.962	1043.88	6.852	1047.21
9.159	878.54	7.422	1018.04	7.121	1028.72	6.979	1039.64	6.939	1043.84	6.830	1047.16
9.141	878.46	7.400	1017.90	7.099	1028.58	6.957	1039.52	6.916	1043.75	6.807	1047.03
9.122	878.29	7.378	1017.80	7.077	1028.54	6.934	1039.41	6.893	1043.65	6.785	1046.97
9.104	878.22	7.356	1017.72	7.055	1028.42	6.912	1039.35	6.870	1043.57	6.762	1046.87
9.085	878.13	7.334	1017.64	7.033	1028.31	6.889	1039.27	6.847	1043.48	6.740	1046.79
9.066	878.05	7.312	1017.53	7.011	1028.22	6.867	1039.17	6.825	1043.39	6.718	1046.70
9.048	877.89	7.290	1017.42	6.989	1028.14	6.844	1039.09	6.802	1043.30	6.695	1046.62
9.029	877.80	7.267	1017.36	6.967	1027.99	6.822	1038.99	6.779	1043.22	6.673	1046.54
9.011	877.68	7.245	1017.23	6.945	1027.91	6.799	1038.87	6.756	1043.14	6.650	1046.46

8.992	877.56	7.223	1017.14	6.923	1027.81	6.777	1038.81	6.733	1043.05	6.628	1046.33
8.973	877.48	7.201	1017.07	6.901	1027.73	6.754	1038.74	6.710	1042.94	6.605	1046.29
8.955	877.37	7.179	1016.98	6.879	1027.65	6.732	1038.59	6.687	1042.82	6.583	1046.16
8.936	877.23	7.157	1016.90	6.857	1027.48	6.709	1038.51	6.664	1042.73	6.560	1046.12
8.917	877.15	7.134	1016.80	6.835	1027.27	6.687	1038.43	6.641	1042.65	6.538	1046.01
8.899	876.99	7.112	1016.67	6.813	1026.97	6.664	1038.35	6.618	1042.56	6.516	1045.95
8.880	876.90	7.090	1016.57	6.791	1026.83	6.642	1038.27	6.596	1042.48	6.493	1045.83
8.862	876.82	7.068	1016.49	6.769	1026.83	6.619	1038.18	6.573	1042.38	6.471	1045.76
8.843	876.69	7.046	1016.41	6.747	1026.74	6.597	1038.06	6.550	1042.30	6.448	1045.64
8.824	876.58	7.024	1016.33	6.725	1026.67	6.574	1037.94	6.527	1042.16	6.426	1045.56
8.806	876.50	7.001	1016.24	6.703	1026.74	6.552	1037.85	6.504	1042.12	6.403	1045.49
8.787	876.35	6.979	1016.16	6.681	1026.66	6.529	1037.78	6.481	1042.01	6.381	1045.39
8.769	876.25	6.957	1016.08	6.658	1026.43	6.507	1037.69	6.458	1041.91	6.358	1045.31
8.750	876.17	6.935	1016.00	6.636	1026.36	6.485	1037.61	6.435	1041.85	6.336	1045.14
8.731	876.00	6.913	1015.91	6.614	1026.26	6.462	1037.53	6.412	1041.69	6.314	1045.06
8.713	875.92	6.891	1015.75	6.592	1026.16	6.440	1037.44	6.389	1041.63	6.291	1044.98
8.694	875.84	6.868	1015.70	6.570	1026.09	6.417	1037.28	6.367	1041.50	6.269	1044.90
8.676	875.68	6.846	1015.61	6.548	1026.01	6.395	1037.20	6.344	1041.45	6.246	1044.73
8.657	875.60	6.824	1015.51	6.526	1025.93	6.372	1037.12	6.321	1041.33	6.224	1044.65
8.638	875.51	6.802	1015.42	6.504	1025.84	6.350	1037.07	6.298	1041.23	6.201	1044.61
8.620	875.35	6.780	1015.31	6.482	1025.51	6.327	1037.00	6.275	1040.92	6.179	1044.53
8.601	875.27	6.758	1015.18	6.460	1025.43	6.305	1036.89	6.252	1040.87	6.156	1044.41
8.582	875.10	6.735	1015.10	6.438	1025.34	6.282	1036.70	6.229	1040.84	6.134	1044.32
8.564	875.02	6.713	1015.01	6.416	1025.35	6.260	1036.62	6.206	1040.67	6.112	1044.24
8.545	874.88	6.691	1014.93	6.394	1025.26	6.237	1036.51	6.183	1040.59	6.089	1044.16
8.527	874.78	6.669	1014.81	6.372	1025.18	6.215	1036.42	6.160	1040.51	6.067	1044.07
8.508	874.69	6.647	1014.73	6.350	1025.10	6.192	1036.29	6.138	1040.43	6.044	1044.00
8.489	874.53	6.625	1014.64	6.328	1025.02	6.170	1036.21	6.115	1040.32	6.022	1043.91
8.471	874.45	6.602	1014.55	6.306	1024.94	6.147	1036.13	6.092	1040.26	5.999	1043.83
8.452	874.31	6.580	1014.44	6.284	1024.85	6.125	1036.05	6.069	1040.14	5.977	1043.75
8.434	874.20	6.558	1014.35	6.262	1024.77	6.102	1035.97	6.046	1040.08	5.954	1043.67
8.415	874.05	6.536	1014.28	6.240	1024.66	6.080	1035.88	6.023	1039.96	5.932	1043.54
8.396	873.96	6.514	1014.18	6.218	1024.57	6.057	1035.80	6.000	1039.87	5.910	1043.51
8.378	873.87	6.492	1014.03	6.196	1024.53	6.035	1035.71	5.977	1039.84	5.887	1043.35
8.359	873.76	6.469	1013.95	6.174	1024.45	6.012	1035.60	5.954	1039.69	5.865	1043.26
8.341	873.63	6.447	1013.85	6.152	1024.35	5.990	1035.47	5.931	1039.61	5.842	1043.19
8.322	873.54	6.425	1013.78	6.129	1024.22	5.967	1035.41	5.909	1039.56	5.820	1043.09
8.303	873.38	6.403	1013.70	6.107	1024.16	5.945	1035.32	5.886	1039.44	5.797	1043.01
8.285	873.29	6.381	1013.57	6.085	1024.06	5.922	1035.27	5.863	1039.41	5.775	1042.94
8.266	873.14	6.359	1013.46	6.063	1023.95	5.900	1035.20	5.840	1039.29	5.752	1042.90
8.248	873.06	6.337	1013.37	6.041	1023.87	5.877	1035.06	5.817	1039.20	5.730	1042.75
8.229	872.89	6.314	1013.29	6.019	1023.83	5.855	1034.98	5.794	1039.16	5.708	1042.68
8.210	872.81	6.292	1013.13	5.997	1023.71	5.832	1034.92	5.771	1039.05	5.685	1042.60
8.192	872.65	6.270	1013.04	5.975	1023.63	5.810	1034.82	5.748	1038.94	5.663	1042.52
8.173	872.56	6.248	1012.96	5.953	1023.55	5.788	1034.76	5.725	1038.90	5.640	1042.42
8.154	872.40	6.226	1012.88	5.931	1023.47	5.765	1034.63	5.703	1038.83	5.618	1042.36
8.136	872.32	6.204	1012.75	5.909	1023.35	5.743	1034.57	5.680	1038.74	5.595	1042.27
8.117	872.24	6.181	1012.67	5.887	1023.30	5.720	1034.48	5.657	1038.67	5.573	1042.19
8.099	872.07	6.159	1012.55	5.865	1023.20	5.698	1034.38	5.634	1038.59	5.551	1042.12
8.080	871.99	6.137	1012.47	5.843	1023.11	5.675	1034.33	5.611	1038.49	5.528	1042.02
8.061	871.90	6.115	1012.39	5.821	1023.00	5.653	1034.25	5.588	1038.39	5.506	1041.93
8.043	871.74	6.093	1012.28	5.799	1022.90	5.630	1034.17	5.565	1038.29	5.483	1041.84
8.024	871.66	6.071	1012.14	5.777	1022.89	5.608	1034.05	5.542	1038.22	5.461	1041.74
8.006	871.50	6.048	1012.07	5.755	1022.74	5.585	1033.98	5.519	1038.08	5.438	1041.65
7.987	871.42	6.026	1011.94	5.733	1022.68	5.563	1033.89	5.496	1038.00	5.416	1041.60



7.968	871.27	6.004	1011.87	5.711	1022.57	5.540	1033.75	5.474	1037.92	5.393	1041.47
7.950	871.17	5.982	1011.82	5.689	1022.50	5.518	1033.69	5.451	1037.81	5.371	1041.37
7.931	871.09	5.960	1011.73	5.667	1022.39	5.495	1033.59	5.428	1037.75	5.349	1041.37
7.913	870.93	5.938	1011.58	5.645	1022.34	5.473	1033.55	5.405	1037.68	5.326	1041.27
7.894	870.84	5.915	1011.54	5.622	1022.23	5.450	1033.46	5.382	1037.58	5.304	1041.18
7.875	870.69	5.893	1011.41	5.600	1022.15	5.428	1033.34	5.359	1037.49	5.281	1041.11
7.857	870.60	5.871	1011.31	5.578	1022.06	5.405	1033.24	5.336	1037.41	5.259	1041.03
7.838	870.43	5.849	1011.24	5.556	1021.96	5.383	1033.17	5.313	1037.33	5.236	1040.93
7.819	870.35	5.827	1011.11	5.534	1021.86	5.360	1033.05	5.290	1037.25	5.214	1040.81
7.801	870.19	5.805	1011.00	5.512	1021.76	5.338	1033.01	5.267	1037.18	5.191	1040.72
7.782	870.11	5.782	1010.97	5.490	1021.73	5.315	1032.91	5.245	1037.10	5.169	1040.55
7.764	869.94	5.760	1010.84	5.468	1021.64	5.293	1032.81	5.222	1037.02	5.147	1040.47
7.745	869.86	5.738	1010.73	5.446	1021.54	5.270	1032.70	5.199	1036.93	5.124	1040.30
7.726	869.70	5.716	1010.66	5.424	1021.43	5.248	1032.68	5.176	1036.83	5.102	1040.07
7.708	869.62	5.694	1010.59	5.402	1021.33	5.225	1032.57	5.153	1036.73	5.079	1039.97
7.689	869.53	5.672	1010.45	5.380	1021.25	5.203	1032.47	5.130	1036.64	5.057	1039.92
7.671	869.37	5.649	1010.38	5.358	1021.13	5.180	1032.37	5.107	1036.60	5.034	1039.82
7.652	869.29	5.627	1010.27	5.336	1021.09	5.158	1032.27	5.084	1036.53	5.012	1039.75
7.633	869.12	5.605	1010.17	5.314	1020.99	5.136	1032.22	5.061	1036.44	4.989	1039.69
7.615	869.04	5.583	1010.10	5.292	1020.88	5.113	1032.13	5.038	1036.35	4.967	1039.62
7.596	868.88	5.561	1010.01	5.270	1020.78	5.091	1032.03	5.016	1036.25	4.945	1039.55
7.578	868.80	5.539	1009.90	5.248	1020.67	5.068	1031.92	4.993	1036.16	4.922	1039.47
7.559	868.63	5.517	1009.78	5.226	1020.56	5.046	1031.82	4.970	1036.06	4.900	1039.40
7.540	868.55	5.494	1009.71	5.204	1020.47	5.023	1031.72	4.947	1035.95	4.877	1039.32
7.522	868.42	5.472	1009.62	5.182	1020.43	5.001	1031.62	4.924	1035.86	4.855	1039.25
7.503	868.32	5.450	1009.52	5.160	1020.34	4.978	1031.55	4.901	1035.78	4.832	1039.17
7.484	868.22	5.428	1009.39	5.138	1020.24	4.956	1031.46	4.878	1035.69	4.810	1039.04
7.466	868.09	5.406	1009.34	5.116	1020.12	4.933	1031.37	4.855	1035.61	4.787	1038.91
7.447	867.98	5.384	1009.23	5.093	1020.05	4.911	1031.26	4.832	1035.50	4.765	1038.86
7.429	867.87	5.361	1009.08	5.071	1019.98	4.888	1031.15	4.809	1035.40	4.743	1038.81
7.410	867.73	5.339	1009.01	5.049	1019.87	4.866	1031.09	4.787	1035.32	4.720	1038.73
7.391	867.65	5.317	1008.97	5.027	1019.75	4.843	1031.03	4.764	1035.22	4.698	1038.64
7.373	867.48	5.295	1008.87	5.005	1019.64	4.821	1030.92	4.741	1035.08	4.675	1038.55
7.354	867.34	5.273	1008.75	4.983	1019.61	4.798	1030.82	4.718	1035.00	4.653	1038.46
7.336	867.24	5.251	1008.67	4.961	1019.50	4.776	1030.71	4.695	1034.97	4.630	1038.37
7.317	867.10	5.228	1008.58	4.939	1019.37	4.753	1030.61	4.672	1034.92	4.608	1038.27
7.298	866.99	5.206	1008.50	4.917	1019.31	4.731	1030.50	4.649	1034.81	4.585	1038.17
7.280	866.83	5.184	1008.42	4.895	1019.27	4.708	1030.47	4.626	1034.72	4.563	1038.08
7.261	866.75	5.162	1008.34	4.873	1019.12	4.686	1030.38	4.603	1034.65	4.541	1038.00
7.243	866.61	5.140	1008.25	4.851	1018.99	4.663	1030.27	4.580	1034.57	4.518	1037.91
7.224	866.47	5.118	1008.14	4.829	1018.95	4.641	1030.17	4.558	1034.48	4.496	1037.83
7.205	866.34	5.095	1008.02	4.807	1018.79	4.618	1030.06	4.535	1034.35	4.473	1037.73
7.187	866.22	5.073	1007.91	4.785	1018.73	4.596	1029.96	4.512	1034.24	4.451	1037.64
7.168	866.09	5.051	1007.80	4.763	1018.62	4.573	1029.88	4.489	1034.15	4.428	1037.54
7.149	866.01	5.029	1007.76	4.741	1018.57	4.551	1029.83	4.466	1034.06	4.406	1037.44
7.131	865.85	5.007	1007.67	4.719	1018.46	4.528	1029.72	4.443	1033.98	4.384	1037.34
7.112	865.68	4.985	1007.57	4.697	1018.34	4.506	1029.62	4.420	1033.86	4.361	1037.29
7.094	865.60	4.962	1007.45	4.675	1018.22	4.483	1029.52	4.397	1033.72	4.339	1037.24
7.075	865.44	4.940	1007.33	4.653	1018.09	4.461	1029.41	4.374	1033.67	4.316	1037.17
7.056	865.28	4.918	1007.24	4.631	1018.05	4.439	1029.29	4.351	1033.61	4.294	1037.06
7.038	865.19	4.896	1007.15	4.609	1017.93	4.416	1029.24	4.329	1033.47	4.271	1036.96
7.019	865.05	4.874	1007.07	4.587	1017.80	4.394	1029.16	4.306	1033.35	4.249	1036.86
7.001	864.94	4.852	1006.97	4.564	1017.75	4.371	1029.06	4.283	1033.27	4.226	1036.76
6.982	864.78	4.829	1006.85	4.542	1017.60	4.349	1028.94	4.260	1033.19	4.204	1036.66
6.963	864.62	4.807	1006.73	4.520	1017.55	4.326	1028.83	4.237	1033.11	4.182	1036.55

6.945	864.53	4.785	1006.67	4.498	1017.43	4.304	1028.73	4.214	1033.02	4.159	1036.47
6.926	864.37	4.763	1006.58	4.476	1017.31	4.281	1028.65	4.191	1032.94	4.137	1036.40
6.908	864.21	4.741	1006.49	4.454	1017.23	4.259	1028.59	4.168	1032.85	4.114	1036.28
6.889	864.12	4.719	1006.39	4.432	1017.14	4.236	1028.42	4.145	1032.74	4.092	1036.16
6.870	863.96	4.696	1006.28	4.410	1017.04	4.214	1028.37	4.122	1032.66	4.069	1036.05
6.852	863.88	4.674	1006.15	4.388	1016.90	4.191	1028.27	4.100	1032.58	4.047	1036.04
6.833	863.71	4.652	1006.02	4.366	1016.82	4.169	1028.16	4.077	1032.47	4.024	1035.90
6.814	863.55	4.630	1005.95	4.344	1016.74	4.146	1028.04	4.054	1032.35	4.002	1035.79
6.796	863.39	4.608	1005.87	4.322	1016.57	4.124	1027.97	4.031	1032.26	3.980	1035.78
6.777	863.10	4.586	1005.75	4.300	1016.51	4.101	1027.89	4.008	1032.18	3.957	1035.68
6.759	862.86	4.564	1005.64	4.278	1016.41	4.079	1027.78	3.985	1032.10	3.935	1035.59
6.740	862.70	4.541	1005.52	4.256	1016.27	4.056	1027.67	3.962	1032.02	3.912	1035.49
6.721	862.49	4.519	1005.41	4.234	1016.16	4.034	1027.56	3.939	1031.94	3.890	1035.35
6.703	862.31	4.497	1005.30	4.212	1016.08	4.011	1027.45	3.916	1031.84	3.867	1035.22
6.684	862.16	4.475	1005.18	4.190	1015.96	3.989	1027.39	3.893	1031.73	3.845	1035.19
6.666	862.00	4.453	1004.93	4.168	1015.89	3.966	1027.30	3.871	1031.61	3.822	1035.09
6.647	861.86	4.431	1004.76	4.146	1015.75	3.944	1027.19	3.848	1031.51	3.800	1034.99
6.628	861.70	4.408	1004.68	4.124	1015.67	3.921	1027.09	3.825	1031.42	3.778	1034.90
6.610	861.58	4.386	1004.55	4.102	1015.58	3.899	1026.99	3.802	1031.32	3.755	1034.81
6.591	861.41	4.364	1004.49	4.080	1015.42	3.876	1026.88	3.779	1031.23	3.733	1034.72
6.573	861.25	4.342	1004.39	4.058	1015.32	3.854	1026.79	3.756	1031.13	3.710	1034.37
6.554	861.10	4.320	1004.30	4.035	1015.17	3.831	1026.69	3.733	1031.02	3.688	1033.93
6.535	860.92	4.298	1004.18	4.013	1015.09	3.809	1026.58	3.710	1030.68	3.665	1033.82
6.517	860.75	4.275	1004.10	3.991	1014.92	3.786	1026.47	3.687	1030.26	3.643	1033.73
6.498	860.59	4.253	1003.97	3.969	1014.84	3.764	1026.38	3.664	1030.09	3.620	1033.65
6.479	860.43	4.231	1003.83	3.947	1014.68	3.742	1026.27	3.642	1030.01	3.598	1033.57
6.461	860.26	4.209	1003.72	3.925	1014.60	3.719	1026.18	3.619	1029.80	3.576	1033.49
6.442	860.10	4.187	1003.63	3.903	1014.51	3.697	1026.08	3.596	1029.93	3.553	1033.40
6.424	859.87	4.165	1003.56	3.881	1014.35	3.674	1025.99	3.573	1029.61	3.531	1033.32
6.405	859.68	4.142	1003.45	3.859	1014.27	3.652	1025.90	3.550	1029.78	3.508	1033.24
6.386	859.45	4.120	1003.34	3.837	1014.13	3.629	1025.80	3.527	1029.34	3.486	1033.16
6.368	859.27	4.098	1003.21	3.815	1014.02	3.607	1025.54	3.504	1029.30	3.463	1033.06
6.349	859.06	4.076	1003.12	3.793	1013.94	3.584	1025.25	3.481	1029.18	3.441	1032.91
6.331	858.84	4.054	1002.94	3.771	1013.85	3.562	1025.13	3.458	1029.10	3.418	1032.83
6.312	858.59	4.032	1002.86	3.749	1013.69	3.539	1024.96	3.435	1029.47	3.396	1032.75
6.293	858.37	4.009	1002.73	3.727	1013.61	3.517	1024.95	3.413	1028.85	3.374	1032.67
6.275	858.07	3.987	1002.62	3.705	1013.44	3.494	1024.80	3.390	1029.12	3.351	1032.50
6.256	857.79	3.965	1002.55	3.683	1013.36	3.472	1024.72	3.367	1028.69	3.329	1032.44
6.238	857.46	3.943	1002.38	3.661	1013.28	3.449	1024.64	3.344	1029.22	3.306	1032.34
6.219	857.21	3.921	1002.30	3.639	1013.11	3.427	1024.48	3.321	1028.49	3.284	1032.26
6.200	856.92	3.899	1002.18	3.617	1013.03	3.404	1024.40	3.298	1028.43	3.261	1032.17
6.182	856.63	3.876	1002.05	3.595	1012.95	3.382	1024.31	3.275	1028.30	3.239	1032.09
6.163	856.38	3.854	1001.97	3.573	1012.80	3.359	1024.23	3.252	1028.87	3.217	1031.99
6.144	856.06	3.832	1001.82	3.551	1011.17	3.337	1024.14	3.229	1028.08	3.194	1031.84
6.126	855.79	3.810	1001.73	3.529	1012.62	3.314	1024.07	3.206	1028.36	3.172	1031.76
6.107	855.53	3.788	1001.59	3.506	1012.54	3.292	1024.05	3.184	1027.91	3.149	1031.68
6.089	855.27	3.766	1001.46	3.484	1012.38	3.269	1023.83	3.161	1028.01	3.127	1031.61
6.070	854.99	3.744	1001.36	3.462	1012.29	3.247	1023.71	3.138	1027.74	3.104	1031.52
6.051	854.74	3.721	1001.22	3.440	1012.21	3.224	1023.66	3.115	1028.02	3.082	1031.40
6.033	854.49	3.699	1001.05	3.418	1012.05	3.202	1023.63	3.092	1028.12	3.059	1031.28
6.014	854.22	3.677	1000.96	3.396	1010.11	3.179	1023.78	3.069	1027.38	3.037	1031.19
5.996	853.91	3.655	1000.85	3.374	1010.01	3.157	1023.61	3.046	1028.12	3.015	1031.10
5.977	853.67	3.633	1000.69	3.352	1009.88	3.134	1023.64	3.023	1027.24	2.992	1030.98
5.958	853.42	3.611	1000.56	3.330	1009.81	3.112	1023.16	3.000	1027.57	2.970	1030.89
5.940	853.14	3.588	1000.40	3.308	1009.71	3.089	1023.21	2.977	1027.43	2.947	1030.78

5.921	852.90	3.566	1000.30	3.286	1009.61	3.067	1022.96	2.955	1026.91	2.925	1030.69
5.903	852.63	3.544	1000.14	3.264	1009.55	3.045	1022.86	2.932	1026.80	2.902	1030.57
5.884	852.35	3.522	999.98	3.242	1009.46	3.022	1022.75	2.909	1026.76	2.880	1030.53
5.865	852.02	3.500	999.86	3.220	1009.32	3.000	1022.66	2.886	1026.79	2.857	1030.36
5.847	851.74	3.478	999.74	3.198	1009.20	2.977	1022.60	2.863	1026.47	2.835	1030.21
5.828	851.36	3.455	999.57	3.176	1009.14	2.955	1022.57	2.840	1026.49	2.813	1030.12
5.809	851.04	3.433	999.47	3.154	1009.06	2.932	1022.46	2.817	1026.31	2.790	1030.04
5.791	850.63	3.411	999.30	3.132	1008.98	2.910	1022.27	2.794	1026.16	2.768	1029.89
5.772	850.28	3.389	999.19	3.110	1008.87	2.887	1022.14	2.771	1026.47	2.745	1029.79
5.754	849.95	3.367	999.03	3.088	1008.81	2.865	1022.02	2.748	1025.98	2.723	1029.71
5.735	849.62	3.345	998.89	3.066	1008.68	2.842	1021.93	2.726	1026.19	2.700	1029.57
5.716	849.21	3.322	998.70	3.044	1008.57	2.820	1021.82	2.703	1026.57	2.678	1029.50
5.698	848.88	3.300	998.53	3.022	1008.49	2.797	1021.72	2.680	1025.57	2.655	1029.38
5.679	848.55	3.278	998.38	3.000	1008.40	2.775	1021.61	2.657	1025.48	2.633	1029.30
5.661	848.09	3.256	998.10	2.977	1008.32	2.752	1021.42	2.634	1026.08	2.611	1029.15
5.642	847.82	3.234	997.69	2.955	1008.16	2.730	1021.34	2.611	1025.34	2.588	1029.06
5.623	847.56	3.212	997.52	2.933	1008.15	2.707	1021.27	2.588	1025.18	2.566	1028.97
5.605	847.23	3.189	997.37	2.911	1007.99	2.685	1021.10	2.565	1025.06	2.543	1028.88
5.586	846.90	3.167	997.12	2.889	1007.91	2.662	1020.94	2.542	1025.01	2.521	1028.74
5.568	846.57	3.145	996.94	2.867	1007.75	2.640	1020.77	2.519	1025.37	2.498	1028.70
5.549	846.32	3.123	996.71	2.845	1007.66	2.617	1020.72	2.497	1024.75	2.476	1028.56
5.530	845.91	3.101	996.49	2.823	1007.50	2.595	1020.55	2.474	1024.64	2.453	1028.47
5.512	845.58	3.079	996.35	2.801	1007.42	2.572	1020.49	2.451	1024.50	2.431	1028.34
5.493	845.07	3.056	996.20	2.779	1007.32	2.550	1020.36	2.428	1025.22	2.409	1028.27
5.474	844.63	3.034	996.10	2.757	1007.17	2.527	1020.25	2.405	1024.28	2.386	1028.14
5.456	844.26	3.012	995.98	2.735	1007.09	2.505	1020.18	2.382	1024.18	2.364	1028.06
5.437	843.90	2.990	995.86	2.713	1007.01	2.482	1020.05	2.359	1024.04	2.341	1027.90
5.419	843.52	2.968	995.73	2.691	1006.86	2.460	1019.95	2.336	1024.66	2.319	1027.81
5.400	843.10	2.946	995.54	2.669	1006.76	2.437	1019.82	2.313	1024.46	2.296	1027.73
5.381	842.52	2.923	995.41	2.647	1006.67	2.415	1019.70	2.290	1023.76	2.274	1027.57
5.363	842.16	2.901	995.33	2.625	1006.51	2.392	1019.60	2.268	1023.60	2.251	1027.49
5.344	841.78	2.879	995.20	2.603	1006.43	2.370	1019.47	2.245	1023.51	2.229	1027.32
5.326	841.32	2.857	995.05	2.581	1006.27	2.348	1019.34	2.222	1023.34	2.207	1027.24
5.307	840.96	2.835	994.96	2.559	1006.18	2.325	1019.22	2.199	1023.26	2.184	1027.07
5.288	840.50	2.813	994.86	2.537	1006.02	2.303	1019.11	2.176	1023.10	2.162	1026.99
5.270	839.96	2.791	994.72	2.515	1005.94	2.280	1018.96	2.153	1022.93	2.139	1026.83
5.251	839.41	2.768	994.56	2.493	1005.86	2.258	1018.80	1.977	51.82	2.117	1026.74
5.233	839.14	2.746	994.47	2.471	1005.69	2.235	1018.63	1.968	51.60	2.094	1026.58
2.397	57.46	2.038	52.78	2.015	52.70	1.985	51.66	1.958	51.33	1.975	51.66
2.385	57.07	2.028	52.33	2.005	51.99	1.976	51.34	1.949	51.00	1.966	51.17
2.374	56.68	2.019	51.98	1.996	51.53	1.967	51.04	1.939	50.62	1.956	50.91
2.362	56.30	2.009	51.59	1.986	51.22	1.957	50.68	1.930	50.19	1.947	50.55
2.351	55.94	1.999	51.26	1.976	50.94	1.948	50.34	1.920	49.80	1.937	50.20
2.339	55.55	1.990	50.99	1.967	50.57	1.939	50.03	1.911	49.59	1.928	49.88
2.328	55.17	1.980	50.64	1.957	50.27	1.929	49.73	1.901	49.39	1.918	49.58
2.316	54.87	1.970	50.31	1.948	49.98	1.920	49.43	1.892	49.13	1.909	49.25
2.305	54.48	1.960	50.02	1.938	49.61	1.911	49.13	1.882	48.81	1.900	48.97
2.293	54.10	1.951	49.68	1.928	49.31	1.901	48.80	1.873	48.49	1.890	48.63
2.282	53.80	1.941	49.35	1.919	48.95	1.892	48.46	1.863	48.14	1.881	48.32
2.270	53.43	1.931	49.01	1.909	48.64	1.882	48.14	1.854	47.78	1.871	48.02
2.259	53.05	1.922	48.77	1.900	48.36	1.873	48.00	1.844	47.39	1.862	47.68
2.247	52.68	1.912	48.44	1.890	48.06	1.864	47.52	1.835	47.00	1.853	47.35
2.236	52.32	1.902	48.09	1.880	47.70	1.854	47.24	1.825	46.63	1.843	47.08
2.224	51.97	1.893	47.76	1.871	47.42	1.845	46.97	1.816	46.32	1.834	46.77
2.213	51.60	1.883	47.48	1.861	47.11	1.836	46.60	1.806	46.01	1.824	46.43

2.201	51.31	1.873	47.17	1.852	46.78	1.826	46.29	1.797	45.70	1.815	46.12
2.189	50.94	1.863	46.84	1.842	46.42	1.817	46.01	1.787	45.39	1.805	45.90
2.178	50.58	1.854	46.57	1.832	46.15	1.808	45.74	1.778	45.10	1.796	45.52
2.166	50.21	1.844	46.25	1.823	45.80	1.798	45.44	1.768	44.90	1.787	45.19
2.155	49.87	1.834	45.94	1.813	45.52	1.789	45.10	1.759	44.70	1.777	44.95
2.143	49.57	1.825	45.68	1.804	45.17	1.780	44.77	1.749	44.46	1.768	44.63
2.132	49.21	1.815	45.37	1.794	44.90	1.770	44.50	1.740	44.14	1.758	44.36
2.120	48.86	1.805	45.02	1.784	44.62	1.761	44.30	1.730	43.81	1.749	44.05
2.109	48.52	1.796	44.72	1.775	44.27	1.751	43.96	1.721	43.43	1.740	43.73
2.097	48.17	1.786	44.39	1.765	44.00	1.742	43.63	1.711	43.05	1.730	43.47
2.086	47.81	1.776	44.07	1.755	43.74	1.733	43.32	1.702	42.67	1.721	43.17
2.074	47.54	1.766	43.84	1.746	43.39	1.723	43.02	1.692	42.47	1.711	42.84
2.063	47.19	1.757	43.50	1.736	43.13	1.714	42.74	1.683	42.28	1.702	42.56
2.051	46.84	1.747	43.18	1.727	42.78	1.705	42.46	1.673	42.07	1.692	42.28
2.040	46.49	1.737	42.86	1.717	42.51	1.695	42.19	1.664	41.81	1.683	41.96
2.028	46.16	1.728	42.56	1.707	42.20	1.686	41.89	1.654	41.54	1.674	41.64
2.017	45.82	1.718	42.26	1.698	41.90	1.677	41.58	1.645	41.26	1.664	41.41
2.005	45.47	1.708	42.02	1.688	41.64	1.667	41.30	1.635	40.93	1.655	41.10
1.993	45.20	1.699	41.70	1.679	41.30	1.658	41.07	1.626	40.59	1.645	40.84
1.982	44.86	1.689	41.41	1.669	41.05	1.648	40.86	1.616	40.25	1.636	40.55
1.970	44.52	1.679	41.09	1.659	40.73	1.639	40.60	1.607	39.92	1.627	40.23
1.959	44.21	1.669	40.82	1.650	40.43	1.630	40.16	1.597	39.58	1.617	39.91
1.947	43.91	1.660	40.51	1.640	40.16	1.620	39.89	1.588	39.35	1.608	39.69
1.936	43.57	1.650	40.28	1.631	39.84	1.611	39.64	1.578	39.17	1.598	39.38
1.924	43.24	1.640	39.96	1.621	39.59	1.602	39.37	1.569	38.98	1.589	39.14
1.913	42.90	1.631	39.66	1.611	39.29	1.592	39.05	1.559	38.68	1.579	38.84
1.901	42.57	1.621	39.43	1.602	39.02	1.583	38.75	1.550	38.34	1.570	38.56
1.890	42.31	1.611	39.06	1.592	38.75	1.574	38.56	1.540	38.01	1.561	38.30
1.878	41.93	1.602	38.81	1.583	38.43	1.564	38.26	1.531	37.67	1.551	37.97
1.867	41.60	1.592	38.54	1.573	38.18	1.555	37.91	1.521	37.34	1.542	37.69
1.855	41.35	1.582	38.23	1.563	37.87	1.546	37.61	1.512	37.00	1.532	37.43
1.844	41.02	1.573	38.01	1.554	37.60	1.536	37.35	1.502	36.72	1.523	37.15
1.832	40.69	1.563	37.65	1.544	37.35	1.527	37.08	1.493	36.43	1.514	36.85
1.821	40.37	1.553	37.35	1.534	37.02	1.517	36.82	1.483	36.14	1.504	36.61
1.809	40.08	1.543	37.14	1.525	36.76	1.508	36.56	1.474	35.96	1.495	36.34
1.797	39.80	1.534	36.84	1.515	36.46	1.499	36.28	1.464	35.78	1.485	36.03
1.786	39.48	1.524	36.55	1.506	36.20	1.489	35.99	1.455	35.61	1.476	35.80
1.774	39.16	1.514	36.25	1.496	35.95	1.480	35.75	1.445	35.26	1.466	35.50
1.763	38.86	1.505	35.97	1.486	35.62	1.471	35.47	1.436	34.90	1.457	35.28
1.751	38.56	1.495	35.73	1.477	35.38	1.461	35.18	1.426	34.54	1.448	34.98
1.740	38.24	1.485	35.47	1.467	35.13	1.452	34.90	1.417	34.26	1.438	34.68
1.728	37.92	1.476	35.20	1.458	34.81	1.443	34.64	1.407	33.99	1.429	34.47
1.717	37.60	1.466	34.92	1.448	34.57	1.433	34.38	1.398	33.72	1.419	34.16
1.705	37.31	1.456	34.62	1.438	34.25	1.424	34.07	1.388	33.45	1.410	33.88
1.694	37.06	1.446	34.34	1.429	34.01	1.415	33.91	1.379	33.19	1.401	33.65
1.682	36.75	1.437	34.05	1.419	33.76	1.405	33.72	1.369	32.92	1.391	33.42
1.671	36.44	1.427	33.78	1.410	33.45	1.396	33.43	1.360	32.65	1.382	33.12
1.659	36.13	1.417	33.57	1.400	33.20	1.386	33.08	1.350	32.38	1.372	32.84
1.648	35.83	1.408	33.28	1.390	32.97	1.377	32.78	1.341	32.12	1.363	32.55
1.636	35.55	1.398	33.01	1.381	32.66	1.368	32.52	1.331	31.85	1.353	32.30
1.625	35.25	1.388	32.74	1.371	32.42	1.358	32.27	1.322	31.58	1.344	32.04
1.613	34.95	1.379	32.51	1.362	32.10	1.349	31.99	1.312	31.31	1.335	31.77
1.601	34.64	1.369	32.23	1.352	31.87	1.340	31.72	1.303	31.05	1.325	31.53
1.590	34.34	1.359	31.95	1.342	31.62	1.330	31.46	1.293	30.80	1.316	31.24
1.578	34.04	1.349	31.71	1.333	31.38	1.321	31.22	1.284	30.54	1.306	31.03

1.567	33.74	1.340	31.43	1.323	31.08	1.312	30.92	1.274	30.29	1.297	30.74
1.555	33.52	1.330	31.15	1.313	30.81	1.302	30.68	1.265	30.03	1.288	30.50
1.544	33.23	1.320	30.93	1.304	30.54	1.293	30.43	1.255	29.78	1.278	30.23
1.532	32.93	1.311	30.60	1.294	30.31	1.283	30.19	1.246	29.53	1.269	29.94
1.521	32.64	1.301	30.33	1.285	30.05	1.274	29.94	1.236	29.37	1.259	29.73
1.509	32.32	1.291	30.14	1.275	29.76	1.265	29.69	1.227	29.21	1.250	29.43
1.498	32.00	1.282	29.87	1.265	29.55	1.255	29.44	1.217	29.06	1.240	29.17
1.486	31.71	1.272	29.61	1.256	29.24	1.246	29.19	1.208	28.82	1.231	28.96
1.475	31.45	1.262	29.33	1.246	29.00	1.237	28.94	1.198	28.54	1.222	28.67
1.463	31.21	1.253	29.04	1.237	28.75	1.227	28.69	1.189	28.25	1.212	28.39
1.452	30.93	1.243	28.86	1.227	28.46	1.218	28.43	1.179	27.98	1.203	28.16
1.440	30.64	1.233	28.57	1.217	28.24	1.209	28.15	1.170	27.72	1.193	27.90
1.429	30.36	1.223	28.31	1.208	27.95	1.199	27.87	1.161	27.46	1.184	27.67
1.417	30.07	1.214	28.04	1.198	27.70	1.190	27.64	1.151	27.18	1.175	27.48
1.405	29.79	1.204	27.76	1.189	27.49	1.181	27.44	1.142	26.87	1.165	27.16
1.394	29.48	1.194	27.53	1.179	27.18	1.171	27.28	1.132	26.55	1.156	26.91
1.382	29.17	1.185	27.31	1.169	26.95	1.162	27.01	1.123	26.23	1.146	26.64
1.371	28.89	1.175	27.05	1.160	26.70	1.152	26.73	1.113	26.07	1.137	26.44
1.359	28.61	1.165	26.84	1.150	26.45	1.143	26.48	1.104	25.91	1.127	26.18
1.348	28.33	1.156	26.53	1.141	26.14	1.134	26.17	1.094	25.76	1.118	25.97
1.336	28.05	1.146	26.28	1.131	25.89	1.124	25.95	1.085	25.54	1.109	25.69
1.325	27.77	1.136	26.04	1.121	25.65	1.115	25.79	1.075	25.18	1.099	25.45
1.313	27.50	1.126	25.81	1.112	25.41	1.106	25.55	1.066	24.82	1.090	25.19
1.302	27.23	1.117	25.52	1.102	25.17	1.096	25.27	1.056	24.48	1.080	24.93
1.290	26.95	1.107	25.25	1.092	24.93	1.087	24.97	1.047	24.24	1.071	24.71
1.279	26.68	1.097	25.00	1.083	24.69	1.078	24.66	1.037	23.99	1.062	24.45
1.267	26.41	1.088	24.81	1.073	24.38	1.068	24.49	1.028	23.74	1.052	24.23
1.256	26.15	1.078	24.53	1.064	24.14	1.059	24.29	1.018	23.50	1.043	23.98
1.244	25.88	1.068	24.28	1.054	23.94	1.050	24.01	1.009	23.25	1.033	23.69
1.233	25.61	1.059	24.09	1.044	23.67	1.040	23.73	0.999	23.01	1.024	23.50
1.221	25.35	1.049	23.82	1.035	23.44	1.031	23.46	0.990	22.76	1.014	23.23
1.209	25.08	1.039	23.63	1.025	23.16	1.021	23.19	0.980	22.52	1.005	22.98
1.198	24.82	1.029	23.30	1.016	22.95	1.012	23.01	0.971	22.28	0.996	22.77
1.186	24.56	1.020	23.04	1.006	22.69	1.003	22.81	0.961	22.04	0.986	22.50
1.175	24.26	1.010	22.81	0.996	22.44	0.993	22.55	0.952	21.79	0.977	22.23
1.163	23.98	1.000	22.60	0.987	22.19	0.984	22.29	0.942	21.54	0.967	22.04
1.152	23.72	0.991	22.40	0.977	22.00	0.975	22.03	0.933	21.30	0.958	21.80
1.140	23.47	0.981	22.12	0.968	21.70	0.965	21.76	0.923	21.05	0.949	21.59
1.129	23.21	0.971	21.90	0.958	21.50	0.956	21.55	0.914	20.81	0.939	21.32
1.117	22.95	0.962	21.66	0.948	21.26	0.947	21.35	0.904	20.56	0.930	21.14
1.106	22.70	0.952	21.41	0.939	21.04	0.937	21.12	0.895	20.32	0.920	20.87
1.094	22.44	0.942	21.15	0.929	20.77	0.928	20.99	0.885	20.17	0.911	20.64
1.083	22.20	0.932	20.92	0.920	20.51	0.918	20.71	0.876	20.02	0.901	20.42
1.071	21.95	0.923	20.64	0.910	20.30	0.909	20.47	0.866	19.87	0.892	20.16
1.060	21.62	0.913	20.45	0.900	20.01	0.900	20.20	0.857	19.69	0.883	19.93
1.048	21.38	0.903	20.21	0.891	19.78	0.890	19.96	0.847	19.45	0.873	19.71
1.037	21.14	0.894	19.96	0.881	19.56	0.881	19.79	0.838	19.20	0.864	19.45
1.025	20.90	0.884	19.79	0.871	19.34	0.872	19.55	0.828	18.96	0.854	19.17
1.013	20.64	0.874	19.47	0.862	19.14	0.862	19.33	0.819	18.63	0.845	19.00
1.002	20.36	0.865	19.23	0.852	18.85	0.853	19.10	0.809	18.31	0.836	18.73
0.990	20.18	0.855	18.98	0.843	18.66	0.844	18.86	0.800	17.99	0.826	18.52
0.979	19.92	0.845	18.78	0.833	18.42	0.834	18.62	0.790	17.70	0.817	18.29
0.967	19.69	0.836	18.56	0.823	18.19	0.825	18.46	0.781	17.49	0.807	18.02
0.956	19.44	0.826	18.33	0.814	17.94	0.816	18.22	0.771	17.28	0.798	17.82
0.944	19.13	0.816	18.06	0.804	17.67	0.806	17.95	0.762	17.06	0.788	17.59

0.933	18.92	0.806	17.81	0.795	17.49	0.797	17.75	0.752	16.85	0.779	17.33
0.921	18.64	0.797	17.65	0.785	17.23	0.787	17.53	0.743	16.65	0.770	17.14
0.910	18.43	0.787	17.39	0.775	17.01	0.778	17.28	0.733	16.44	0.760	16.88
0.898	18.15	0.777	17.18	0.766	16.81	0.769	17.05	0.724	16.23	0.751	16.70
0.887	17.95	0.768	16.96	0.756	16.54	0.759	16.80	0.714	15.97	0.741	16.45
0.875	17.67	0.758	16.67	0.747	16.34	0.750	16.57	0.705	15.71	0.732	16.26
0.864	17.45	0.748	16.41	0.737	16.06	0.741	16.34	0.695	15.44	0.723	16.01
0.852	17.17	0.739	16.24	0.727	15.88	0.731	16.20	0.686	15.21	0.713	15.80
0.841	16.89	0.729	16.01	0.718	15.66	0.722	15.97	0.676	15.00	0.704	15.56
0.829	16.68	0.719	15.77	0.708	15.40	0.713	15.74	0.667	14.79	0.694	15.31
0.817	16.40	0.709	15.53	0.699	15.18	0.703	15.51	0.657	14.59	0.685	15.10
0.806	16.19	0.700	15.35	0.689	15.00	0.694	15.30	0.648	14.42	0.675	14.87
0.794	15.91	0.690	15.13	0.679	14.74	0.685	15.10	0.638	14.26	0.666	14.63
0.783	15.70	0.680	14.88	0.670	14.53	0.675	14.89	0.629	14.10	0.657	14.45
0.771	15.44	0.671	14.64	0.660	14.29	0.666	14.65	0.619	13.94	0.647	14.19
0.760	15.22	0.661	14.39	0.650	14.08	0.656	14.43	0.610	13.72	0.638	13.96
0.748	14.93	0.651	14.24	0.641	13.88	0.647	14.21	0.600	13.50	0.628	13.78
0.737	14.73	0.642	13.99	0.631	13.63	0.638	13.97	0.591	13.29	0.619	13.55
0.725	14.47	0.632	13.77	0.622	13.43	0.628	13.77	0.581	13.06	0.610	13.33
0.714	14.18	0.622	13.53	0.612	13.18	0.619	13.51	0.572	12.73	0.600	13.15
0.702	13.98	0.612	13.27	0.602	13.00	0.610	13.33	0.562	12.40	0.591	12.85
0.691	13.70	0.603	13.10	0.593	12.73	0.600	13.09	0.553	12.07	0.581	12.66
0.679	13.50	0.593	12.87	0.583	12.54	0.591	12.92	0.543	11.82	0.572	12.45
0.668	13.22	0.583	12.64	0.574	12.30	0.582	12.68	0.534	11.59	0.562	12.22
0.656	13.02	0.574	12.40	0.564	12.11	0.572	12.48	0.524	11.37	0.553	11.98
0.645	12.75	0.564	12.15	0.554	11.88	0.563	12.24	0.515	11.14	0.544	11.81
0.633	12.55	0.554	12.01	0.545	11.65	0.554	12.07	0.505	10.92	0.534	11.62
0.621	12.31	0.545	11.77	0.535	11.45	0.544	11.82	0.496	10.69	0.525	11.39
0.610	12.01	0.535	11.62	0.526	11.26	0.535	11.70	0.486	10.47	0.515	11.17
0.598	11.81	0.525	11.38	0.516	11.03	0.525	11.43	0.477	10.25	0.506	10.90
0.587	11.54	0.515	11.08	0.506	10.81	0.516	11.18	0.467	10.05	0.497	10.70
0.575	11.34	0.506	10.85	0.497	10.57	0.507	11.03	0.458	9.85	0.487	10.48
0.564	11.07	0.496	10.64	0.487	10.32	0.497	10.82	0.448	9.65	0.478	10.23
0.552	10.87	0.486	10.44	0.478	10.15	0.488	10.60	0.439	9.44	0.468	10.07
0.541	10.60	0.477	10.23	0.468	9.92	0.479	10.40	0.429	9.21	0.459	9.82
0.529	10.41	0.467	9.98	0.458	9.72	0.469	10.20	0.420	8.99	0.449	9.65
0.518	10.14	0.457	9.83	0.449	9.51	0.460	10.01	0.410	8.77	0.440	9.40
0.506	9.92	0.448	9.59	0.439	9.27	0.451	9.79	0.401	8.54	0.431	9.17
0.495	9.69	0.438	9.36	0.429	9.05	0.441	9.56	0.391	8.32	0.421	9.01
0.483	9.42	0.428	9.19	0.420	8.86	0.432	9.31	0.382	8.09	0.412	8.79
0.472	9.18	0.419	8.91	0.410	8.62	0.422	9.06	0.372	7.87	0.402	8.59
0.460	8.96	0.409	8.76	0.401	8.44	0.413	8.81	0.363	7.67	0.393	8.34
0.449	8.69	0.399	8.51	0.391	8.23	0.404	8.57	0.353	7.47	0.384	8.12
0.437	8.51	0.389	8.29	0.381	8.01	0.394	8.35	0.344	7.27	0.374	7.91
0.425	8.24	0.380	8.07	0.372	7.78	0.385	8.14	0.334	7.07	0.365	7.71
0.414	8.02	0.370	7.83	0.362	7.61	0.376	7.94	0.325	6.91	0.355	7.46
0.402	7.77	0.360	7.59	0.353	7.38	0.366	7.73	0.315	6.76	0.346	7.29
0.391	7.55	0.351	7.40	0.343	7.14	0.357	7.53	0.306	6.60	0.336	7.06
0.379	7.28	0.341	7.21	0.333	6.94	0.348	7.33	0.296	6.40	0.327	6.90
0.368	7.10	0.331	7.06	0.324	6.78	0.338	7.14	0.287	6.12	0.318	6.67
0.356	6.85	0.322	6.77	0.314	6.55	0.329	6.95	0.277	5.84	0.308	6.44
0.345	6.60	0.312	6.57	0.305	6.32	0.320	6.73	0.268	5.56	0.299	6.19
0.333	6.34	0.302	6.38	0.295	6.10	0.310	6.51	0.258	5.35	0.289	6.04
0.322	6.17	0.292	6.14	0.285	5.88	0.301	6.31	0.249	5.23	0.280	5.81
0.310	5.95	0.283	5.92	0.276	5.71	0.291	6.17	0.239	5.11	0.271	5.62

0.299	5.71	0.273	5.70	0.266	5.46	0.282	6.03	0.230	4.99	0.261	5.39
0.287	5.50	0.263	5.51	0.257	5.30	0.273	5.77	0.220	4.80	0.252	5.19
0.276	5.24	0.254	5.32	0.247	5.08	0.263	5.51	0.211	4.49	0.242	5.00
0.264	5.06	0.244	5.08	0.237	4.88	0.254	5.26	0.201	4.18	0.233	4.80
0.253	4.81	0.234	4.87	0.228	4.59	0.245	5.05	0.192	3.86	0.223	4.54
0.241	4.60	0.225	4.70	0.218	4.44	0.235	4.84	0.182	3.64	0.214	4.33
0.229	4.36	0.215	4.50	0.208	4.25	0.226	4.62	0.173	3.44	0.205	4.17
0.218	4.12	0.205	4.28	0.199	4.01	0.217	4.41	0.163	3.24	0.195	3.97
0.206	3.89	0.195	4.09	0.189	3.81	0.207	4.20	0.154	3.04	0.186	3.76
0.195	3.70	0.186	3.87	0.180	3.63	0.198	3.99	0.144	2.85	0.176	3.57
0.183	3.44	0.176	3.73	0.170	3.42	0.189	3.79	0.135	2.65	0.167	3.33
0.172	3.25	0.166	3.44	0.160	3.19	0.179	3.59	0.125	2.45	0.158	3.17
0.160	3.00	0.157	3.28	0.151	3.02	0.170	3.39	0.116	2.26	0.148	2.95
0.149	2.78	0.147	3.06	0.141	2.84	0.160	3.19	0.106	2.06	0.139	2.72
0.137	2.57	0.137	2.81	0.132	2.59	0.151	2.97	0.097	1.87	0.129	2.54
0.126	2.31	0.128	2.60	0.122	2.37	0.142	2.75	0.087	1.67	0.120	2.35
0.114	2.14	0.118	2.41	0.112	2.18	0.132	2.52				
0.103	1.90	0.108	2.22	0.103	1.98	0.123	2.30				

**Table S1 (continued).**  $P\rho T$  experimental data for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures.

$T = 263.15$ K											
$x = 0.8525$		$x = 0.9719$		$x = 0.9809$		$x = 0.9902$		$x = 0.9932$		$x = 0.9961$	
$P$ (MP)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MP)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MP)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MP)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MP)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MP)	$\rho$ (kg/m <sup>3</sup> )
20.098	886.49	20.093	1026.88	20.255	1036.76	20.211	1045.69	19.983	1049.64	20.163	1053.96
20.080	886.38	20.072	1026.81	20.233	1036.87	20.190	1045.97	19.962	1049.64	20.141	1053.89
20.063	886.28	20.051	1026.80	20.212	1036.85	20.168	1046.20	19.940	1049.56	20.119	1053.88
20.045	886.24	20.030	1026.72	20.191	1036.84	20.146	1046.37	19.919	1049.49	20.097	1053.80
20.027	886.15	20.009	1026.71	20.169	1036.77	20.125	1046.31	19.897	1049.48	20.075	1053.77
20.010	886.05	19.988	1026.61	20.148	1036.69	20.103	1046.29	19.876	1049.39	20.054	1053.71
19.992	885.94	19.968	1026.56	20.127	1036.68	20.081	1046.20	19.854	1049.31	20.032	1053.66
19.974	885.92	19.947	1026.51	20.105	1036.60	20.060	1046.21	19.833	1049.30	20.010	1053.61
19.957	885.81	19.926	1026.42	20.084	1036.55	20.038	1046.29	19.811	1049.24	19.988	1053.55
19.939	885.70	19.905	1026.38	20.063	1036.49	20.016	1046.23	19.790	1049.15	19.966	1053.48
19.921	885.67	19.884	1026.30	20.041	1036.44	19.995	1046.21	19.768	1049.07	19.945	1053.41
19.904	885.57	19.863	1026.18	20.020	1036.38	19.973	1046.21	19.747	1049.03	19.923	1053.31
19.886	885.51	19.842	1026.16	19.999	1036.31	19.951	1046.13	19.725	1048.92	19.901	1053.27
19.868	885.44	19.821	1026.07	19.977	1036.25	19.930	1046.05	19.704	1048.90	19.879	1053.15
19.851	885.33	19.800	1025.99	19.956	1036.20	19.908	1045.97	19.682	1048.81	19.858	1053.15
19.833	885.27	19.780	1025.95	19.935	1036.12	19.887	1045.97	19.661	1048.76	19.836	1053.13
19.815	885.20	19.759	1025.85	19.913	1036.02	19.865	1045.89	19.639	1048.71	19.814	1053.04
19.797	885.10	19.738	1025.80	19.892	1035.97	19.843	1045.84	19.618	1048.66	19.792	1052.99
19.780	885.07	19.717	1025.71	19.871	1035.91	19.822	1045.80	19.596	1048.61	19.770	1052.91
19.762	884.96	19.696	1025.67	19.849	1035.86	19.800	1045.73	19.575	1048.50	19.749	1052.88
19.744	884.86	19.675	1025.59	19.828	1035.80	19.778	1045.66	19.553	1048.42	19.727	1052.77
19.727	884.83	19.654	1025.55	19.807	1035.70	19.757	1045.59	19.532	1048.38	19.705	1052.74
19.709	884.72	19.633	1025.51	19.785	1035.63	19.735	1045.54	19.510	1048.28	19.683	1052.67
19.691	884.61	19.612	1025.44	19.764	1035.57	19.713	1045.49	19.489	1048.26	19.661	1052.59
19.674	884.58	19.592	1025.35	19.743	1035.54	19.692	1045.41	19.467	1048.16	19.640	1052.50
19.656	884.47	19.571	1025.26	19.721	1035.45	19.670	1045.35	19.446	1048.08	19.618	1052.42
19.638	884.37	19.550	1025.18	19.700	1035.39	19.648	1045.29	19.424	1048.02	19.596	1052.38
19.621	884.34	19.529	1025.12	19.679	1035.33	19.627	1045.24	19.403	1047.94	19.574	1052.34
19.603	884.24	19.508	1025.03	19.657	1035.27	19.605	1045.16	19.381	1047.89	19.553	1052.26
19.585	884.14	19.487	1025.02	19.636	1035.22	19.584	1045.08	19.360	1047.86	19.531	1052.18
19.568	884.04	19.466	1024.94	19.615	1035.10	19.562	1045.04	19.338	1047.77	19.509	1052.12
19.550	884.00	19.445	1024.88	19.593	1035.06	19.540	1044.97	19.317	1047.72	19.487	1052.04
19.532	883.90	19.425	1024.78	19.572	1035.03	19.519	1044.92	19.295	1047.61	19.465	1051.99
19.515	883.87	19.404	1024.74	19.551	1034.91	19.497	1044.84	19.274	1047.55	19.444	1051.94
19.497	883.76	19.383	1024.65	19.529	1034.84	19.475	1044.76	19.252	1047.50	19.422	1051.86
19.479	883.65	19.362	1024.55	19.508	1034.82	19.454	1044.68	19.231	1047.45	19.400	1051.77
19.462	883.62	19.341	1024.54	19.487	1034.76	19.432	1044.62	19.209	1047.39	19.378	1051.74
19.444	883.51	19.320	1024.46	19.465	1034.66	19.410	1044.52	19.188	1047.30	19.357	1051.63
19.426	883.39	19.299	1024.37	19.444	1034.60	19.389	1044.51	19.166	1047.21	19.335	1051.56
19.409	883.36	19.278	1024.31	19.423	1034.50	19.367	1044.43	19.145	1047.15	19.313	1051.51
19.391	883.24	19.257	1024.22	19.401	1034.42	19.345	1044.36	19.123	1047.08	19.291	1051.43
19.373	883.15	19.237	1024.13	19.380	1034.40	19.324	1044.27	19.102	1047.01	19.269	1051.37
19.355	883.10	19.216	1024.07	19.359	1034.32	19.302	1044.20	19.080	1046.96	19.248	1051.29
19.338	883.07	19.195	1024.03	19.338	1034.26	19.280	1044.19	19.059	1046.88	19.226	1051.21
19.320	882.95	19.174	1023.93	19.316	1034.15	19.259	1044.11	19.037	1046.82	19.204	1051.12
19.302	882.85	19.153	1023.87	19.295	1034.09	19.237	1044.03	19.016	1046.79	19.182	1051.08
19.285	882.74	19.132	1023.80	19.274	1034.04	19.216	1043.95	18.994	1046.67	19.160	1050.99



19.267	882.71	19.111	1023.73	19.252	1033.94	19.194	1043.87	18.973	1046.63	19.139	1050.96
19.249	882.60	19.090	1023.64	19.231	1033.94	19.172	1043.84	18.951	1046.56	19.117	1050.88
19.232	882.50	19.070	1023.62	19.210	1033.84	19.151	1043.77	18.930	1046.48	19.095	1050.80
19.214	882.45	19.049	1023.56	19.188	1033.78	19.129	1043.68	18.908	1046.39	19.073	1050.72
19.196	882.34	19.028	1023.47	19.167	1033.71	19.107	1043.62	18.887	1046.32	19.052	1050.64
19.179	882.30	19.007	1023.37	19.146	1033.65	19.086	1043.54	18.865	1046.30	19.030	1050.61
19.161	882.19	18.986	1023.31	19.124	1033.58	19.064	1043.46	18.844	1046.24	19.008	1050.52
19.143	882.15	18.965	1023.22	19.103	1033.49	19.042	1043.38	18.822	1046.13	18.986	1050.43
19.126	882.03	18.944	1023.15	19.082	1033.45	19.021	1043.30	18.801	1046.07	18.964	1050.40
19.108	882.00	18.923	1023.07	19.060	1033.34	18.999	1043.22	18.779	1045.99	18.943	1050.31
19.090	881.88	18.902	1022.99	19.039	1033.29	18.977	1043.15	18.758	1045.93	18.921	1050.23
19.073	881.77	18.882	1022.95	19.018	1033.20	18.956	1043.10	18.736	1045.82	18.899	1050.15
19.055	881.73	18.861	1022.91	18.996	1033.14	18.934	1043.05	18.715	1045.75	18.877	1050.07
19.037	881.62	18.840	1022.83	18.975	1033.07	18.913	1042.97	18.693	1045.73	18.855	1049.99
19.020	881.51	18.819	1022.74	18.954	1033.05	18.891	1042.89	18.672	1045.63	18.834	1049.92
19.002	881.46	18.798	1022.67	18.932	1032.97	18.869	1042.81	18.650	1045.57	18.812	1049.90
18.984	881.36	18.777	1022.60	18.911	1032.90	18.848	1042.73	18.629	1045.51	18.790	1049.78
18.967	881.28	18.756	1022.55	18.890	1032.78	18.826	1042.65	18.607	1045.39	18.768	1049.75
18.949	881.21	18.735	1022.47	18.868	1032.64	18.804	1042.63	18.586	1045.34	18.747	1049.66
18.931	881.17	18.715	1022.38	18.847	1032.57	18.783	1042.57	18.564	1045.31	18.725	1049.58
18.913	881.05	18.694	1022.27	18.826	1032.47	18.761	1042.49	18.543	1045.18	18.703	1049.50
18.896	880.95	18.673	1022.24	18.804	1032.41	18.739	1042.40	18.521	1045.16	18.681	1049.42
18.878	880.90	18.652	1022.15	18.783	1032.38	18.718	1042.32	18.500	1045.09	18.659	1049.36
18.860	880.79	18.631	1022.10	18.762	1032.23	18.696	1042.24	18.478	1045.02	18.638	1049.27
18.843	880.67	18.610	1022.02	18.740	1032.17	18.674	1042.16	18.457	1044.92	18.616	1049.19
18.825	880.63	18.589	1021.94	18.719	1032.09	18.653	1042.11	18.435	1044.85	18.594	1049.17
18.807	880.53	18.568	1021.87	18.698	1032.06	18.631	1042.00	18.414	1044.75	18.572	1049.09
18.790	880.46	18.547	1021.77	18.676	1031.98	18.609	1042.00	18.392	1044.69	18.551	1049.01
18.772	880.39	18.527	1021.70	18.655	1031.91	18.588	1041.92	18.371	1044.64	18.529	1048.93
18.754	880.30	18.506	1021.68	18.634	1031.84	18.566	1041.84	18.349	1044.55	18.507	1048.85
18.737	880.26	18.485	1021.58	18.612	1031.73	18.545	1041.75	18.328	1044.50	18.485	1048.77
18.719	880.15	18.464	1021.53	18.591	1031.65	18.523	1041.67	18.306	1044.41	18.463	1048.69
18.701	880.06	18.443	1021.46	18.570	1031.66	18.501	1041.59	18.285	1044.33	18.442	1048.64
18.684	880.01	18.422	1021.37	18.548	1031.54	18.480	1041.55	18.263	1044.28	18.420	1048.56
18.666	879.91	18.401	1021.29	18.527	1031.47	18.458	1041.47	18.242	1044.20	18.398	1048.44
18.648	879.81	18.380	1021.21	18.506	1031.41	18.436	1041.43	18.220	1044.16	18.376	1048.43
18.631	879.70	18.360	1021.17	18.484	1031.33	18.415	1041.35	18.199	1044.07	18.354	1048.36
18.613	879.65	18.339	1021.09	18.463	1031.28	18.393	1041.27	18.177	1043.96	18.333	1048.28
18.595	879.56	18.318	1020.96	18.442	1031.24	18.371	1041.18	18.156	1043.88	18.311	1048.20
18.578	879.45	18.297	1020.90	18.420	1031.09	18.350	1041.10	18.134	1043.84	18.289	1048.12
18.560	879.41	18.276	1020.88	18.399	1031.09	18.328	1041.02	18.113	1043.75	18.267	1048.04
18.542	879.31	18.255	1020.80	18.378	1031.01	18.306	1040.94	18.091	1043.65	18.246	1047.96
18.525	879.20	18.234	1020.72	18.356	1030.93	18.285	1040.86	18.070	1043.60	18.224	1047.88
18.507	879.16	18.213	1020.64	18.335	1030.87	18.263	1040.81	18.048	1043.51	18.202	1047.79
18.489	879.06	18.192	1020.58	18.314	1030.74	18.242	1040.70	18.027	1043.47	18.180	1047.72
18.471	878.96	18.172	1020.48	18.292	1030.68	18.220	1040.62	18.005	1043.37	18.158	1047.65
18.454	878.92	18.151	1020.42	18.271	1030.65	18.198	1040.56	17.984	1043.31	18.137	1047.63
18.436	878.84	18.130	1020.38	18.250	1030.52	18.177	1040.51	17.962	1043.23	18.115	1047.55
18.418	878.73	18.109	1020.30	18.228	1030.43	18.155	1040.42	17.941	1043.14	18.093	1047.47
18.401	878.65	18.088	1020.20	18.207	1030.35	18.133	1040.37	17.919	1043.06	18.071	1047.39
18.383	878.60	18.067	1020.09	18.186	1030.31	18.112	1040.24	17.898	1043.01	18.050	1047.31
18.365	878.43	18.046	1020.07	18.164	1030.23	18.090	1040.21	17.876	1042.97	18.028	1047.25
18.348	878.40	18.025	1019.96	18.143	1030.19	18.068	1040.13	17.855	1042.89	18.006	1047.14
18.330	878.29	18.005	1019.91	18.122	1030.11	18.047	1040.05	17.833	1042.77	17.984	1047.08
18.312	878.18	17.984	1019.82	18.100	1030.03	18.025	1039.96	17.812	1042.73	17.962	1046.98

18.295	878.16	17.963	1019.74	18.079	1029.95	18.003	1039.88	17.790	1042.66	17.941	1046.95
18.277	878.05	17.942	1019.66	18.058	1029.86	17.982	1039.80	17.769	1042.58	17.919	1046.85
18.259	877.94	17.921	1019.58	18.037	1029.78	17.960	1039.72	17.747	1042.51	17.897	1046.74
18.242	877.86	17.900	1019.50	18.015	1029.70	17.939	1039.64	17.726	1042.41	17.875	1046.74
18.224	877.81	17.879	1019.42	17.994	1029.62	17.917	1039.56	17.704	1042.33	17.853	1046.66
18.206	877.70	17.858	1019.39	17.973	1029.59	17.895	1039.47	17.683	1042.27	17.832	1046.58
18.189	877.61	17.837	1019.30	17.951	1029.47	17.874	1039.39	17.661	1042.20	17.810	1046.49
18.171	877.56	17.817	1019.24	17.930	1029.38	17.852	1039.31	17.640	1042.09	17.788	1046.41
18.153	877.45	17.796	1019.14	17.909	1029.29	17.830	1039.23	17.618	1042.01	17.766	1046.33
18.136	877.34	17.775	1019.09	17.887	1029.29	17.809	1039.15	17.597	1041.94	17.745	1046.25
18.118	877.29	17.754	1019.01	17.866	1029.20	17.787	1039.07	17.575	1041.87	17.723	1046.17
18.100	877.20	17.733	1018.93	17.845	1029.08	17.765	1038.99	17.554	1041.76	17.701	1046.09
18.083	877.11	17.712	1018.84	17.823	1028.99	17.744	1038.90	17.532	1041.71	17.679	1046.01
18.065	877.06	17.691	1018.77	17.802	1028.97	17.722	1038.82	17.511	1041.66	17.657	1045.96
18.047	876.97	17.670	1018.69	17.781	1028.84	17.700	1038.74	17.489	1041.59	17.636	1045.84
18.030	876.86	17.649	1018.61	17.759	1028.81	17.679	1038.66	17.468	1041.52	17.614	1045.84
18.012	876.74	17.629	1018.54	17.738	1028.73	17.657	1038.58	17.446	1041.44	17.592	1045.76
17.994	876.71	17.608	1018.46	17.717	1028.64	17.635	1038.55	17.425	1041.37	17.570	1045.66
17.976	876.60	17.587	1018.36	17.695	1028.55	17.614	1038.49	17.403	1041.30	17.548	1045.60
17.959	876.49	17.566	1018.36	17.674	1028.47	17.592	1038.34	17.382	1041.19	17.527	1045.52
17.941	876.45	17.545	1018.28	17.653	1028.40	17.571	1038.27	17.360	1041.11	17.505	1045.49
17.923	876.34	17.524	1018.20	17.631	1028.32	17.549	1038.25	17.339	1041.03	17.483	1045.39
17.906	876.23	17.503	1018.12	17.610	1028.24	17.527	1038.17	17.317	1040.97	17.461	1045.27
17.888	876.19	17.482	1018.03	17.589	1028.16	17.506	1038.03	17.296	1040.89	17.440	1045.22
17.870	876.07	17.462	1017.96	17.567	1028.07	17.484	1038.01	17.274	1040.83	17.418	1045.13
17.853	875.99	17.441	1017.90	17.546	1028.05	17.462	1037.93	17.253	1040.70	17.396	1045.11
17.835	875.93	17.420	1017.79	17.525	1027.91	17.441	1037.85	17.231	1040.69	17.374	1044.99
17.817	875.81	17.399	1017.71	17.503	1027.88	17.419	1037.77	17.210	1040.55	17.352	1044.95
17.800	875.74	17.378	1017.64	17.482	1027.74	17.397	1037.68	17.188	1040.54	17.331	1044.87
17.782	875.66	17.357	1017.56	17.461	1027.67	17.376	1037.60	17.167	1040.42	17.309	1044.79
17.764	875.55	17.336	1017.47	17.439	1027.64	17.354	1037.52	17.145	1040.33	17.287	1044.71
17.747	875.50	17.315	1017.41	17.418	1027.50	17.332	1037.44	17.124	1040.28	17.265	1044.62
17.729	875.40	17.294	1017.31	17.397	1027.49	17.311	1037.36	17.102	1040.20	17.244	1044.54
17.711	875.29	17.274	1017.28	17.375	1027.37	17.289	1037.29	17.081	1040.13	17.222	1044.46
17.694	875.17	17.253	1017.19	17.354	1027.27	17.268	1037.20	17.059	1040.05	17.200	1044.38
17.676	875.14	17.232	1017.14	17.333	1027.24	17.246	1037.13	17.038	1039.97	17.178	1044.33
17.658	875.02	17.211	1017.02	17.311	1027.16	17.224	1037.03	17.016	1039.89	17.156	1044.27
17.641	874.99	17.190	1016.98	17.290	1027.05	17.203	1036.97	16.995	1039.81	17.135	1044.14
17.623	874.87	17.169	1016.90	17.269	1026.98	17.181	1036.92	16.973	1039.73	17.113	1044.09
17.605	874.76	17.148	1016.82	17.247	1026.93	17.159	1036.87	16.952	1039.64	17.091	1044.01
17.588	874.71	17.127	1016.74	17.226	1026.84	17.138	1036.79	16.930	1039.56	17.069	1043.97
17.570	874.59	17.107	1016.66	17.205	1026.71	17.116	1036.71	16.909	1039.48	17.047	1043.89
17.552	874.52	17.086	1016.57	17.183	1026.68	17.094	1036.63	16.887	1039.40	17.026	1043.81
17.534	874.44	17.065	1016.49	17.162	1026.60	17.073	1036.55	16.866	1039.33	17.004	1043.73
17.517	874.32	17.044	1016.46	17.141	1026.52	17.051	1036.47	16.844	1039.24	16.982	1043.65
17.499	874.28	17.023	1016.34	17.119	1026.38	17.029	1036.38	16.823	1039.24	16.960	1043.57
17.481	874.16	17.002	1016.29	17.098	1026.36	17.008	1036.30	16.801	1039.08	16.939	1043.49
17.464	874.11	16.981	1016.16	17.077	1026.27	16.986	1036.26	16.780	1039.08	16.917	1043.40
17.446	874.00	16.960	1016.12	17.055	1026.20	16.964	1036.18	16.758	1038.95	16.895	1043.32
17.428	873.89	16.939	1016.00	17.034	1026.12	16.943	1036.06	16.737	1038.85	16.873	1043.24
17.411	873.79	16.919	1015.92	17.013	1026.06	16.921	1036.06	16.715	1038.83	16.851	1043.16
17.393	873.74	16.898	1015.84	16.991	1025.96	16.900	1035.98	16.694	1038.78	16.830	1043.10
17.375	873.62	16.877	1015.78	16.970	1025.87	16.878	1035.90	16.672	1038.70	16.808	1043.00
17.358	873.57	16.856	1015.72	16.949	1025.80	16.856	1035.82	16.651	1038.59	16.786	1042.98
17.340	873.44	16.835	1015.61	16.927	1025.71	16.835	1035.74	16.629	1038.51	16.764	1042.85

17.322	873.38	16.814	1015.56	16.906	1025.65	16.813	1035.65	16.608	1038.42	16.743	1042.84
17.305	873.28	16.793	1015.46	16.885	1025.55	16.791	1035.57	16.586	1038.34	16.721	1042.75
17.287	873.15	16.772	1015.37	16.863	1025.47	16.770	1035.54	16.565	1038.26	16.699	1042.67
17.269	873.11	16.752	1015.34	16.842	1025.40	16.748	1035.41	16.543	1038.17	16.677	1042.59
17.252	872.99	16.731	1015.27	16.821	1025.14	16.726	1035.41	16.522	1038.10	16.655	1042.51
17.234	872.94	16.710	1015.19	16.799	1025.17	16.705	1035.33	16.500	1038.02	16.634	1042.43
17.216	872.82	16.689	1015.11	16.778	1024.99	16.683	1035.25	16.479	1037.93	16.612	1042.35
17.199	872.73	16.668	1015.03	16.757	1024.98	16.661	1035.17	16.457	1037.85	16.590	1042.27
17.181	872.65	16.647	1014.95	16.736	1024.98	16.640	1035.09	16.436	1037.84	16.568	1042.18
17.163	872.56	16.626	1014.86	16.714	1024.82	16.618	1035.00	16.414	1037.72	16.546	1042.10
17.146	872.48	16.605	1014.78	16.693	1024.77	16.597	1034.92	16.393	1037.64	16.525	1042.02
17.128	872.38	16.584	1014.70	16.672	1024.72	16.575	1034.84	16.371	1037.53	16.503	1041.94
17.110	872.32	16.564	1014.62	16.650	1024.57	16.553	1034.76	16.350	1037.51	16.481	1041.86
17.092	872.19	16.543	1014.54	16.629	1024.57	16.532	1034.68	16.328	1037.44	16.459	1041.78
17.075	872.15	16.522	1014.46	16.608	1024.56	16.510	1034.66	16.307	1037.33	16.438	1041.70
17.057	872.01	16.501	1014.38	16.586	1024.42	16.488	1034.57	16.285	1037.29	16.416	1041.61
17.039	871.91	16.480	1014.29	16.565	1024.33	16.467	1034.50	16.264	1037.20	16.394	1041.53
17.022	871.84	16.459	1014.21	16.544	1024.25	16.445	1034.44	16.242	1037.12	16.372	1041.45
17.004	871.75	16.438	1014.14	16.522	1024.24	16.423	1034.28	16.221	1037.04	16.350	1041.40
16.986	871.67	16.417	1014.05	16.501	1024.17	16.402	1034.27	16.199	1036.94	16.329	1041.29
16.969	871.59	16.397	1013.97	16.480	1024.08	16.380	1034.19	16.178	1036.87	16.307	1041.23
16.951	871.49	16.376	1013.89	16.458	1024.01	16.358	1034.11	16.156	1036.78	16.285	1041.13
16.933	871.42	16.355	1013.80	16.437	1023.99	16.337	1034.03	16.135	1036.68	16.263	1041.08
16.916	871.31	16.334	1013.72	16.416	1023.91	16.315	1033.95	16.113	1036.60	16.241	1040.99
16.898	871.18	16.313	1013.66	16.394	1023.83	16.294	1033.87	16.092	1036.55	16.220	1040.88
16.880	871.14	16.292	1013.56	16.373	1023.74	16.272	1033.78	16.070	1036.47	16.198	1040.81
16.863	871.01	16.271	1013.48	16.352	1023.65	16.250	1033.70	16.049	1036.42	16.176	1040.78
16.845	870.93	16.250	1013.42	16.330	1023.56	16.229	1033.62	16.027	1036.31	16.154	1040.66
16.827	870.84	16.229	1013.31	16.309	1023.47	16.207	1033.54	16.006	1036.23	16.133	1040.62
16.810	870.71	16.209	1013.23	16.288	1023.44	16.185	1033.47	15.984	1036.14	16.111	1040.48
16.792	870.65	16.188	1013.15	16.266	1023.38	16.164	1033.38	15.963	1036.06	16.089	1040.39
16.774	870.60	16.167	1013.07	16.245	1023.28	16.142	1033.29	15.941	1035.98	16.067	1040.32
16.757	870.47	16.146	1012.99	16.224	1023.19	16.120	1033.21	15.920	1035.90	16.045	1040.23
16.739	870.36	16.125	1012.91	16.202	1023.18	16.099	1033.13	15.898	1035.83	16.024	1040.22
16.721	870.29	16.104	1012.83	16.181	1023.03	16.077	1033.09	15.877	1035.75	16.002	1040.15
16.704	870.24	16.083	1012.73	16.160	1023.00	16.055	1032.97	15.855	1035.65	15.980	1040.05
16.686	870.10	16.062	1012.66	16.138	1022.91	16.034	1032.93	15.834	1035.60	15.958	1039.94
16.668	870.04	16.042	1012.58	16.117	1022.84	16.012	1032.82	15.812	1035.51	15.937	1039.83
16.650	869.96	16.021	1012.50	16.096	1022.80	15.990	1032.76	15.791	1035.42	15.915	1039.74
16.633	869.87	16.000	1012.42	16.074	1022.72	15.969	1032.71	15.769	1035.40	15.893	1039.66
16.615	869.73	15.979	1012.34	16.053	1022.63	15.947	1032.63	15.748	1035.27	15.871	1039.60
16.597	869.67	15.958	1012.25	16.032	1022.52	15.926	1032.55	15.726	1035.22	15.849	1039.51
16.580	869.54	15.937	1012.17	16.010	1022.30	15.904	1032.46	15.705	1035.13	15.828	1039.43
16.562	869.48	15.916	1012.07	15.989	1021.87	15.882	1032.40	15.683	1035.03	15.806	1039.38
16.544	869.35	15.895	1012.00	15.968	1022.30	15.861	1032.28	15.662	1034.94	15.784	1039.25
16.527	869.30	15.874	1011.93	15.946	1022.22	15.839	1032.20	15.640	1034.92	15.762	1039.20
16.509	869.22	15.854	1011.85	15.925	1022.14	15.817	1032.15	15.619	1034.81	15.740	1039.17
16.491	869.11	15.833	1011.76	15.904	1022.09	15.796	1032.08	15.597	1034.76	15.719	1039.07
16.474	868.98	15.812	1011.63	15.882	1022.02	15.774	1031.99	15.576	1034.68	15.697	1039.01
16.456	868.91	15.791	1011.58	15.861	1021.92	15.752	1031.91	15.554	1034.56	15.675	1038.90
16.438	868.85	15.770	1011.52	15.840	1021.83	15.731	1031.83	15.533	1034.52	15.653	1038.76
16.421	868.71	15.749	1011.44	15.818	1021.81	15.709	1031.75	15.511	1034.43	15.632	1038.75
16.403	868.65	15.728	1011.30	15.797	1021.64	15.687	1031.67	15.490	1034.29	15.610	1038.60
16.385	868.52	15.707	1011.19	15.776	1021.56	15.666	1031.59	15.468	1034.24	15.588	1038.60
16.368	868.45	15.686	1011.15	15.754	1021.51	15.644	1031.48	15.447	1034.15	15.566	1038.47

16.350	868.39	15.666	1011.08	15.733	1021.50	15.623	1031.42	15.425	1034.08	15.544	1038.35
16.332	868.25	15.645	1011.00	15.712	1021.40	15.601	1031.34	15.404	1034.03	15.523	1038.30
16.315	868.16	15.624	1010.87	15.690	1021.31	15.579	1031.25	15.382	1033.94	15.501	1038.27
16.297	868.08	15.603	1010.82	15.669	1021.26	15.558	1031.18	15.361	1033.84	15.479	1038.15
16.279	867.98	15.582	1010.71	15.648	1021.18	15.536	1031.10	15.339	1033.75	15.457	1038.11
16.262	867.92	15.561	1010.62	15.626	1021.08	15.514	1031.02	15.318	1033.70	15.436	1038.01
16.244	867.81	15.540	1010.54	15.605	1020.98	15.493	1030.93	15.296	1033.63	15.414	1037.91
16.226	867.74	15.519	1010.46	15.584	1020.87	15.471	1030.85	15.275	1033.54	15.392	1037.82
16.208	867.60	15.499	1010.38	15.562	1020.84	15.449	1030.77	15.253	1033.47	15.370	1037.74
16.191	867.53	15.478	1010.30	15.541	1020.76	15.428	1030.69	15.232	1033.36	15.348	1037.63
16.173	867.43	15.457	1010.21	15.520	1020.67	15.406	1030.61	15.210	1033.27	15.327	1037.62
16.155	867.35	15.436	1010.12	15.499	1020.63	15.384	1030.53	15.189	1033.17	15.305	1037.53
16.138	867.26	15.415	1010.05	15.477	1020.52	15.363	1030.45	15.167	1033.13	15.283	1037.46
16.120	867.19	15.394	1009.97	15.456	1020.43	15.341	1030.36	15.146	1033.05	15.261	1037.38
16.102	867.05	15.373	1009.89	15.435	1020.39	15.320	1030.28	15.124	1032.95	15.239	1037.30
16.085	866.98	15.352	1009.77	15.413	1020.29	15.298	1030.20	15.103	1032.85	15.218	1037.21
16.067	866.86	15.331	1009.65	15.392	1020.18	15.276	1030.15	15.081	1032.81	15.196	1037.10
16.049	866.77	15.311	1009.64	15.371	1020.15	15.255	1030.06	15.060	1032.69	15.174	1037.05
16.032	866.70	15.290	1009.49	15.349	1020.04	15.233	1029.96	15.038	1032.61	15.152	1036.97
16.014	866.61	15.269	1009.42	15.328	1019.93	15.211	1029.90	15.017	1032.53	15.131	1036.87
15.996	866.50	15.248	1009.37	15.307	1019.88	15.190	1029.84	14.995	1032.47	15.109	1036.81
15.979	866.43	15.227	1009.31	15.285	1019.83	15.168	1029.78	14.974	1032.40	15.087	1036.73
15.961	866.33	15.206	1009.15	15.264	1019.76	15.146	1029.71	14.952	1032.28	15.065	1036.64
15.943	866.24	15.185	1009.07	15.243	1019.65	15.125	1029.58	14.931	1032.23	15.043	1036.56
15.926	866.13	15.164	1009.02	15.221	1019.54	15.103	1029.50	14.909	1032.15	15.022	1036.48
15.908	866.02	15.144	1008.94	15.200	1019.43	15.081	1029.44	14.888	1032.06	15.000	1036.40
15.890	865.95	15.123	1008.82	15.179	1019.37	15.060	1029.38	14.866	1031.95	14.978	1036.32
15.873	865.88	15.102	1008.76	15.157	1019.33	15.038	1029.29	14.845	1031.91	14.956	1036.24
15.855	865.73	15.081	1008.69	15.136	1019.26	15.016	1029.18	14.823	1031.83	14.934	1036.16
15.837	865.66	15.060	1008.63	15.115	1019.15	14.995	1029.14	14.802	1031.76	14.913	1036.07
15.820	865.55	15.039	1008.56	15.093	1019.04	14.973	1029.02	14.780	1031.66	14.891	1035.99
15.802	865.47	15.018	1008.50	15.072	1018.97	14.952	1028.96	14.759	1031.58	14.869	1035.91
15.784	865.38	14.997	1008.38	15.051	1018.89	14.930	1028.85	14.737	1031.52	14.847	1035.83
15.766	865.30	14.976	1008.34	15.029	1018.80	14.908	1028.78	14.716	1031.41	14.826	1035.74
15.749	865.16	14.956	1008.28	15.008	1018.74	14.887	1028.65	14.694	1031.34	14.804	1035.67
15.731	865.09	14.935	1008.16	14.987	1018.67	14.865	1028.61	14.673	1031.26	14.782	1035.58
15.713	864.98	14.914	1008.09	14.965	1018.59	14.843	1028.49	14.651	1031.18	14.760	1035.47
15.696	864.90	14.893	1008.02	14.944	1018.47	14.822	1028.41	14.630	1031.09	14.738	1035.42
15.678	864.79	14.872	1007.95	14.923	1018.41	14.800	1028.33	14.608	1031.01	14.717	1035.33
15.660	864.73	14.851	1007.87	14.901	1018.32	14.778	1028.25	14.587	1030.92	14.695	1035.23
15.643	864.58	14.830	1007.80	14.880	1018.23	14.757	1028.17	14.565	1030.85	14.673	1035.18
15.625	864.50	14.809	1007.74	14.859	1018.17	14.735	1028.08	14.544	1030.77	14.651	1035.10
15.607	864.43	14.789	1007.65	14.837	1018.10	14.713	1028.00	14.522	1030.67	14.630	1035.00
15.590	864.33	14.768	1007.51	14.816	1018.04	14.692	1027.92	14.501	1030.59	14.608	1034.93
15.572	864.20	14.747	1007.44	14.795	1017.97	14.670	1027.84	14.479	1030.48	14.586	1034.85
15.554	864.12	14.726	1007.38	14.773	1017.84	14.649	1027.76	14.458	1030.44	14.564	1034.77
15.537	864.05	14.705	1007.30	14.752	1017.73	14.627	1027.68	14.436	1030.33	14.542	1034.69
15.519	863.92	14.684	1007.23	14.731	1017.66	14.605	1027.59	14.415	1030.21	14.521	1034.61
15.501	863.82	14.663	1007.16	14.709	1017.61	14.584	1027.51	14.393	1030.16	14.499	1034.47
15.484	863.74	14.642	1007.09	14.688	1017.52	14.562	1027.43	14.372	1030.11	14.477	1034.44
15.466	863.67	14.621	1007.02	14.667	1017.41	14.540	1027.35	14.350	1030.02	14.455	1034.36
15.448	863.52	14.601	1006.95	14.645	1017.35	14.519	1027.27	14.329	1029.89	14.433	1034.27
15.431	863.43	14.580	1006.86	14.624	1017.29	14.497	1027.19	14.307	1029.84	14.412	1034.14
15.413	863.34	14.559	1006.79	14.603	1017.19	14.475	1027.14	14.286	1029.77	14.390	1034.07
15.395	863.27	14.538	1006.72	14.581	1017.07	14.454	1027.10	14.264	1029.68	14.368	1033.95

15.378	863.19	14.517	1006.65	14.560	1017.01	14.432	1027.02	14.243	1029.61	14.346	1033.88
15.360	863.03	14.496	1006.58	14.539	1016.92	14.410	1026.94	14.221	1029.49	14.325	1033.79
15.342	862.94	14.475	1006.47	14.517	1016.85	14.389	1026.86	14.200	1029.45	14.303	1033.74
15.325	862.86	14.454	1006.35	14.496	1016.78	14.367	1026.78	14.178	1029.34	14.281	1033.63
15.307	862.77	14.434	1006.27	14.475	1016.66	14.345	1026.71	14.157	1029.23	14.259	1033.55
15.289	862.66	14.413	1006.20	14.453	1016.57	14.324	1026.62	14.135	1029.19	14.237	1033.46
15.271	862.54	14.392	1006.13	14.432	1016.50	14.302	1026.53	14.114	1029.05	14.216	1033.42
15.254	862.46	14.371	1006.05	14.411	1016.44	14.281	1026.46	14.092	1029.03	14.194	1033.30
15.236	862.37	14.350	1005.98	14.389	1016.32	14.259	1026.37	14.071	1028.90	14.172	1033.22
15.218	862.29	14.329	1005.90	14.368	1016.26	14.237	1026.36	14.049	1028.81	14.150	1033.14
15.201	862.21	14.308	1005.73	14.347	1016.16	14.216	1026.21	14.028	1028.73	14.129	1033.06
15.183	862.05	14.287	1005.73	14.325	1016.09	14.194	1026.19	14.006	1028.67	14.107	1032.98
15.165	861.97	14.266	1005.60	14.304	1016.03	14.172	1026.07	13.985	1028.59	14.085	1032.89
15.148	861.88	14.246	1005.51	14.283	1015.89	14.151	1025.97	13.963	1028.48	14.063	1032.81
15.130	861.80	14.225	1005.43	14.261	1015.83	14.129	1025.91	13.942	1028.40	14.041	1032.73
15.112	861.68	14.204	1005.41	14.240	1015.71	14.107	1025.89	13.920	1028.32	14.020	1032.65
15.095	861.61	14.183	1005.33	14.219	1015.68	14.086	1025.74	13.899	1028.24	13.998	1032.57
15.077	861.48	14.162	1005.21	14.198	1015.60	14.064	1025.67	13.878	1028.16	13.976	1032.49
15.059	861.40	14.141	1005.11	14.176	1015.46	14.042	1025.64	13.856	1028.08	13.954	1032.41
15.042	861.26	14.120	1005.03	14.155	1015.39	14.021	1025.51	13.835	1028.00	13.932	1032.32
15.024	861.17	14.099	1004.96	14.134	1015.32	13.999	1025.48	13.813	1027.91	13.911	1032.24
15.006	861.08	14.079	1004.88	14.112	1015.20	13.978	1025.40	13.792	1027.83	13.889	1032.16
14.989	860.99	14.058	1004.80	14.091	1015.13	13.956	1025.32	13.770	1027.75	13.867	1032.08
14.971	860.88	14.037	1004.72	14.070	1015.06	13.934	1025.25	13.749	1027.67	13.845	1032.00
14.953	860.82	14.016	1004.63	14.048	1014.99	13.913	1025.12	13.727	1027.59	13.824	1031.92
14.936	860.70	13.995	1004.56	14.027	1014.92	13.891	1025.07	13.706	1027.51	13.802	1031.84
14.918	860.61	13.974	1004.48	14.006	1014.81	13.869	1024.97	13.684	1027.40	13.780	1031.75
14.900	860.52	13.953	1004.39	13.984	1014.73	13.848	1024.90	13.663	1027.34	13.758	1031.67
14.883	860.42	13.932	1004.31	13.963	1014.64	13.826	1024.83	13.641	1027.24	13.736	1031.59
14.865	860.27	13.911	1004.23	13.942	1014.55	13.804	1024.75	13.620	1027.11	13.715	1031.49
14.847	860.17	13.891	1004.14	13.920	1014.48	13.783	1024.67	13.598	1027.06	13.693	1031.39
14.829	860.09	13.870	1004.06	13.899	1014.40	13.761	1024.59	13.577	1026.93	13.671	1031.27
14.812	859.99	13.849	1003.98	13.878	1014.27	13.739	1024.50	13.555	1026.87	13.649	1031.21
14.794	859.90	13.828	1003.90	13.856	1014.22	13.718	1024.41	13.534	1026.78	13.627	1031.13
14.776	859.80	13.807	1003.81	13.835	1014.14	13.696	1024.34	13.512	1026.73	13.606	1031.08
14.759	859.71	13.786	1003.73	13.814	1014.06	13.675	1024.26	13.491	1026.64	13.584	1030.94
14.741	859.61	13.765	1003.65	13.792	1013.92	13.653	1024.21	13.469	1026.53	13.562	1030.86
14.723	859.52	13.744	1003.56	13.771	1013.83	13.631	1024.10	13.448	1026.45	13.540	1030.78
14.706	859.43	13.723	1003.47	13.750	1013.76	13.610	1024.02	13.426	1026.40	13.519	1030.69
14.688	859.32	13.703	1003.39	13.728	1013.67	13.588	1023.93	13.405	1026.28	13.497	1030.61
14.670	859.19	13.682	1003.31	13.707	1013.58	13.566	1023.85	13.383	1026.20	13.475	1030.53
14.653	859.11	13.661	1003.23	13.686	1013.53	13.545	1023.77	13.362	1026.12	13.453	1030.45
14.635	859.03	13.640	1003.14	13.664	1013.42	13.523	1023.69	13.340	1026.04	13.431	1030.37
14.617	858.87	13.619	1003.04	13.643	1013.34	13.501	1023.61	13.319	1025.96	13.410	1030.29
14.600	858.78	13.598	1002.96	13.622	1013.23	13.480	1023.52	13.297	1025.85	13.388	1030.21
14.582	858.70	13.577	1002.88	13.600	1013.18	13.458	1023.44	13.276	1025.79	13.366	1030.12
14.564	858.62	13.556	1002.78	13.579	1013.06	13.436	1023.33	13.254	1025.67	13.344	1030.04
14.547	858.52	13.536	1002.70	13.558	1013.00	13.415	1023.28	13.233	1025.63	13.323	1029.96
14.529	858.41	13.515	1002.61	13.536	1012.92	13.393	1023.19	13.211	1025.49	13.301	1029.88
14.511	858.31	13.494	1002.52	13.515	1012.84	13.371	1023.07	13.190	1025.43	13.279	1029.80
14.494	858.21	13.473	1002.43	13.494	1012.77	13.350	1023.04	13.168	1025.30	13.257	1029.69
14.476	858.11	13.452	1002.34	13.472	1012.68	13.328	1022.95	13.147	1025.22	13.235	1029.58
14.458	858.00	13.431	1002.25	13.451	1012.52	13.307	1022.86	13.125	1025.14	13.214	1029.51
14.441	857.90	13.410	1002.17	13.430	1012.46	13.285	1022.78	13.104	1025.07	13.192	1029.42
14.423	857.79	13.389	1002.07	13.408	1012.38	13.263	1022.69	13.082	1024.98	13.170	1029.33

14.405	857.69	13.368	1001.99	13.387	1012.33	13.242	1022.59	13.061	1024.90	13.148	1029.23
14.387	857.58	13.348	1001.89	13.366	1012.23	13.220	1022.48	13.039	1024.81	13.126	1029.14
14.370	857.47	13.327	1001.80	13.344	1012.14	13.198	1022.44	13.018	1024.73	13.105	1029.06
14.352	857.36	13.306	1001.71	13.323	1012.07	13.177	1022.31	12.996	1024.62	13.083	1028.98
14.334	857.32	13.285	1001.61	13.302	1011.96	13.155	1022.22	12.975	1024.57	13.061	1028.90
14.317	857.15	13.264	1001.52	13.280	1011.89	13.133	1022.18	12.953	1024.49	13.039	1028.82
14.299	857.07	13.243	1001.44	13.259	1011.76	13.112	1022.06	12.932	1024.39	13.018	1028.74
14.281	856.99	13.222	1001.38	13.238	1011.68	13.090	1021.98	12.910	1024.32	12.996	1028.66
14.264	856.90	13.201	1001.33	13.216	1011.60	13.068	1021.90	12.889	1024.18	12.974	1028.57
14.246	856.74	13.181	1001.24	13.195	1011.52	13.047	1021.81	12.867	1024.10	12.952	1028.49
14.228	856.66	13.160	1001.15	13.174	1011.47	13.025	1021.73	12.846	1024.00	12.930	1028.40
14.211	856.56	13.139	1001.05	13.152	1011.35	13.004	1021.62	12.824	1023.92	12.909	1028.32
14.193	856.44	13.118	1000.93	13.131	1011.27	12.982	1021.57	12.803	1023.85	12.887	1028.25
14.175	856.34	13.097	1000.80	13.110	1011.16	12.960	1021.48	12.781	1023.75	12.865	1028.17
14.158	856.26	13.076	1000.76	13.088	1011.07	12.939	1021.32	12.760	1023.67	12.843	1028.05
14.140	856.17	13.055	1000.67	13.067	1010.98	12.917	1021.24	12.738	1023.59	12.822	1027.95
14.122	856.04	13.034	1000.58	13.046	1010.89	12.895	1021.16	12.717	1023.52	12.800	1027.84
14.105	855.93	13.013	1000.48	13.024	1010.84	12.874	1021.08	12.695	1023.43	12.778	1027.76
14.087	855.83	12.993	1000.38	13.003	1010.75	12.852	1021.00	12.674	1023.32	12.756	1027.68
14.069	855.71	12.972	1000.29	12.982	1010.67	12.830	1020.92	12.652	1023.25	12.734	1027.59
14.052	855.60	12.951	1000.23	12.960	1010.57	12.809	1020.82	12.631	1023.18	12.713	1027.51
14.034	855.52	12.930	1000.18	12.939	1010.45	12.787	1020.70	12.609	1023.04	12.691	1027.43
14.016	855.42	12.909	1000.07	12.918	1010.36	12.765	1020.63	12.588	1022.97	12.669	1027.35
13.999	855.30	12.888	999.98	12.897	1010.27	12.744	1020.54	12.566	1022.86	12.647	1027.27
13.981	855.19	12.867	999.88	12.875	1010.20	12.722	1020.43	12.545	1022.77	12.625	1027.19
13.963	855.11	12.846	999.78	12.854	1010.13	12.700	1020.39	12.523	1022.69	12.604	1027.11
13.945	855.03	12.826	999.68	12.833	1010.04	12.679	1020.26	12.502	1022.61	12.582	1027.03
13.928	854.90	12.805	999.58	12.811	1009.91	12.657	1020.18	12.480	1022.53	12.560	1026.94
13.910	854.79	12.784	999.47	12.790	1009.81	12.636	1020.10	12.459	1022.45	12.538	1026.84
13.892	854.66	12.763	999.37	12.769	1009.75	12.614	1020.02	12.437	1022.37	12.517	1026.70
13.875	854.54	12.742	999.36	12.747	1009.68	12.592	1019.94	12.416	1022.29	12.495	1026.62
13.857	854.46	12.721	999.25	12.726	1009.59	12.571	1019.81	12.394	1022.18	12.473	1026.53
13.839	854.36	12.700	999.14	12.705	1009.47	12.549	1019.75	12.373	1022.08	12.451	1026.45
13.822	854.24	12.679	999.04	12.683	1009.43	12.527	1019.66	12.351	1021.97	12.429	1026.37
13.804	854.13	12.658	998.94	12.662	1009.31	12.506	1019.53	12.330	1021.92	12.408	1026.29
13.786	854.05	12.638	998.84	12.641	1009.21	12.484	1019.46	12.308	1021.84	12.386	1026.21
13.769	853.95	12.617	998.74	12.619	1009.14	12.462	1019.36	12.287	1021.71	12.364	1026.13
13.751	853.83	12.596	998.68	12.598	1009.07	12.441	1019.29	12.265	1021.66	12.342	1026.05
13.733	853.72	12.575	998.61	12.577	1008.93	12.419	1019.20	12.244	1021.55	12.320	1025.96
13.716	853.64	12.554	998.50	12.555	1008.85	12.397	1019.12	12.222	1021.47	12.299	1025.88
13.698	853.52	12.533	998.39	12.534	1008.82	12.376	1018.99	12.201	1021.39	12.277	1025.80
13.680	853.40	12.512	998.34	12.513	1008.72	12.354	1018.88	12.179	1021.31	12.255	1025.64
13.663	853.29	12.491	998.26	12.491	1008.63	12.333	1018.85	12.158	1021.15	12.233	1025.56
13.645	853.23	12.471	998.15	12.470	1008.53	12.311	1018.71	12.136	1021.14	12.212	1025.47
13.627	853.10	12.450	998.05	12.449	1008.45	12.289	1018.63	12.115	1020.98	12.190	1025.39
13.610	852.99	12.429	997.93	12.427	1008.30	12.268	1018.55	12.093	1020.90	12.168	1025.31
13.592	852.90	12.408	997.82	12.406	1008.28	12.246	1018.47	12.072	1020.82	12.146	1025.23
13.574	852.77	12.387	997.74	12.385	1008.15	12.224	1018.37	12.050	1020.73	12.124	1025.15
13.557	852.66	12.366	997.69	12.363	1008.07	12.203	1018.26	12.029	1020.65	12.103	1025.07
13.539	852.57	12.345	997.58	12.342	1007.98	12.181	1018.19	12.007	1020.57	12.081	1024.98
13.521	852.43	12.324	997.47	12.321	1007.91	12.159	1018.06	11.986	1020.49	12.059	1024.90
13.503	852.37	12.303	997.42	12.299	1007.80	12.138	1017.99	11.964	1020.41	12.037	1024.76
13.486	852.25	12.283	997.25	12.278	1007.70	12.116	1017.89	11.943	1020.29	12.016	1024.66
13.468	852.11	12.262	997.21	12.257	1007.63	12.094	1017.81	11.921	1020.24	11.994	1024.58
13.450	852.01	12.241	997.09	12.235	1007.52	12.073	1017.73	11.900	1020.12	11.972	1024.49

13.433	851.91	12.220	996.99	12.214	1007.47	12.051	1017.62	11.878	1020.00	11.950	1024.41
13.415	851.78	12.199	996.93	12.193	1007.36	12.030	1017.57	11.857	1019.93	11.928	1024.33
13.397	851.72	12.178	996.82	12.171	1007.22	12.008	1017.43	11.835	1019.84	11.907	1024.25
13.380	851.60	12.157	996.71	12.150	1007.19	11.986	1017.38	11.814	1019.76	11.885	1024.17
13.362	851.48	12.136	996.60	12.129	1007.06	11.965	1017.24	11.792	1019.67	11.863	1024.09
13.344	851.39	12.116	996.56	12.107	1006.96	11.943	1017.16	11.771	1019.59	11.841	1023.98
13.327	851.28	12.095	996.44	12.086	1006.88	11.921	1017.08	11.749	1019.51	11.819	1023.89
13.309	851.18	12.074	996.32	12.065	1006.77	11.900	1017.00	11.728	1019.43	11.798	1023.76
13.291	851.03	12.053	996.21	12.043	1006.74	11.878	1016.85	11.706	1019.31	11.776	1023.68
13.274	850.95	12.032	996.17	12.022	1006.58	11.856	1016.75	11.685	1019.24	11.754	1023.60
13.256	850.87	12.011	996.04	12.001	1006.49	11.835	1016.69	11.663	1019.13	11.732	1023.52
13.238	850.75	11.990	995.94	11.979	1006.40	11.813	1016.59	11.642	1019.02	11.711	1023.43
13.221	850.62	11.969	995.90	11.958	1006.33	11.791	1016.53	11.620	1018.94	11.689	1023.35
13.203	850.53	11.948	995.77	11.937	1006.25	11.770	1016.43	11.599	1018.86	11.667	1023.24
13.185	850.38	11.928	995.70	11.915	1006.15	11.748	1016.34	11.577	1018.78	11.645	1023.16
13.168	850.30	11.907	995.61	11.894	1006.08	11.726	1016.26	11.556	1018.67	11.623	1023.03
13.150	850.21	11.886	995.48	11.873	1005.92	11.705	1016.15	11.534	1018.56	11.602	1022.97
13.132	850.08	11.865	995.41	11.851	1005.87	11.683	1016.08	11.513	1018.52	11.580	1022.86
13.115	849.97	11.844	995.32	11.830	1005.76	11.662	1015.94	11.491	1018.37	11.558	1022.78
13.097	849.86	11.823	995.19	11.809	1005.67	11.640	1015.85	11.470	1018.28	11.536	1022.70
13.079	849.78	11.802	995.07	11.787	1005.59	11.618	1015.77	11.448	1018.20	11.515	1022.62
13.061	849.63	11.781	995.03	11.766	1005.47	11.597	1015.69	11.427	1018.12	11.493	1022.54
13.044	849.48	11.760	994.97	11.745	1005.43	11.575	1015.61	11.405	1018.04	11.471	1022.45
13.026	849.41	11.740	994.85	11.723	1005.29	11.553	1015.53	11.384	1017.96	11.449	1022.37
13.008	849.32	11.719	994.72	11.702	1005.24	11.532	1015.41	11.362	1017.87	11.427	1022.25
12.991	849.20	11.698	994.63	11.681	1005.12	11.510	1015.30	11.341	1017.79	11.406	1022.21
12.973	849.07	11.677	994.55	11.660	1005.02	11.488	1015.23	11.319	1017.69	11.384	1022.05
12.955	848.97	11.656	994.48	11.638	1004.96	11.467	1015.12	11.298	1017.55	11.362	1021.96
12.938	848.83	11.635	994.37	11.617	1004.86	11.445	1015.04	11.276	1017.47	11.340	1021.88
12.920	848.78	11.614	994.27	11.596	1004.71	11.423	1014.95	11.255	1017.39	11.318	1021.80
12.902	848.66	11.593	994.20	11.574	1004.62	11.402	1014.87	11.233	1017.30	11.297	1021.72
12.885	848.51	11.573	994.06	11.553	1004.57	11.380	1014.72	11.212	1017.22	11.275	1021.64
12.867	848.42	11.552	993.98	11.532	1004.45	11.359	1014.63	11.190	1017.10	11.253	1021.47
12.849	848.27	11.531	993.89	11.510	1004.37	11.337	1014.56	11.169	1016.98	11.231	1021.39
12.832	848.19	11.510	993.76	11.489	1004.26	11.315	1014.46	11.147	1016.93	11.210	1021.31
12.814	848.09	11.489	993.68	11.468	1004.20	11.294	1014.38	11.126	1016.81	11.188	1021.23
12.796	847.96	11.468	993.58	11.446	1004.05	11.272	1014.30	11.104	1016.73	11.166	1021.15
12.779	847.85	11.447	993.49	11.425	1003.95	11.250	1014.20	11.083	1016.64	11.144	1021.07
12.761	847.70	11.426	993.39	11.404	1003.88	11.229	1014.05	11.061	1016.57	11.122	1020.96
12.743	847.61	11.405	993.32	11.382	1003.79	11.207	1013.97	11.040	1016.49	11.101	1020.90
12.726	847.52	11.385	993.19	11.361	1003.69	11.185	1013.89	11.018	1016.37	11.079	1020.74
12.708	847.43	11.364	993.10	11.340	1003.61	11.164	1013.80	10.997	1016.24	11.057	1020.66
12.690	847.27	11.343	993.03	11.318	1003.51	11.142	1013.73	10.975	1016.20	11.035	1020.58
12.673	847.19	11.322	992.93	11.297	1003.45	11.120	1013.60	10.954	1016.08	11.013	1020.49
12.655	847.03	11.301	992.83	11.276	1003.38	11.099	1013.50	10.932	1016.00	10.992	1020.41
12.637	846.95	11.280	992.74	11.254	1003.31	11.077	1013.40	10.911	1015.90	10.970	1020.33
12.620	846.85	11.259	992.64	11.233	1003.25	11.056	1013.32	10.889	1015.82	10.948	1020.25
12.602	846.70	11.238	992.56	11.212	1003.16	11.034	1013.19	10.868	1015.74	10.926	1020.17
12.584	846.62	11.218	992.47	11.190	1003.07	11.012	1013.14	10.846	1015.59	10.905	1020.00
12.566	846.50	11.197	992.34	11.169	1002.98	10.991	1013.04	10.825	1015.51	10.883	1019.92
12.549	846.38	11.176	992.25	11.148	1002.89	10.969	1012.91	10.803	1015.43	10.861	1019.84
12.531	846.29	11.155	992.12	11.126	1002.79	10.947	1012.83	10.782	1015.33	10.839	1019.76
12.513	846.14	11.134	992.03	11.105	1002.69	10.926	1012.75	10.760	1015.25	10.817	1019.68
12.496	846.05	11.113	991.93	11.084	1002.60	10.904	1012.65	10.739	1015.14	10.796	1019.60
12.478	845.94	11.092	991.84	11.062	1002.51	10.882	1012.58	10.717	1015.02	10.774	1019.50

12.460	845.80	11.071	991.76	11.041	1002.42	10.861	1012.42	10.696	1014.94	10.752	1019.35
12.443	845.72	11.050	991.63	11.020	1002.33	10.839	1012.36	10.674	1014.85	10.730	1019.27
12.425	845.56	11.030	991.57	10.998	1002.25	10.817	1012.26	10.653	1014.77	10.709	1019.19
12.407	845.48	11.009	991.46	10.977	1002.18	10.796	1012.18	10.631	1014.69	10.687	1019.11
12.390	845.38	10.988	991.39	10.956	1002.10	10.774	1012.09	10.610	1014.61	10.665	1019.03
12.372	845.23	10.967	991.27	10.934	1002.02	10.752	1011.93	10.588	1014.51	10.643	1018.94
12.354	845.15	10.946	991.12	10.913	1001.94	10.731	1011.85	10.567	1014.37	10.621	1018.78
12.337	844.99	10.925	991.06	10.892	1001.86	10.709	1011.77	10.545	1014.28	10.600	1018.70
12.319	844.91	10.904	990.99	10.870	1001.75	10.688	1011.69	10.524	1014.20	10.578	1018.62
12.301	844.79	10.883	990.83	10.849	1001.65	10.666	1011.61	10.502	1014.12	10.556	1018.54
12.284	844.67	10.863	990.78	10.828	1001.56	10.644	1011.52	10.481	1014.04	10.534	1018.45
12.266	844.56	10.842	990.69	10.806	1001.48	10.623	1011.36	10.459	1013.95	10.512	1018.37
12.248	844.46	10.821	990.61	10.785	1001.37	10.601	1011.28	10.438	1013.79	10.491	1018.29
12.231	844.33	10.800	990.46	10.764	1001.25	10.579	1011.20	10.416	1013.71	10.469	1018.21
12.213	844.24	10.779	990.37	10.742	1001.17	10.558	1011.12	10.395	1013.63	10.447	1018.04
12.195	844.12	10.758	990.29	10.721	1001.09	10.536	1011.03	10.373	1013.55	10.425	1017.96
12.178	843.96	10.737	990.21	10.700	1001.00	10.514	1010.95	10.352	1013.47	10.404	1017.88
12.160	843.84	10.716	990.06	10.678	1000.90	10.493	1010.80	10.330	1013.37	10.382	1017.80
12.142	843.76	10.695	989.97	10.657	1000.81	10.471	1010.71	10.309	1013.24	10.360	1017.72
12.124	843.62	10.675	989.88	10.636	1000.70	10.449	1010.62	10.287	1013.14	10.338	1017.60
12.107	843.52	10.654	989.81	10.614	1000.60	10.428	1010.54	10.266	1013.06	10.316	1017.50
12.089	843.38	10.633	989.72	10.593	1000.53	10.406	1010.46	10.244	1012.98	10.295	1017.39
12.071	843.27	10.612	989.63	10.572	1000.40	10.385	1010.38	10.223	1012.89	10.273	1017.31
12.054	843.17	10.591	989.47	10.550	1000.32	10.363	1010.30	10.201	1012.80	10.251	1017.23
12.036	843.05	10.570	989.37	10.529	1000.26	10.341	1010.20	10.180	1012.65	10.229	1017.15
12.018	842.95	10.549	989.30	10.508	1000.16	10.320	1010.05	10.158	1012.57	10.208	1017.06
12.001	842.79	10.528	989.21	10.486	1000.06	10.298	1009.97	10.137	1012.48	10.186	1016.90
11.983	842.70	10.508	989.12	10.465	999.99	10.276	1009.89	10.115	1012.40	10.164	1016.82
11.965	842.59	10.487	988.98	10.444	999.92	10.255	1009.81	10.094	1012.32	10.142	1016.74
11.948	842.45	10.466	988.91	10.422	999.85	10.233	1009.73	10.072	1012.17	10.120	1016.66
11.930	842.37	10.445	988.83	10.401	999.76	10.211	1009.57	10.051	1012.08	10.099	1016.51
11.912	842.21	10.424	988.73	10.380	999.66	10.190	1009.48	10.029	1011.99	10.077	1016.41
11.895	842.13	10.403	988.57	10.359	999.56	10.168	1009.40	10.008	1011.91	10.055	1016.33
11.877	841.96	10.382	988.49	10.337	999.45	10.146	1009.32	9.986	1011.82	10.033	1016.25
11.859	841.88	10.361	988.37	10.316	999.33	10.125	1009.24	9.965	1011.67	10.011	1016.17
11.842	841.72	10.340	988.27	10.295	999.21	10.103	1009.16	9.943	1011.59	9.990	1016.08
11.824	841.64	10.320	988.17	10.273	999.14	10.081	1009.04	9.922	1011.34	9.968	1015.92
11.806	841.47	10.299	988.08	10.252	999.07	10.060	1008.94	9.900	1011.26	9.946	1015.84
11.789	841.39	10.278	988.00	10.231	999.00	10.038	1008.83	9.879	1011.17	9.924	1015.76
11.771	841.28	10.257	987.87	10.209	998.89	10.017	1008.80	9.857	1011.10	9.903	1015.68
11.753	841.15	10.236	987.80	10.188	998.79	9.995	1008.67	9.836	1011.01	9.881	1015.58
11.736	841.04	10.215	987.71	10.167	998.72	9.973	1008.63	9.814	1010.93	9.859	1015.43
11.718	840.90	10.194	987.57	10.145	998.64	9.952	1008.50	9.793	1010.85	9.837	1015.35
11.700	840.82	10.173	987.48	10.124	998.49	9.930	1008.42	9.771	1010.77	9.815	1015.27
11.682	840.66	10.153	987.42	10.103	998.41	9.908	1008.34	9.750	1010.69	9.794	1015.18
11.665	840.54	10.132	987.27	10.081	998.26	9.887	1008.18	9.728	1010.60	9.772	1015.06
11.647	840.40	10.111	987.05	10.060	998.18	9.865	1008.16	9.707	1010.52	9.750	1014.94
11.629	840.27	10.090	986.88	10.039	998.10	9.843	1008.05	9.685	1010.44	9.728	1014.86
11.612	840.17	10.069	987.13	10.017	997.98	9.822	1007.94	9.664	1010.35	9.706	1014.78
11.594	840.07	10.048	987.13	9.996	997.88	9.800	1007.85	9.642	1010.27	9.685	1014.69
11.576	839.92	10.027	986.88	9.975	997.80	9.778	1007.75	9.621	1010.11	9.663	1014.61
11.559	839.78	10.006	986.26	9.953	997.72	9.757	1007.69	9.599	1010.03	9.641	1014.45
11.541	839.68	9.985	986.48	9.932	997.63	9.735	1007.56	9.578	1009.95	9.619	1014.37
11.523	839.57	9.965	985.63	9.911	997.51	9.714	1007.46	9.556	1009.87	9.598	1014.29
11.506	839.43	9.944	985.55	9.889	997.40	9.692	1007.36	9.535	1009.79	9.576	1014.20



11.488	839.28	9.923	985.44	9.868	997.32	9.670	1007.28	9.513	1009.64	9.554	1014.07
11.470	839.19	9.902	985.38	9.847	997.25	9.649	1007.20	9.492	1009.54	9.532	1013.96
11.453	839.02	9.881	985.29	9.825	997.16	9.627	1007.12	9.470	1009.46	9.510	1013.88
11.435	838.94	9.860	985.15	9.804	997.01	9.605	1007.02	9.449	1009.38	9.489	1013.79
11.417	838.84	9.839	985.06	9.783	996.93	9.584	1006.91	9.427	1009.30	9.467	1013.71
11.400	838.70	9.818	984.97	9.761	996.85	9.562	1006.80	9.406	1009.22	9.445	1013.63
11.382	838.53	9.797	984.89	9.740	996.77	9.540	1006.71	9.384	1009.14	9.423	1013.47
11.364	838.44	9.777	984.81	9.719	996.64	9.519	1006.63	9.363	1009.06	9.402	1013.39
11.347	838.29	9.756	984.73	9.697	996.52	9.497	1006.50	9.341	1008.97	9.380	1013.30
11.329	838.21	9.735	984.65	9.676	996.44	9.475	1006.40	9.320	1008.84	9.358	1013.22
11.311	838.05	9.714	984.48	9.655	996.36	9.454	1006.34	9.298	1008.78	9.336	1013.14
11.294	837.93	9.693	984.40	9.633	996.26	9.432	1006.25	9.277	1008.65	9.314	1012.98
11.276	837.80	9.672	984.32	9.612	996.16	9.411	1006.14	9.255	1008.57	9.293	1012.90
11.258	837.72	9.651	984.24	9.591	996.03	9.389	1006.02	9.234	1008.48	9.271	1012.81
11.240	837.55	9.630	984.13	9.569	995.92	9.367	1005.97	9.212	1008.40	9.249	1012.73
11.223	837.39	9.610	984.03	9.548	995.83	9.346	1005.81	9.191	1008.28	9.227	1012.60
11.205	837.31	9.589	983.92	9.527	995.75	9.324	1005.68	9.169	1008.17	9.205	1012.52
11.187	837.21	9.568	983.83	9.505	995.66	9.302	1005.61	9.148	1008.12	9.184	1012.41
11.170	837.06	9.547	983.75	9.484	995.54	9.281	1005.51	9.126	1007.99	9.162	1012.32
11.152	836.95	9.526	983.66	9.463	995.40	9.259	1005.44	9.105	1007.91	9.140	1012.24
11.134	836.82	9.505	983.59	9.441	995.30	9.237	1005.32	9.083	1007.83	9.118	1012.15
11.117	836.69	9.484	983.42	9.420	995.20	9.216	1005.21	9.062	1007.75	9.097	1012.00
11.099	836.55	9.463	983.34	9.399	995.11	9.194	1005.15	9.040	1007.58	9.075	1011.92
11.081	836.43	9.442	983.24	9.377	995.02	9.172	1004.99	9.019	1007.56	9.053	1011.83
11.064	836.32	9.422	983.12	9.356	994.92	9.151	1004.91	8.997	1007.42	9.031	1011.75
11.046	836.16	9.401	983.01	9.335	994.82	9.129	1004.81	8.976	1007.34	9.009	1011.59
11.028	836.08	9.380	982.93	9.313	994.72	9.107	1004.69	8.954	1007.24	8.988	1011.51
11.011	835.90	9.359	982.85	9.292	994.62	9.086	1004.66	8.933	1007.10	8.966	1011.42
10.993	835.80	9.338	982.74	9.271	994.53	9.064	1004.54	8.911	1007.01	8.944	1011.34
10.975	835.67	9.317	982.68	9.249	994.43	9.043	1004.42	8.890	1006.93	8.922	1011.18
10.958	835.53	9.296	982.52	9.228	994.33	9.021	1004.29	8.868	1006.85	8.901	1011.10
10.940	835.42	9.275	982.44	9.207	994.23	8.999	1004.26	8.847	1006.74	8.879	1011.02
10.922	835.30	9.255	982.36	9.185	994.05	8.978	1004.09	8.825	1006.60	8.857	1010.93
10.905	835.18	9.234	982.21	9.164	993.95	8.956	1004.01	8.804	1006.52	8.835	1010.85
10.887	835.02	9.213	982.11	9.143	993.91	8.934	1003.89	8.782	1006.44	8.813	1010.78
10.869	834.86	9.192	982.03	9.121	993.75	8.913	1003.84	8.761	1006.36	8.792	1010.69
10.852	834.77	9.171	981.95	9.100	993.69	8.891	1003.67	8.739	1006.20	8.770	1010.53
10.834	834.62	9.150	981.87	9.079	993.61	8.869	1003.59	8.718	1006.11	8.748	1010.44
10.816	834.52	9.129	981.71	9.058	993.50	8.848	1003.47	8.696	1006.01	8.726	1010.36
10.798	834.36	9.108	981.63	9.036	993.39	8.826	1003.35	8.675	1005.87	8.704	1010.21
10.781	834.27	9.087	981.54	9.015	993.28	8.804	1003.27	8.653	1005.79	8.683	1010.15
10.763	834.12	9.067	981.39	8.994	993.17	8.783	1003.19	8.632	1005.70	8.661	1010.04
10.745	834.04	9.046	981.30	8.972	993.06	8.761	1003.05	8.610	1005.55	8.639	1009.95
10.728	833.87	9.025	981.30	8.951	992.87	8.740	1002.99	8.589	1005.46	8.617	1009.82
10.710	833.72	9.004	981.30	8.930	992.84	8.718	1002.85	8.567	1005.38	8.596	1009.79
10.692	833.61	8.983	981.16	8.908	992.72	8.696	1002.78	8.546	1005.29	8.574	1009.63
10.675	833.46	8.962	981.00	8.887	992.59	8.675	1002.62	8.524	1005.14	8.552	1009.54
10.657	833.38	8.941	980.83	8.866	992.49	8.653	1002.54	8.503	1005.05	8.530	1009.46
10.639	833.22	8.920	980.73	8.844	992.41	8.631	1002.42	8.481	1004.95	8.508	1009.33
10.622	833.07	8.900	980.96	8.823	992.33	8.610	1002.36	8.460	1004.84	8.487	1009.22
10.604	832.97	8.879	980.76	8.802	992.22	8.588	1002.24	8.438	1004.72	8.465	1009.14
10.586	832.81	8.858	980.51	8.780	992.10	8.566	1002.13	8.417	1004.64	8.443	1009.05
10.569	832.73	8.837	980.36	8.759	991.97	8.545	1002.03	8.395	1004.47	8.421	1008.98
10.551	832.56	8.816	980.24	8.738	991.85	8.523	1001.88	8.374	1004.39	8.399	1008.87
10.533	832.42	8.795	980.19	8.716	991.72	8.501	1001.81	8.352	1004.29	8.378	1008.76

10.516	832.32	8.774	980.12	8.695	991.67	8.480	1001.72	8.331	1004.17	8.356	1008.66
10.498	832.15	8.753	979.97	8.674	991.54	8.458	1001.64	8.309	1004.07	8.334	1008.58
10.480	832.07	8.732	979.87	8.652	991.43	8.436	1001.48	8.288	1003.98	8.312	1008.48
10.463	831.91	8.712	979.80	8.631	991.30	8.415	1001.33	8.266	1003.89	8.291	1008.40
10.445	831.75	8.691	979.67	8.610	991.21	8.393	1001.26	8.245	1003.74	8.269	1008.33
10.427	831.66	8.670	979.61	8.588	991.12	8.372	1001.14	8.223	1003.66	8.247	1008.20
10.410	831.50	8.649	979.53	8.567	990.98	8.350	1001.06	8.202	1003.57	8.225	1008.07
10.392	831.39	8.628	979.42	8.546	990.90	8.328	1000.92	8.180	1003.41	8.203	1008.02
10.374	831.26	8.607	979.29	8.524	990.79	8.307	1000.84	8.159	1003.33	8.182	1007.91
10.356	831.14	8.586	979.21	8.503	990.66	8.285	1000.74	8.137	1003.25	8.160	1007.84
10.339	830.99	8.565	979.11	8.482	990.55	8.263	1000.65	8.116	1003.08	8.138	1007.71
10.321	830.84	8.545	979.00	8.460	990.47	8.242	1000.50	8.094	1003.00	8.116	1007.65
10.303	830.70	8.524	978.94	8.439	990.33	8.220	1000.41	8.073	1002.92	8.095	1007.52
10.286	830.60	8.503	978.81	8.418	990.23	8.198	1000.30	8.051	1002.75	8.073	1007.42
10.268	830.44	8.482	978.71	8.396	990.12	8.177	1000.22	8.030	1002.67	8.051	1007.33
10.250	830.30	8.461	978.60	8.375	989.98	8.155	1000.08	8.008	1002.59	8.029	1007.23
10.233	830.19	8.440	978.49	8.354	989.92	8.133	999.96	7.987	1002.51	8.007	1007.13
10.215	830.04	8.419	978.40	8.332	989.77	8.112	999.88	7.965	1002.35	7.986	1007.00
10.197	829.89	8.398	978.26	8.311	989.70	8.090	999.75	7.944	1002.26	7.964	1006.93
10.180	829.78	8.377	978.18	8.290	989.54	8.069	999.64	7.922	1002.17	7.942	1006.82
10.162	829.63	8.357	978.11	8.268	989.48	8.047	999.54	7.901	1002.02	7.920	1006.72
10.144	829.47	8.336	977.97	8.247	989.32	8.025	999.45	7.879	1001.94	7.898	1006.63
10.127	829.37	8.315	977.88	8.226	989.25	8.004	999.34	7.858	1001.85	7.877	1006.52
10.109	829.21	8.294	977.79	8.204	989.17	7.982	999.21	7.836	1001.75	7.855	1006.41
10.091	829.09	8.273	977.71	8.183	989.02	7.960	999.10	7.815	1001.61	7.833	1006.32
10.074	828.97	8.252	977.57	8.162	988.92	7.939	999.02	7.793	1001.52	7.811	1006.24
10.056	828.82	8.231	977.48	8.140	988.78	7.917	998.91	7.772	1001.43	7.790	1006.08
10.038	828.72	8.210	977.39	8.119	988.69	7.895	998.77	7.751	1001.28	7.768	1005.98
10.021	828.56	8.190	977.30	8.098	988.59	7.874	998.69	7.729	1001.20	7.746	1005.87
10.003	828.39	8.169	977.21	8.076	988.43	7.852	998.56	7.708	1001.05	7.724	1005.77
9.985	828.31	8.148	977.04	8.055	988.35	7.830	998.44	7.686	1000.95	7.702	1005.70
9.968	828.15	8.127	976.95	8.034	988.26	7.809	998.36	7.665	1000.87	7.681	1005.54
9.950	827.98	8.106	976.85	8.012	988.10	7.787	998.24	7.643	1000.79	7.659	1005.47
9.932	827.90	8.085	976.76	7.991	988.02	7.766	998.12	7.622	1000.63	7.637	1005.38
9.915	827.74	8.064	976.65	7.970	987.89	7.744	998.03	7.600	1000.55	7.615	1005.29
9.897	827.57	8.043	976.56	7.948	987.77	7.722	997.91	7.579	1000.45	7.594	1005.17
9.879	827.48	8.022	976.46	7.927	987.68	7.701	997.79	7.557	1000.30	7.572	1005.04
9.861	827.28	8.002	976.35	7.906	987.58	7.679	997.70	7.536	1000.22	7.550	1004.94
9.844	827.17	7.981	976.24	7.884	987.42	7.657	997.58	7.514	1000.14	7.528	1004.86
9.826	827.00	7.960	976.13	7.863	987.35	7.636	997.46	7.493	999.97	7.506	1004.72
9.808	826.92	7.939	976.02	7.842	987.25	7.614	997.38	7.471	999.89	7.485	1004.59
9.791	826.76	7.918	975.89	7.821	987.12	7.592	997.25	7.450	999.73	7.463	1004.53
9.773	826.59	7.897	975.79	7.799	987.03	7.571	997.18	7.428	999.64	7.441	1004.44
9.755	826.49	7.876	975.67	7.778	986.89	7.549	997.04	7.407	999.56	7.419	1004.30
9.738	826.35	7.855	975.55	7.757	986.76	7.527	996.93	7.385	999.46	7.397	1004.17
9.720	826.18	7.834	975.42	7.735	986.63	7.506	996.81	7.364	999.32	7.376	1004.10
9.702	826.02	7.814	975.29	7.714	986.52	7.484	996.73	7.342	999.23	7.354	1003.98
9.685	825.88	7.793	975.24	7.693	986.40	7.462	996.60	7.321	999.15	7.332	1003.89
9.667	825.77	7.772	975.10	7.671	986.30	7.441	996.48	7.299	999.01	7.310	1003.77
9.649	825.61	7.751	974.96	7.650	986.22	7.419	996.40	7.278	998.96	7.289	1003.66
9.632	825.45	7.730	974.86	7.629	986.07	7.398	996.23	7.256	998.83	7.267	1003.57
9.614	825.37	7.709	974.74	7.607	985.94	7.376	996.17	7.235	998.72	7.245	1003.43
9.596	825.20	7.688	974.67	7.586	985.89	7.354	996.07	7.213	998.65	7.223	1003.33
9.579	825.04	7.667	974.51	7.565	985.75	7.333	995.91	7.192	998.50	7.201	1003.19
9.561	824.87	7.647	974.42	7.543	985.66	7.311	995.82	7.170	998.42	7.180	1003.08

9.543	824.78	7.626	974.26	7.522	985.48	7.289	995.72	7.149	998.30	7.158	1003.00
9.526	824.62	7.605	974.16	7.501	985.40	7.268	995.58	7.127	998.17	7.136	1002.90
9.508	824.47	7.584	974.00	7.479	985.30	7.246	995.50	7.106	998.09	7.114	1002.80
9.490	824.30	7.563	973.91	7.458	985.15	7.224	995.41	7.084	998.01	7.092	1002.62
9.473	824.21	7.542	973.77	7.437	985.05	7.203	995.25	7.063	997.84	7.071	1002.51
9.455	824.06	7.521	973.66	7.415	984.99	7.181	995.17	7.041	997.76	7.049	1002.47
9.437	823.91	7.500	973.57	7.394	984.88	7.159	995.05	7.020	997.60	7.027	1002.31
9.419	823.76	7.479	973.40	7.373	984.73	7.138	994.92	6.998	997.52	7.005	1002.19
9.402	823.65	7.459	973.34	7.351	984.58	7.116	994.79	6.977	997.43	6.984	1002.10
9.384	823.48	7.438	973.22	7.330	984.50	7.095	994.68	6.955	997.31	6.962	1001.96
9.366	823.32	7.417	973.09	7.309	984.34	7.073	994.60	6.934	997.19	6.940	1001.85
9.349	823.16	7.396	972.93	7.287	984.25	7.051	994.49	6.912	997.11	6.918	1001.76
9.331	823.06	7.375	972.79	7.266	984.17	7.030	994.35	6.891	996.94	6.896	1001.64
9.313	822.88	7.354	972.68	7.245	984.04	7.008	994.26	6.869	996.86	6.875	1001.52
9.296	822.72	7.333	972.54	7.223	983.92	6.986	994.10	6.848	996.73	6.853	1001.39
9.278	822.60	7.312	972.38	7.202	983.83	6.965	994.02	6.826	996.61	6.831	1001.28
9.260	822.42	7.292	972.21	7.181	983.68	6.943	993.93	6.805	996.53	6.809	1001.17
9.243	822.34	7.271	972.11	7.159	983.57	6.921	993.78	6.783	996.37	6.788	1001.04
9.225	822.17	7.250	972.00	7.138	983.49	6.900	993.70	6.762	996.29	6.766	1000.90
9.207	822.01	7.229	971.89	7.117	983.35	6.878	993.59	6.740	996.21	6.744	1000.81
9.190	821.85	7.208	971.72	7.095	983.21	6.856	993.47	6.719	996.04	6.722	1000.71
9.172	821.68	7.187	971.56	7.074	983.11	6.835	993.37	6.697	995.96	6.700	1000.61
9.154	821.52	7.166	971.48	7.053	983.03	6.813	993.20	6.676	995.71	6.679	1000.46
9.137	821.44	7.145	971.31	7.031	982.86	6.791	993.15	6.654	995.63	6.657	1000.38
9.119	821.27	7.124	971.15	7.010	982.78	6.770	993.04	6.633	995.47	6.635	1000.24
9.101	821.11	7.104	971.07	6.989	982.62	6.748	992.88	6.611	995.38	6.613	1000.13
9.084	820.95	7.083	970.90	6.967	982.54	6.727	992.79	6.590	995.30	6.591	999.97
9.066	820.78	7.062	970.82	6.946	982.43	6.705	992.69	6.568	995.17	6.570	999.89
9.048	820.62	7.041	970.69	6.925	982.29	6.683	992.61	6.547	995.06	6.548	999.81
9.031	820.49	7.020	970.57	6.903	982.12	6.662	992.47	6.525	994.98	6.526	999.68
9.013	820.48	6.999	970.41	6.882	981.91	6.640	992.31	6.504	994.88	6.504	999.56
8.886	819.42	6.978	970.25	6.861	981.54	6.618	992.15	6.482	994.73	6.483	999.46
8.870	819.29	6.957	970.16	6.839	981.46	6.597	991.97	6.461	994.65	6.461	999.31
8.854	819.16	6.937	970.08	6.818	981.29	6.575	991.89	6.439	994.51	6.439	999.19
8.838	819.03	6.916	969.92	6.797	981.21	6.553	991.73	6.418	994.41	6.417	999.07
8.823	818.90	6.895	969.81	6.775	981.05	6.532	991.64	6.396	994.29	6.395	998.94
8.807	818.77	6.874	969.72	6.754	980.97	6.510	991.48	6.375	994.21	6.374	998.82
8.791	818.64	6.853	969.59	6.733	980.80	6.488	991.40	6.353	994.07	6.352	998.70
8.776	818.50	6.832	969.51	6.711	980.72	6.467	991.32	6.332	993.99	6.330	998.44
8.760	818.37	6.811	969.41	6.690	980.56	6.445	991.15	6.310	993.90	6.308	998.33
8.744	818.24	6.790	969.25	6.669	980.42	6.424	991.07	6.289	993.80	6.287	998.16
8.729	818.11	6.769	969.18	6.647	980.31	6.402	990.95	6.267	993.67	6.265	998.08
8.713	817.98	6.749	969.12	6.626	980.14	6.380	990.82	6.246	993.58	6.243	998.00
8.697	817.84	6.728	968.99	6.605	979.98	6.359	990.74	6.224	993.42	6.221	997.84
8.682	817.71	6.707	968.85	6.583	979.88	6.337	990.63	6.203	993.34	6.199	997.76
8.666	817.58	6.686	968.77	6.562	979.73	6.315	990.53	6.181	993.22	6.178	997.60
8.650	817.44	6.665	968.61	6.541	979.65	6.294	990.44	6.160	993.17	6.156	997.51
8.635	817.31	6.644	968.53	6.520	979.54	6.272	990.34	6.138	993.01	6.134	997.43
8.619	817.18	6.623	968.42	6.498	979.36	6.250	990.22	6.117	992.92	6.112	997.32
8.603	817.04	6.602	968.29	6.477	979.24	6.229	990.10	6.095	992.84	6.090	997.18
8.588	816.91	6.582	968.20	6.456	979.16	6.207	990.05	6.074	992.69	6.069	997.10
8.572	816.78	6.561	968.04	6.434	979.03	6.185	989.92	6.052	992.60	6.047	996.94
8.556	816.64	6.540	967.95	6.413	978.91	6.164	989.80	6.031	992.46	6.025	996.85
8.541	816.51	6.519	967.87	6.392	978.83	6.142	989.67	6.009	992.32	6.003	996.77
8.525	816.37	6.498	967.72	6.370	978.71	6.121	989.60	5.988	992.21	5.982	996.61

8.509	816.24	6.477	967.63	6.349	978.55	6.099	989.52	5.966	992.11	5.960	996.53
8.493	816.11	6.456	967.48	6.328	978.42	6.077	989.40	5.945	992.03	5.938	996.39
8.478	815.97	6.435	967.38	6.306	978.34	6.056	989.30	5.923	991.86	5.916	996.32
8.462	815.84	6.414	967.28	6.285	978.18	6.034	989.20	5.902	991.76	5.894	996.20
8.446	815.70	6.394	967.14	6.264	978.06	6.012	989.09	5.880	991.70	5.873	996.05
8.431	815.57	6.373	967.04	6.242	977.93	5.991	988.99	5.859	991.57	5.851	995.95
8.415	815.43	6.352	966.89	6.221	977.77	5.969	988.89	5.837	991.48	5.829	995.87
8.399	815.30	6.331	966.79	6.200	977.66	5.947	988.72	5.816	991.38	5.807	995.77
8.384	815.16	6.310	966.70	6.178	977.52	5.926	988.62	5.794	991.21	5.785	995.63
8.368	815.02	6.289	966.63	6.157	977.44	5.904	988.54	5.773	991.11	5.764	995.54
8.352	814.89	6.268	966.47	6.136	977.36	5.882	988.41	5.751	991.05	5.742	995.38
8.337	814.75	6.247	966.40	6.114	977.28	5.861	988.28	5.730	990.92	5.720	995.30
8.321	814.62	6.227	966.27	6.093	977.13	5.839	988.20	5.708	990.79	5.698	995.21
8.305	814.48	6.206	966.12	6.072	977.06	5.817	988.12	5.687	990.70	5.677	995.08
8.290	814.34	6.185	966.06	6.050	976.95	5.796	987.96	5.665	990.61	5.655	995.00
8.274	814.21	6.164	965.90	6.029	976.83	5.774	987.89	5.644	990.50	5.633	994.89
8.258	814.07	6.143	965.83	6.008	976.78	5.753	987.73	5.622	990.39	5.611	994.76
8.243	813.93	6.122	965.67	5.986	976.63	5.731	987.61	5.601	990.21	5.589	994.64
8.227	813.80	6.101	965.56	5.965	976.54	5.709	987.48	5.579	990.14	5.568	994.56
8.211	813.66	6.080	965.47	5.944	976.46	5.688	987.41	5.558	990.02	5.546	994.45
8.196	813.52	6.059	965.33	5.922	976.30	5.666	987.28	5.536	989.91	5.524	994.34
8.180	813.38	6.039	965.20	5.901	976.22	5.644	987.18	5.515	989.80	5.502	994.20
8.164	813.25	6.018	965.09	5.880	976.15	5.623	987.06	5.493	989.67	5.481	994.06
8.148	813.11	5.997	965.03	5.858	976.03	5.601	986.90	5.472	989.53	5.459	993.95
8.133	812.97	5.976	964.90	5.837	975.89	5.579	986.82	5.450	989.41	5.437	993.90
8.117	812.83	5.955	964.77	5.816	975.81	5.558	986.67	5.429	989.33	5.415	993.78
8.101	812.69	5.934	964.65	5.794	975.69	5.536	986.55	5.407	989.22	5.393	993.64
8.086	812.56	5.913	964.50	5.773	975.56	5.514	986.41	5.386	989.10	5.372	993.53
8.070	812.42	5.892	964.37	5.752	975.46	5.493	986.32	5.364	988.97	5.350	993.46
8.054	812.28	5.871	964.33	5.730	975.36	5.471	986.14	5.343	988.84	5.328	993.36
8.039	812.14	5.851	964.21	5.709	975.23	5.450	985.99	5.321	988.72	5.306	993.23
8.023	812.00	5.830	964.04	5.688	975.14	5.428	985.83	5.300	988.60	5.284	993.11
8.007	811.86	5.809	963.90	5.666	975.03	5.406	985.67	5.278	988.53	5.263	992.97
7.992	811.72	5.788	963.78	5.645	974.93	5.385	985.38	5.257	988.38	5.241	992.88
7.976	811.58	5.767	963.66	5.624	974.76	5.363	985.25	5.235	988.32	5.219	992.75
7.960	811.44	5.746	963.60	5.602	974.66	5.341	985.17	5.214	988.18	5.197	992.68
7.945	811.30	5.725	963.48	5.581	974.53	5.320	985.09	5.192	988.04	5.176	992.51
7.929	811.16	5.704	963.32	5.560	974.43	5.298	984.94	5.171	987.91	5.154	992.41
7.913	811.02	5.684	963.17	5.538	974.33	5.276	984.83	5.149	987.83	5.132	992.28
7.898	810.88	5.663	963.08	5.517	974.23	5.255	984.70	5.128	987.69	5.110	992.15
7.882	810.74	5.642	962.93	5.496	974.13	5.233	984.60	5.106	987.54	5.088	992.02
7.866	810.60	5.621	962.84	5.474	974.04	5.211	984.53	5.085	987.44	5.067	991.91
7.851	810.46	5.600	962.67	5.453	973.89	5.190	984.36	5.063	987.35	5.045	991.84
7.835	810.32	5.579	962.58	5.432	973.77	5.168	984.27	5.042	987.20	5.023	991.70
7.819	810.18	5.558	962.43	5.410	973.67	5.147	984.16	5.020	987.11	5.001	991.62
7.803	810.04	5.537	962.30	5.389	973.54	5.125	984.03	4.999	986.99	4.980	991.49
7.788	809.90	5.516	962.20	5.368	973.45	5.103	983.94	4.977	986.85	4.958	991.33
7.772	809.75	5.496	962.05	5.346	973.26	5.082	983.84	4.956	986.71	4.936	991.27
7.756	809.61	5.475	961.98	5.325	973.19	5.060	983.72	4.934	986.56	4.914	991.11
7.741	809.47	5.454	961.81	5.304	973.11	5.038	983.61	4.913	986.50	4.892	991.00
7.725	809.33	5.433	961.73	5.282	972.94	5.017	983.46	4.891	986.35	4.871	990.88
7.709	809.19	5.412	961.57	5.261	972.86	4.995	983.37	4.870	986.28	4.849	990.79
7.694	809.04	5.391	961.48	5.240	972.70	4.973	983.23	4.848	986.14	4.827	990.64
7.678	808.90	5.370	961.33	5.219	972.59	4.952	983.13	4.827	986.00	4.805	990.55
7.662	808.76	5.349	961.17	5.197	972.49	4.930	983.02	4.805	985.90	4.783	990.40

7.647	808.62	5.329	961.02	5.176	972.36	4.908	982.90	4.784	985.77	4.762	990.27
7.631	808.47	5.308	960.95	5.155	972.23	4.887	982.78	4.762	985.62	4.740	990.17
7.615	808.33	5.287	960.79	5.133	972.08	4.865	982.65	4.741	985.47	4.718	990.03
7.600	808.19	5.266	960.66	5.112	971.97	4.843	982.49	4.719	985.39	4.696	989.93
7.584	808.04	5.245	960.57	5.091	971.88	4.822	982.39	4.698	985.25	4.675	989.77
7.568	807.90	5.224	960.42	5.069	971.74	4.800	982.22	4.676	985.16	4.653	989.67
7.553	807.75	5.203	960.34	5.048	971.63	4.779	982.17	4.655	985.00	4.631	989.52
7.537	807.61	5.182	960.18	5.027	971.47	4.757	982.00	4.633	984.92	4.609	989.45
7.521	807.47	5.161	960.02	5.005	971.32	4.735	981.86	4.612	984.79	4.587	989.30
7.506	807.32	5.141	959.93	4.984	971.29	4.714	981.73	4.590	984.66	4.566	989.20
7.490	807.18	5.120	959.76	4.963	971.14	4.692	981.64	4.569	984.50	4.544	989.03
7.474	807.03	5.099	959.64	4.941	971.01	4.670	981.54	4.547	984.39	4.522	988.91
7.458	806.89	5.078	959.55	4.920	970.84	4.649	981.38	4.526	984.24	4.500	988.77
7.443	806.74	5.057	959.36	4.899	970.73	4.627	981.24	4.504	984.16	4.478	988.67
7.427	806.60	5.036	959.27	4.877	970.57	4.605	981.16	4.483	984.04	4.457	988.50
7.411	806.45	5.015	959.16	4.856	970.49	4.584	980.99	4.461	983.92	4.435	988.42
7.396	806.31	4.994	959.02	4.835	970.33	4.562	980.88	4.440	983.75	4.413	988.27
7.380	806.16	4.974	958.86	4.813	970.24	4.540	980.73	4.418	983.59	4.391	988.15
7.364	806.02	4.953	958.74	4.792	970.10	4.519	980.62	4.397	983.44	4.370	988.02
7.349	805.87	4.932	958.61	4.771	969.93	4.497	980.48	4.375	983.34	4.348	987.87
7.333	805.72	4.911	958.45	4.749	969.83	4.476	980.34	4.354	983.23	4.326	987.79
7.317	805.58	4.890	958.34	4.728	969.66	4.454	980.26	4.332	983.04	4.304	987.59
7.302	805.43	4.869	958.20	4.707	969.54	4.432	980.09	4.311	982.90	4.282	987.48
7.286	805.28	4.848	958.04	4.685	969.42	4.411	980.00	4.289	982.83	4.261	987.43
7.270	805.14	4.827	957.91	4.664	969.25	4.389	979.85	4.268	982.60	4.239	987.20
7.255	804.99	4.806	957.72	4.643	969.14	4.367	979.68	4.246	982.52	4.217	987.09
7.239	804.84	4.786	957.61	4.621	969.01	4.346	979.60	4.225	982.37	4.195	986.94
7.223	804.70	4.765	957.35	4.600	968.84	4.324	979.45	4.203	981.61	4.174	986.84
7.208	804.55	4.744	956.88	4.579	968.68	4.302	979.31	4.182	981.47	4.152	986.67
7.192	804.40	4.723	956.39	4.557	968.59	4.281	979.19	4.160	981.36	4.130	986.44
7.176	804.25	4.702	957.08	4.536	968.26	4.259	979.02	4.139	981.28	4.108	986.24
7.161	804.11	4.681	956.89	4.515	968.18	4.237	978.94	4.117	981.17	4.086	986.12
7.145	803.96	4.660	956.37	4.493	968.02	4.216	978.82	4.096	981.43	4.065	985.95
7.129	803.81	4.639	956.24	4.472	967.85	4.194	978.69	4.074	981.11	4.043	985.79
7.113	803.66	4.619	956.21	4.451	967.76	4.172	978.53	4.053	980.95	4.021	985.62
7.098	803.51	4.598	956.37	4.429	967.58	4.151	978.42	4.031	981.09	3.999	985.46
7.082	803.36	4.577	955.69	4.408	967.44	4.129	978.29	4.010	980.97	3.977	985.29
7.066	803.22	4.556	955.98	4.387	967.28	4.108	978.12	3.988	980.55	3.956	985.13
7.051	803.07	4.535	955.90	4.365	967.11	4.086	977.99	3.967	980.46	3.934	984.89
7.035	802.92	4.514	955.44	4.344	967.01	4.064	977.88	3.945	980.55	3.912	984.84
7.019	802.77	4.493	955.63	4.323	966.84	4.043	977.79	3.924	980.51	3.890	984.56
7.004	802.62	4.472	955.10	4.301	966.70	4.021	977.64	3.902	980.13	3.869	984.63
6.988	802.47	4.451	955.05	4.280	966.61	3.999	977.52	3.881	980.16	3.847	984.49
6.972	802.32	4.431	955.21	4.259	966.51	3.978	977.36	3.859	980.13	3.825	984.47
6.957	802.17	4.410	954.54	4.237	966.41	3.956	977.20	3.838	979.76	3.803	984.26
6.941	802.02	4.389	954.42	4.216	966.31	3.934	977.11	3.816	979.85	3.781	984.23
6.925	801.87	4.368	954.77	4.195	966.20	3.913	976.97	3.795	979.65	3.760	983.90
6.910	801.72	4.347	954.67	4.173	966.08	3.891	976.74	3.773	979.50	3.738	984.00
6.894	801.57	4.326	954.18	4.152	965.96	3.869	976.71	3.752	978.98	3.716	983.65
6.878	801.42	4.305	954.41	4.131	965.84	3.848	976.55	3.730	979.02	3.694	983.57
6.863	801.26	4.284	954.19	4.109	965.72	3.826	976.41	3.709	979.07	3.673	983.64
6.847	801.11	4.264	954.10	4.088	965.60	3.805	976.29	3.687	978.94	3.651	983.57
6.831	800.96	4.243	953.84	4.067	965.48	3.783	976.15	3.666	978.77	3.629	983.41
6.816	800.81	4.222	953.85	4.045	965.33	3.761	976.02	3.644	978.38	3.607	983.25
6.800	800.66	4.201	953.26	4.024	965.15	3.740	975.82	3.623	978.25	3.585	983.15

6.784	800.51	4.180	953.60	4.003	965.09	3.718	975.74	3.601	978.43	3.564	982.91
6.768	800.35	4.159	953.44	3.982	964.98	3.696	975.64	3.580	978.12	3.542	982.75
6.753	800.20	4.138	953.29	3.960	964.86	3.675	975.47	3.558	978.07	3.520	982.54
6.737	800.05	4.117	953.11	3.939	964.74	3.653	975.33	3.537	978.07	3.498	982.56
6.721	799.90	4.096	952.97	3.918	964.59	3.631	975.17	3.515	977.80	3.476	982.39
6.706	799.74	4.076	952.88	3.896	964.43	3.610	975.09	3.494	977.51	3.455	982.27
6.690	799.59	4.055	952.52	3.875	964.28	3.588	974.92	3.472	977.74	3.433	982.10
6.674	799.44	4.034	952.62	3.854	964.15	3.566	974.83	3.451	977.26	3.411	982.01
6.659	799.28	4.013	951.88	3.832	964.02	3.545	974.68	3.429	977.22	3.389	981.85
6.643	799.13	3.992	952.10	3.811	963.90	3.523	974.51	3.408	977.02	3.368	981.68
6.627	798.98	3.971	951.60	3.790	963.79	3.502	974.35	3.386	976.85	3.346	981.52
6.612	798.82	3.950	951.42	3.768	963.64	3.480	974.18	3.365	976.77	3.324	981.35
6.596	798.67	3.929	951.30	3.747	963.46	3.458	974.10	3.343	976.57	3.302	981.19
6.580	798.51	3.908	951.17	3.726	963.35	3.437	973.93	3.322	976.44	3.280	981.11
6.565	798.36	3.888	951.01	3.704	963.22	3.415	973.83	3.300	976.28	3.259	980.94
6.549	798.21	3.867	950.82	3.683	963.07	3.393	973.65	3.279	976.20	3.237	980.78
6.533	798.05	3.846	950.66	3.662	962.87	3.372	973.53	3.257	976.03	3.215	980.69
6.518	797.90	3.825	950.31	3.640	962.71	3.350	973.37	3.236	975.90	3.193	980.53
6.502	797.74	3.804	950.36	3.619	962.57	3.328	973.18	3.214	975.79	3.171	980.41
6.486	797.59	3.783	949.90	3.598	962.43	3.307	973.03	3.193	975.62	3.150	980.20
6.471	797.43	3.762	949.78	3.576	962.28	3.285	972.70	3.171	975.54	3.128	980.12
6.455	797.28	3.741	949.53	3.555	962.01	3.263	972.54	3.150	975.38	3.106	979.96
6.439	797.12	3.721	949.37	3.534	961.87	3.242	972.35	3.128	975.29	3.084	979.82
6.423	796.96	3.700	949.08	3.512	961.76	3.220	972.22	3.107	975.13	3.063	979.71
6.408	796.81	3.679	948.91	3.491	961.58	3.198	972.08	3.085	975.04	3.041	979.55
6.392	796.65	3.658	948.66	3.470	961.37	3.177	972.00	3.064	974.88	3.019	979.42
6.376	796.50	3.637	948.50	3.448	961.16	3.155	971.86	3.042	974.72	2.997	979.22
6.361	796.34	3.616	948.24	3.427	960.98	3.134	971.66	3.021	974.61	2.975	979.05
6.345	796.18	3.595	948.00	3.406	960.81	3.112	971.52	2.999	974.46	2.954	978.90
6.329	796.02	3.574	947.76	3.384	960.63	3.090	971.35	2.978	974.31	2.932	978.77
6.314	795.87	3.553	947.51	3.363	959.55	3.069	971.23	2.956	974.14	2.910	978.56
6.298	795.71	3.533	947.25	3.342	959.73	3.047	971.06	2.935	973.90	2.888	978.39
6.282	795.55	3.512	947.06	3.320	959.63	3.025	970.84	2.913	973.73	2.867	978.23
6.267	795.39	3.491	946.85	3.299	958.89	3.004	970.73	2.892	973.65	2.845	978.07
6.251	795.24	3.470	946.68	3.278	958.75	2.982	970.48	2.870	973.49	2.823	977.90
6.235	795.08	3.449	946.44	3.256	958.64	2.960	970.24	2.849	973.32	2.801	977.74
6.220	794.92	3.428	946.36	3.235	958.43	2.939	970.07	2.672	71.58	2.779	977.63
6.204	794.76	3.407	946.19	3.214	958.23	2.917	969.90	2.659	71.01	2.758	977.41
6.188	794.60	2.748	72.78	2.718	71.66	2.680	71.42	2.646	70.48	2.661	71.50
6.173	794.45	2.734	72.18	2.705	71.20	2.667	70.89	2.633	69.94	2.649	70.80
6.157	794.29	2.721	71.63	2.692	70.65	2.654	70.41	2.620	69.46	2.636	70.28
6.141	794.13	2.708	71.23	2.679	70.15	2.641	69.85	2.607	68.96	2.623	69.84
6.126	793.97	2.694	70.64	2.666	69.67	2.628	69.35	2.595	68.48	2.611	69.34
6.110	793.81	2.681	70.19	2.653	69.16	2.615	68.91	2.582	68.07	2.598	68.86
6.094	793.65	2.668	69.58	2.640	68.68	2.602	68.42	2.569	67.52	2.585	68.34
6.078	793.49	2.655	69.10	2.627	68.18	2.590	67.90	2.556	67.00	2.573	67.88
6.063	793.33	2.641	68.61	2.613	67.73	2.577	67.46	2.543	66.47	2.560	67.45
6.047	793.17	2.628	68.11	2.600	67.29	2.564	67.03	2.530	66.00	2.547	66.92
6.031	793.01	2.615	67.72	2.587	66.77	2.551	66.42	2.517	65.70	2.534	66.50
3.258	78.80	2.601	67.17	2.574	66.30	2.538	66.00	2.504	65.06	2.522	66.02
3.242	78.25	2.588	66.62	2.561	65.81	2.525	65.57	2.491	64.62	2.509	65.57
3.226	77.78	2.575	66.18	2.548	65.38	2.512	65.14	2.478	64.19	2.496	65.07
3.210	77.16	2.562	65.83	2.535	64.86	2.500	64.57	2.466	63.69	2.484	64.60
3.194	76.64	2.548	65.26	2.522	64.42	2.487	64.16	2.453	63.26	2.471	64.14
3.178	76.12	2.535	64.72	2.509	63.95	2.474	63.66	2.440	62.80	2.458	63.67

3.163	75.59	2.522	64.26	2.495	63.43	2.461	63.23	2.427	62.29	2.446	63.21
3.147	75.05	2.508	63.82	2.482	62.98	2.448	62.75	2.414	61.84	2.433	62.78
3.131	74.53	2.495	63.38	2.469	62.55	2.435	62.38	2.401	61.44	2.420	62.34
3.115	74.01	2.482	62.94	2.456	62.09	2.422	61.85	2.388	60.98	2.407	61.92
3.099	73.47	2.469	62.50	2.443	61.61	2.410	61.41	2.375	60.60	2.395	61.48
3.083	72.95	2.455	62.04	2.430	61.13	2.397	60.96	2.362	60.03	2.382	61.05
3.067	72.43	2.442	61.55	2.417	60.71	2.384	60.55	2.349	59.64	2.369	60.59
3.051	71.93	2.429	61.13	2.404	60.28	2.371	60.10	2.337	59.25	2.357	60.14
3.036	71.45	2.415	60.70	2.391	59.78	2.358	59.66	2.324	58.75	2.344	59.71
3.020	70.92	2.402	60.24	2.377	59.44	2.345	59.25	2.311	58.33	2.331	59.30
3.004	70.44	2.389	59.83	2.364	58.93	2.332	58.79	2.298	57.91	2.319	58.81
2.988	69.90	2.376	59.39	2.351	58.48	2.320	58.36	2.285	57.41	2.306	58.41
2.972	69.38	2.362	58.95	2.338	58.01	2.307	57.93	2.272	57.14	2.293	57.97
2.956	68.87	2.349	58.52	2.325	57.60	2.294	57.53	2.259	56.65	2.280	57.54
2.940	68.39	2.336	58.10	2.312	57.15	2.281	57.09	2.246	56.21	2.268	57.12
2.925	67.87	2.322	57.70	2.299	56.75	2.268	56.67	2.233	55.76	2.255	56.71
2.909	67.44	2.309	57.29	2.286	56.29	2.255	56.22	2.220	55.35	2.242	56.26
2.893	66.94	2.296	56.83	2.273	55.85	2.242	55.83	2.208	54.97	2.230	55.83
2.877	66.45	2.283	56.40	2.259	55.42	2.230	55.42	2.195	54.54	2.217	55.47
2.861	65.96	2.269	55.98	2.246	55.01	2.217	55.00	2.182	54.08	2.204	55.07
2.845	65.47	2.256	55.57	2.233	54.56	2.204	54.59	2.169	53.69	2.192	54.59
2.829	64.99	2.243	55.35	2.220	54.23	2.191	54.17	2.156	53.34	2.179	54.17
2.813	64.50	2.229	54.79	2.207	53.73	2.178	53.82	2.143	52.85	2.166	53.83
2.798	64.11	2.216	54.51	2.194	53.36	2.165	53.39	2.130	52.60	2.154	53.36
2.782	63.63	2.203	54.01	2.181	52.93	2.152	52.98	2.117	52.14	2.141	53.01
2.766	63.16	2.190	53.58	2.168	52.57	2.140	52.56	2.104	51.66	2.128	52.61
2.750	62.69	2.176	53.16	2.155	52.11	2.127	52.24	2.091	51.27	2.115	52.20
2.734	62.22	2.163	52.73	2.141	51.74	2.114	51.72	2.079	50.85	2.103	51.80
2.718	61.76	2.150	52.35	2.128	51.38	2.101	51.42	2.066	50.42	2.090	51.36
2.702	61.30	2.136	52.00	2.115	50.89	2.088	50.99	2.053	50.04	2.077	50.99
2.686	60.84	2.123	51.59	2.102	50.49	2.075	50.58	2.040	49.65	2.065	50.59
2.671	60.38	2.110	51.15	2.089	50.10	2.062	50.18	2.027	49.26	2.052	50.18
2.655	59.92	2.097	50.78	2.076	49.70	2.050	49.75	2.014	48.92	2.039	49.80
2.639	59.46	2.083	50.39	2.063	49.33	2.037	49.40	2.001	48.53	2.027	49.41
2.623	59.01	2.070	49.96	2.050	48.94	2.024	48.99	1.988	48.10	2.014	49.02
2.607	58.57	2.057	49.53	2.037	48.54	2.011	48.68	1.975	47.69	2.001	48.64
2.591	58.12	2.043	49.19	2.023	48.13	1.998	48.26	1.962	47.32	1.988	48.26
2.575	57.68	2.030	48.85	2.010	47.76	1.985	47.85	1.950	46.90	1.976	47.89
2.559	57.24	2.017	48.44	1.997	47.39	1.972	47.49	1.937	46.49	1.963	47.51
2.544	56.80	2.004	48.01	1.984	46.97	1.960	47.12	1.924	46.13	1.950	47.13
2.528	56.37	1.990	47.63	1.971	46.64	1.947	46.77	1.911	45.78	1.938	46.74
2.512	55.93	1.977	47.27	1.958	46.24	1.934	46.34	1.898	45.39	1.925	46.34
2.496	55.51	1.964	46.88	1.945	45.83	1.921	46.03	1.885	45.00	1.912	46.00
2.480	55.05	1.950	46.51	1.932	45.47	1.908	45.64	1.872	44.64	1.900	45.65
2.464	54.58	1.937	46.25	1.919	45.08	1.895	45.31	1.859	44.31	1.887	45.28
2.448	54.16	1.924	45.88	1.905	44.74	1.883	44.82	1.846	43.93	1.874	44.89
2.433	53.74	1.910	45.51	1.892	44.34	1.870	44.35	1.833	43.49	1.861	44.46
2.417	53.32	1.897	45.09	1.879	43.99	1.857	44.06	1.821	43.21	1.849	44.07
2.401	52.91	1.884	44.64	1.866	43.65	1.844	43.82	1.808	42.80	1.836	43.75
2.385	52.49	1.871	44.20	1.853	43.31	1.831	43.50	1.795	42.39	1.823	43.36
2.369	52.08	1.857	43.82	1.840	42.91	1.818	43.08	1.782	42.05	1.811	42.99
2.353	51.66	1.844	43.44	1.827	42.52	1.805	42.50	1.769	41.73	1.798	42.69
2.337	51.25	1.831	43.10	1.814	42.11	1.793	42.24	1.756	41.44	1.785	42.29
2.321	50.83	1.817	42.75	1.800	41.81	1.780	41.94	1.743	41.00	1.773	41.92
2.306	50.40	1.804	42.40	1.787	41.41	1.767	41.46	1.730	40.60	1.760	41.56

2.290	49.98	1.791	42.03	1.774	41.08	1.754	41.07	1.717	40.28	1.747	41.17
2.274	49.56	1.778	41.66	1.761	40.75	1.741	40.72	1.704	39.92	1.734	40.80
2.258	49.16	1.764	41.26	1.748	40.33	1.728	40.37	1.692	39.51	1.722	40.44
2.242	48.76	1.751	40.86	1.735	39.96	1.715	40.01	1.679	39.19	1.709	40.12
2.226	48.36	1.738	40.62	1.722	39.67	1.703	39.63	1.666	38.85	1.696	39.75
2.210	47.97	1.724	40.34	1.709	39.29	1.690	39.25	1.653	38.50	1.684	39.41
2.194	47.58	1.711	39.91	1.696	38.92	1.677	38.88	1.640	38.14	1.671	39.06
2.179	47.19	1.698	39.48	1.682	38.58	1.664	38.54	1.627	37.79	1.658	38.67
2.163	46.80	1.685	39.24	1.669	38.24	1.651	38.19	1.614	37.42	1.646	38.33
2.147	46.41	1.671	38.87	1.656	37.86	1.638	37.84	1.601	37.06	1.633	37.96
2.131	45.95	1.658	38.45	1.643	37.48	1.625	37.49	1.588	36.73	1.620	37.64
2.115	45.57	1.645	38.05	1.630	37.21	1.613	37.26	1.575	36.44	1.608	37.26
2.099	45.19	1.631	37.69	1.617	36.82	1.600	37.01	1.563	36.14	1.595	36.92
2.083	44.81	1.618	37.33	1.604	36.49	1.587	36.60	1.550	35.71	1.582	36.55
2.067	44.43	1.605	36.98	1.591	36.15	1.574	36.19	1.537	35.32	1.569	36.27
2.052	44.06	1.592	36.63	1.578	35.77	1.561	35.83	1.524	34.96	1.557	35.92
2.036	43.69	1.578	36.29	1.564	35.44	1.548	35.60	1.511	34.70	1.544	35.58
2.020	43.30	1.565	35.96	1.551	35.11	1.535	35.13	1.498	34.42	1.531	35.24
2.004	42.87	1.552	35.59	1.538	34.80	1.523	34.80	1.485	34.08	1.519	34.91
1.988	42.48	1.538	35.21	1.525	34.42	1.510	34.64	1.472	33.66	1.506	34.55
1.972	42.11	1.525	34.88	1.512	34.05	1.497	34.26	1.459	33.37	1.493	34.21
1.956	41.75	1.512	34.65	1.499	33.74	1.484	33.91	1.446	33.03	1.481	33.89
1.941	41.38	1.499	34.35	1.486	33.42	1.471	33.54	1.434	32.62	1.468	33.60
1.925	41.02	1.485	33.93	1.473	33.10	1.458	33.08	1.421	32.35	1.455	33.21
1.909	40.66	1.472	33.52	1.460	32.72	1.445	32.77	1.408	32.08	1.442	32.87
1.893	40.30	1.459	33.29	1.446	32.37	1.433	32.44	1.395	31.77	1.430	32.58
1.877	39.90	1.445	33.01	1.433	32.02	1.420	32.09	1.382	31.39	1.417	32.26
1.861	39.50	1.432	32.64	1.420	31.75	1.407	31.75	1.369	30.97	1.404	31.86
1.845	39.15	1.419	32.22	1.407	31.43	1.394	31.51	1.356	30.68	1.392	31.56
1.829	38.80	1.406	31.79	1.394	31.04	1.381	31.18	1.343	30.40	1.379	31.21
1.814	38.45	1.392	31.46	1.381	30.70	1.368	30.80	1.330	29.98	1.366	30.89
1.798	38.10	1.379	31.13	1.368	30.36	1.355	30.45	1.317	29.65	1.354	30.55
1.782	37.76	1.366	30.84	1.355	30.04	1.343	30.12	1.305	29.32	1.341	30.26
1.766	37.41	1.352	30.62	1.342	29.74	1.330	29.80	1.292	28.97	1.328	29.93
1.750	37.04	1.339	30.19	1.328	29.44	1.317	29.47	1.279	28.63	1.315	29.56
1.734	36.65	1.326	29.82	1.315	29.08	1.304	29.15	1.266	28.34	1.303	29.24
1.718	36.30	1.313	29.51	1.302	28.76	1.291	28.82	1.253	28.06	1.290	28.95
1.702	35.96	1.299	29.29	1.289	28.44	1.278	28.49	1.240	27.66	1.277	28.60
1.687	35.62	1.286	28.85	1.276	28.07	1.265	28.18	1.227	27.35	1.265	28.29
1.671	35.25	1.273	28.47	1.263	27.76	1.253	27.88	1.214	27.03	1.252	27.98
1.655	34.87	1.259	28.19	1.250	27.46	1.240	27.57	1.201	26.72	1.239	27.64
1.639	34.51	1.246	27.86	1.237	27.08	1.227	27.25	1.188	26.40	1.227	27.33
1.623	34.12	1.233	27.53	1.224	26.87	1.214	26.89	1.176	26.06	1.214	27.04
1.607	33.76	1.220	27.20	1.210	26.49	1.201	26.55	1.163	25.74	1.201	26.76
1.591	33.43	1.206	26.83	1.197	26.13	1.188	26.27	1.150	25.45	1.188	26.40
1.575	33.04	1.193	26.49	1.184	25.87	1.175	26.05	1.137	25.16	1.176	26.11
1.560	32.69	1.180	26.15	1.171	25.54	1.163	25.65	1.124	24.84	1.163	25.76
1.544	32.30	1.166	25.82	1.158	25.21	1.150	25.45	1.111	24.53	1.150	25.45
1.528	31.96	1.153	25.56	1.145	24.87	1.137	25.06	1.098	24.21	1.138	25.18
1.512	31.57	1.140	25.31	1.132	24.59	1.124	24.67	1.085	23.89	1.125	24.89
1.496	31.24	1.127	25.03	1.119	24.29	1.111	24.48	1.072	23.58	1.112	24.51
1.480	30.84	1.113	24.62	1.105	23.92	1.098	24.05	1.059	23.27	1.100	24.24
1.464	30.52	1.100	24.26	1.092	23.65	1.086	23.81	1.047	22.95	1.087	23.92
1.449	30.12	1.087	23.93	1.079	23.35	1.073	23.49	1.034	22.68	1.074	23.60
1.433	29.80	1.073	23.60	1.066	22.98	1.060	23.14	1.021	22.39	1.062	23.27



1.417	29.41	1.060	23.28	1.053	22.70	1.047	22.89	1.008	22.03	1.049	23.01
1.401	29.09	1.047	22.97	1.040	22.39	1.034	22.54	0.995	21.67	1.036	22.64
1.385	28.71	1.034	22.64	1.027	22.10	1.021	22.20	0.982	21.47	1.023	22.33
1.369	28.39	1.020	22.31	1.014	21.77	1.008	21.88	0.969	21.18	1.011	22.08
1.353	28.08	1.007	22.02	1.001	21.45	0.996	21.63	0.956	20.89	0.998	21.74
1.337	27.70	0.994	21.79	0.987	21.18	0.983	21.36	0.943	20.45	0.985	21.41
1.322	27.38	0.980	21.53	0.974	20.89	0.970	21.00	0.930	20.10	0.973	21.15
1.306	27.01	0.967	21.21	0.961	20.56	0.957	20.65	0.918	19.82	0.960	20.82
1.290	26.70	0.954	20.82	0.948	20.26	0.944	20.33	0.905	19.52	0.947	20.52
1.274	26.34	0.941	20.59	0.935	19.94	0.931	20.03	0.892	19.20	0.935	20.26
1.258	25.96	0.927	20.31	0.922	19.61	0.918	19.75	0.879	18.87	0.922	19.92
1.242	25.58	0.914	19.86	0.909	19.30	0.906	19.47	0.866	18.58	0.909	19.64
1.226	25.21	0.901	19.63	0.896	19.00	0.893	19.22	0.853	18.26	0.896	19.39
1.210	24.84	0.887	19.40	0.883	18.70	0.880	18.91	0.840	18.05	0.884	19.04
1.195	24.49	0.874	19.10	0.869	18.40	0.867	18.63	0.827	17.69	0.871	18.76
1.179	24.18	0.861	18.69	0.856	18.16	0.854	18.32	0.814	17.27	0.858	18.50
1.163	23.81	0.847	18.28	0.843	17.80	0.841	17.95	0.801	17.01	0.846	18.17
1.147	23.45	0.834	17.98	0.830	17.53	0.828	17.69	0.789	16.76	0.833	17.89
1.131	23.16	0.821	17.69	0.817	17.26	0.816	17.38	0.776	16.51	0.820	17.56
1.115	22.79	0.808	17.40	0.804	16.90	0.803	17.13	0.763	16.25	0.808	17.33
1.099	22.43	0.794	17.09	0.791	16.66	0.790	16.93	0.750	15.99	0.795	16.99
1.083	22.06	0.781	16.78	0.778	16.34	0.777	16.62	0.737	15.67	0.782	16.72
1.068	21.70	0.768	16.47	0.765	16.04	0.764	16.26	0.724	15.42	0.769	16.43
1.052	21.34	0.754	16.16	0.751	15.71	0.751	15.88	0.711	15.11	0.757	16.11
1.036	21.02	0.741	15.85	0.738	15.48	0.738	15.58	0.698	14.87	0.744	15.84
1.020	20.71	0.728	15.52	0.725	15.15	0.726	15.30	0.685	14.51	0.731	15.52
1.004	20.35	0.715	15.30	0.712	14.82	0.713	15.01	0.672	14.28	0.719	15.24
0.988	20.00	0.701	15.08	0.699	14.58	0.700	14.72	0.660	13.94	0.706	14.95
0.972	19.65	0.688	14.70	0.686	14.28	0.687	14.43	0.647	13.65	0.693	14.70
0.957	19.29	0.675	14.50	0.673	13.96	0.674	14.15	0.634	13.36	0.681	14.39
0.941	18.94	0.661	14.18	0.660	13.67	0.661	13.87	0.621	13.09	0.668	14.12
0.925	18.59	0.648	13.89	0.647	13.41	0.648	13.58	0.608	12.83	0.655	13.81
0.909	18.24	0.635	13.55	0.633	13.10	0.636	13.33	0.595	12.51	0.642	13.56
0.893	17.89	0.622	13.31	0.620	12.78	0.623	13.06	0.582	12.28	0.630	13.26
0.877	17.54	0.608	12.99	0.607	12.57	0.610	12.71	0.569	11.93	0.617	12.97
0.861	17.20	0.595	12.68	0.594	12.25	0.597	12.46	0.556	11.64	0.604	12.73
0.845	16.91	0.582	12.42	0.581	11.94	0.584	12.27	0.543	11.37	0.592	12.46
0.830	16.56	0.568	12.12	0.568	11.66	0.571	11.95	0.531	11.12	0.579	12.16
0.814	16.21	0.555	11.80	0.555	11.33	0.558	11.64	0.518	10.81	0.566	11.85
0.798	15.86	0.542	11.52	0.542	11.08	0.546	11.29	0.505	10.56	0.554	11.59
0.782	15.51	0.529	11.25	0.529	10.79	0.533	11.00	0.492	10.22	0.541	11.28
0.766	15.19	0.515	10.96	0.515	10.51	0.520	10.74	0.479	9.94	0.528	11.03
0.750	14.89	0.502	10.61	0.502	10.25	0.507	10.46	0.466	9.70	0.516	10.76
0.734	14.54	0.489	10.38	0.489	9.94	0.494	10.18	0.453	9.40	0.503	10.45
0.718	14.26	0.475	10.06	0.476	9.65	0.481	9.89	0.440	9.15	0.490	10.24
0.703	13.90	0.462	9.78	0.463	9.44	0.468	9.59	0.427	8.84	0.477	9.90
0.687	13.61	0.449	9.50	0.450	9.14	0.456	9.30	0.414	8.60	0.465	9.69
0.671	13.27	0.436	9.19	0.437	8.81	0.443	9.03	0.402	8.30	0.452	9.42
0.655	12.91	0.422	8.92	0.424	8.55	0.430	8.77	0.389	8.01	0.439	9.10
0.639	12.60	0.409	8.63	0.411	8.22	0.417	8.50	0.376	7.78	0.427	8.79
0.623	12.30	0.396	8.33	0.397	8.01	0.404	8.21	0.363	7.44	0.414	8.54
0.607	11.98	0.382	8.06	0.384	7.70	0.391	8.00	0.350	7.22	0.401	8.31
0.591	11.63	0.369	7.75	0.371	7.39	0.378	7.70	0.337	6.92	0.389	8.04
0.576	11.33	0.356	7.49	0.358	7.15	0.366	7.38	0.324	6.67	0.376	7.75
0.560	11.02	0.343	7.21	0.345	6.86	0.353	7.16	0.311	6.40	0.363	7.42

0.544	10.70	0.329	6.95	0.332	6.63	0.340	6.87	0.298	6.12	0.350	7.21
0.528	10.38	0.316	6.65	0.319	6.36	0.327	6.53	0.285	5.87	0.338	6.90
0.512	10.04	0.303	6.38	0.306	6.08	0.314	6.27	0.273	5.54	0.325	6.64
0.496	9.70	0.289	6.10	0.292	5.81	0.301	6.09	0.260	5.35	0.312	6.39
0.480	9.38	0.276	5.78	0.279	5.53	0.289	5.84	0.247	5.07	0.300	6.13
0.465	9.11	0.263	5.52	0.266	5.26	0.276	5.54	0.234	4.77	0.287	5.78
0.449	8.77	0.250	5.26	0.253	4.97	0.263	5.25	0.221	4.48	0.274	5.57
0.433	8.43	0.236	4.99	0.240	4.66	0.250	4.95	0.208	4.22	0.262	5.29
0.417	8.08	0.223	4.72	0.227	4.39	0.237	4.67	0.195	3.93	0.249	5.04
0.401	7.77	0.210	4.43	0.214	4.18	0.224	4.40	0.182	3.67	0.236	4.78
0.385	7.51	0.196	4.15	0.201	3.88	0.211	4.14	0.169	3.46	0.223	4.48
0.369	7.18	0.183	3.88	0.188	3.63	0.199	3.87	0.156	3.16	0.211	4.24
0.353	6.81	0.170	3.60	0.174	3.33	0.186	3.59	0.144	2.92	0.198	4.01
0.338	6.53	0.157	3.33	0.161	3.06	0.173	3.30	0.131	2.62	0.185	3.72
0.322	6.25	0.143	3.01	0.148	2.84	0.160	3.05	0.118	2.35	0.173	3.44
0.306	5.93	0.130	2.77	0.135	2.56	0.147	2.81	0.105	2.06	0.160	3.16
0.290	5.55	0.117	2.52	0.122	2.27	0.134	2.56				
0.274	5.25	0.103	2.22	0.109	1.98	0.121	2.30				
0.258	5.03										
0.242	4.65										
0.226	4.28										
0.211	4.01										
0.195	3.72										
0.179	3.26										
0.163	2.97										
0.147	2.80										
0.131	2.38										
0.115	1.97										
0.100	1.74										

**Table S1 (continued).**  $P\rho T$  experimental data for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures.

$T = 273.15$ K											
$x = 0.8525$		$x = 0.9719$		$x = 0.9809$		$x = 0.9902$		$x = 0.9932$		$x = 0.9961$	
$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )
20.099	848.52	20.173	988.86	20.098	998.98	20.091	1007.63	20.051	1011.79	19.960	1015.63
20.082	848.44	20.153	988.75	20.077	998.98	20.071	1007.80	20.030	1011.79	19.940	1015.63
20.066	848.36	20.133	988.61	20.057	998.98	20.050	1008.12	20.010	1011.79	19.899	1015.63
20.049	848.28	20.113	988.60	20.037	998.90	20.030	1008.46	19.948	1011.72	19.878	1015.59
20.033	848.20	20.093	988.51	20.017	998.83	20.010	1008.97	19.928	1011.64	19.858	1015.55
20.016	848.12	20.073	988.37	19.997	998.82	19.989	1009.13	19.907	1011.55	19.837	1015.47
19.999	848.04	20.053	988.35	19.977	998.74	19.969	1009.30	19.887	1011.47	19.817	1015.39
19.983	847.95	20.033	988.26	19.956	998.66	19.948	1009.30	19.866	1011.31	19.796	1015.31
19.966	847.85	20.013	988.16	19.936	998.58	19.928	1009.26	19.846	1011.23	19.776	1015.23
19.950	847.76	19.993	988.12	19.916	998.50	19.907	1009.14	19.825	1011.18	19.755	1015.15
19.933	847.63	19.973	988.07	19.896	998.42	19.887	1009.08	19.805	1011.08	19.735	1015.06
19.916	847.55	19.953	987.98	19.876	998.33	19.866	1009.01	19.784	1011.03	19.714	1015.03
19.900	847.47	19.933	987.88	19.856	998.32	19.846	1008.95	19.764	1010.96	19.694	1014.98
19.883	847.38	19.913	987.80	19.835	998.26	19.825	1008.90	19.743	1010.90	19.673	1014.85
19.867	847.30	19.893	987.72	19.815	998.14	19.805	1008.80	19.723	1010.82	19.653	1014.82
19.850	847.22	19.873	987.63	19.795	998.09	19.785	1008.69	19.702	1010.74	19.632	1014.74
19.833	847.14	19.853	987.53	19.775	998.01	19.764	1008.66	19.682	1010.66	19.612	1014.66
19.817	847.06	19.833	987.47	19.755	997.93	19.744	1008.59	19.661	1010.58	19.591	1014.58
19.800	846.98	19.813	987.43	19.735	997.85	19.723	1008.51	19.641	1010.50	19.571	1014.50
19.784	846.82	19.793	987.34	19.714	997.77	19.703	1008.44	19.620	1010.41	19.550	1014.41
19.767	846.73	19.773	987.25	19.694	997.69	19.682	1008.33	19.600	1010.33	19.530	1014.34
19.750	846.65	19.753	987.16	19.674	997.60	19.662	1008.27	19.579	1010.27	19.509	1014.25
19.734	846.57	19.733	987.15	19.654	997.52	19.641	1008.21	19.559	1010.17	19.489	1014.17
19.717	846.49	19.714	987.06	19.634	997.44	19.621	1008.12	19.538	1010.13	19.468	1014.09
19.701	846.41	19.694	986.98	19.614	997.36	19.601	1008.09	19.518	1010.06	19.448	1014.01
19.684	846.33	19.674	986.87	19.593	997.28	19.580	1008.01	19.497	1009.96	19.427	1013.93
19.667	846.25	19.654	986.80	19.573	997.20	19.560	1007.94	19.477	1009.87	19.407	1013.84
19.651	846.08	19.634	986.76	19.553	997.12	19.539	1007.86	19.456	1009.85	19.386	1013.76
19.634	846.00	19.614	986.68	19.533	997.03	19.519	1007.73	19.436	1009.76	19.366	1013.69
19.618	845.92	19.594	986.51	19.513	996.95	19.498	1007.68	19.415	1009.65	19.345	1013.60
19.601	845.84	19.574	986.50	19.493	996.87	19.478	1007.60	19.395	1009.60	19.325	1013.52
19.584	845.76	19.554	986.41	19.472	996.79	19.457	1007.54	19.374	1009.54	19.304	1013.48
19.568	845.68	19.534	986.30	19.452	996.71	19.437	1007.44	19.354	1009.44	19.284	1013.37
19.551	845.60	19.514	986.25	19.432	996.63	19.416	1007.35	19.333	1009.38	19.263	1013.30
19.534	845.50	19.494	986.20	19.412	996.55	19.396	1007.30	19.313	1009.28	19.243	1013.19
19.518	845.43	19.474	986.11	19.392	996.46	19.376	1007.19	19.292	1009.17	19.222	1013.11
19.501	845.27	19.454	986.01	19.372	996.38	19.355	1007.18	19.272	1009.12	19.202	1013.03
19.485	845.19	19.434	985.92	19.351	996.30	19.335	1007.08	19.251	1009.03	19.181	1012.97
19.468	845.11	19.414	985.87	19.331	996.22	19.314	1006.95	19.231	1008.95	19.161	1012.90
19.451	845.03	19.394	985.80	19.311	996.14	19.294	1006.93	19.210	1008.87	19.140	1012.79
19.435	844.95	19.374	985.70	19.291	996.06	19.273	1006.85	19.190	1008.78	19.120	1012.70
19.418	844.86	19.354	985.60	19.271	995.98	19.253	1006.78	19.169	1008.71	19.099	1012.62
19.402	844.72	19.334	985.55	19.251	995.89	19.232	1006.70	19.149	1008.70	19.079	1012.54
19.385	844.62	19.314	985.45	19.230	995.81	19.212	1006.61	19.128	1008.59	19.058	1012.49
19.368	844.54	19.294	985.36	19.210	995.71	19.192	1006.51	19.108	1008.46	19.038	1012.42
19.352	844.46	19.275	985.30	19.190	995.64	19.171	1006.38	19.087	1008.38	19.017	1012.30
19.335	844.38	19.255	985.19	19.170	995.49	19.151	1006.33	19.067	1008.32	18.997	1012.22

19.319	844.29	19.235	985.17	19.150	995.49	19.130	1006.28	19.046	1008.22	18.976	1012.14
19.302	844.16	19.215	985.07	19.130	995.32	19.110	1006.19	19.026	1008.14	18.956	1012.05
19.285	844.05	19.195	984.97	19.109	995.25	19.089	1006.10	19.005	1008.06	18.935	1011.97
19.269	843.99	19.175	984.88	19.089	995.19	19.069	1006.03	18.985	1007.98	18.915	1011.89
19.252	843.89	19.155	984.85	19.069	995.08	19.048	1005.92	18.964	1007.96	18.894	1011.81
19.236	843.81	19.135	984.70	19.049	995.03	19.028	1005.89	18.944	1007.84	18.874	1011.74
19.219	843.72	19.115	984.66	19.029	994.92	19.007	1005.73	18.923	1007.77	18.853	1011.65
19.202	843.64	19.095	984.56	19.009	994.84	18.987	1005.72	18.903	1007.66	18.833	1011.57
19.186	843.56	19.075	984.50	18.988	994.75	18.967	1005.65	18.882	1007.57	18.812	1011.48
19.169	843.48	19.055	984.43	18.968	994.67	18.946	1005.56	18.862	1007.52	18.792	1011.40
19.153	843.32	19.035	984.33	18.948	994.59	18.926	1005.47	18.841	1007.42	18.771	1011.32
19.136	843.24	19.015	984.22	18.928	994.51	18.905	1005.38	18.821	1007.33	18.751	1011.24
19.119	843.16	18.995	984.12	18.908	994.43	18.885	1005.27	18.800	1007.24	18.730	1011.16
19.103	843.07	18.975	984.06	18.888	994.35	18.864	1005.24	18.780	1007.19	18.710	1011.08
19.086	842.99	18.955	984.00	18.867	994.27	18.844	1005.13	18.759	1007.11	18.689	1011.00
19.070	842.91	18.935	983.89	18.847	994.18	18.823	1005.08	18.739	1007.00	18.669	1010.91
19.053	842.79	18.915	983.84	18.827	994.10	18.803	1005.00	18.718	1006.92	18.648	1010.80
19.036	842.67	18.895	983.77	18.807	994.02	18.783	1004.91	18.698	1006.84	18.628	1010.75
19.020	842.59	18.875	983.67	18.787	993.94	18.762	1004.81	18.677	1006.76	18.607	1010.59
19.003	842.50	18.855	983.57	18.767	993.86	18.742	1004.74	18.657	1006.66	18.587	1010.51
18.986	842.42	18.836	983.47	18.746	993.78	18.721	1004.65	18.636	1006.59	18.566	1010.42
18.970	842.34	18.816	983.37	18.726	993.70	18.701	1004.52	18.616	1006.51	18.546	1010.34
18.953	842.20	18.796	983.33	18.706	993.62	18.680	1004.47	18.595	1006.40	18.525	1010.26
18.937	842.10	18.776	983.24	18.686	993.50	18.660	1004.39	18.575	1006.35	18.505	1010.18
18.920	842.02	18.756	983.14	18.666	993.45	18.639	1004.34	18.554	1006.27	18.484	1010.10
18.903	841.94	18.736	983.04	18.646	993.37	18.619	1004.23	18.534	1006.13	18.464	1010.02
18.887	841.85	18.716	983.00	18.625	993.29	18.599	1004.11	18.513	1006.09	18.443	1009.94
18.870	841.77	18.696	982.91	18.605	993.21	18.578	1004.02	18.493	1005.97	18.423	1009.85
18.854	841.68	18.676	982.80	18.585	993.13	18.558	1003.98	18.472	1005.94	18.402	1009.77
18.837	841.60	18.656	982.69	18.565	993.05	18.537	1003.91	18.452	1005.86	18.382	1009.69
18.820	841.45	18.636	982.63	18.545	992.97	18.517	1003.78	18.431	1005.78	18.361	1009.61
18.804	841.37	18.616	982.57	18.525	992.87	18.496	1003.76	18.411	1005.63	18.341	1009.53
18.787	841.28	18.596	982.46	18.504	992.80	18.476	1003.67	18.390	1005.57	18.320	1009.45
18.771	841.20	18.576	982.35	18.484	992.72	18.455	1003.57	18.370	1005.52	18.300	1009.37
18.754	841.11	18.556	982.33	18.464	992.64	18.435	1003.48	18.349	1005.43	18.279	1009.26
18.737	841.04	18.536	982.22	18.444	992.56	18.414	1003.38	18.329	1005.32	18.259	1009.16
18.721	840.88	18.516	982.10	18.424	992.42	18.394	1003.29	18.308	1005.25	18.238	1009.12
18.704	840.80	18.496	982.05	18.404	992.36	18.374	1003.21	18.288	1005.13	18.218	1009.04
18.688	840.72	18.476	981.99	18.383	992.27	18.353	1003.14	18.267	1005.04	18.197	1008.89
18.671	840.63	18.456	981.88	18.363	992.19	18.333	1003.03	18.247	1004.99	18.177	1008.79
18.654	840.55	18.436	981.77	18.343	992.10	18.312	1002.96	18.226	1004.88	18.156	1008.72
18.638	840.47	18.416	981.68	18.323	991.99	18.292	1002.87	18.206	1004.82	18.136	1008.63
18.621	840.31	18.397	981.63	18.303	991.98	18.271	1002.78	18.185	1004.71	18.116	1008.55
18.605	840.23	18.377	981.53	18.283	991.82	18.251	1002.72	18.165	1004.62	18.095	1008.48
18.588	840.15	18.357	981.42	18.262	991.74	18.230	1002.62	18.144	1004.56	18.075	1008.39
18.571	840.06	18.337	981.31	18.242	991.66	18.210	1002.56	18.124	1004.48	18.054	1008.31
18.555	839.98	18.317	981.29	18.222	991.58	18.190	1002.48	18.103	1004.39	18.034	1008.27
18.538	839.90	18.297	981.17	18.202	991.50	18.169	1002.37	18.083	1004.30	18.013	1008.14
18.522	839.74	18.277	981.09	18.182	991.42	18.149	1002.31	18.062	1004.22	17.993	1008.09
18.505	839.66	18.257	981.03	18.162	991.34	18.128	1002.19	18.042	1004.15	17.972	1008.03
18.488	839.58	18.237	980.92	18.142	991.26	18.108	1002.12	18.021	1004.01	17.952	1007.91
18.472	839.50	18.217	980.80	18.121	991.17	18.087	1002.04	18.001	1003.99	17.931	1007.83
18.455	839.41	18.197	980.75	18.101	991.09	18.067	1001.91	17.980	1003.86	17.911	1007.74
18.438	839.25	18.177	980.67	18.081	990.99	18.046	1001.91	17.960	1003.78	17.890	1007.69
18.422	839.17	18.157	980.55	18.061	990.90	18.026	1001.82	17.939	1003.66	17.870	1007.59

18.405	839.09	18.137	980.44	18.041	990.77	18.005	1001.73	17.919	1003.58	17.849	1007.49
18.389	839.01	18.117	980.39	18.021	990.76	17.985	1001.62	17.898	1003.54	17.829	1007.41
18.372	838.93	18.097	980.29	18.000	990.60	17.965	1001.56	17.878	1003.42	17.808	1007.34
18.355	838.76	18.077	980.18	17.980	990.52	17.944	1001.49	17.857	1003.34	17.788	1007.25
18.339	838.68	18.057	980.14	17.960	990.48	17.924	1001.33	17.837	1003.29	17.767	1007.17
18.322	838.60	18.037	980.05	17.940	990.36	17.903	1001.25	17.816	1003.17	17.747	1007.09
18.306	838.52	18.017	979.98	17.920	990.28	17.883	1001.18	17.796	1003.09	17.726	1007.01
18.289	838.44	17.997	979.88	17.900	990.20	17.862	1001.09	17.775	1003.01	17.706	1006.92
18.272	838.36	17.977	979.82	17.879	990.12	17.842	1001.04	17.755	1002.92	17.685	1006.84
18.256	838.22	17.958	979.68	17.859	990.03	17.821	1000.93	17.734	1002.85	17.665	1006.78
18.239	838.11	17.938	979.60	17.839	989.95	17.801	1000.85	17.714	1002.77	17.644	1006.68
18.223	838.03	17.918	979.45	17.819	989.87	17.781	1000.75	17.693	1002.68	17.624	1006.60
18.206	837.95	17.898	979.24	17.799	989.79	17.760	1000.67	17.673	1002.60	17.603	1006.52
18.189	837.87	17.878	979.15	17.779	989.64	17.740	1000.60	17.652	1002.50	17.583	1006.40
18.173	837.70	17.858	979.07	17.758	989.62	17.719	1000.51	17.632	1002.44	17.562	1006.27
18.156	837.62	17.838	979.01	17.738	989.47	17.699	1000.43	17.611	1002.34	17.542	1006.26
18.140	837.54	17.818	978.93	17.718	989.38	17.678	1000.36	17.591	1002.22	17.521	1006.11
18.123	837.44	17.798	978.85	17.698	989.30	17.658	1000.25	17.570	1002.17	17.501	1006.05
18.106	837.30	17.778	978.85	17.678	989.24	17.637	1000.20	17.550	1002.03	17.480	1005.98
18.090	837.22	17.758	978.68	17.658	989.14	17.617	1000.08	17.529	1001.97	17.460	1005.86
18.073	837.13	17.738	978.60	17.637	989.06	17.596	999.97	17.509	1001.87	17.439	1005.78
18.057	837.05	17.718	978.59	17.617	988.97	17.576	999.87	17.488	1001.79	17.419	1005.70
18.040	836.89	17.698	978.50	17.597	988.89	17.556	999.83	17.468	1001.71	17.398	1005.62
18.023	836.81	17.678	978.39	17.577	988.81	17.535	999.74	17.447	1001.61	17.378	1005.56
18.007	836.73	17.658	978.28	17.557	988.73	17.515	999.62	17.427	1001.54	17.357	1005.46
17.990	836.65	17.638	978.20	17.537	988.64	17.494	999.54	17.406	1001.48	17.337	1005.37
17.973	836.56	17.618	978.11	17.516	988.54	17.474	999.46	17.386	1001.38	17.316	1005.27
17.957	836.40	17.598	978.03	17.496	988.46	17.453	999.38	17.365	1001.27	17.296	1005.21
17.940	836.32	17.578	977.94	17.476	988.32	17.433	999.30	17.345	1001.18	17.275	1005.09
17.924	836.24	17.558	977.87	17.456	988.25	17.412	999.22	17.325	1001.13	17.255	1005.00
17.907	836.16	17.538	977.79	17.436	988.16	17.392	999.14	17.304	1001.02	17.234	1004.89
17.890	836.08	17.519	977.69	17.416	988.08	17.372	999.01	17.284	1000.97	17.214	1004.83
17.874	835.91	17.499	977.60	17.395	988.00	17.351	998.95	17.263	1000.85	17.193	1004.72
17.857	835.83	17.479	977.46	17.375	987.91	17.331	998.88	17.243	1000.73	17.173	1004.67
17.841	835.75	17.459	977.42	17.355	987.83	17.310	998.73	17.222	1000.70	17.152	1004.58
17.824	835.67	17.439	977.35	17.335	987.75	17.290	998.67	17.202	1000.57	17.132	1004.48
17.807	835.51	17.419	977.28	17.315	987.64	17.269	998.57	17.181	1000.50	17.111	1004.40
17.791	835.42	17.399	977.18	17.295	987.56	17.249	998.48	17.161	1000.40	17.091	1004.32
17.774	835.34	17.379	977.05	17.274	987.47	17.228	998.41	17.140	1000.28	17.070	1004.24
17.758	835.26	17.359	977.00	17.254	987.34	17.208	998.32	17.120	1000.22	17.050	1004.09
17.741	835.16	17.339	976.92	17.234	987.26	17.187	998.22	17.099	1000.16	17.029	1004.07
17.724	835.02	17.319	976.85	17.214	987.18	17.167	998.16	17.079	999.99	17.009	1003.99
17.708	834.94	17.299	976.74	17.194	987.10	17.147	998.08	17.058	999.97	16.988	1003.88
17.691	834.86	17.279	976.65	17.174	987.02	17.126	998.00	17.038	999.84	16.968	1003.78
17.675	834.77	17.259	976.57	17.153	986.94	17.106	997.88	17.017	999.75	16.947	1003.69
17.658	834.72	17.239	976.50	17.133	986.86	17.085	997.80	16.997	999.67	16.927	1003.58
17.641	834.67	17.219	976.37	17.113	986.77	17.065	997.67	16.976	999.63	16.906	1003.50
17.625	834.60	17.199	976.29	17.093	986.64	17.044	997.64	16.956	999.50	16.886	1003.42
17.608	834.47	17.179	976.18	17.073	986.53	17.024	997.52	16.935	999.43	16.865	1003.36
17.592	834.40	17.159	976.08	17.053	986.49	17.003	997.43	16.915	999.34	16.845	1003.26
17.575	834.30	17.139	976.00	17.032	986.37	16.983	997.34	16.894	999.26	16.824	1003.18
17.558	834.19	17.119	975.91	17.012	986.29	16.963	997.26	16.874	999.15	16.804	1003.10
17.542	834.13	17.099	975.83	16.992	986.20	16.942	997.18	16.853	999.09	16.783	1003.01
17.525	834.00	17.080	975.76	16.972	986.12	16.922	997.10	16.833	999.00	16.763	1002.93
17.509	833.92	17.060	975.64	16.952	986.04	16.901	996.97	16.812	998.90	16.742	1002.85

17.492	833.82	17.040	975.56	16.932	985.96	16.881	996.94	16.792	998.83	16.722	1002.76
17.475	833.70	17.020	975.42	16.911	985.88	16.860	996.86	16.771	998.69	16.701	1002.63
17.459	833.63	17.000	975.35	16.891	985.80	16.840	996.74	16.751	998.61	16.681	1002.55
17.442	833.57	16.980	975.26	16.871	985.72	16.819	996.66	16.730	998.53	16.660	1002.46
17.425	833.44	16.960	975.16	16.851	985.58	16.799	996.53	16.710	998.45	16.640	1002.36
17.409	833.34	16.940	975.05	16.831	985.47	16.779	996.50	16.689	998.37	16.619	1002.28
17.392	833.27	16.920	975.01	16.811	985.39	16.758	996.37	16.669	998.29	16.599	1002.20
17.376	833.17	16.900	974.92	16.790	985.31	16.738	996.28	16.648	998.20	16.578	1002.12
17.359	833.05	16.880	974.83	16.770	985.23	16.717	996.20	16.628	998.11	16.558	1002.04
17.342	832.97	16.860	974.67	16.750	985.14	16.697	996.12	16.607	997.98	16.537	1001.95
17.326	832.83	16.840	974.60	16.730	985.06	16.676	996.04	16.587	997.88	16.517	1001.85
17.309	832.75	16.820	974.50	16.710	984.98	16.656	995.96	16.566	997.84	16.496	1001.79
17.293	832.66	16.800	974.40	16.690	984.84	16.635	995.79	16.546	997.71	16.476	1001.64
17.276	832.56	16.780	974.31	16.669	984.80	16.615	995.78	16.525	997.63	16.455	1001.61
17.259	832.44	16.760	974.22	16.649	984.69	16.594	995.68	16.505	997.55	16.435	1001.49
17.243	832.31	16.740	974.17	16.629	984.63	16.574	995.56	16.484	997.47	16.414	1001.44
17.226	832.24	16.720	974.04	16.609	984.49	16.554	995.47	16.464	997.39	16.394	1001.30
17.210	832.16	16.700	973.96	16.589	984.41	16.533	995.39	16.443	997.28	16.373	1001.22
17.193	832.01	16.680	973.88	16.569	984.33	16.513	995.31	16.423	997.20	16.353	1001.14
17.176	831.94	16.660	973.78	16.548	984.25	16.492	995.19	16.402	997.12	16.332	1001.06
17.160	831.86	16.640	973.68	16.528	984.13	16.472	995.14	16.382	997.02	16.312	1000.98
17.143	831.78	16.621	973.53	16.508	984.01	16.451	994.99	16.361	996.95	16.291	1000.89
17.127	831.65	16.601	973.47	16.488	983.92	16.431	994.98	16.341	996.87	16.271	1000.81
17.110	831.55	16.581	973.39	16.468	983.84	16.410	994.85	16.320	996.78	16.251	1000.73
17.093	831.47	16.561	973.25	16.448	983.76	16.390	994.76	16.300	996.68	16.230	1000.65
17.077	831.39	16.541	973.15	16.427	983.68	16.370	994.67	16.279	996.58	16.210	1000.50
17.060	831.27	16.521	973.06	16.407	983.60	16.349	994.58	16.259	996.50	16.189	1000.41
17.044	831.15	16.501	972.98	16.387	983.49	16.329	994.48	16.238	996.42	16.169	1000.33
17.027	831.07	16.481	972.88	16.367	983.35	16.308	994.41	16.218	996.33	16.148	1000.24
17.010	830.96	16.461	972.78	16.347	983.27	16.288	994.30	16.197	996.25	16.128	1000.19
16.994	830.83	16.441	972.67	16.327	983.19	16.267	994.20	16.177	996.13	16.107	1000.08
16.977	830.75	16.421	972.58	16.306	983.11	16.247	994.12	16.156	996.05	16.087	1000.00
16.961	830.67	16.401	972.53	16.286	983.02	16.226	994.01	16.136	996.00	16.066	999.92
16.944	830.55	16.381	972.45	16.266	982.92	16.206	993.92	16.115	995.86	16.046	999.84
16.927	830.43	16.361	972.32	16.246	982.80	16.185	993.84	16.095	995.84	16.025	999.76
16.911	830.34	16.341	972.24	16.226	982.70	16.165	993.76	16.074	995.77	16.005	999.63
16.894	830.25	16.321	972.11	16.206	982.62	16.145	993.68	16.054	995.65	15.984	999.54
16.877	830.13	16.301	972.01	16.185	982.53	16.124	993.56	16.033	995.57	15.964	999.45
16.861	830.02	16.281	971.96	16.165	982.45	16.104	993.47	16.013	995.49	15.943	999.35
16.844	829.93	16.261	971.83	16.145	982.37	16.083	993.38	15.992	995.36	15.923	999.27
16.828	829.81	16.241	971.75	16.125	982.28	16.063	993.27	15.972	995.28	15.902	999.19
16.811	829.68	16.221	971.63	16.105	982.15	16.042	993.21	15.951	995.15	15.882	999.10
16.794	829.60	16.201	971.53	16.085	982.05	16.022	993.12	15.931	995.07	15.861	999.02
16.778	829.51	16.182	971.51	16.064	981.96	16.001	993.02	15.910	994.98	15.841	998.94
16.761	829.43	16.162	971.35	16.044	981.88	15.981	992.94	15.890	994.89	15.820	998.82
16.745	829.28	16.142	971.29	16.024	981.80	15.961	992.82	15.869	994.81	15.800	998.78
16.728	829.17	16.122	971.20	16.004	981.71	15.940	992.75	15.849	994.70	15.779	998.62
16.711	829.09	16.102	971.10	15.984	981.64	15.920	992.62	15.828	994.62	15.759	998.53
16.695	829.00	16.082	971.00	15.964	981.48	15.899	992.53	15.808	994.56	15.738	998.45
16.678	828.83	16.062	970.90	15.943	981.40	15.879	992.45	15.787	994.48	15.718	998.37
16.662	828.74	16.042	970.83	15.923	981.31	15.858	992.37	15.767	994.39	15.697	998.29
16.645	828.65	16.022	970.69	15.903	981.23	15.838	992.29	15.746	994.29	15.677	998.21
16.628	828.56	16.002	970.62	15.883	981.15	15.817	992.18	15.726	994.21	15.656	998.13
16.612	828.47	15.982	970.48	15.863	981.07	15.797	992.04	15.705	994.05	15.636	998.04
16.595	828.34	15.962	970.38	15.843	980.98	15.776	992.04	15.685	994.04	15.615	997.96

16.579	828.21	15.942	970.29	15.822	980.85	15.756	991.93	15.664	993.88	15.595	997.80
16.562	828.12	15.922	970.26	15.802	980.77	15.736	991.82	15.644	993.82	15.574	997.72
16.545	828.00	15.902	970.14	15.782	980.66	15.715	991.72	15.623	993.72	15.554	997.64
16.529	827.87	15.882	970.03	15.762	980.58	15.695	991.64	15.603	993.64	15.533	997.55
16.512	827.78	15.862	969.94	15.742	980.48	15.674	991.56	15.582	993.54	15.513	997.47
16.496	827.68	15.842	969.86	15.722	980.39	15.654	991.47	15.562	993.43	15.492	997.39
16.479	827.59	15.822	969.76	15.701	980.29	15.633	991.36	15.541	993.31	15.472	997.27
16.462	827.50	15.802	969.67	15.681	980.17	15.613	991.23	15.521	993.23	15.451	997.17
16.446	827.36	15.782	969.57	15.661	980.09	15.592	991.15	15.500	993.15	15.431	997.06
16.429	827.22	15.762	969.47	15.641	980.01	15.572	991.07	15.480	993.07	15.410	997.00
16.413	827.13	15.743	969.37	15.621	979.93	15.552	990.99	15.459	992.99	15.390	996.91
16.396	827.04	15.723	969.30	15.601	979.85	15.531	990.90	15.439	992.89	15.369	996.82
16.379	826.94	15.703	969.20	15.580	979.74	15.511	990.79	15.418	992.81	15.349	996.74
16.363	826.81	15.683	969.10	15.560	979.68	15.490	990.71	15.398	992.67	15.328	996.62
16.346	826.67	15.663	968.99	15.540	979.52	15.470	990.58	15.377	992.58	15.308	996.49
16.329	826.57	15.643	968.93	15.520	979.44	15.449	990.50	15.357	992.50	15.287	996.41
16.313	826.47	15.623	968.78	15.500	979.36	15.429	990.41	15.336	992.45	15.267	996.33
16.296	826.38	15.603	968.68	15.480	979.27	15.408	990.30	15.316	992.34	15.246	996.25
16.280	826.27	15.583	968.58	15.459	979.19	15.388	990.20	15.295	992.24	15.226	996.17
16.263	826.11	15.563	968.50	15.439	979.10	15.368	990.15	15.275	992.15	15.205	996.09
16.246	825.99	15.543	968.41	15.419	979.02	15.347	990.07	15.254	992.03	15.185	995.93
16.230	825.89	15.523	968.34	15.399	978.92	15.327	989.92	15.234	991.93	15.164	995.84
16.213	825.79	15.503	968.23	15.379	978.79	15.306	989.84	15.213	991.83	15.144	995.76
16.197	825.69	15.483	968.17	15.359	978.69	15.286	989.76	15.193	991.77	15.123	995.68
16.180	825.59	15.463	968.03	15.338	978.62	15.265	989.65	15.172	991.64	15.103	995.60
16.163	825.48	15.443	968.00	15.318	978.54	15.245	989.58	15.152	991.52	15.082	995.52
16.147	825.38	15.423	967.91	15.298	978.40	15.224	989.44	15.131	991.48	15.062	995.38
16.130	825.28	15.403	967.77	15.278	978.30	15.204	989.35	15.111	991.38	15.041	995.32
16.114	825.15	15.383	967.70	15.258	978.22	15.183	989.27	15.090	991.29	15.021	995.19
16.097	825.01	15.363	967.59	15.238	978.13	15.163	989.19	15.070	991.18	15.000	995.11
16.080	824.91	15.343	967.52	15.217	978.05	15.143	989.05	15.049	991.05	14.980	995.03
16.064	824.81	15.323	967.40	15.197	977.96	15.122	988.95	15.029	990.99	14.959	994.88
16.047	824.71	15.304	967.35	15.177	977.84	15.102	988.86	15.008	990.89	14.939	994.79
16.031	824.53	15.284	967.28	15.157	977.72	15.081	988.78	14.988	990.80	14.918	994.70
16.014	824.42	15.264	967.13	15.137	977.64	15.061	988.70	14.967	990.69	14.898	994.62
15.997	824.31	15.244	967.06	15.117	977.56	15.040	988.62	14.947	990.56	14.877	994.54
15.981	824.21	15.224	966.95	15.096	977.46	15.020	988.49	14.926	990.47	14.857	994.46
15.964	824.10	15.204	966.88	15.076	977.33	14.999	988.37	14.906	990.41	14.836	994.37
15.948	824.00	15.184	966.76	15.056	977.26	14.979	988.29	14.885	990.30	14.816	994.27
15.931	823.89	15.164	966.67	15.036	977.15	14.959	988.21	14.865	990.21	14.795	994.15
15.914	823.78	15.144	966.57	15.016	977.07	14.938	988.11	14.844	990.12	14.775	994.05
15.898	823.67	15.124	966.46	14.996	976.99	14.918	987.99	14.824	990.01	14.754	993.98
15.881	823.55	15.104	966.34	14.975	976.83	14.897	987.89	14.803	989.91	14.734	993.88
15.865	823.44	15.084	966.30	14.955	976.75	14.877	987.80	14.783	989.82	14.713	993.79
15.848	823.33	15.064	966.17	14.935	976.66	14.856	987.72	14.762	989.71	14.693	993.70
15.831	823.21	15.044	966.05	14.915	976.58	14.836	987.64	14.742	989.61	14.672	993.56
15.815	823.11	15.024	965.97	14.895	976.49	14.815	987.53	14.721	989.54	14.652	993.50
15.798	822.95	15.004	965.89	14.875	976.42	14.795	987.40	14.701	989.42	14.631	993.39
15.781	822.80	14.984	965.82	14.854	976.29	14.774	987.31	14.680	989.32	14.611	993.31
15.765	822.68	14.964	965.74	14.834	976.17	14.754	987.23	14.660	989.28	14.590	993.22
15.748	822.56	14.944	965.61	14.814	976.09	14.734	987.13	14.639	989.20	14.570	993.14
15.732	822.52	14.924	965.48	14.794	976.01	14.713	987.05	14.619	989.09	14.549	993.01
15.715	822.32	14.904	965.39	14.774	975.91	14.693	986.98	14.598	988.99	14.529	992.91
15.698	822.28	14.884	965.31	14.754	975.85	14.672	986.82	14.578	988.89	14.508	992.81
15.682	822.16	14.865	965.24	14.733	975.75	14.652	986.74	14.557	988.75	14.488	992.74

15.665	822.04	14.845	965.09	14.713	975.60	14.631	986.66	14.537	988.66	14.467	992.66
15.649	821.92	14.825	965.02	14.693	975.51	14.611	986.58	14.516	988.58	14.447	992.54
15.632	821.79	14.805	964.93	14.673	975.40	14.590	986.45	14.496	988.50	14.426	992.42
15.615	821.67	14.785	964.85	14.653	975.34	14.570	986.36	14.475	988.41	14.406	992.33
15.599	821.54	14.765	964.71	14.633	975.24	14.550	986.25	14.455	988.31	14.386	992.25
15.582	821.42	14.745	964.64	14.612	975.14	14.529	986.17	14.434	988.17	14.365	992.17
15.566	821.30	14.725	964.56	14.592	975.03	14.509	986.09	14.414	988.09	14.345	992.05
15.549	821.17	14.705	964.42	14.572	974.95	14.488	986.01	14.393	987.98	14.324	991.96
15.532	821.05	14.685	964.34	14.552	974.87	14.468	985.85	14.373	987.88	14.304	991.84
15.516	820.92	14.665	964.25	14.532	974.76	14.447	985.76	14.352	987.77	14.283	991.76
15.499	820.80	14.645	964.09	14.512	974.69	14.427	985.68	14.332	987.71	14.263	991.61
15.483	820.68	14.625	964.05	14.491	974.54	14.406	985.60	14.311	987.59	14.242	991.53
15.466	820.56	14.605	963.93	14.471	974.51	14.386	985.44	14.291	987.51	14.222	991.44
15.449	820.48	14.585	963.85	14.451	974.41	14.365	985.36	14.270	987.37	14.201	991.36
15.433	820.35	14.565	963.78	14.431	974.30	14.345	985.27	14.250	987.28	14.181	991.27
15.416	820.21	14.545	963.65	14.411	974.16	14.325	985.19	14.229	987.19	14.160	991.16
15.400	820.08	14.525	963.53	14.391	974.08	14.304	985.10	14.209	987.07	14.140	991.11
15.383	819.95	14.505	963.45	14.370	973.97	14.284	984.95	14.188	987.03	14.119	990.95
15.366	819.88	14.485	963.32	14.350	973.89	14.263	984.87	14.168	986.87	14.099	990.86
15.350	819.74	14.465	963.24	14.330	973.76	14.243	984.83	14.147	986.80	14.078	990.78
15.333	819.59	14.445	963.12	14.310	973.69	14.222	984.70	14.127	986.71	14.058	990.70
15.316	819.46	14.426	963.03	14.290	973.56	14.202	984.62	14.106	986.65	14.037	990.58
15.300	819.39	14.406	962.95	14.270	973.52	14.181	984.50	14.086	986.55	14.017	990.46
15.283	819.25	14.386	962.86	14.249	973.37	14.161	984.38	14.065	986.38	13.996	990.37
15.267	819.10	14.366	962.70	14.229	973.27	14.141	984.30	14.045	986.30	13.976	990.29
15.250	818.97	14.346	962.62	14.209	973.18	14.120	984.21	14.024	986.18	13.955	990.21
15.233	818.90	14.326	962.51	14.189	973.09	14.100	984.13	14.004	986.13	13.935	990.05
15.217	818.76	14.306	962.43	14.169	972.95	14.079	984.02	13.983	986.00	13.914	989.99
15.200	818.62	14.286	962.30	14.149	972.87	14.059	983.89	13.963	985.92	13.894	989.89
15.184	818.55	14.266	962.22	14.128	972.77	14.038	983.81	13.942	985.81	13.873	989.80
15.167	818.40	14.246	962.10	14.108	972.67	14.018	983.72	13.922	985.74	13.853	989.72
15.150	818.25	14.226	961.98	14.088	972.55	13.997	983.64	13.901	985.61	13.832	989.61
15.134	818.16	14.206	961.90	14.068	972.47	13.977	983.48	13.881	985.49	13.812	989.51
15.117	818.03	14.186	961.81	14.048	972.34	13.957	983.40	13.860	985.40	13.791	989.40
15.101	817.91	14.166	961.73	14.028	972.26	13.936	983.32	13.840	985.27	13.771	989.34
15.084	817.79	14.146	961.62	14.007	972.17	13.916	983.24	13.819	985.17	13.750	989.23
15.067	817.64	14.126	961.48	13.987	972.07	13.895	983.11	13.799	985.09	13.730	989.15
15.051	817.56	14.106	961.42	13.967	971.95	13.875	983.04	13.778	984.99	13.709	989.00
15.034	817.40	14.086	961.33	13.947	971.85	13.854	982.92	13.758	984.89	13.689	988.91
15.018	817.26	14.066	961.16	13.927	971.77	13.834	982.83	13.737	984.78	13.668	988.82
15.001	817.16	14.046	961.06	13.907	971.62	13.813	982.71	13.717	984.69	13.648	988.74
14.984	817.01	14.026	960.98	13.886	971.52	13.793	982.61	13.696	984.57	13.627	988.60
14.968	816.92	14.006	960.89	13.866	971.44	13.772	982.50	13.676	984.50	13.607	988.55
14.951	816.77	13.987	960.78	13.846	971.32	13.752	982.39	13.655	984.41	13.586	988.42
14.935	816.69	13.967	960.63	13.826	971.27	13.732	982.29	13.635	984.26	13.566	988.33
14.918	816.53	13.947	960.54	13.806	971.11	13.711	982.17	13.614	984.17	13.545	988.25
14.901	816.44	13.927	960.42	13.786	971.01	13.691	982.09	13.594	984.09	13.525	988.09
14.885	816.28	13.907	960.34	13.765	970.94	13.670	982.01	13.573	983.99	13.504	988.01
14.868	816.20	13.887	960.26	13.745	970.79	13.650	981.85	13.553	983.90	13.484	987.93
14.852	816.03	13.867	960.09	13.725	970.73	13.629	981.76	13.532	983.82	13.463	987.77
14.835	815.94	13.847	960.04	13.705	970.57	13.609	981.68	13.512	983.69	13.443	987.68
14.818	815.79	13.827	959.95	13.685	970.51	13.588	981.60	13.491	983.60	13.422	987.60
14.802	815.67	13.807	959.78	13.665	970.38	13.568	981.48	13.471	983.45	13.402	987.49
14.785	815.55	13.787	959.68	13.644	970.30	13.548	981.43	13.450	983.36	13.381	987.42
14.768	815.42	13.767	959.60	13.624	970.20	13.527	981.27	13.430	983.27	13.361	987.27



14.752	815.30	13.747	959.44	13.604	970.04	13.507	981.19	13.409	983.19	13.340	987.19
14.735	815.14	13.727	959.38	13.584	969.97	13.486	981.07	13.389	983.06	13.320	987.11
14.719	815.04	13.707	959.29	13.564	969.82	13.466	980.98	13.368	983.00	13.299	986.95
14.702	814.89	13.687	959.18	13.544	969.78	13.445	980.87	13.348	982.85	13.279	986.86
14.685	814.81	13.667	959.03	13.523	969.64	13.425	980.78	13.327	982.79	13.258	986.78
14.669	814.65	13.647	958.96	13.503	969.56	13.404	980.63	13.307	982.66	13.238	986.70
14.652	814.54	13.627	958.86	13.483	969.40	13.384	980.54	13.286	982.54	13.217	986.54
14.636	814.44	13.607	958.76	13.463	969.34	13.363	980.46	13.266	982.45	13.197	986.46
14.619	814.25	13.587	958.66	13.443	969.20	13.343	980.34	13.245	982.38	13.176	986.35
14.602	814.15	13.567	958.50	13.423	969.14	13.323	980.28	13.225	982.24	13.156	986.21
14.586	814.05	13.548	958.39	13.403	969.01	13.302	980.13	13.204	982.13	13.135	986.13
14.569	813.92	13.528	958.29	13.382	968.91	13.282	980.05	13.184	982.05	13.115	986.05
14.553	813.75	13.508	958.22	13.362	968.77	13.261	979.89	13.163	981.96	13.094	985.97
14.536	813.63	13.488	958.12	13.342	968.71	13.241	979.80	13.143	981.87	13.074	985.82
14.519	813.50	13.468	957.97	13.322	968.58	13.220	979.72	13.122	981.75	13.053	985.72
14.503	813.38	13.448	957.89	13.302	968.48	13.200	979.62	13.102	981.62	13.033	985.64
14.486	813.26	13.428	957.75	13.282	968.35	13.179	979.51	13.081	981.49	13.012	985.56
14.470	813.15	13.408	957.69	13.261	968.26	13.159	979.40	13.061	981.40	12.992	985.39
14.453	813.02	13.388	957.56	13.241	968.17	13.139	979.31	13.040	981.35	12.971	985.31
14.436	812.85	13.368	957.48	13.221	968.04	13.118	979.20	13.020	981.21	12.951	985.23
14.420	812.77	13.348	957.37	13.201	967.93	13.098	979.07	12.999	981.11	12.930	985.15
14.403	812.61	13.328	957.26	13.181	967.85	13.077	978.99	12.979	980.99	12.910	985.05
14.387	812.50	13.308	957.08	13.161	967.77	13.057	978.82	12.958	980.91	12.889	984.90
14.370	812.36	13.288	956.99	13.140	967.60	13.036	978.74	12.938	980.80	12.869	984.81
14.353	812.24	13.268	956.91	13.120	967.52	13.016	978.66	12.917	980.67	12.848	984.71
14.337	812.11	13.248	956.75	13.100	967.42	12.995	978.58	12.897	980.57	12.828	984.65
14.320	811.99	13.228	956.70	13.080	967.33	12.975	978.45	12.876	980.50	12.807	984.50
14.304	811.85	13.208	956.58	13.060	967.19	12.954	978.33	12.856	980.39	12.787	984.48
14.287	811.71	13.188	956.47	13.040	967.11	12.934	978.25	12.835	980.25	12.766	984.37
14.270	811.62	13.168	956.31	13.019	966.95	12.914	978.13	12.815	980.15	12.746	984.23
14.254	811.47	13.148	956.22	12.999	966.87	12.893	978.01	12.794	980.02	12.725	984.13
14.237	811.35	13.128	956.16	12.979	966.79	12.873	977.93	12.774	979.93	12.705	984.06
14.220	811.22	13.108	956.07	12.959	966.64	12.852	977.84	12.754	979.85	12.684	983.92
14.204	811.08	13.089	955.89	12.939	966.54	12.832	977.71	12.733	979.77	12.664	983.87
14.187	810.98	13.069	955.81	12.919	966.46	12.811	977.60	12.713	979.64	12.643	983.77
14.171	810.81	13.049	955.71	12.898	966.38	12.791	977.52	12.692	979.52	12.623	983.64
14.154	810.65	13.029	955.58	12.878	966.21	12.770	977.35	12.672	979.44	12.602	983.52
14.137	810.50	13.009	955.52	12.858	966.13	12.750	977.27	12.651	979.28	12.582	983.45
14.121	810.41	12.989	955.41	12.838	966.05	12.730	977.19	12.631	979.19	12.561	983.35
14.104	810.29	12.969	955.27	12.818	965.90	12.709	977.06	12.610	979.11	12.541	983.27
14.088	810.16	12.949	955.17	12.798	965.82	12.689	976.97	12.590	979.01	12.521	983.13
14.071	810.00	12.929	955.07	12.777	965.67	12.668	976.86	12.569	978.90	12.500	983.03
14.054	809.92	12.909	954.97	12.757	965.56	12.648	976.78	12.549	978.79	12.480	982.95
14.038	809.75	12.889	954.85	12.737	965.48	12.627	976.62	12.528	978.70	12.459	982.80
14.021	809.60	12.869	954.74	12.717	965.36	12.607	976.54	12.508	978.56	12.439	982.76
14.005	809.51	12.849	954.63	12.697	965.26	12.586	976.45	12.487	978.46	12.418	982.62
13.988	809.35	12.829	954.49	12.677	965.15	12.566	976.29	12.467	978.38	12.398	982.54
13.971	809.27	12.809	954.40	12.656	965.07	12.546	976.21	12.446	978.25	12.377	982.43
13.955	809.10	12.789	954.32	12.636	964.91	12.525	976.13	12.426	978.14	12.357	982.30
13.938	808.99	12.769	954.21	12.616	964.82	12.505	975.97	12.405	978.05	12.336	982.21
13.922	808.81	12.749	954.07	12.596	964.74	12.484	975.88	12.385	977.95	12.316	982.13
13.905	808.69	12.729	953.90	12.576	964.58	12.464	975.79	12.364	977.88	12.295	981.98
13.888	808.60	12.709	953.88	12.556	964.50	12.443	975.66	12.344	977.72	12.275	981.94
13.872	808.53	12.689	953.73	12.535	964.39	12.423	975.55	12.323	977.64	12.254	981.80
13.855	808.47	12.669	953.60	12.515	964.25	12.402	975.47	12.303	977.50	12.234	981.69

13.839	808.41	12.650	953.46	12.495	964.14	12.382	975.36	12.282	977.40	12.213	981.58
13.822	808.35	12.630	953.39	12.475	964.03	12.361	975.23	12.262	977.31	12.193	981.47
13.805	808.28	12.610	953.31	12.455	963.92	12.341	975.15	12.241	977.23	12.172	981.34
13.789	808.18	12.590	953.20	12.435	963.84	12.321	975.07	12.221	977.07	12.152	981.30
13.772	808.09	12.570	953.07	12.414	963.70	12.300	974.90	12.200	976.99	12.131	981.16
13.756	807.99	12.550	952.98	12.394	963.60	12.280	974.82	12.180	976.83	12.111	981.04
13.739	807.72	12.530	952.84	12.374	963.47	12.259	974.74	12.159	976.74	12.090	980.96
13.722	807.39	12.510	952.74	12.354	963.35	12.239	974.60	12.139	976.63	12.070	980.84
13.706	807.23	12.490	952.64	12.334	963.26	12.218	974.49	12.118	976.54	12.049	980.73
13.689	807.10	12.470	952.49	12.314	963.14	12.198	974.41	12.098	976.41	12.029	980.62
13.672	806.96	12.450	952.41	12.293	963.03	12.177	974.25	12.077	976.33	12.008	980.49
13.656	806.81	12.430	952.29	12.273	962.94	12.157	974.17	12.057	976.17	11.988	980.41
13.639	806.66	12.410	952.11	12.253	962.82	12.137	974.09	12.036	976.09	11.967	980.27
13.623	806.57	12.390	952.06	12.233	962.72	12.116	973.92	12.016	976.01	11.947	980.20
13.606	806.45	12.370	951.96	12.213	962.62	12.096	973.84	11.995	975.90	11.926	980.09
13.589	806.29	12.350	951.83	12.193	962.46	12.075	973.74	11.975	975.76	11.906	980.00
13.573	806.14	12.330	951.74	12.172	962.37	12.055	973.63	11.954	975.69	11.885	979.84
13.556	806.00	12.310	951.57	12.152	962.22	12.034	973.51	11.934	975.54	11.865	979.76
13.540	805.84	12.290	951.49	12.132	962.16	12.014	973.38	11.913	975.43	11.844	979.68
13.523	805.75	12.270	951.36	12.112	962.05	11.993	973.27	11.893	975.35	11.824	979.52
13.506	805.59	12.250	951.27	12.092	961.91	11.973	973.19	11.872	975.27	11.803	979.43
13.490	805.50	12.230	951.18	12.072	961.82	11.952	973.02	11.852	975.12	11.783	979.31
13.473	805.32	12.211	951.06	12.051	961.72	11.932	972.94	11.831	975.03	11.762	979.19
13.457	805.19	12.191	950.94	12.031	961.61	11.912	972.86	11.811	974.87	11.742	979.14
13.440	805.05	12.171	950.86	12.011	961.47	11.891	972.69	11.790	974.79	11.721	979.01
13.423	804.94	12.151	950.75	11.991	961.39	11.871	972.61	11.770	974.70	11.701	978.86
13.407	804.76	12.131	950.58	11.971	961.28	11.850	972.53	11.749	974.54	11.680	978.78
13.390	804.66	12.111	950.49	11.951	961.15	11.830	972.40	11.729	974.45	11.660	978.70
13.374	804.48	12.091	950.37	11.930	960.98	11.809	972.29	11.708	974.35	11.639	978.54
13.357	804.37	12.071	950.29	11.910	960.90	11.789	972.13	11.688	974.23	11.619	978.45
13.340	804.19	12.051	950.12	11.890	960.82	11.768	972.04	11.667	974.13	11.598	978.35
13.324	804.08	12.031	950.02	11.870	960.69	11.748	971.96	11.647	974.02	11.578	978.21
13.307	803.89	12.011	949.96	11.850	960.57	11.728	971.80	11.626	973.88	11.557	978.12
13.291	803.78	11.991	949.80	11.830	960.49	11.707	971.71	11.606	973.78	11.537	977.97
13.274	803.66	11.971	949.67	11.809	960.34	11.687	971.63	11.585	973.69	11.516	977.89
13.257	803.54	11.951	949.55	11.789	960.25	11.666	971.47	11.565	973.55	11.496	977.76
13.241	803.35	11.931	949.49	11.769	960.15	11.646	971.39	11.544	973.44	11.475	977.65
13.224	803.23	11.911	949.39	11.749	960.00	11.625	971.25	11.524	973.37	11.455	977.55
13.208	803.06	11.891	949.21	11.729	959.89	11.605	971.14	11.503	973.24	11.434	977.43
13.191	802.93	11.871	949.14	11.709	959.79	11.584	971.06	11.483	973.15	11.414	977.31
13.174	802.81	11.851	949.01	11.688	959.67	11.564	970.91	11.462	972.98	11.393	977.22
13.158	802.66	11.831	948.91	11.668	959.56	11.543	970.82	11.442	972.90	11.373	977.07
13.141	802.49	11.811	948.78	11.648	959.43	11.523	970.73	11.421	972.74	11.352	977.02
13.124	802.34	11.791	948.65	11.628	959.30	11.503	970.57	11.401	972.65	11.332	976.90
13.108	802.20	11.772	948.51	11.608	959.26	11.482	970.49	11.380	972.57	11.311	976.76
13.091	802.07	11.752	948.40	11.588	959.10	11.462	970.32	11.360	972.44	11.291	976.65
13.075	801.94	11.732	948.28	11.567	958.99	11.441	970.24	11.339	972.34	11.270	976.56
13.058	801.78	11.712	948.16	11.547	958.86	11.421	970.16	11.319	972.23	11.250	976.45
13.041	801.60	11.692	948.06	11.527	958.78	11.400	970.00	11.298	972.08	11.229	976.32
13.025	801.48	11.672	947.93	11.507	958.61	11.380	969.92	11.278	972.00	11.209	976.21
13.008	801.34	11.652	947.81	11.487	958.53	11.359	969.78	11.257	971.87	11.188	976.09
12.992	801.20	11.632	947.70	11.467	958.37	11.339	969.67	11.237	971.75	11.168	976.00
12.975	801.06	11.612	947.60	11.446	958.28	11.319	969.59	11.216	971.63	11.147	975.84
12.958	800.91	11.592	947.45	11.426	958.16	11.298	969.50	11.196	971.52	11.127	975.75
12.942	800.77	11.572	947.33	11.406	958.04	11.278	969.34	11.175	971.43	11.106	975.64

12.925	800.63	11.552	947.25	11.386	957.96	11.257	969.21	11.155	971.32	11.086	975.51
12.909	800.49	11.532	947.10	11.366	957.79	11.237	969.10	11.134	971.18	11.065	975.43
12.892	800.34	11.512	946.97	11.346	957.74	11.216	969.02	11.114	971.07	11.045	975.32
12.875	800.20	11.492	946.88	11.325	957.63	11.196	968.85	11.093	970.94	11.024	975.18
12.859	800.05	11.472	946.76	11.305	957.47	11.175	968.77	11.073	970.86	11.004	975.10
12.842	799.89	11.452	946.61	11.285	957.39	11.155	968.62	11.052	970.71	10.983	974.93
12.826	799.72	11.432	946.53	11.265	957.22	11.135	968.53	11.032	970.61	10.963	974.84
12.809	799.63	11.412	946.41	11.245	957.14	11.114	968.39	11.011	970.48	10.942	974.70
12.792	799.49	11.392	946.28	11.225	957.01	11.094	968.28	10.991	970.36	10.922	974.61
12.776	799.32	11.372	946.15	11.204	956.89	11.073	968.19	10.970	970.28	10.901	974.53
12.759	799.15	11.352	945.97	11.184	956.81	11.053	968.08	10.950	970.15	10.881	974.39
12.743	799.06	11.333	945.87	11.164	956.65	11.032	967.95	10.929	970.03	10.860	974.28
12.726	798.90	11.313	945.79	11.144	956.57	11.012	967.86	10.909	969.91	10.840	974.20
12.709	798.74	11.293	945.62	11.124	956.40	10.991	967.71	10.888	969.79	10.819	974.03
12.693	798.61	11.273	945.53	11.104	956.32	10.971	967.63	10.868	969.69	10.799	973.97
12.676	798.42	11.253	945.38	11.083	956.24	10.950	967.46	10.847	969.59	10.778	973.81
12.659	798.32	11.233	945.30	11.063	956.08	10.930	967.38	10.827	969.47	10.758	973.71
12.643	798.15	11.213	945.21	11.043	955.98	10.910	967.22	10.806	969.36	10.737	973.61
12.626	797.98	11.193	945.01	11.023	955.83	10.889	967.13	10.786	969.20	10.717	973.46
12.610	797.84	11.173	944.93	11.003	955.75	10.869	967.00	10.765	969.14	10.697	973.34
12.593	797.69	11.153	944.81	10.983	955.59	10.848	966.89	10.745	968.98	10.676	973.22
12.576	797.58	11.133	944.64	10.962	955.49	10.828	966.81	10.724	968.86	10.656	973.14
12.560	797.38	11.113	944.56	10.942	955.40	10.807	966.64	10.704	968.73	10.635	973.05
12.543	797.25	11.093	944.40	10.922	955.26	10.787	966.56	10.683	968.65	10.615	972.89
12.527	797.11	11.073	944.28	10.902	955.13	10.766	966.40	10.663	968.56	10.594	972.77
12.510	796.93	11.053	944.17	10.882	955.01	10.746	966.32	10.642	968.44	10.574	972.64
12.493	796.78	11.033	944.04	10.862	954.90	10.726	966.21	10.622	968.32	10.553	972.55
12.477	796.63	11.013	943.91	10.841	954.77	10.705	966.07	10.601	968.19	10.533	972.40
12.460	796.50	10.993	943.82	10.821	954.69	10.685	965.99	10.581	968.08	10.512	972.33
12.444	796.36	10.973	943.66	10.801	954.52	10.664	965.83	10.560	967.96	10.492	972.17
12.427	796.21	10.953	943.55	10.781	954.44	10.644	965.74	10.540	967.83	10.471	972.07
12.410	796.04	10.933	943.42	10.761	954.28	10.623	965.58	10.519	967.75	10.451	971.92
12.394	795.88	10.913	943.28	10.741	954.20	10.603	965.50	10.499	967.61	10.430	971.84
12.377	795.73	10.894	943.19	10.720	954.03	10.582	965.33	10.478	967.50	10.410	971.74
12.361	795.62	10.874	943.08	10.700	953.94	10.562	965.25	10.458	967.41	10.389	971.62
12.344	795.47	10.854	942.92	10.680	953.84	10.541	965.12	10.437	967.29	10.369	971.50
12.327	795.31	10.834	942.84	10.660	953.70	10.521	965.01	10.417	967.18	10.348	971.39
12.311	795.15	10.814	942.70	10.640	953.60	10.501	964.87	10.396	967.01	10.328	971.25
12.294	794.98	10.794	942.57	10.620	953.46	10.480	964.76	10.376	966.91	10.307	971.11
12.278	794.80	10.774	942.50	10.599	953.34	10.460	964.68	10.355	966.84	10.287	971.01
12.261	794.66	10.754	942.35	10.579	953.21	10.439	964.52	10.335	966.69	10.266	970.89
12.244	794.49	10.734	942.19	10.559	953.10	10.419	964.44	10.314	966.55	10.246	970.74
12.228	794.38	10.714	942.07	10.539	952.98	10.398	964.27	10.294	966.44	10.225	970.66
12.211	794.19	10.694	941.94	10.519	952.84	10.378	964.19	10.273	966.36	10.205	970.52
12.195	794.00	10.674	941.84	10.499	952.72	10.357	964.03	10.253	966.23	10.184	970.43
12.178	793.92	10.654	941.70	10.478	952.64	10.337	963.95	10.232	966.07	10.164	970.30
12.161	793.76	10.634	941.60	10.458	952.48	10.317	963.84	10.212	965.95	10.143	970.16
12.145	793.59	10.614	941.45	10.438	952.40	10.296	963.70	10.191	965.90	10.123	970.10
12.128	793.45	10.594	941.30	10.418	952.26	10.276	963.59	10.171	965.76	10.102	969.94
12.111	793.27	10.574	941.21	10.398	952.15	10.255	963.45	10.150	965.60	10.082	969.83
12.095	793.10	10.554	941.08	10.378	952.06	10.235	963.30	10.130	965.51	10.061	969.70
12.078	792.94	10.534	940.93	10.357	951.91	10.214	963.21	10.109	965.38	10.041	969.56
12.062	792.78	10.514	940.83	10.337	951.83	10.194	963.13	10.089	965.27	10.020	969.45
12.045	792.63	10.494	940.71	10.317	951.73	10.173	962.96	10.068	965.15	10.000	969.32
12.028	792.45	10.474	940.58	10.297	951.58	10.153	962.86	10.048	965.05	9.979	969.21

12.012	792.29	10.455	940.42	10.277	951.50	10.132	962.72	10.027	964.88	9.959	969.10
11.995	792.16	10.435	940.31	10.257	951.34	10.112	962.64	10.007	964.77	9.938	968.97
11.979	792.02	10.415	940.21	10.236	951.25	10.092	962.47	9.986	964.64	9.918	968.88
11.962	791.86	10.395	940.09	10.216	951.15	10.071	962.39	9.966	964.54	9.897	968.79
11.945	791.70	10.375	939.97	10.196	951.01	10.051	962.23	9.945	964.44	9.877	968.64
11.929	791.55	10.355	939.81	10.176	950.93	10.030	962.12	9.925	964.26	9.856	968.50
11.912	791.34	10.335	939.65	10.156	950.82	10.010	961.98	9.904	964.15	9.836	968.39
11.896	791.23	10.315	939.55	10.136	950.68	9.989	961.90	9.884	964.02	9.815	968.31
11.879	791.06	10.295	939.42	10.115	950.52	9.969	961.73	9.863	963.90	9.795	968.14
11.862	790.90	10.275	939.25	10.095	950.44	9.948	961.59	9.843	963.82	9.774	968.06
11.846	790.73	10.255	939.16	10.075	950.27	9.928	961.49	9.822	963.68	9.754	967.90
11.829	790.57	10.235	939.00	10.055	950.19	9.908	961.41	9.802	963.58	9.733	967.80
11.813	790.41	10.215	938.89	10.035	950.03	9.887	961.24	9.781	963.43	9.713	967.65
11.796	790.25	10.195	938.75	10.015	949.95	9.867	961.11	9.761	963.32	9.692	967.57
11.779	790.08	10.175	938.60	9.994	949.78	9.846	961.00	9.740	963.17	9.672	967.41
11.763	789.92	10.155	938.53	9.974	949.70	9.826	960.92	9.720	963.09	9.651	967.31
11.746	789.76	10.135	938.36	9.954	949.53	9.805	960.75	9.699	962.92	9.631	967.18
11.730	789.59	10.115	938.26	9.934	949.42	9.785	960.67	9.679	962.84	9.610	967.05
11.713	789.43	10.095	938.10	9.914	949.29	9.764	960.51	9.658	962.68	9.590	966.92
11.696	789.26	10.075	937.99	9.894	949.21	9.744	960.43	9.638	962.59	9.569	966.81
11.680	789.10	10.055	937.85	9.873	949.04	9.723	960.26	9.617	962.43	9.549	966.67
11.663	788.94	10.035	937.69	9.853	948.96	9.703	960.18	9.597	962.32	9.528	966.56
11.647	788.77	10.015	937.61	9.833	948.83	9.683	960.02	9.576	962.18	9.508	966.42
11.630	788.61	9.996	937.44	9.813	948.72	9.662	959.94	9.556	962.10	9.487	966.27
11.613	788.45	9.976	937.35	9.793	948.55	9.642	959.77	9.535	961.95	9.467	966.18
11.597	788.28	9.956	937.20	9.773	948.45	9.621	959.69	9.515	961.81	9.446	966.02
11.580	788.12	9.936	937.08	9.752	948.31	9.601	959.52	9.494	961.69	9.426	965.92
11.563	787.96	9.916	936.95	9.732	948.22	9.580	959.36	9.474	961.60	9.405	965.77
11.547	787.79	9.896	936.79	9.712	948.06	9.560	959.28	9.453	961.45	9.385	965.69
11.530	787.63	9.876	936.68	9.692	947.98	9.539	959.12	9.433	961.31	9.364	965.53
11.514	787.47	9.856	936.54	9.672	947.82	9.519	959.03	9.412	961.20	9.344	965.43
11.497	787.30	9.836	936.38	9.652	947.72	9.499	958.87	9.392	961.05	9.323	965.28
11.480	787.22	9.816	936.21	9.631	947.57	9.478	958.79	9.371	960.96	9.303	965.20
11.464	787.14	9.796	936.13	9.611	947.41	9.458	958.63	9.351	960.81	9.282	965.03
11.447	787.03	9.776	935.97	9.591	947.33	9.437	958.51	9.330	960.71	9.262	964.90
11.431	786.92	9.756	935.80	9.571	947.16	9.417	958.38	9.310	960.57	9.241	964.79
11.414	786.81	9.736	935.71	9.551	947.08	9.396	958.22	9.289	960.44	9.221	964.70
11.397	786.70	9.716	935.56	9.531	946.92	9.376	958.13	9.269	960.30	9.200	964.54
11.381	786.57	9.696	935.42	9.510	946.75	9.355	957.97	9.248	960.19	9.180	964.45
11.364	786.42	9.676	935.29	9.490	946.67	9.335	957.89	9.228	960.06	9.159	964.30
11.348	786.26	9.656	935.16	9.470	946.58	9.315	957.72	9.207	959.95	9.139	964.20
11.331	786.10	9.636	935.02	9.450	946.43	9.294	957.60	9.187	959.82	9.118	964.05
11.314	785.95	9.616	934.90	9.430	946.32	9.274	957.48	9.166	959.66	9.098	963.93
11.298	785.83	9.596	934.79	9.410	946.16	9.253	957.31	9.146	959.57	9.077	963.80
11.281	785.69	9.576	934.66	9.389	946.02	9.233	957.23	9.125	959.41	9.057	963.64
11.265	785.53	9.557	934.49	9.369	945.94	9.212	957.07	9.105	959.31	9.036	963.53
11.248	785.36	9.537	934.36	9.349	945.77	9.192	956.97	9.084	959.16	9.016	963.39
11.231	785.19	9.517	934.25	9.329	945.69	9.171	956.82	9.064	959.07	8.995	963.28
11.215	785.04	9.497	934.10	9.309	945.53	9.151	956.66	9.043	958.91	8.975	963.15
11.198	784.91	9.477	933.97	9.289	945.36	9.130	956.58	9.023	958.78	8.954	962.99
11.182	784.75	9.457	933.84	9.268	945.28	9.110	956.41	9.002	958.66	8.934	962.90
11.165	784.57	9.437	933.67	9.248	945.17	9.090	956.26	8.982	958.52	8.913	962.74
11.148	784.43	9.417	933.56	9.228	945.01	9.069	956.17	8.961	958.42	8.893	962.60
11.132	784.30	9.397	933.43	9.208	944.87	9.049	956.00	8.941	958.25	8.872	962.49
11.115	784.12	9.377	933.26	9.188	944.71	9.028	955.92	8.920	958.17	8.852	962.33

11.099	783.94	9.357	933.13	9.168	944.59	9.008	955.82	8.900	958.01	8.832	962.16
11.082	783.81	9.337	933.00	9.147	944.46	8.987	955.66	8.879	957.85	8.811	962.05
11.065	783.65	9.317	932.85	9.127	944.30	8.967	955.51	8.859	957.76	8.791	961.92
11.049	783.46	9.297	932.74	9.107	944.22	8.946	955.40	8.838	957.60	8.770	961.75
11.032	783.30	9.277	932.61	9.087	944.05	8.926	955.27	8.818	957.50	8.750	961.65
11.015	783.16	9.257	932.45	9.067	943.89	8.906	955.10	8.797	957.35	8.729	961.51
10.999	783.02	9.237	932.34	9.047	943.77	8.885	955.02	8.777	957.25	8.709	961.34
10.982	782.87	9.217	932.20	9.026	943.64	8.865	954.86	8.756	957.11	8.688	961.22
10.966	782.73	9.197	932.03	9.006	943.48	8.844	954.69	8.736	956.95	8.668	961.10
10.949	782.56	9.177	931.91	8.986	943.40	8.824	954.61	8.715	956.78	8.647	960.96
10.932	782.36	9.157	931.78	8.966	943.23	8.803	954.45	8.695	956.69	8.627	960.85
10.916	782.20	9.137	931.64	8.946	943.07	8.783	954.28	8.674	956.53	8.606	960.69
10.899	782.05	9.118	931.50	8.926	942.90	8.762	954.20	8.654	956.42	8.586	960.57
10.883	781.90	9.098	931.38	8.905	942.82	8.742	954.04	8.633	956.29	8.565	960.44
10.866	781.74	9.078	931.21	8.885	942.66	8.721	953.88	8.613	956.12	8.545	960.28
10.849	781.59	9.058	931.14	8.865	942.53	8.701	953.79	8.592	956.02	8.524	960.15
10.833	781.43	9.038	930.97	8.845	942.41	8.681	953.63	8.572	955.88	8.504	960.03
10.816	781.25	9.018	930.82	8.825	942.25	8.660	953.55	8.551	955.72	8.483	959.87
10.800	781.04	8.998	930.66	8.805	942.08	8.640	953.38	8.531	955.63	8.463	959.79
10.783	780.88	8.978	930.56	8.784	942.00	8.619	953.25	8.510	955.47	8.442	959.63
10.766	780.72	8.958	930.44	8.764	941.84	8.599	953.14	8.490	955.35	8.422	959.48
10.750	780.56	8.938	930.32	8.744	941.67	8.578	952.97	8.469	955.22	8.401	959.38
10.733	780.40	8.918	930.15	8.724	941.54	8.558	952.89	8.449	955.06	8.381	959.26
10.717	780.24	8.898	930.06	8.704	941.43	8.537	952.73	8.428	954.98	8.360	959.13
10.700	780.08	8.878	929.91	8.684	941.27	8.517	952.57	8.408	954.81	8.340	958.97
10.683	779.92	8.858	929.74	8.664	941.16	8.497	952.48	8.387	954.65	8.319	958.89
10.667	779.76	8.838	929.58	8.643	941.02	8.476	952.32	8.367	954.57	8.299	958.72
10.650	779.59	8.818	929.50	8.623	940.86	8.456	952.16	8.346	954.40	8.278	958.64
10.634	779.41	8.798	929.33	8.603	940.77	8.435	952.07	8.326	954.24	8.258	958.48
10.617	779.23	8.778	929.17	8.583	940.61	8.415	951.91	8.305	954.13	8.237	958.31
10.600	779.05	8.758	929.09	8.563	940.45	8.394	951.83	8.285	953.99	8.217	958.23
10.584	778.87	8.738	928.93	8.543	940.28	8.374	951.66	8.264	953.84	8.196	958.07
10.567	778.70	8.718	928.80	8.522	940.20	8.353	951.50	8.244	953.70	8.176	957.98
10.551	778.53	8.698	928.68	8.502	940.04	8.333	951.35	8.224	953.59	8.155	957.82
10.534	778.35	8.679	928.51	8.482	939.94	8.312	951.26	8.203	953.44	8.135	957.74
10.517	778.17	8.659	928.37	8.462	939.79	8.292	951.09	8.183	953.34	8.114	957.58
10.501	777.99	8.639	928.27	8.442	939.63	8.272	951.01	8.162	953.18	8.094	957.50
10.484	777.81	8.619	928.10	8.422	939.55	8.251	950.85	8.142	953.01	8.073	957.33
10.467	777.62	8.599	927.96	8.401	939.38	8.231	950.73	8.121	952.85	8.053	957.18
10.451	777.44	8.579	927.86	8.381	939.22	8.210	950.60	8.101	952.77	8.032	957.09
10.434	777.26	8.559	927.70	8.361	939.09	8.190	950.44	8.080	952.60	8.012	956.92
10.418	777.13	8.539	927.59	8.341	938.97	8.169	950.27	8.060	952.44	7.991	956.76
10.401	776.96	8.519	927.45	8.321	938.81	8.149	950.19	8.039	952.36	7.971	956.63
10.384	776.77	8.499	927.29	8.301	938.65	8.128	950.03	8.019	952.19	7.950	956.51
10.368	776.57	8.479	927.19	8.280	938.56	8.108	949.86	7.998	952.07	7.930	956.35
10.351	776.38	8.459	927.04	8.260	938.40	8.088	949.70	7.978	951.95	7.909	956.18
10.335	776.18	8.439	926.92	8.240	938.24	8.067	949.62	7.957	951.78	7.889	956.02
10.318	775.98	8.419	926.79	8.220	938.15	8.047	949.45	7.937	951.67	7.868	955.94
10.301	775.82	8.399	926.64	8.200	937.99	8.026	949.29	7.916	951.50	7.848	955.77
10.285	775.68	8.379	926.55	8.180	937.86	8.006	949.21	7.896	951.37	7.827	955.61
10.268	775.48	8.359	926.51	8.159	937.69	7.985	949.04	7.875	951.24	7.807	955.49
10.252	775.26	8.339	926.43	8.139	937.58	7.965	948.88	7.855	951.05	7.786	955.37
10.235	775.11	8.319	926.33	8.119	937.42	7.944	948.71	7.834	950.96	7.766	955.20
10.218	774.93	8.299	926.23	8.099	937.34	7.924	948.63	7.814	950.80	7.745	955.12
10.202	774.72	8.279	926.10	8.079	937.17	7.904	948.47	7.793	950.72	7.725	954.96

10.185	774.53	8.259	925.97	8.059	937.01	7.883	948.40	7.773	950.55	7.704	954.79
10.169	774.38	8.240	925.83	8.038	936.93	7.863	948.22	7.752	950.39	7.684	954.71
10.152	774.15	8.220	925.68	8.018	936.76	7.842	948.13	7.732	950.27	7.663	954.55
10.135	773.95	8.200	925.51	7.998	936.61	7.822	947.98	7.711	950.14	7.643	954.38
10.119	773.74	8.180	925.37	7.978	936.44	7.801	947.90	7.691	949.98	7.622	954.30
10.102	773.53	8.160	925.16	7.958	936.35	7.781	947.73	7.670	949.83	7.602	954.14
10.086	773.35	8.140	925.03	7.938	936.19	7.760	947.62	7.650	949.74	7.581	954.06
10.069	773.19	8.120	924.86	7.917	936.02	7.740	947.49	7.629	949.57	7.561	953.89
10.052	773.01	8.100	924.79	7.897	935.86	7.719	947.37	7.609	949.44	7.540	953.73
10.036	772.80	8.080	924.67	7.877	935.70	7.699	947.20	7.588	949.29	7.520	953.61
10.019	772.62	8.060	924.50	7.857	935.57	7.679	947.08	7.568	949.16	7.499	953.48
10.002	772.40	8.040	924.36	7.837	935.45	7.658	946.91	7.547	949.00	7.479	953.37
9.986	772.22	8.020	924.20	7.817	935.30	7.638	946.83	7.527	948.92	7.458	953.24
9.969	771.99	8.000	924.07	7.796	935.12	7.617	946.67	7.506	948.75	7.438	953.07
9.953	771.82	7.980	923.94	7.776	935.04	7.597	946.50	7.486	948.59	7.417	952.91
9.936	771.59	7.960	923.81	7.756	934.88	7.576	946.42	7.465	948.42	7.397	952.83
9.919	771.42	7.940	923.67	7.736	934.71	7.556	946.26	7.445	948.33	7.376	952.66
9.903	771.23	7.920	923.55	7.716	934.60	7.535	946.12	7.424	948.18	7.356	952.50
9.886	771.00	7.900	923.37	7.696	934.44	7.515	946.00	7.404	948.01	7.335	952.35
9.870	770.83	7.880	923.27	7.675	934.30	7.495	945.84	7.383	947.93	7.315	952.25
9.853	770.61	7.860	923.07	7.655	934.14	7.474	945.68	7.363	947.77	7.294	952.09
9.836	770.40	7.840	922.94	7.635	933.98	7.454	945.52	7.342	947.60	7.274	952.00
9.820	770.22	7.820	922.81	7.615	933.81	7.433	945.40	7.322	947.44	7.253	951.84
9.803	769.99	7.801	922.66	7.595	933.65	7.413	945.25	7.301	947.28	7.233	951.68
9.787	769.78	7.781	922.49	7.575	933.48	7.392	945.06	7.281	947.14	7.212	951.54
9.770	769.60	7.761	922.36	7.554	933.32	7.372	944.94	7.260	947.03	7.192	951.43
9.753	769.42	7.741	922.19	7.534	933.21	7.351	944.78	7.240	946.87	7.171	951.27
9.737	769.15	7.721	922.05	7.514	933.07	7.331	944.62	7.219	946.70	7.151	951.11
9.720	768.94	7.701	921.88	7.494	932.91	7.310	944.50	7.199	946.62	7.130	950.96
9.704	768.74	7.681	921.78	7.474	932.81	7.290	944.35	7.178	946.46	7.110	950.84
9.687	768.55	7.661	921.64	7.454	932.64	7.270	944.19	7.158	946.29	7.089	950.70
9.670	768.32	7.641	921.47	7.433	932.50	7.249	944.04	7.137	946.13	7.069	950.53
9.654	768.08	7.621	921.31	7.413	932.34	7.229	943.88	7.117	945.99	7.048	950.37
9.637	767.89	7.601	921.15	7.393	932.21	7.208	943.72	7.096	945.85	7.028	950.29
9.621	767.71	7.581	921.02	7.373	932.07	7.188	943.55	7.076	945.72	7.007	950.12
9.604	767.51	7.561	920.82	7.353	931.93	7.167	943.41	7.055	945.55	6.987	949.96
9.587	767.23	7.541	920.69	7.333	931.76	7.147	943.30	7.035	945.39	6.967	949.79
9.571	767.03	7.521	920.57	7.312	931.60	7.126	943.14	7.014	945.23	6.946	949.63
9.554	766.83	7.501	920.41	7.292	931.43	7.106	942.98	6.994	945.15	6.926	949.50
9.538	766.63	7.481	920.25	7.272	931.27	7.086	942.81	6.973	944.98	6.905	949.38
9.521	766.42	7.461	920.06	7.252	931.19	7.065	942.65	6.953	944.82	6.885	949.22
9.504	766.22	7.441	919.92	7.232	931.08	7.045	942.52	6.932	944.65	6.864	949.06
9.488	766.01	7.421	919.84	7.212	930.92	7.024	942.36	6.912	944.51	6.844	948.89
9.471	765.79	7.401	919.69	7.191	930.79	7.004	942.21	6.891	944.41	6.823	948.73
9.454	765.58	7.381	919.54	7.171	930.64	6.983	942.05	6.871	944.24	6.803	948.65
9.438	765.35	7.362	919.35	7.151	930.46	6.963	941.91	6.850	944.08	6.782	948.48
9.421	765.13	7.342	919.19	7.131	930.37	6.942	941.75	6.830	943.92	6.762	948.32
9.405	764.89	7.322	919.04	7.111	930.23	6.922	941.58	6.809	943.76	6.741	948.15
9.388	764.66	7.302	918.94	7.091	930.04	6.901	941.42	6.789	943.66	6.721	947.99
9.371	764.42	7.282	918.79	7.070	929.88	6.881	941.25	6.768	943.51	6.700	947.86
9.355	764.19	7.262	918.70	7.050	929.77	6.861	941.09	6.748	943.34	6.680	947.74
9.338	763.95	7.242	918.53	7.030	929.61	6.840	940.93	6.727	943.18	6.659	947.61
9.322	763.72	7.222	918.40	7.010	929.38	6.820	940.82	6.707	943.01	6.639	947.50
9.305	763.49	7.202	918.34	6.990	929.14	6.799	940.61	6.686	942.85	6.618	947.33
9.288	763.31	7.182	918.29	6.970	928.89	6.779	940.43	6.666	942.68	6.598	947.25

9.272	763.02	7.162	918.15	6.949	928.73	6.758	940.27	6.645	942.54	6.577	947.09
9.255	762.85	7.142	918.01	6.929	928.56	6.738	940.16	6.625	942.39	6.557	946.93
9.239	762.60	7.122	917.86	6.909	928.40	6.717	940.01	6.604	942.28	6.536	946.76
9.222	762.35	7.102	917.70	6.889	928.23	6.697	939.83	6.584	942.11	6.516	946.60
9.205	762.12	7.082	917.53	6.869	928.07	6.677	939.66	6.563	941.95	6.495	946.52
9.189	761.92	7.062	917.34	6.849	927.92	6.656	939.53	6.543	941.78	6.475	946.35
9.172	761.67	7.042	917.21	6.828	927.82	6.636	939.37	6.522	941.62	6.454	946.22
9.156	761.41	7.022	917.11	6.808	927.66	6.615	939.20	6.502	941.45	6.434	946.12
9.139	761.19	7.002	916.97	6.788	927.50	6.595	939.04	6.481	941.29	6.413	945.96
9.122	760.95	6.982	916.73	6.768	927.33	6.574	938.86	6.461	941.13	6.393	945.79
9.106	760.75	6.962	916.57	6.748	927.17	6.554	938.71	6.440	940.96	6.372	945.74
9.089	760.47	6.942	916.32	6.728	927.01	6.533	938.55	6.420	940.88	6.352	945.59
9.073	759.28	6.923	916.15	6.707	926.84	6.513	938.38	6.399	940.63	6.331	945.44
9.056	759.05	6.903	916.04	6.687	926.76	6.493	938.22	6.379	940.47	6.311	945.31
9.039	758.81	6.883	915.88	6.667	926.60	6.472	938.05	6.358	940.31	6.290	945.17
9.023	758.59	6.863	915.75	6.647	926.43	6.452	937.89	6.338	940.22	6.270	945.04
9.006	758.35	6.843	915.58	6.627	926.27	6.431	937.73	6.317	940.06	6.249	944.90
8.990	758.13	6.823	915.48	6.607	926.10	6.411	937.56	6.297	939.90	6.229	944.76
8.973	757.90	6.803	915.24	6.586	925.94	6.390	937.27	6.276	939.73	6.208	944.63
8.956	757.66	6.783	915.09	6.566	925.82	6.370	937.15	6.256	939.57	6.188	944.51
8.940	757.43	6.763	914.93	6.546	925.70	6.349	936.99	6.235	939.49	6.167	944.40
8.923	757.20	6.743	914.76	6.526	925.53	6.329	936.82	6.215	939.27	6.147	944.27
8.906	756.96	6.723	914.63	6.506	925.37	6.308	936.77	6.194	939.16	6.126	944.09
8.890	756.73	6.703	914.50	6.486	925.20	6.288	936.63	6.174	938.99	6.106	943.94
8.873	756.49	6.683	914.27	6.465	925.04	6.268	936.44	6.153	938.83	6.085	943.77
8.857	756.27	6.663	914.19	6.445	924.88	6.247	936.25	6.133	938.67	6.065	943.67
8.840	756.03	6.643	914.01	6.425	924.71	6.227	936.17	6.112	938.54	6.044	943.56
8.823	755.78	6.623	913.86	6.405	924.55	6.206	936.00	6.092	938.42	6.024	943.38
8.807	755.56	6.603	913.66	6.385	924.38	6.186	935.87	6.071	938.26	6.003	943.27
8.790	755.31	6.583	913.53	6.365	924.27	6.165	935.73	6.051	938.09	5.983	943.13
8.774	755.09	6.563	913.36	6.344	924.08	6.145	935.60	6.030	937.93	5.962	943.01
8.757	754.84	6.543	913.14	6.324	923.94	6.124	935.43	6.010	937.77	5.942	942.87
8.740	754.60	6.523	913.00	6.304	923.81	6.104	935.27	5.989	937.60	5.921	942.72
8.724	754.37	6.503	912.86	6.284	923.65	6.084	935.11	5.969	937.52	5.901	942.59
8.707	754.12	6.483	912.67	6.264	923.48	6.063	934.98	5.948	937.35	5.880	942.46
8.691	753.89	6.464	912.55	6.244	923.32	6.043	934.86	5.928	937.19	5.860	942.29
8.674	753.65	6.444	912.34	6.223	923.15	6.022	934.73	5.907	937.03	5.839	942.12
8.657	753.40	6.424	912.22	6.203	923.03	6.002	934.54	5.887	936.86	5.819	941.98
8.641	753.17	6.404	911.99	6.183	922.88	5.981	934.38	5.866	936.70	5.798	941.83
8.624	752.92	6.384	911.85	6.163	922.74	5.961	934.29	5.846	936.53	5.778	941.68
8.608	752.69	6.364	911.68	6.143	922.58	5.940	934.11	5.825	936.39	5.757	941.62
8.591	752.44	6.344	911.56	6.123	922.40	5.920	933.97	5.805	936.29	5.737	941.50
8.574	752.19	6.324	911.37	6.102	922.24	5.899	933.84	5.784	936.11	5.716	941.32
8.558	751.96	6.304	911.18	6.082	922.09	5.879	933.71	5.764	935.96	5.696	941.12
8.541	751.71	6.284	911.01	6.062	921.92	5.859	933.56	5.743	935.81	5.675	940.99
8.525	751.47	6.264	910.87	6.042	921.76	5.838	933.41	5.723	935.63	5.655	940.87
8.508	751.22	6.244	910.66	6.022	921.60	5.818	933.28	5.702	935.54	5.634	940.74
8.491	750.97	6.224	910.56	6.002	921.43	5.797	933.13	5.682	935.38	5.614	940.61
8.475	750.73	6.204	910.35	5.981	921.27	5.777	932.99	5.661	935.19	5.593	940.48
8.458	750.48	6.184	910.21	5.961	921.10	5.756	932.81	5.641	935.06	5.573	940.32
8.442	750.24	6.164	910.05	5.941	920.94	5.736	932.70	5.620	934.88	5.552	940.15
8.425	749.99	6.144	909.88	5.921	920.79	5.715	932.57	5.600	934.73	5.532	939.99
8.408	749.73	6.124	909.68	5.901	920.61	5.695	932.42	5.579	934.62	5.511	939.86
8.392	749.49	6.104	909.54	5.881	920.45	5.675	932.28	5.559	934.40	5.491	939.73
8.375	749.24	6.084	909.35	5.860	920.24	5.654	932.14	5.538	934.30	5.470	939.55

8.358	748.98	6.064	909.18	5.840	920.12	5.634	931.95	5.518	934.14	5.450	939.41
8.342	748.74	6.044	909.02	5.820	919.87	5.613	931.78	5.497	933.96	5.429	939.27
8.325	748.49	6.025	908.86	5.800	919.74	5.593	931.63	5.477	933.81	5.409	939.13
8.309	748.24	6.005	908.70	5.780	919.55	5.572	931.54	5.456	933.65	5.388	938.98
8.292	747.99	5.985	908.56	5.760	919.38	5.552	931.41	5.436	933.50	5.368	938.82
8.275	747.73	5.965	908.37	5.739	919.22	5.531	931.25	5.415	933.35	5.347	938.64
8.259	747.49	5.945	908.21	5.719	919.04	5.511	931.09	5.395	933.19	5.327	938.46
8.242	747.23	5.925	908.02	5.699	918.89	5.490	930.93	5.374	933.05	5.306	938.33
8.226	746.98	5.905	907.87	5.679	918.72	5.470	930.78	5.354	932.86	5.286	938.11
8.209	746.72	5.885	907.67	5.659	918.56	5.450	930.63	5.333	932.74	5.265	937.97
8.192	746.46	5.865	907.52	5.639	918.35	5.429	930.49	5.313	932.57	5.245	937.87
8.176	746.21	5.845	907.34	5.618	918.17	5.409	930.34	5.292	932.40	5.224	937.70
8.159	745.95	5.825	907.16	5.598	918.05	5.388	930.20	5.272	932.23	5.204	937.52
8.143	745.70	5.805	907.01	5.578	917.82	5.368	930.05	5.251	932.05	5.183	937.39
8.126	745.44	5.785	906.79	5.558	917.66	5.347	929.90	5.231	931.87	5.163	937.26
8.109	745.18	5.765	906.64	5.538	917.49	5.327	929.74	5.210	931.78	5.142	937.07
8.093	744.93	5.745	906.47	5.518	917.33	5.306	929.56	5.190	931.58	5.122	936.91
8.076	744.66	5.725	906.32	5.497	917.17	5.286	929.42	5.169	931.40	5.102	936.77
8.060	744.42	5.705	906.07	5.477	916.93	5.266	929.27	5.149	931.22	5.081	936.57
8.043	744.15	5.685	905.90	5.457	916.81	5.245	929.10	5.128	931.04	5.061	936.37
8.026	743.88	5.665	905.74	5.437	916.64	5.225	928.97	5.108	930.91	5.040	936.23
8.010	743.63	5.645	905.58	5.417	916.51	5.204	928.83	5.087	930.75	5.020	936.05
7.993	743.36	5.625	905.42	5.397	916.28	5.184	928.68	5.067	930.58	4.999	935.89
7.977	743.11	5.605	905.17	5.376	916.10	5.163	928.52	5.046	930.37	4.979	935.74
7.960	742.84	5.586	905.02	5.356	915.94	5.143	928.36	5.026	930.25	4.958	935.58
7.943	742.58	5.566	904.84	5.336	915.77	5.122	928.19	5.005	930.09	4.938	935.41
7.927	742.32	5.546	904.66	5.316	915.61	5.102	928.03	4.985	929.89	4.917	935.23
7.910	742.05	5.526	904.46	5.296	915.44	5.082	927.86	4.964	929.70	4.897	935.07
7.894	741.80	5.506	904.27	5.276	915.28	5.061	927.70	4.944	929.55	4.876	934.91
7.877	741.53	5.486	904.08	5.255	915.12	5.041	927.57	4.923	929.40	4.856	934.78
7.860	741.25	5.466	903.87	5.235	914.92	5.020	927.44	4.903	929.18	4.835	934.63
7.844	741.00	5.446	903.69	5.215	914.74	5.000	927.29	4.882	929.04	4.815	934.43
7.827	740.72	5.426	903.45	5.195	914.54	4.979	927.11	4.862	928.82	4.794	934.24
7.810	740.45	5.406	903.28	5.175	914.41	4.959	926.93	4.841	928.65	4.774	933.14
7.794	740.19	5.386	903.03	5.155	914.21	4.938	926.74	4.821	928.47	4.753	932.94
7.777	739.92	5.366	902.84	5.134	914.04	4.918	926.63	4.800	928.29	4.733	932.78
7.761	739.66	5.346	902.56	5.114	913.88	4.897	926.49	4.780	928.14	4.712	933.40
7.744	739.38	5.326	902.29	5.094	913.74	4.877	926.33	4.759	927.92	4.692	932.43
7.727	739.11	5.306	902.24	5.074	913.85	4.857	926.16	4.739	927.34	4.671	932.33
7.711	738.85	5.286	902.20	5.054	913.96	4.836	925.99	4.718	927.34	4.651	932.61
7.694	738.57	5.266	902.16	5.034	913.97	4.816	925.82	4.698	927.12	4.630	931.99
7.678	738.31	5.246	902.04	5.013	913.88	4.795	925.65	4.677	927.03	4.610	931.75
7.661	738.03	5.226	901.82	4.993	913.73	4.775	924.02	4.657	926.52	4.589	931.58
7.644	737.75	5.206	901.59	4.973	913.57	4.754	923.78	4.636	926.71	4.569	931.40
7.628	737.49	5.186	901.37	4.953	913.43	4.734	923.61	4.616	926.25	4.548	931.28
7.611	737.21	5.166	901.24	4.933	913.31	4.713	923.43	4.595	926.09	4.528	932.22
7.595	736.94	5.147	901.13	4.913	913.15	4.693	923.23	4.575	925.75	4.507	931.33
7.578	736.66	5.127	901.03	4.892	912.52	4.673	923.06	4.554	925.37	4.487	930.76
7.561	736.38	5.107	900.92	4.872	912.35	4.652	922.85	4.534	925.37	4.466	930.63
7.545	736.11	5.087	900.71	4.852	912.17	4.632	922.63	4.513	925.24	4.446	931.00
7.528	735.83	5.067	900.45	4.832	912.00	4.611	922.46	4.493	925.26	4.425	930.31
7.512	735.56	5.047	900.20	4.812	911.84	4.591	922.97	4.472	924.80	4.405	930.93
7.495	735.28	5.027	900.01	4.792	911.62	4.570	922.11	4.452	924.85	4.384	929.94
7.478	735.00	5.007	899.83	4.771	911.46	4.550	922.42	4.431	924.72	4.364	929.94
7.462	734.73	4.987	899.65	4.751	911.23	4.529	921.82	4.411	924.46	4.343	929.65



7.445	734.44	4.967	899.46	4.731	911.06	4.509	922.28	4.390	924.30	4.323	929.50
7.429	734.17	4.947	899.28	4.711	910.88	4.488	921.44	4.370	924.27	4.302	929.31
7.412	733.88	4.927	899.00	4.691	910.67	4.468	921.23	4.349	924.09	4.282	929.11
7.395	733.60	4.907	898.21	4.671	910.46	4.448	921.10	4.329	923.89	4.261	928.99
7.379	733.33	4.887	898.49	4.650	910.26	4.427	920.91	4.308	923.67	4.241	928.75
7.362	733.04	4.867	898.16	4.630	910.09	4.407	920.74	4.288	923.45	4.220	928.61
7.345	732.75	4.847	898.06	4.610	909.85	4.386	920.54	4.267	923.29	4.200	928.47
7.329	732.47	4.827	897.90	4.590	909.65	4.366	921.18	4.247	923.22	4.179	928.30
7.312	732.18	4.807	897.72	4.570	909.46	4.345	920.16	4.226	922.92	4.159	928.10
7.296	731.91	4.787	897.56	4.550	909.25	4.325	919.98	4.206	922.88	4.138	927.89
7.279	731.62	4.767	897.39	4.529	909.03	4.304	920.53	4.185	922.73	4.118	927.73
7.262	731.33	4.747	897.22	4.509	908.79	4.284	919.59	4.165	922.47	4.097	927.56
7.246	731.05	4.727	897.03	4.489	908.60	4.264	921.13	4.144	922.18	4.077	927.37
7.229	730.76	4.708	896.85	4.469	908.34	4.243	919.16	4.124	921.98	4.056	927.16
7.213	730.48	4.688	896.68	4.449	908.08	4.223	919.03	4.103	921.84	4.036	926.97
7.196	730.19	4.668	896.51	4.429	907.91	4.202	918.75	4.083	921.64	4.015	926.82
7.179	729.89	4.648	896.32	4.408	907.65	4.182	918.65	4.062	921.47	3.995	926.58
7.163	729.61	4.628	896.11	4.388	907.48	4.161	919.29	4.042	921.25	3.974	926.28
7.146	729.32	4.608	895.91	4.368	907.24	4.141	918.15	4.021	921.08	3.954	926.04
7.130	729.04	4.588	895.69	4.348	906.96	4.120	919.45	4.001	920.90	3.933	925.75
7.113	728.74	4.568	895.43	4.328	906.75	4.100	919.50	3.980	920.69	3.913	925.55
7.096	728.44	4.548	895.24	4.308	906.50	4.079	919.19	3.960	920.51	3.892	925.33
7.080	728.16	4.528	895.10	4.287	906.24	4.059	917.34	3.939	920.27	3.872	925.09
7.063	727.86	4.508	894.90	4.267	906.02	4.039	917.07	3.919	920.03	3.851	924.90
7.047	727.58	4.488	894.67	4.247	905.76	4.018	916.88	3.898	919.38	3.831	924.68
7.030	727.28	4.468	894.40	4.227	905.41	3.998	916.56	3.878	919.20	3.810	924.56
7.013	726.98	4.448	894.22	4.207	905.17	3.977	916.05	3.857	918.81	3.790	924.34
6.997	726.69	4.428	893.97	4.187	904.67	3.957	915.75	3.837	918.49	3.769	924.09
4.350	114.45	4.408	893.79	4.166	904.42	3.936	915.53	3.816	918.14	3.749	924.00
4.329	113.41	4.388	893.53	4.146	904.07	3.916	915.26	3.796	917.89	3.728	923.61
4.307	112.42	4.368	893.24	4.126	903.78	3.895	914.98	3.775	917.67	3.708	923.38
4.286	111.42	4.348	893.00	4.106	903.40	3.875	914.73	3.755	917.44	3.687	923.20
4.265	110.45	4.328	892.68	4.086	903.04	3.855	914.49	3.734	917.29	3.667	923.04
4.244	109.46	4.308	892.43	4.066	902.71	3.834	914.32	3.714	917.07	3.646	922.79
4.222	108.56	4.288	892.16	4.045	902.38	3.814	913.91	3.694	916.82	3.626	922.46
4.201	107.62	4.269	891.87	4.025	902.13	3.793	913.66	3.494	99.04	3.502	98.08
4.180	106.73	4.249	891.62	4.005	901.88	3.773	913.34	3.477	97.34	3.485	97.21
4.158	105.77	4.229	891.29	3.985	901.56	3.752	913.01	3.460	96.49	3.468	96.41
4.137	104.90	3.630	106.68	3.580	99.51	3.535	98.56	3.442	95.70	3.451	95.65
4.116	104.24	3.612	100.32	3.562	98.43	3.518	97.55	3.425	94.90	3.434	94.86
4.094	103.55	3.594	99.30	3.545	97.48	3.500	96.81	3.408	94.19	3.417	94.04
4.073	102.64	3.577	98.40	3.527	96.68	3.483	95.93	3.391	93.42	3.400	93.25
4.052	101.80	3.559	97.60	3.510	95.90	3.466	95.24	3.374	92.64	3.383	92.51
4.031	100.96	3.541	96.80	3.492	95.04	3.449	94.36	3.357	91.90	3.365	91.77
4.009	100.13	3.523	95.96	3.475	94.26	3.431	93.59	3.340	91.17	3.348	91.03
3.988	99.25	3.506	95.22	3.457	93.40	3.414	92.82	3.323	90.45	3.331	90.35
3.967	98.42	3.488	94.46	3.440	92.69	3.397	92.15	3.306	89.73	3.314	89.50
3.945	97.58	3.470	93.72	3.423	91.92	3.380	91.36	3.289	88.97	3.297	88.81
3.924	96.79	3.453	92.95	3.405	91.16	3.362	90.61	3.272	88.24	3.280	88.11
3.903	95.99	3.435	92.18	3.388	90.39	3.345	89.86	3.255	87.51	3.263	87.42
3.881	95.17	3.417	91.45	3.370	89.57	3.328	89.11	3.238	86.86	3.246	86.66
3.860	94.37	3.399	90.73	3.353	88.86	3.311	88.40	3.221	86.10	3.229	86.00
3.839	93.58	3.382	89.99	3.335	88.15	3.293	87.72	3.204	85.44	3.212	85.40
3.818	92.75	3.364	89.24	3.318	87.42	3.276	87.05	3.187	84.63	3.195	84.63
3.796	92.02	3.346	88.46	3.300	86.69	3.259	86.30	3.170	83.83	3.177	84.01

3.775	91.23	3.328	87.42	3.283	85.98	3.242	85.63	3.153	83.11	3.160	83.32
3.754	90.45	3.311	84.78	3.265	85.31	3.224	84.93	3.136	82.47	3.143	82.60
3.732	89.71	3.293	84.56	3.248	84.54	3.207	84.27	3.119	81.73	3.126	81.91
3.711	88.93	3.275	84.39	3.230	83.94	3.190	83.53	3.102	81.08	3.109	81.33
3.690	88.20	3.257	84.22	3.213	83.18	3.172	82.86	3.085	80.35	3.092	80.61
3.668	87.41	3.240	84.05	3.195	82.52	3.155	82.17	3.067	79.76	3.075	79.94
3.647	86.69	3.222	83.45	3.178	81.84	3.138	81.52	3.050	79.03	3.058	79.27
3.626	85.97	3.204	82.74	3.160	81.22	3.121	80.89	3.033	78.48	3.041	78.67
3.604	85.18	3.186	81.97	3.143	80.53	3.103	80.20	3.016	77.79	3.024	78.11
3.583	84.48	3.169	81.24	3.125	79.88	3.086	79.51	2.999	77.15	3.007	77.35
3.562	83.77	3.151	80.56	3.108	79.24	3.069	78.90	2.982	76.55	2.989	76.76
3.541	83.01	3.133	79.88	3.091	78.61	3.052	78.24	2.965	75.83	2.972	76.12
3.519	82.30	3.116	79.16	3.073	77.98	3.034	77.64	2.948	75.25	2.955	75.54
3.498	81.62	3.098	78.48	3.056	77.36	3.017	76.98	2.931	74.65	2.938	74.91
3.477	80.89	3.080	77.88	3.038	76.70	3.000	76.34	2.914	73.97	2.921	74.28
3.455	80.18	3.062	77.50	3.021	76.11	2.983	75.68	2.897	73.36	2.904	73.64
3.434	79.48	3.045	77.11	3.003	75.44	2.965	75.09	2.880	72.74	2.887	73.06
3.413	78.80	3.027	76.65	2.986	74.86	2.948	74.46	2.863	72.09	2.870	72.48
3.391	78.11	3.009	75.99	2.968	74.18	2.931	73.85	2.846	71.48	2.853	71.88
3.370	77.42	2.991	75.39	2.951	73.60	2.914	73.27	2.829	70.84	2.836	71.28
3.349	76.75	2.974	74.75	2.933	72.96	2.896	72.66	2.812	70.23	2.819	70.70
3.328	76.02	2.956	74.14	2.916	72.33	2.879	72.04	2.795	69.49	2.801	70.11
3.306	75.34	2.938	73.53	2.898	71.73	2.862	71.43	2.778	68.91	2.784	69.47
3.285	74.68	2.920	72.90	2.881	71.15	2.845	70.81	2.761	68.23	2.767	68.93
3.264	73.98	2.903	72.28	2.863	70.59	2.827	70.25	2.744	67.63	2.750	68.36
3.242	73.34	2.885	71.69	2.846	70.03	2.810	69.60	2.727	67.01	2.733	67.81
3.221	72.73	2.867	71.02	2.828	69.32	2.793	69.05	2.710	66.41	2.716	67.22
3.200	72.07	2.849	70.43	2.811	68.80	2.776	68.49	2.692	65.90	2.699	66.63
3.178	71.38	2.832	69.89	2.793	68.21	2.758	67.86	2.675	65.27	2.682	66.05
3.157	70.74	2.814	69.28	2.776	67.64	2.741	67.30	2.658	64.76	2.665	65.56
3.136	70.11	2.796	68.58	2.759	67.07	2.724	66.75	2.641	64.15	2.648	65.02
3.115	69.48	2.778	68.08	2.741	66.54	2.707	66.21	2.624	63.60	2.631	64.49
3.093	68.80	2.761	67.50	2.724	65.90	2.689	65.66	2.607	63.24	2.613	63.85
3.072	68.16	2.743	66.82	2.706	65.35	2.672	65.05	2.590	62.84	2.596	63.27
3.051	67.53	2.725	66.23	2.689	64.77	2.655	64.48	2.573	62.42	2.579	62.84
3.029	66.93	2.708	65.62	2.671	64.25	2.637	63.92	2.556	61.88	2.562	62.18
3.008	66.28	2.690	65.05	2.654	63.67	2.620	63.41	2.539	61.33	2.545	61.66
2.987	65.67	2.672	64.56	2.636	63.12	2.603	62.82	2.522	60.63	2.528	61.24
2.965	65.05	2.654	63.99	2.619	62.56	2.586	62.28	2.505	59.94	2.511	60.69
2.944	64.38	2.637	63.29	2.601	61.97	2.568	61.75	2.488	59.52	2.494	60.06
2.923	63.80	2.619	62.71	2.584	61.42	2.551	61.20	2.471	59.02	2.477	59.54
2.901	63.20	2.601	62.13	2.566	60.95	2.534	60.64	2.454	58.32	2.460	58.99
2.880	62.59	2.583	61.56	2.549	60.37	2.517	60.10	2.437	57.67	2.443	58.56
2.859	61.97	2.566	61.13	2.531	59.79	2.499	59.59	2.420	57.10	2.426	58.02
2.838	61.39	2.548	60.41	2.514	59.24	2.482	59.08	2.403	56.70	2.408	57.45
2.816	60.77	2.530	59.83	2.496	58.76	2.465	58.52	2.386	56.37	2.391	56.94
2.795	60.18	2.512	59.26	2.479	58.20	2.448	58.04	2.369	55.69	2.374	56.42
2.774	59.61	2.495	58.76	2.461	57.68	2.430	57.46	2.352	55.00	2.357	55.89
2.752	59.07	2.477	58.26	2.444	57.16	2.413	56.96	2.335	54.51	2.340	55.35
2.731	58.44	2.459	57.75	2.427	56.66	2.396	56.45	2.317	54.04	2.323	54.86
2.710	57.87	2.441	57.25	2.409	56.14	2.379	55.90	2.300	53.58	2.306	54.37
2.688	57.29	2.424	56.75	2.392	55.61	2.361	55.38	2.283	53.07	2.289	53.85
2.667	56.73	2.406	56.24	2.374	55.07	2.344	54.88	2.266	52.53	2.272	53.34
2.646	56.14	2.388	55.76	2.357	54.58	2.327	54.35	2.249	51.96	2.255	52.89
2.625	55.57	2.371	55.17	2.339	54.10	2.310	53.84	2.232	51.62	2.238	52.35

2.603	55.00	2.353	54.71	2.322	53.53	2.292	53.36	2.215	51.27	2.220	51.93
2.582	54.46	2.335	54.17	2.304	53.05	2.275	52.84	2.198	50.66	2.203	51.44
2.561	53.87	2.317	53.68	2.287	52.54	2.258	52.35	2.181	50.06	2.186	50.88
2.539	53.34	2.300	53.18	2.269	52.05	2.241	51.86	2.164	49.47	2.169	50.48
2.518	52.75	2.282	52.63	2.252	51.54	2.223	51.31	2.147	48.92	2.152	49.91
2.497	52.21	2.264	52.11	2.234	51.14	2.206	50.87	2.130	48.65	2.135	49.43
2.475	51.69	2.246	51.61	2.217	50.78	2.189	50.35	2.113	48.19	2.118	49.02
2.454	51.10	2.229	51.05	2.199	50.26	2.172	49.87	2.096	47.58	2.101	48.49
2.433	50.61	2.211	50.59	2.182	49.77	2.154	49.40	2.079	47.12	2.084	47.95
2.412	50.05	2.193	50.07	2.164	49.33	2.137	48.89	2.062	46.75	2.067	47.53
2.390	49.50	2.175	49.58	2.147	48.88	2.120	48.38	2.045	46.33	2.050	47.04
2.369	48.94	2.158	49.09	2.129	48.37	2.103	47.92	2.028	45.86	2.032	46.55
2.348	48.39	2.140	48.61	2.112	47.84	2.085	47.45	2.011	45.40	2.015	46.12
2.326	47.92	2.122	48.12	2.095	47.40	2.068	46.98	1.994	44.92	1.998	45.62
2.305	47.39	2.104	47.61	2.077	46.93	2.051	46.52	1.977	44.30	1.981	45.15
2.284	46.81	2.087	47.14	2.060	46.45	2.033	45.98	1.960	43.79	1.964	44.71
2.262	46.31	2.069	46.60	2.042	46.00	2.016	45.57	1.942	43.31	1.947	44.24
2.241	45.78	2.051	46.16	2.025	45.51	1.999	45.10	1.925	42.84	1.930	43.88
2.220	45.26	2.034	45.64	2.007	45.03	1.982	44.64	1.908	42.42	1.913	43.31
2.198	44.78	2.016	45.18	1.990	44.56	1.964	44.21	1.891	42.16	1.896	42.86
2.177	44.24	1.998	44.74	1.972	44.09	1.947	43.68	1.874	41.79	1.879	42.39
2.156	43.77	1.980	44.24	1.955	43.60	1.930	43.25	1.857	41.32	1.862	41.91
2.135	43.24	1.963	43.75	1.937	43.17	1.913	42.77	1.840	40.86	1.844	41.53
2.113	42.70	1.945	43.32	1.920	42.68	1.895	42.36	1.823	40.32	1.827	41.08
2.092	42.18	1.927	42.84	1.902	42.27	1.878	41.84	1.806	39.75	1.810	40.62
2.071	41.66	1.909	42.33	1.885	41.79	1.861	41.40	1.789	39.28	1.793	40.15
2.049	41.19	1.892	41.91	1.867	41.35	1.844	40.97	1.772	38.97	1.776	39.69
2.028	40.70	1.874	41.40	1.850	40.87	1.826	40.46	1.755	38.59	1.759	39.27
2.007	40.16	1.856	40.98	1.832	40.40	1.809	40.05	1.738	37.97	1.742	38.78
1.985	39.68	1.838	40.47	1.815	39.99	1.792	39.60	1.721	37.70	1.725	38.39
1.964	39.21	1.821	40.05	1.797	39.53	1.775	39.18	1.704	37.31	1.708	37.92
1.943	38.70	1.803	39.63	1.780	39.07	1.757	38.69	1.687	36.84	1.691	37.52
1.922	38.20	1.785	39.15	1.763	38.66	1.740	38.27	1.670	36.38	1.674	37.09
1.900	37.77	1.767	38.66	1.745	38.17	1.723	37.85	1.653	35.97	1.656	36.60
1.879	37.26	1.750	38.24	1.728	37.79	1.706	37.35	1.636	35.56	1.639	36.18
1.858	36.73	1.732	37.78	1.710	37.33	1.688	36.94	1.619	35.15	1.622	35.76
1.836	36.25	1.714	37.37	1.693	36.90	1.671	36.53	1.602	34.74	1.605	35.35
1.815	35.77	1.696	36.93	1.675	36.45	1.654	36.08	1.585	34.32	1.588	34.94
1.794	35.30	1.679	36.52	1.658	36.04	1.637	35.60	1.567	33.73	1.571	34.49
1.772	34.84	1.661	36.02	1.640	35.56	1.619	35.21	1.550	33.26	1.554	34.07
1.751	34.36	1.643	35.62	1.623	35.12	1.602	34.74	1.533	32.85	1.537	33.68
1.730	33.84	1.626	35.13	1.605	34.70	1.585	34.32	1.516	32.42	1.520	33.31
1.709	33.37	1.608	34.73	1.588	34.19	1.568	33.91	1.499	32.06	1.503	32.79
1.687	32.92	1.590	34.33	1.570	33.82	1.550	33.46	1.482	31.74	1.486	32.36
1.666	32.47	1.572	33.86	1.553	33.37	1.533	33.03	1.465	31.31	1.468	31.99
1.645	32.02	1.555	33.46	1.535	32.97	1.516	32.61	1.448	30.89	1.451	31.54
1.623	31.58	1.537	32.99	1.518	32.55	1.498	32.16	1.431	30.46	1.434	31.10
1.602	31.06	1.519	32.61	1.500	32.11	1.481	31.77	1.414	30.04	1.417	30.69
1.581	30.62	1.501	32.16	1.483	31.71	1.464	31.31	1.397	29.66	1.400	30.30
1.559	30.18	1.484	31.78	1.465	31.27	1.447	30.93	1.380	29.24	1.383	29.90
1.538	29.73	1.466	31.29	1.448	30.89	1.429	30.49	1.363	28.72	1.366	29.60
1.517	29.24	1.448	30.90	1.431	30.43	1.412	30.08	1.346	28.31	1.349	29.04
1.495	28.82	1.430	30.50	1.413	29.96	1.395	29.69	1.329	27.90	1.332	28.65
1.474	28.39	1.413	30.04	1.396	29.60	1.378	29.23	1.312	27.51	1.315	28.26
1.453	27.92	1.395	29.65	1.378	29.21	1.360	28.82	1.295	27.12	1.298	27.86

1.432	27.47	1.377	29.19	1.361	28.76	1.343	28.44	1.278	26.80	1.280	27.48
1.410	27.00	1.359	28.81	1.343	28.39	1.326	28.06	1.261	26.43	1.263	27.04
1.389	26.54	1.342	28.42	1.326	28.02	1.309	27.61	1.244	26.04	1.246	26.64
1.368	26.08	1.324	27.96	1.308	27.49	1.291	27.23	1.227	25.58	1.229	26.32
1.346	25.64	1.306	27.58	1.291	27.12	1.274	26.80	1.210	25.20	1.212	25.85
1.325	25.21	1.289	27.20	1.273	26.68	1.257	26.44	1.192	24.80	1.195	25.45
1.304	24.75	1.271	26.74	1.256	26.26	1.240	26.02	1.175	24.35	1.178	25.09
1.282	24.34	1.253	26.37	1.238	25.92	1.222	25.59	1.158	24.02	1.161	24.68
1.261	23.86	1.235	25.92	1.221	25.55	1.205	25.25	1.141	23.69	1.144	24.28
1.240	23.43	1.218	25.54	1.203	25.12	1.188	24.84	1.124	23.31	1.127	23.88
1.219	22.98	1.200	25.14	1.186	24.70	1.171	24.38	1.107	22.93	1.110	23.57
1.197	22.59	1.182	24.72	1.168	24.27	1.153	24.03	1.090	22.55	1.092	23.19
1.176	22.12	1.164	24.37	1.151	23.94	1.136	23.63	1.073	22.18	1.075	22.72
1.155	21.70	1.147	24.00	1.133	23.56	1.119	23.22	1.056	21.64	1.058	22.41
1.133	21.26	1.129	23.55	1.116	23.08	1.102	22.83	1.039	21.34	1.041	22.00
1.112	20.82	1.111	23.14	1.099	22.64	1.084	22.46	1.022	20.99	1.024	21.58
1.091	20.41	1.093	22.76	1.081	22.24	1.067	22.04	1.005	20.63	1.007	21.20
1.069	20.02	1.076	22.34	1.064	21.74	1.050	21.64	0.988	20.21	0.990	20.78
1.048	19.55	1.058	21.96	1.046	21.43	1.033	21.29	0.971	19.87	0.973	20.40
1.027	19.12	1.040	21.57	1.029	20.99	1.015	20.91	0.954	19.42	0.956	20.03
1.006	18.66	1.022	21.18	1.011	20.56	0.998	20.50	0.937	19.07	0.939	19.66
0.984	18.25	1.005	20.80	0.994	20.15	0.981	20.15	0.920	18.71	0.922	19.28
0.963	17.80	0.987	20.40	0.976	19.87	0.963	19.74	0.903	18.32	0.904	18.87
0.942	17.42	0.969	19.97	0.959	19.49	0.946	19.32	0.886	17.97	0.887	18.44
0.920	16.98	0.952	19.62	0.941	19.07	0.929	18.97	0.869	17.63	0.870	18.23
0.899	16.57	0.934	19.20	0.924	18.66	0.912	18.58	0.852	17.28	0.853	17.75
0.878	16.16	0.916	18.86	0.906	18.28	0.894	18.24	0.835	16.89	0.836	17.52
0.856	15.73	0.898	18.45	0.889	17.93	0.877	17.79	0.817	16.52	0.819	17.07
0.835	15.27	0.881	18.03	0.871	17.53	0.860	17.44	0.800	16.12	0.802	16.62
0.814	14.90	0.863	17.70	0.854	17.08	0.843	17.03	0.783	15.79	0.785	16.25
0.792	14.47	0.845	17.21	0.836	16.69	0.825	16.68	0.766	15.41	0.768	15.83
0.771	14.08	0.827	16.84	0.819	16.29	0.808	16.34	0.749	15.01	0.751	15.46
0.750	13.64	0.810	16.46	0.801	15.97	0.791	15.96	0.732	14.67	0.734	15.10
0.729	13.25	0.792	16.14	0.784	15.59	0.774	15.56	0.715	14.26	0.716	14.80
0.707	12.85	0.774	15.82	0.767	15.19	0.756	15.19	0.698	13.92	0.699	14.47
0.686	12.41	0.756	15.33	0.749	14.87	0.739	14.83	0.681	13.56	0.682	14.06
0.665	12.06	0.739	14.95	0.732	14.45	0.722	14.44	0.664	13.20	0.665	13.71
0.643	11.64	0.721	14.70	0.714	14.11	0.705	14.10	0.647	12.89	0.648	13.35
0.622	11.21	0.703	14.31	0.697	13.76	0.687	13.70	0.630	12.52	0.631	12.99
0.601	10.79	0.685	13.93	0.679	13.36	0.670	13.37	0.613	12.18	0.614	12.63
0.579	10.37	0.668	13.50	0.662	12.98	0.653	12.99	0.596	11.77	0.597	12.20
0.558	9.95	0.650	13.13	0.644	12.62	0.636	12.67	0.579	11.42	0.580	11.85
0.537	9.61	0.632	12.81	0.627	12.26	0.618	12.28	0.562	11.10	0.563	11.49
0.516	9.20	0.614	12.41	0.609	11.89	0.601	11.92	0.545	10.75	0.546	11.13
0.494	8.79	0.597	12.01	0.592	11.49	0.584	11.54	0.528	10.42	0.528	10.92
0.473	8.38	0.579	11.72	0.574	11.18	0.567	11.20	0.511	10.04	0.511	10.44
0.452	7.98	0.561	11.31	0.557	10.79	0.549	10.82	0.494	9.72	0.494	10.11
0.430	7.57	0.544	11.01	0.539	10.46	0.532	10.45	0.477	9.34	0.477	9.75
0.409	7.17	0.526	10.63	0.522	10.04	0.515	10.04	0.460	9.00	0.460	9.38
0.388	6.79	0.508	10.28	0.504	9.71	0.498	9.69	0.443	8.71	0.443	8.99
0.366	6.45	0.490	9.88	0.487	9.33	0.480	9.34	0.425	8.33	0.426	8.64
0.345	6.05	0.473	9.49	0.469	8.97	0.463	9.00	0.408	7.97	0.409	8.27
0.324	5.65	0.455	9.17	0.452	8.61	0.446	8.62	0.391	7.61	0.392	7.94
0.303	5.26	0.437	8.82	0.435	8.30	0.428	8.32	0.374	7.30	0.375	7.61
0.281	4.84	0.419	8.42	0.417	7.92	0.411	7.89	0.357	6.96	0.358	7.21

0.260	4.39	0.402	8.07	0.400	7.57	0.394	7.51	0.340	6.63	0.340	6.85
0.239	4.01	0.384	7.75	0.382	7.21	0.377	7.20	0.323	6.25	0.323	6.57
0.217	3.63	0.366	7.37	0.365	6.85	0.359	6.88	0.306	5.93	0.306	6.24
0.196	3.24	0.348	7.00	0.347	6.51	0.342	6.53	0.289	5.55	0.289	5.78
0.175	2.86	0.331	6.71	0.330	6.11	0.325	6.13	0.272	5.22	0.272	5.47
0.153	2.49	0.313	6.31	0.312	5.73	0.308	5.81	0.255	4.90	0.255	5.15
0.132	2.11	0.295	5.92	0.295	5.42	0.290	5.45	0.238	4.58	0.238	4.85
0.111	1.66	0.277	5.58	0.277	5.12	0.273	5.10	0.221	4.19	0.221	4.43
		0.260	5.21	0.260	4.83	0.256	4.78	0.204	3.87	0.204	4.06
		0.242	4.86	0.242	4.45	0.239	4.43	0.187	3.56	0.187	3.70
		0.224	4.54	0.225	4.07	0.221	4.11	0.170	3.24	0.170	3.37
		0.207	4.14	0.207	3.71	0.204	3.74	0.153	2.91	0.152	3.04
		0.189	3.79	0.190	3.36	0.187	3.40	0.136	2.53		
		0.171	3.48	0.172	3.07	0.170	3.08	0.119	2.21		
		0.153	3.06	0.155	2.72	0.152	2.77	0.102	1.82		
		0.136	2.65	0.137	2.37	0.135	2.37				
		0.118	2.37	0.120	2.05	0.118	2.05				
		0.100	1.98	0.103	1.74	0.101	1.74				

**Table S1 (continued).**  $P\rho T$  experimental data for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures.

$T = 283.15$ K											
$x = 0.8525$		$x = 0.9719$		$x = 0.9809$		$x = 0.9902$		$x = 0.9932$		$x = 0.9961$	
$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )
20.100	808.06	19.984	946.87	20.023	956.64	20.022	969.82	20.145	972.54	20.019	975.62
20.082	807.90	19.965	946.76	20.004	956.82	20.003	969.82	20.126	972.46	20.000	975.54
20.065	807.80	19.947	946.71	19.985	957.03	19.984	969.82	20.106	972.40	19.980	975.46
20.047	807.69	19.928	946.59	19.967	957.23	19.965	969.82	20.087	972.34	19.961	975.45
20.029	807.59	19.910	946.53	19.948	957.39	19.946	969.74	20.068	972.20	19.942	975.25
20.012	807.43	19.892	946.47	19.929	957.48	19.927	969.66	20.048	972.11	19.923	975.36
19.994	807.34	19.873	946.33	19.910	957.56	19.908	969.58	20.029	972.04	19.904	975.22
19.976	807.18	19.855	946.25	19.891	957.56	19.889	969.50	20.010	971.97	19.885	975.14
19.958	807.08	19.836	946.14	19.873	957.57	19.870	969.42	19.990	971.89	19.865	975.02
19.941	806.95	19.818	946.08	19.854	957.57	19.851	969.25	19.971	971.81	19.846	974.93
19.923	806.84	19.799	946.01	19.835	957.57	19.832	969.09	19.952	971.71	19.827	974.85
19.905	806.68	19.781	945.90	19.816	957.49	19.813	968.93	19.932	971.63	19.808	974.77
19.888	806.57	19.762	945.81	19.797	957.41	19.794	968.68	19.913	971.54	19.789	974.67
19.870	806.49	19.744	945.73	19.779	957.38	19.774	968.52	19.894	971.46	19.770	974.59
19.852	806.35	19.726	945.65	19.760	957.35	19.755	968.18	19.874	971.37	19.750	974.51
19.835	806.26	19.707	945.53	19.741	957.16	19.736	968.02	19.855	971.32	19.731	974.42
19.817	806.11	19.689	945.45	19.722	957.10	19.717	967.94	19.836	971.24	19.712	974.32
19.799	805.95	19.670	945.38	19.703	957.14	19.698	967.77	19.816	971.14	19.693	974.24
19.782	805.87	19.652	945.24	19.685	957.05	19.679	967.69	19.797	971.05	19.674	974.16
19.764	805.70	19.633	945.24	19.666	956.99	19.660	967.61	19.778	970.97	19.655	974.08
19.746	805.60	19.615	945.12	19.647	956.81	19.641	967.53	19.758	970.91	19.635	973.99
19.729	805.53	19.596	945.04	19.628	956.77	19.622	967.45	19.739	970.82	19.616	973.92
19.711	805.51	19.578	944.94	19.610	956.75	19.603	967.37	19.720	970.67	19.597	973.75
19.693	805.48	19.559	944.85	19.591	956.65	19.584	967.27	19.700	970.62	19.578	973.67
19.676	805.40	19.541	944.76	19.572	956.51	19.565	967.17	19.681	970.52	19.559	973.59
19.658	805.25	19.523	944.68	19.553	956.43	19.546	967.12	19.662	970.43	19.540	973.53
19.640	805.11	19.504	944.57	19.534	956.44	19.527	966.97	19.642	970.34	19.520	973.43
19.623	804.99	19.486	944.51	19.516	956.34	19.508	966.91	19.623	970.27	19.501	973.36
19.605	804.84	19.467	944.42	19.497	956.24	19.489	966.81	19.604	970.16	19.482	973.27
19.587	804.48	19.449	944.27	19.478	956.16	19.470	966.73	19.584	970.11	19.463	973.17
19.570	804.40	19.430	944.19	19.459	956.11	19.451	966.64	19.565	970.01	19.444	973.10
19.552	804.25	19.412	944.10	19.440	956.01	19.432	966.59	19.546	969.91	19.424	973.02
19.534	804.09	19.393	944.01	19.422	955.91	19.413	966.48	19.526	969.80	19.405	972.94
19.516	804.00	19.375	943.89	19.403	955.80	19.393	966.39	19.507	969.72	19.386	972.86
19.499	803.93	19.357	943.81	19.384	955.70	19.374	966.29	19.488	969.66	19.367	972.75
19.481	803.85	19.338	943.76	19.365	955.67	19.355	966.23	19.468	969.57	19.348	972.66
19.463	803.69	19.320	943.62	19.346	955.55	19.336	966.15	19.449	969.47	19.329	972.56
19.446	803.58	19.301	943.52	19.328	955.50	19.317	965.99	19.430	969.37	19.309	972.51
19.428	803.47	19.283	943.46	19.309	955.38	19.298	965.97	19.410	969.29	19.290	972.40
19.410	803.35	19.264	943.38	19.290	955.30	19.279	965.82	19.391	969.21	19.271	972.29
19.393	803.15	19.246	943.30	19.271	955.18	19.260	965.74	19.372	969.06	19.252	972.18
19.375	803.02	19.227	943.13	19.252	955.14	19.241	965.66	19.352	968.97	19.233	972.11
19.357	802.89	19.209	943.05	19.234	955.03	19.222	965.58	19.333	968.93	19.214	972.02
19.340	802.83	19.190	943.00	19.215	954.90	19.203	965.50	19.314	968.85	19.194	971.97
19.322	802.69	19.172	942.86	19.196	954.88	19.184	965.37	19.294	968.72	19.175	971.81
19.304	802.59	19.154	942.80	19.177	954.77	19.165	965.27	19.275	968.61	19.156	971.74
19.287	802.47	19.135	942.71	19.158	954.73	19.146	965.17	19.256	968.53	19.137	971.70

19.269	802.33	19.117	942.58	19.140	954.63	19.127	965.09	19.236	968.40	19.118	971.61
19.251	802.19	19.098	942.50	19.121	954.51	19.108	964.99	19.217	968.38	19.099	971.48
19.234	802.03	19.080	942.40	19.102	954.39	19.089	964.86	19.198	968.23	19.079	971.41
19.216	801.92	19.061	942.31	19.083	954.34	19.070	964.79	19.178	968.14	19.060	971.34
19.198	801.81	19.043	942.20	19.064	954.24	19.051	964.68	19.159	968.07	19.041	971.23
19.181	801.64	19.024	942.11	19.046	954.11	19.032	964.60	19.139	967.98	19.022	971.15
19.163	801.54	19.006	942.04	19.027	954.07	19.012	964.49	19.120	967.85	19.003	971.08
19.145	801.46	18.988	941.90	19.008	953.97	18.993	964.42	19.101	967.81	18.984	970.94
19.128	801.28	18.969	941.81	18.989	953.92	18.974	964.31	19.081	967.68	18.964	970.88
19.110	801.18	18.951	941.72	18.970	953.82	18.955	964.20	19.062	967.63	18.945	970.75
19.092	801.02	18.932	941.67	18.952	953.69	18.936	964.12	19.043	967.50	18.926	970.67
19.075	800.87	18.914	941.54	18.933	953.62	18.917	964.00	19.023	967.42	18.907	970.60
19.057	800.79	18.895	941.42	18.914	953.53	18.898	963.95	19.004	967.34	18.888	970.47
19.039	800.62	18.877	941.36	18.895	953.41	18.879	963.88	18.985	967.26	18.868	970.38
19.021	800.53	18.858	941.25	18.877	953.35	18.860	963.75	18.965	967.14	18.849	970.31
19.004	800.42	18.840	941.14	18.858	953.26	18.841	963.67	18.946	967.03	18.830	970.18
18.986	800.27	18.821	941.04	18.839	953.14	18.822	963.57	18.927	966.93	18.811	970.14
18.968	800.09	18.803	940.91	18.820	953.06	18.803	963.46	18.907	966.85	18.792	970.04
18.951	800.02	18.785	940.83	18.801	952.98	18.784	963.39	18.888	966.76	18.773	969.95
18.933	799.89	18.766	940.77	18.783	952.87	18.765	963.30	18.869	966.65	18.753	969.82
18.915	799.74	18.748	940.64	18.764	952.81	18.746	963.20	18.849	966.61	18.734	969.76
18.898	799.61	18.729	940.55	18.745	952.72	18.727	963.14	18.830	966.52	18.715	969.61
18.880	799.47	18.711	940.45	18.726	952.60	18.708	963.00	18.811	966.37	18.696	969.54
18.862	799.36	18.692	940.39	18.707	952.46	18.689	962.89	18.791	966.28	18.677	969.46
18.845	799.21	18.674	940.29	18.689	952.43	18.670	962.81	18.772	966.21	18.658	969.38
18.827	799.12	18.655	940.12	18.670	952.30	18.651	962.73	18.753	966.10	18.638	969.31
18.809	798.97	18.637	940.06	18.651	952.17	18.631	962.65	18.733	966.00	18.619	969.18
18.792	798.83	18.619	939.96	18.632	952.13	18.612	962.57	18.714	965.96	18.600	969.11
18.774	798.65	18.600	939.88	18.613	951.99	18.593	962.41	18.695	965.81	18.581	968.95
18.756	798.57	18.582	939.71	18.595	951.95	18.574	962.32	18.675	965.71	18.562	968.89
18.739	798.43	18.563	939.63	18.576	951.82	18.555	962.24	18.656	965.66	18.543	968.81
18.721	798.34	18.545	939.52	18.557	951.77	18.536	962.16	18.637	965.51	18.523	968.68
18.703	798.16	18.526	939.40	18.538	951.68	18.517	962.08	18.617	965.47	18.504	968.63
18.686	798.04	18.508	939.31	18.519	951.58	18.498	961.96	18.598	965.31	18.485	968.53
18.668	797.92	18.489	939.24	18.501	951.51	18.479	961.86	18.579	965.23	18.466	968.43
18.650	797.77	18.471	939.14	18.482	951.40	18.460	961.75	18.559	965.17	18.447	968.30
18.633	797.68	18.452	939.08	18.463	951.28	18.441	961.65	18.540	965.02	18.428	968.22
18.615	797.50	18.434	938.90	18.444	951.19	18.422	961.54	18.521	964.98	18.408	968.13
18.597	797.41	18.416	938.86	18.425	951.07	18.403	961.46	18.501	964.85	18.389	968.05
18.579	797.27	18.397	938.73	18.407	950.96	18.384	961.39	18.482	964.79	18.370	967.91
18.562	797.09	18.379	938.63	18.388	950.89	18.365	961.27	18.463	964.69	18.351	967.82
18.544	797.00	18.360	938.49	18.369	950.77	18.346	961.14	18.443	964.57	18.332	967.74
18.526	796.84	18.342	938.43	18.350	950.72	18.327	961.07	18.424	964.51	18.312	967.66
18.509	796.75	18.323	938.35	18.331	950.59	18.308	960.97	18.405	964.39	18.293	967.58
18.491	796.59	18.305	938.21	18.313	950.50	18.289	960.86	18.385	964.30	18.274	967.44
18.473	796.46	18.286	938.09	18.294	950.41	18.270	960.80	18.366	964.17	18.255	967.35
18.456	796.35	18.268	938.00	18.275	950.29	18.250	960.66	18.347	964.12	18.236	967.25
18.438	796.19	18.250	937.94	18.256	950.23	18.231	960.56	18.327	964.00	18.217	967.16
18.420	796.06	18.231	937.83	18.237	950.09	18.212	960.45	18.308	963.92	18.197	967.06
18.403	795.95	18.213	937.68	18.219	950.01	18.193	960.37	18.289	963.82	18.178	966.96
18.385	795.78	18.194	937.60	18.200	949.91	18.174	960.30	18.269	963.70	18.159	966.87
18.367	795.62	18.176	937.48	18.181	949.77	18.155	960.16	18.250	963.60	18.140	966.79
18.350	795.51	18.157	937.37	18.162	949.72	18.136	960.04	18.231	963.48	18.121	966.67
18.332	795.41	18.139	937.27	18.144	949.67	18.117	959.97	18.211	963.41	18.102	966.58
18.314	795.22	18.120	937.22	18.125	949.52	18.098	959.88	18.192	963.30	18.082	966.50

18.297	795.13	18.102	937.11	18.106	949.44	18.079	959.80	18.173	963.20	18.063	966.38
18.279	795.01	18.083	937.03	18.087	949.34	18.060	959.69	18.153	963.11	18.044	966.30
18.261	794.82	18.065	936.92	18.068	949.21	18.041	959.55	18.134	963.03	18.025	966.22
18.244	794.68	18.047	936.78	18.050	949.16	18.022	959.47	18.114	962.93	18.006	966.08
18.226	794.56	18.028	936.67	18.031	949.03	18.003	959.39	18.095	962.83	17.987	965.97
18.208	794.45	18.010	936.56	18.012	948.97	17.984	959.24	18.076	962.70	17.967	965.91
18.191	794.28	17.991	936.45	17.993	948.85	17.965	959.16	18.056	962.62	17.948	965.82
18.173	794.18	17.973	936.37	17.974	948.79	17.946	959.07	18.037	962.53	17.929	965.67
18.155	794.00	17.954	936.29	17.956	948.66	17.927	958.99	18.018	962.41	17.910	965.59
18.138	793.88	17.936	936.13	17.937	948.55	17.908	958.90	17.998	962.29	17.891	965.50
18.120	793.76	17.917	936.05	17.918	948.47	17.889	958.74	17.979	962.21	17.872	965.38
18.102	793.59	17.899	935.93	17.899	948.38	17.869	958.66	17.960	962.13	17.852	965.29
18.084	793.49	17.881	935.83	17.880	948.27	17.850	958.58	17.940	962.06	17.833	965.20
18.067	793.39	17.862	935.72	17.862	948.21	17.831	958.45	17.921	961.92	17.814	965.12
18.049	793.21	17.844	935.64	17.843	948.08	17.812	958.40	17.902	961.85	17.795	965.03
18.031	793.09	17.825	935.53	17.824	947.96	17.793	958.25	17.882	961.75	17.776	964.95
18.014	792.96	17.807	935.42	17.805	947.89	17.774	958.17	17.863	961.62	17.757	964.85
17.996	792.85	17.788	935.31	17.786	947.76	17.755	958.08	17.844	961.54	17.737	964.72
17.978	792.64	17.770	935.21	17.768	947.67	17.736	957.96	17.824	961.47	17.718	964.61
17.961	792.53	17.751	935.12	17.749	947.57	17.717	957.84	17.805	961.32	17.699	964.50
17.943	792.42	17.733	935.04	17.730	947.50	17.698	957.76	17.786	961.24	17.680	964.43
17.925	792.28	17.715	934.95	17.711	947.37	17.679	957.68	17.766	961.11	17.661	964.31
17.908	792.12	17.696	934.88	17.692	947.27	17.660	957.53	17.747	960.99	17.641	964.23
17.890	791.97	17.678	934.83	17.674	947.20	17.641	957.44	17.728	960.91	17.622	964.14
17.872	791.81	17.659	934.72	17.655	947.09	17.622	957.35	17.708	960.82	17.603	963.99
17.855	791.72	17.641	934.60	17.636	946.95	17.603	957.26	17.689	960.75	17.584	963.92
17.837	791.55	17.622	934.48	17.617	946.91	17.584	957.16	17.670	960.64	17.565	963.78
17.819	791.41	17.604	934.39	17.598	946.84	17.565	957.03	17.650	960.58	17.546	963.69
17.802	791.31	17.585	934.30	17.580	946.69	17.546	956.96	17.631	960.44	17.526	963.61
17.784	791.15	17.567	934.21	17.561	946.57	17.527	956.83	17.612	960.36	17.507	963.50
17.766	790.98	17.548	934.11	17.542	946.48	17.508	956.71	17.592	960.23	17.488	963.46
17.749	790.88	17.530	934.02	17.523	946.42	17.488	956.62	17.573	960.13	17.469	963.31
17.731	790.74	17.512	933.90	17.504	946.27	17.469	956.54	17.554	960.10	17.450	963.21
17.713	790.56	17.493	933.82	17.486	946.19	17.450	956.43	17.534	959.94	17.431	963.12
17.696	790.41	17.475	933.74	17.467	946.08	17.431	956.36	17.515	959.87	17.411	963.01
17.678	790.25	17.456	933.64	17.448	946.00	17.412	956.22	17.496	959.77	17.392	962.93
17.660	790.16	17.438	933.53	17.429	945.90	17.393	956.13	17.476	959.71	17.373	962.82
17.642	790.01	17.419	933.44	17.411	945.80	17.374	956.04	17.457	959.57	17.354	962.70
17.625	789.90	17.401	933.35	17.392	945.68	17.355	955.89	17.438	959.46	17.335	962.61
17.607	789.73	17.382	933.25	17.373	945.59	17.336	955.81	17.418	959.36	17.316	962.51
17.589	789.57	17.364	933.15	17.354	945.44	17.317	955.73	17.399	959.26	17.296	962.41
17.572	789.46	17.346	933.05	17.335	945.37	17.298	955.57	17.380	959.18	17.277	962.29
17.554	789.28	17.327	932.99	17.317	945.29	17.279	955.48	17.360	959.09	17.258	962.20
17.536	789.18	17.309	932.85	17.298	945.16	17.260	955.40	17.341	958.96	17.239	962.10
17.519	789.03	17.290	932.69	17.279	945.09	17.241	955.32	17.322	958.87	17.220	962.00
17.501	788.89	17.272	932.61	17.260	944.93	17.222	955.16	17.302	958.81	17.201	961.89
17.483	788.70	17.253	932.51	17.241	944.83	17.203	955.07	17.283	958.65	17.181	961.79
17.466	788.60	17.235	932.40	17.223	944.75	17.184	954.98	17.264	958.56	17.162	961.69
17.448	788.46	17.216	932.32	17.204	944.63	17.165	954.88	17.244	958.47	17.143	961.57
17.430	788.28	17.198	932.23	17.185	944.56	17.146	954.78	17.225	958.34	17.124	961.50
17.413	788.15	17.179	932.12	17.166	944.48	17.127	954.67	17.206	958.29	17.105	961.37
17.395	788.02	17.161	932.02	17.147	944.32	17.107	954.59	17.186	958.14	17.085	961.28
17.377	787.85	17.143	931.92	17.129	944.23	17.088	954.47	17.167	958.06	17.066	961.14
17.360	787.71	17.124	931.82	17.110	944.13	17.069	954.35	17.148	957.99	17.047	961.05
17.342	787.53	17.106	931.75	17.091	944.03	17.050	954.27	17.128	957.82	17.028	960.97



17.324	787.40	17.087	931.61	17.072	943.93	17.031	954.18	17.109	957.75	17.009	960.90
17.307	787.24	17.069	931.52	17.053	943.82	17.012	954.07	17.089	957.65	16.990	960.76
17.289	787.15	17.050	931.43	17.035	943.74	16.993	953.97	17.070	957.57	16.970	960.69
17.271	786.99	17.032	931.30	17.016	943.61	16.974	953.85	17.051	957.41	16.951	960.59
17.254	786.83	17.013	931.19	16.997	943.50	16.955	953.77	17.031	957.33	16.932	960.48
17.236	786.67	16.995	931.08	16.978	943.39	16.936	953.66	17.012	957.21	16.913	960.40
17.218	786.51	16.977	930.97	16.959	943.33	16.917	953.53	16.993	957.14	16.894	960.25
17.201	786.41	16.958	930.86	16.941	943.19	16.898	953.44	16.973	957.03	16.875	960.19
17.183	786.26	16.940	930.71	16.922	943.10	16.879	953.36	16.954	956.94	16.855	960.09
17.165	786.10	16.921	930.67	16.903	943.01	16.860	953.21	16.935	956.84	16.836	960.00
17.147	785.93	16.903	930.60	16.884	942.89	16.841	953.12	16.915	956.72	16.817	959.83
17.130	785.80	16.884	930.46	16.865	942.79	16.822	953.04	16.896	956.63	16.798	959.78
17.112	785.61	16.866	930.33	16.847	942.66	16.803	952.96	16.877	956.53	16.779	959.67
17.094	785.49	16.847	930.26	16.828	942.60	16.784	952.80	16.857	956.45	16.760	959.57
17.077	785.37	16.829	930.19	16.809	942.44	16.765	952.71	16.838	956.31	16.740	959.46
17.059	785.18	16.810	930.06	16.790	942.39	16.746	952.63	16.819	956.21	16.721	959.39
17.041	785.04	16.792	929.91	16.771	942.25	16.726	952.54	16.799	956.10	16.702	959.24
17.024	784.88	16.774	929.81	16.753	942.18	16.707	952.38	16.780	956.02	16.683	959.14
17.006	784.69	16.755	929.74	16.734	942.09	16.688	952.30	16.761	955.88	16.664	959.02
16.988	784.01	16.737	929.65	16.715	941.98	16.669	952.14	16.741	955.80	16.645	958.97
16.971	783.57	16.718	929.53	16.696	941.87	16.650	952.06	16.722	955.67	16.625	958.82
16.953	783.44	16.700	929.40	16.678	941.70	16.631	951.98	16.703	955.62	16.606	958.72
16.935	783.34	16.681	929.27	16.659	941.62	16.612	951.90	16.683	955.53	16.587	958.63
16.918	783.15	16.663	929.20	16.640	941.55	16.593	951.77	16.664	955.37	16.568	958.49
16.900	783.03	16.644	929.12	16.621	941.43	16.574	951.65	16.645	955.28	16.549	958.43
16.882	782.89	16.626	928.99	16.602	941.34	16.555	951.57	16.625	955.16	16.530	958.33
16.865	782.69	16.608	928.86	16.584	941.18	16.536	951.49	16.606	955.02	16.510	958.20
16.847	782.59	16.589	928.76	16.565	941.11	16.517	951.35	16.587	954.94	16.491	958.12
16.829	782.51	16.571	928.65	16.546	941.02	16.498	951.24	16.567	954.85	16.472	958.01
16.812	782.38	16.552	928.57	16.527	940.88	16.479	951.09	16.548	954.72	16.453	957.88
16.794	782.22	16.534	928.46	16.508	940.80	16.460	951.02	16.529	954.64	16.434	957.78
16.776	782.10	16.515	928.34	16.490	940.71	16.441	950.93	16.509	954.54	16.414	957.67
16.759	781.97	16.497	928.20	16.471	940.56	16.422	950.81	16.490	954.44	16.395	957.55
16.741	781.81	16.478	928.10	16.452	940.47	16.403	950.71	16.471	954.31	16.376	957.47
16.723	781.70	16.460	928.02	16.433	940.38	16.384	950.59	16.451	954.18	16.357	957.37
16.705	781.57	16.441	927.93	16.414	940.24	16.365	950.51	16.432	954.08	16.338	957.26
16.688	781.40	16.423	927.81	16.396	940.12	16.345	950.41	16.413	953.98	16.319	957.15
16.670	781.30	16.405	927.69	16.377	940.04	16.326	950.26	16.393	953.89	16.299	957.04
16.652	781.11	16.386	927.57	16.358	939.91	16.307	950.18	16.374	953.81	16.280	956.91
16.635	781.00	16.368	927.47	16.339	939.81	16.288	950.08	16.355	953.70	16.261	956.82
16.617	780.86	16.349	927.39	16.320	939.68	16.269	949.94	16.335	953.55	16.242	956.73
16.599	780.71	16.331	927.28	16.302	939.62	16.250	949.84	16.316	953.42	16.223	956.62
16.582	780.56	16.312	927.13	16.283	939.49	16.231	949.73	16.297	953.33	16.204	956.49
16.564	780.41	16.294	926.99	16.264	939.41	16.212	949.61	16.277	953.28	16.184	956.39
16.546	780.28	16.275	926.92	16.245	939.32	16.193	949.53	16.258	953.15	16.165	956.33
16.529	780.10	16.257	926.84	16.226	939.21	16.174	949.40	16.239	953.03	16.146	956.19
16.511	779.99	16.239	926.67	16.208	939.03	16.155	949.29	16.219	952.92	16.127	956.07
16.493	779.85	16.220	926.60	16.189	938.96	16.136	949.16	16.200	952.83	16.108	956.00
16.476	779.69	16.202	926.52	16.170	938.88	16.117	949.04	16.181	952.73	16.089	955.88
16.458	779.58	16.183	926.42	16.151	938.75	16.098	948.99	16.161	952.55	16.069	955.76
16.440	779.42	16.165	926.26	16.132	938.67	16.079	948.88	16.142	952.52	16.050	955.62
16.423	779.26	16.146	926.17	16.114	938.57	16.060	948.74	16.123	952.35	16.031	955.51
16.405	779.11	16.128	926.02	16.095	938.40	16.041	948.63	16.103	952.26	16.012	955.43
16.387	778.96	16.109	925.93	16.076	938.33	16.022	948.52	16.084	952.16	15.993	955.35
16.370	778.84	16.091	925.83	16.057	938.20	16.003	948.39	16.064	952.03	15.974	955.26

16.352	778.64	16.072	925.68	16.038	938.14	15.984	948.31	16.045	951.88	15.954	955.14
16.334	778.51	16.054	925.56	16.020	938.04	15.964	948.23	16.026	951.85	15.935	954.99
16.317	778.34	16.036	925.43	16.001	937.93	15.945	948.07	16.006	951.70	15.916	954.88
16.299	778.19	16.017	925.34	15.982	937.81	15.926	947.98	15.987	951.56	15.897	954.78
16.281	778.05	15.999	925.25	15.963	937.68	15.907	947.89	15.968	951.46	15.878	954.66
16.264	777.88	15.980	925.16	15.945	937.60	15.888	947.77	15.948	951.34	15.858	954.54
16.246	777.73	15.962	925.05	15.926	937.47	15.869	947.66	15.929	951.26	15.839	954.44
16.228	777.60	15.943	924.94	15.907	937.38	15.850	947.58	15.910	951.17	15.820	954.37
16.210	777.39	15.925	924.81	15.888	937.22	15.831	947.41	15.890	951.03	15.801	954.22
16.193	777.27	15.906	924.67	15.869	937.13	15.812	947.33	15.871	950.92	15.782	954.13
16.175	777.14	15.888	924.58	15.851	937.04	15.793	947.18	15.852	950.83	15.763	954.02
16.157	776.96	15.870	924.50	15.832	936.92	15.774	947.14	15.832	950.72	15.743	953.95
16.140	776.80	15.851	924.37	15.813	936.78	15.755	947.00	15.813	950.56	15.724	953.80
16.122	776.68	15.833	924.19	15.794	936.73	15.736	946.92	15.794	950.48	15.705	953.70
16.104	776.47	15.814	924.09	15.775	936.59	15.717	946.76	15.774	950.40	15.686	953.61
16.087	776.34	15.796	924.00	15.757	936.51	15.698	946.68	15.755	950.23	15.667	953.51
16.069	776.21	15.777	923.91	15.738	936.41	15.679	946.52	15.736	950.11	15.648	953.39
16.051	775.99	15.759	923.73	15.719	936.24	15.660	946.43	15.716	950.01	15.628	953.28
16.034	775.85	15.740	923.65	15.700	936.15	15.641	946.32	15.697	949.91	15.609	953.15
16.016	775.71	15.722	923.56	15.681	936.03	15.622	946.19	15.678	949.85	15.590	953.07
15.998	775.56	15.704	923.43	15.663	935.94	15.603	946.10	15.658	949.69	15.571	952.94
15.981	775.36	15.685	923.31	15.644	935.84	15.583	946.03	15.639	949.60	15.552	952.82
15.963	775.22	15.667	923.22	15.625	935.70	15.564	945.86	15.620	949.44	15.533	952.74
15.945	775.00	15.648	923.07	15.606	935.62	15.545	945.78	15.600	949.32	15.513	952.59
15.928	774.86	15.630	922.95	15.587	935.45	15.526	945.64	15.581	949.25	15.494	952.51
15.910	774.71	15.611	922.87	15.569	935.37	15.507	945.54	15.562	949.17	15.475	952.38
15.892	774.56	15.593	922.68	15.550	935.26	15.488	945.45	15.542	949.03	15.456	952.26
15.875	774.41	15.574	922.58	15.531	935.18	15.469	945.32	15.523	948.86	15.437	952.17
15.857	774.25	15.556	922.49	15.512	935.02	15.450	945.25	15.504	948.75	15.418	952.04
15.839	774.04	15.537	922.35	15.493	934.94	15.431	945.13	15.484	948.65	15.398	951.96
15.822	773.88	15.519	922.21	15.475	934.86	15.412	944.99	15.465	948.53	15.379	951.84
15.804	773.73	15.501	922.11	15.456	934.69	15.393	944.88	15.446	948.43	15.360	951.75
15.786	773.57	15.482	922.02	15.437	934.61	15.374	944.76	15.426	948.33	15.341	951.61
15.768	773.42	15.464	921.86	15.418	934.49	15.355	944.64	15.407	948.23	15.322	951.52
15.751	773.26	15.445	921.74	15.399	934.38	15.336	944.56	15.388	948.08	15.302	951.43
15.733	773.11	15.427	921.65	15.381	934.29	15.317	944.41	15.368	947.97	15.283	951.27
15.715	772.95	15.408	921.55	15.362	934.19	15.298	944.31	15.349	947.90	15.264	951.18
15.698	772.74	15.390	921.45	15.343	934.04	15.279	944.22	15.330	947.80	15.245	951.10
15.680	772.59	15.371	921.36	15.324	933.92	15.260	944.07	15.310	947.66	15.226	950.94
15.662	772.44	15.353	921.20	15.305	933.83	15.241	943.99	15.291	947.50	15.207	950.86
15.645	772.24	15.335	921.07	15.287	933.75	15.222	943.87	15.272	947.43	15.187	950.70
15.627	772.05	15.316	920.98	15.268	933.59	15.202	943.79	15.252	947.28	15.168	950.62
15.609	771.89	15.298	920.81	15.249	933.48	15.183	943.69	15.233	947.18	15.149	950.53
15.592	771.74	15.279	920.70	15.230	933.38	15.164	943.60	15.214	947.05	15.130	950.37
15.574	771.60	15.261	920.60	15.212	933.25	15.145	943.42	15.194	946.91	15.111	950.28
15.556	771.43	15.242	920.50	15.193	933.14	15.126	943.33	15.175	946.85	15.092	950.20
15.539	771.27	15.224	920.39	15.174	933.05	15.107	943.21	15.156	946.69	15.072	950.10
15.521	771.10	15.205	920.29	15.155	932.92	15.088	943.11	15.136	946.63	15.053	949.97
15.503	770.93	15.187	920.16	15.136	932.82	15.069	943.02	15.117	946.48	15.034	949.83
15.486	770.76	15.168	919.99	15.118	932.65	15.050	942.91	15.098	946.40	15.015	949.69
15.468	770.58	15.150	919.85	15.099	932.57	15.031	942.79	15.078	946.26	14.996	949.56
15.450	770.35	15.132	919.71	15.080	932.48	15.012	942.65	15.059	946.14	14.977	949.48
15.433	770.22	15.113	919.59	15.061	932.37	14.993	942.56	15.039	946.01	14.957	949.39
15.415	770.06	15.095	919.49	15.042	932.27	14.974	942.44	15.020	945.91	14.938	949.30
15.397	769.87	15.076	919.37	15.024	932.10	14.955	942.36	15.001	945.83	14.919	949.14

15.380	769.69	15.058	919.26	15.005	931.98	14.936	942.24	14.981	945.72	14.900	949.05
15.362	769.51	15.039	919.15	14.986	931.90	14.917	942.10	14.962	945.55	14.881	948.90
15.344	769.35	15.021	919.04	14.967	931.76	14.898	942.00	14.943	945.42	14.862	948.82
15.327	769.18	15.002	918.85	14.948	931.64	14.879	941.91	14.923	945.34	14.842	948.74
15.309	769.01	14.984	918.78	14.930	931.52	14.860	941.80	14.904	945.21	14.823	948.58
15.291	768.83	14.966	918.60	14.911	931.46	14.841	941.67	14.885	945.10	14.804	948.50
15.273	768.65	14.947	918.59	14.892	931.36	14.822	941.56	14.865	945.00	14.785	948.34
15.256	768.48	14.929	918.48	14.873	931.18	14.802	941.44	14.846	944.89	14.766	948.25
15.238	768.30	14.910	918.36	14.854	931.11	14.783	941.32	14.827	944.73	14.747	948.16
15.220	768.14	14.892	918.21	14.836	930.98	14.764	941.20	14.807	944.60	14.727	948.03
15.203	767.96	14.873	918.04	14.817	930.89	14.745	941.09	14.788	944.52	14.708	947.94
15.185	767.77	14.855	917.92	14.798	930.79	14.726	941.05	14.769	944.43	14.689	947.76
15.167	767.59	14.836	917.81	14.779	930.67	14.707	940.94	14.749	944.29	14.670	947.67
15.150	767.41	14.818	917.70	14.760	930.49	14.688	940.82	14.730	944.16	14.651	947.54
15.132	767.31	14.799	917.56	14.742	930.39	14.669	940.70	14.711	944.08	14.631	947.44
15.114	767.05	14.781	917.44	14.723	930.31	14.650	940.58	14.691	943.92	14.612	947.35
15.097	766.88	14.763	917.33	14.704	930.17	14.631	940.47	14.672	943.80	14.593	947.19
15.079	766.70	14.744	917.21	14.685	930.05	14.612	940.36	14.653	943.68	14.574	947.11
15.061	766.56	14.726	917.09	14.666	929.93	14.593	940.23	14.633	943.60	14.555	947.00
15.044	766.41	14.707	916.97	14.648	929.81	14.574	940.12	14.614	943.46	14.536	946.86
15.026	766.22	14.689	916.85	14.629	929.70	14.555	940.01	14.595	943.33	14.516	946.74
15.008	766.03	14.670	916.74	14.610	929.55	14.536	939.88	14.575	943.19	14.497	946.62
14.991	765.83	14.652	916.63	14.591	929.47	14.517	939.77	14.556	943.11	14.478	946.51
14.973	765.66	14.633	916.50	14.572	929.37	14.498	939.65	14.537	942.97	14.459	946.40
14.955	765.47	14.615	916.34	14.554	929.22	14.479	939.53	14.517	942.86	14.440	946.29
14.938	765.33	14.597	916.19	14.535	929.10	14.460	939.42	14.498	942.72	14.421	946.20
14.920	765.16	14.578	916.06	14.516	928.97	14.441	939.28	14.479	942.64	14.401	946.03
14.902	764.95	14.560	915.93	14.497	928.83	14.421	939.16	14.459	942.48	14.382	945.90
14.885	764.76	14.541	915.83	14.479	928.77	14.402	939.05	14.440	942.40	14.363	945.80
14.867	764.62	14.523	915.76	14.460	928.65	14.383	938.99	14.421	942.23	14.344	945.67
14.849	764.44	14.504	915.57	14.441	928.49	14.364	938.81	14.401	942.15	14.325	945.56
14.831	764.24	14.486	915.48	14.422	928.44	14.345	938.71	14.382	942.04	14.306	945.46
14.814	764.11	14.467	915.34	14.403	928.33	14.326	938.63	14.363	941.92	14.286	945.31
14.796	763.92	14.449	915.18	14.385	928.23	14.307	938.49	14.343	941.81	14.267	945.21
14.778	763.70	14.430	915.09	14.366	928.09	14.288	938.37	14.324	941.66	14.248	945.09
14.761	763.51	14.412	914.94	14.347	927.93	14.269	938.23	14.305	941.58	14.229	944.99
14.743	763.38	14.394	914.82	14.328	927.84	14.250	938.09	14.285	941.39	14.210	944.88
14.725	763.17	14.375	914.69	14.309	927.76	14.231	937.97	14.266	941.28	14.191	944.74
14.708	763.05	14.357	914.56	14.291	927.64	14.212	937.92	14.247	941.17	14.171	944.61
14.690	762.83	14.338	914.44	14.272	927.50	14.193	937.79	14.227	941.08	14.152	944.50
14.672	762.62	14.320	914.31	14.253	927.42	14.174	937.65	14.208	940.93	14.133	944.38
14.655	762.48	14.301	914.18	14.234	927.26	14.155	937.52	14.189	940.81	14.114	944.25
14.637	762.30	14.283	914.05	14.215	927.19	14.136	937.40	14.169	940.68	14.095	944.17
14.619	762.09	14.264	913.90	14.197	927.05	14.117	937.27	14.150	940.60	14.075	944.03
14.602	761.95	14.246	913.86	14.178	926.89	14.098	937.14	14.131	940.48	14.056	943.93
14.584	761.74	14.228	913.71	14.159	926.82	14.079	937.05	14.111	940.35	14.037	943.76
14.566	761.59	14.209	913.58	14.140	926.72	14.060	936.94	14.092	940.18	14.018	943.63
14.549	761.38	14.191	913.44	14.121	926.59	14.040	936.81	14.073	940.07	13.999	943.53
14.531	761.18	14.172	913.31	14.103	926.49	14.021	936.68	14.053	939.95	13.980	943.39
14.513	760.98	14.154	913.18	14.084	926.35	14.002	936.54	14.034	939.87	13.960	943.27
14.496	760.83	14.135	913.05	14.065	926.21	13.983	936.44	14.014	939.72	13.941	943.15
14.478	760.61	14.117	912.93	14.046	926.12	13.964	936.34	13.995	939.56	13.922	943.08
14.460	760.47	14.098	912.81	14.027	926.01	13.945	936.20	13.976	939.48	13.903	942.90
14.443	760.25	14.080	912.69	14.009	925.88	13.926	936.06	13.956	939.38	13.884	942.78
14.425	760.10	14.061	912.54	13.990	925.72	13.907	935.93	13.937	939.22	13.865	942.62

14.407	759.88	14.043	912.39	13.971	925.64	13.888	935.83	13.918	939.11	13.845	942.56
14.390	759.74	14.025	912.26	13.952	925.48	13.869	935.73	13.898	938.99	13.826	942.40
14.372	759.53	14.006	912.12	13.933	925.39	13.850	935.59	13.879	938.91	13.807	942.30
14.354	759.37	13.988	912.03	13.915	925.23	13.831	935.45	13.860	938.79	13.788	942.16
14.336	759.20	13.969	911.89	13.896	925.13	13.812	935.32	13.840	938.62	13.769	942.10
14.319	758.98	13.951	911.79	13.877	925.05	13.793	935.16	13.821	938.48	13.750	941.97
14.301	758.77	13.932	911.68	13.858	924.89	13.774	935.09	13.802	938.36	13.730	941.85
14.283	758.61	13.914	911.52	13.839	924.79	13.755	934.96	13.782	938.25	13.711	941.70
14.266	758.38	13.895	911.37	13.821	924.64	13.736	934.82	13.763	938.16	13.692	941.56
14.248	758.23	13.877	911.22	13.802	924.54	13.717	934.72	13.744	938.02	13.673	941.46
14.230	758.07	13.859	911.09	13.783	924.42	13.698	934.61	13.724	937.86	13.654	941.31
14.213	757.84	13.840	911.00	13.764	924.28	13.679	934.47	13.705	937.77	13.635	941.15
14.195	757.65	13.822	910.86	13.746	924.17	13.659	934.33	13.686	937.64	13.615	941.07
14.177	757.50	13.803	910.77	13.727	924.02	13.640	934.19	13.666	937.50	13.596	940.99
14.160	757.28	13.785	910.60	13.708	923.93	13.621	934.05	13.647	937.36	13.577	940.84
14.142	757.11	13.766	910.49	13.689	923.83	13.602	933.97	13.628	937.27	13.558	940.74
14.124	756.94	13.748	910.34	13.670	923.66	13.583	933.78	13.608	937.18	13.539	940.62
14.107	756.69	13.729	910.19	13.652	923.52	13.564	933.71	13.589	937.06	13.520	940.45
14.089	756.52	13.711	910.04	13.633	923.38	13.545	933.56	13.570	936.91	13.500	940.33
14.071	756.35	13.692	909.97	13.614	923.32	13.526	933.44	13.550	936.77	13.481	940.22
14.054	756.17	13.674	909.82	13.595	923.19	13.507	933.36	13.531	936.66	13.462	940.11
14.036	755.91	13.656	909.67	13.576	923.06	13.488	933.21	13.512	936.52	13.443	939.93
14.018	755.75	13.637	909.57	13.558	922.91	13.469	933.06	13.492	936.41	13.424	939.84
14.001	755.59	13.619	909.46	13.539	922.79	13.450	932.91	13.473	936.30	13.404	939.69
13.983	755.36	13.600	909.33	13.520	922.70	13.431	932.81	13.454	936.18	13.385	939.60
13.965	755.20	13.582	909.18	13.501	922.54	13.412	932.69	13.434	936.03	13.366	939.43
13.948	754.99	13.563	909.03	13.482	922.40	13.393	932.55	13.415	935.91	13.347	939.34
13.930	754.80	13.545	908.87	13.464	922.29	13.374	932.48	13.396	935.78	13.328	939.20
13.912	754.64	13.526	908.81	13.445	922.18	13.355	932.34	13.376	935.64	13.309	939.06
13.894	754.40	13.508	908.65	13.426	922.06	13.336	932.18	13.357	935.54	13.289	938.94
13.877	754.24	13.490	908.52	13.407	921.88	13.317	932.04	13.338	935.38	13.270	938.81
13.859	754.00	13.471	908.41	13.388	921.80	13.298	931.94	13.318	935.29	13.251	938.70
13.841	753.85	13.453	908.26	13.370	921.65	13.278	931.81	13.299	935.13	13.232	938.55
13.824	753.60	13.434	908.08	13.351	921.55	13.259	931.66	13.280	935.05	13.213	938.45
13.806	753.43	13.416	907.99	13.332	921.41	13.240	931.51	13.260	934.89	13.194	938.33
13.788	753.20	13.397	907.85	13.313	921.31	13.221	931.42	13.241	934.78	13.174	938.20
13.771	753.02	13.379	907.67	13.294	921.21	13.202	931.27	13.222	934.66	13.155	938.11
13.753	752.83	13.360	907.58	13.276	921.03	13.183	931.12	13.202	934.54	13.136	937.96
13.735	752.65	13.342	907.44	13.257	920.94	13.164	931.02	13.183	934.39	13.117	937.80
13.718	752.42	13.324	907.27	13.238	920.77	13.145	930.88	13.164	934.24	13.098	937.67
13.700	752.19	13.305	907.21	13.219	920.67	13.126	930.78	13.144	934.17	13.079	937.57
13.682	751.99	13.287	907.03	13.200	920.54	13.107	930.64	13.125	933.97	13.059	937.46
13.665	751.81	13.268	906.94	13.182	920.41	13.088	930.47	13.106	933.90	13.040	937.29
13.647	751.57	13.250	906.78	13.163	920.29	13.069	930.37	13.086	933.75	13.021	937.16
13.629	751.38	13.231	906.62	13.144	920.17	13.050	930.22	13.067	933.64	13.002	937.06
13.612	751.16	13.213	906.53	13.125	920.01	13.031	930.09	13.047	933.53	12.983	936.97
13.594	751.00	13.194	906.37	13.106	919.93	13.012	929.98	13.028	933.42	12.964	936.82
13.576	750.81	13.176	906.21	13.088	919.74	12.993	929.81	13.009	933.31	12.944	936.65
13.559	750.59	13.157	906.12	13.069	919.60	12.974	929.68	12.989	933.18	12.925	936.54
13.541	750.37	13.139	905.94	13.050	919.50	12.955	929.57	12.970	933.07	12.906	936.41
13.523	750.18	13.121	905.86	13.031	919.35	12.936	929.47	12.951	932.95	12.887	936.28
13.506	749.94	13.102	905.68	13.013	919.26	12.917	929.32	12.931	932.83	12.868	936.17
13.488	749.77	13.084	905.58	12.994	919.12	12.897	929.18	12.912	932.72	12.848	936.00
13.470	749.55	13.065	905.40	12.975	919.01	12.878	929.06	12.893	932.61	12.829	935.92
13.453	749.35	13.047	905.23	12.956	918.86	12.859	928.93	12.873	932.49	12.810	935.78

13.435	749.13	13.028	905.13	12.937	918.73	12.840	928.73	12.854	932.37	12.791	935.67
13.417	748.92	13.010	905.04	12.919	918.62	12.821	928.64	12.835	932.19	12.772	935.53
13.399	748.71	12.991	904.87	12.900	918.43	12.802	928.47	12.815	932.04	12.753	935.37
13.382	748.50	12.973	904.75	12.881	918.30	12.783	928.38	12.796	931.92	12.733	935.27
13.364	748.30	12.955	904.57	12.862	918.20	12.764	928.21	12.777	931.81	12.714	935.14
13.346	748.08	12.936	904.46	12.843	918.08	12.745	928.12	12.757	931.68	12.695	935.02
13.329	747.86	12.918	904.29	12.825	917.97	12.726	927.96	12.738	931.56	12.676	934.91
13.311	747.66	12.899	904.16	12.806	917.85	12.707	927.84	12.719	931.43	12.657	934.75
13.293	747.44	12.881	904.03	12.787	917.69	12.688	927.67	12.699	931.30	12.638	934.61
13.276	747.22	12.862	903.93	12.768	917.58	12.669	927.57	12.680	931.17	12.618	934.46
13.258	747.00	12.844	903.74	12.749	917.49	12.650	927.48	12.661	931.05	12.599	934.33
13.240	746.80	12.825	903.61	12.731	917.39	12.631	927.29	12.641	930.93	12.580	934.20
13.223	746.59	12.807	903.52	12.712	917.28	12.612	927.20	12.622	930.81	12.561	934.11
13.205	746.41	12.788	903.34	12.693	917.11	12.593	927.04	12.603	930.69	12.542	933.96
13.187	746.17	12.770	903.23	12.674	916.98	12.574	926.92	12.583	930.56	12.523	933.85
13.170	745.94	12.752	903.06	12.655	916.87	12.555	926.74	12.564	930.45	12.503	933.71
13.152	745.70	12.733	902.91	12.637	916.77	12.536	926.61	12.545	930.33	12.484	933.58
13.134	745.49	12.715	902.78	12.618	916.63	12.516	926.45	12.525	930.21	12.465	933.40
13.117	745.28	12.696	902.61	12.599	916.47	12.497	926.35	12.506	930.04	12.446	933.31
13.099	745.05	12.678	902.49	12.580	916.36	12.478	926.26	12.487	929.91	12.427	933.14
13.081	744.86	12.659	902.35	12.561	916.24	12.459	926.08	12.467	929.75	12.408	932.99
13.064	744.62	12.641	902.23	12.543	916.13	12.440	925.96	12.448	929.62	12.388	932.90
13.046	744.42	12.622	902.06	12.524	916.01	12.421	925.79	12.429	929.50	12.369	932.73
13.028	744.21	12.604	901.95	12.505	915.89	12.402	925.67	12.409	929.37	12.350	932.65
13.011	743.99	12.586	901.78	12.486	915.74	12.383	925.49	12.390	929.24	12.331	932.49
12.993	743.79	12.567	901.65	12.467	915.57	12.364	925.38	12.371	929.12	12.312	932.35
12.975	743.56	12.549	901.55	12.449	915.44	12.345	925.24	12.351	928.99	12.292	932.19
12.957	743.33	12.530	901.37	12.430	915.33	12.326	925.14	12.332	928.87	12.273	932.08
12.940	743.09	12.512	901.22	12.411	915.18	12.307	924.98	12.313	928.73	12.254	931.94
12.922	742.87	12.493	901.11	12.392	915.03	12.288	924.79	12.293	928.60	12.235	931.80
12.904	742.68	12.475	900.97	12.373	914.98	12.269	924.73	12.274	928.47	12.216	931.67
12.887	742.44	12.456	900.78	12.355	914.78	12.250	924.56	12.255	928.34	12.197	931.54
12.869	742.19	12.438	900.64	12.336	914.71	12.231	924.39	12.235	928.21	12.177	931.40
12.851	742.00	12.419	900.49	12.317	914.53	12.212	924.31	12.216	928.08	12.158	931.29
12.834	741.79	12.401	900.37	12.298	914.41	12.193	924.13	12.197	927.95	12.139	931.17
12.816	741.54	12.383	900.25	12.280	914.30	12.174	923.99	12.177	927.81	12.120	930.99
12.798	741.34	12.364	900.07	12.261	914.17	12.155	923.84	12.158	927.67	12.101	930.87
12.781	741.13	12.346	899.91	12.242	914.05	12.135	923.71	12.139	927.54	12.082	930.76
12.763	740.88	12.327	899.80	12.223	913.92	12.116	923.59	12.119	927.40	12.062	930.61
12.745	740.68	12.309	899.66	12.204	913.75	12.097	923.44	12.100	927.26	12.043	930.44
12.728	740.45	12.290	899.50	12.186	913.59	12.078	923.27	12.081	927.14	12.024	930.36
12.710	740.20	12.272	899.36	12.167	913.46	12.059	923.15	12.061	927.01	12.005	930.20
12.692	739.97	12.253	899.25	12.148	913.35	12.040	923.02	12.042	926.87	11.986	930.05
12.675	739.75	12.235	899.09	12.129	913.22	12.021	922.91	12.022	926.73	11.967	929.95
12.657	739.51	12.217	898.92	12.110	913.09	12.002	922.76	12.003	926.60	11.947	929.78
12.639	739.26	12.198	898.83	12.092	912.96	11.983	922.57	11.984	926.46	11.928	929.67
12.622	739.01	12.180	898.68	12.073	912.83	11.964	922.43	11.964	926.32	11.909	929.55
12.604	738.82	12.161	898.48	12.054	912.70	11.945	922.30	11.945	926.19	11.890	929.38
12.586	738.53	12.143	898.35	12.035	912.58	11.926	922.21	11.926	926.06	11.871	929.22
12.569	738.36	12.124	898.19	12.016	912.44	11.907	922.06	11.906	925.91	11.852	929.14
12.551	738.12	12.106	898.08	11.998	912.31	11.888	921.87	11.887	925.78	11.832	928.97
12.533	737.86	12.087	897.92	11.979	912.09	11.869	921.74	11.868	925.58	11.813	928.84
12.515	737.63	12.069	897.80	11.960	912.05	11.850	921.61	11.848	925.52	11.794	928.73
12.498	737.38	12.050	897.62	11.941	911.86	11.831	921.46	11.829	925.38	11.775	928.56
12.480	737.14	12.032	897.45	11.922	911.69	11.812	921.32	11.810	925.25	11.756	928.40

12.462	736.89	12.014	897.33	11.904	911.55	11.793	921.18	11.790	925.03	11.737	928.32
12.445	736.65	11.995	897.16	11.885	911.42	11.774	921.03	11.771	924.95	11.717	928.16
12.427	736.40	11.977	897.02	11.866	911.30	11.754	920.89	11.752	924.75	11.698	927.99
12.409	736.16	11.958	896.86	11.847	911.17	11.735	920.75	11.732	924.68	11.679	927.91
12.392	735.92	11.940	896.72	11.828	911.03	11.716	920.62	11.713	924.51	11.660	927.75
12.374	735.70	11.921	896.58	11.810	910.86	11.697	920.47	11.694	924.34	11.641	927.58
12.356	735.47	11.903	896.44	11.791	910.76	11.678	920.35	11.674	924.21	11.621	927.50
12.339	735.26	11.884	896.22	11.772	910.61	11.659	920.24	11.655	924.08	11.602	927.33
12.321	735.03	11.866	896.12	11.753	910.47	11.640	920.05	11.636	923.93	11.583	927.17
12.303	734.85	11.848	895.97	11.734	910.34	11.621	919.89	11.616	923.81	11.564	927.09
12.286	734.56	11.829	895.79	11.716	910.19	11.602	919.74	11.597	923.68	11.545	926.92
12.268	734.35	11.811	895.68	11.697	910.04	11.583	919.67	11.578	923.55	11.526	926.82
12.250	734.04	11.792	895.57	11.678	909.90	11.564	919.51	11.558	923.38	11.506	926.72
12.233	733.80	11.774	895.34	11.659	909.77	11.545	919.37	11.539	923.29	11.487	926.54
12.215	733.57	11.755	895.22	11.640	909.61	11.526	919.23	11.520	923.07	11.468	926.42
12.197	733.31	11.737	895.08	11.622	909.47	11.507	919.09	11.500	922.94	11.449	926.29
12.180	733.06	11.718	894.92	11.603	909.32	11.488	918.95	11.481	922.82	11.430	926.17
12.162	732.78	11.700	894.80	11.584	909.17	11.469	918.83	11.462	922.68	11.411	926.02
12.144	732.52	11.681	894.64	11.565	909.03	11.450	918.76	11.442	922.54	11.391	925.89
12.127	732.28	11.663	894.46	11.547	908.87	11.431	918.60	11.423	922.41	11.372	925.76
12.109	732.03	11.645	894.30	11.528	908.72	11.412	918.47	11.404	922.28	11.353	925.64
12.091	731.92	11.626	894.15	11.509	908.65	11.393	918.33	11.384	922.14	11.334	925.52
12.074	731.80	11.608	894.02	11.490	908.42	11.373	918.19	11.365	922.00	11.315	925.38
12.056	731.59	11.589	893.84	11.471	908.34	11.354	918.03	11.346	921.87	11.296	925.23
12.038	731.38	11.571	893.73	11.453	908.19	11.335	917.89	11.326	921.72	11.276	925.11
12.020	731.09	11.552	893.58	11.434	908.03	11.316	917.75	11.307	921.59	11.257	924.97
12.003	730.86	11.534	893.42	11.415	907.88	11.297	917.59	11.288	921.46	11.238	924.83
11.985	730.61	11.515	893.25	11.396	907.72	11.278	917.46	11.268	921.31	11.219	924.69
11.967	730.42	11.497	893.11	11.377	907.56	11.259	917.36	11.249	921.10	11.200	924.56
11.950	730.15	11.479	892.93	11.359	907.40	11.240	917.15	11.230	920.95	11.181	924.42
11.932	729.89	11.460	892.79	11.340	907.29	11.221	917.03	11.210	920.82	11.161	924.30
11.914	729.70	11.442	892.68	11.321	907.16	11.202	916.92	11.191	920.66	11.142	924.13
11.897	729.42	11.423	892.46	11.302	907.00	11.183	916.76	11.172	920.52	11.123	923.99
11.879	729.18	11.405	892.38	11.283	906.81	11.164	916.61	11.152	920.38	11.104	923.85
11.861	728.93	11.386	892.26	11.265	906.69	11.145	916.45	11.133	920.22	11.085	923.68
11.844	728.66	11.368	892.14	11.246	906.57	11.126	916.34	11.114	920.08	11.065	923.57
11.826	728.44	11.349	892.03	11.227	906.39	11.107	916.20	11.094	919.93	11.046	923.42
11.808	728.23	11.331	891.92	11.208	906.22	11.088	916.05	11.075	919.81	11.027	923.27
11.791	727.97	11.313	891.78	11.189	906.13	11.069	915.90	11.056	919.67	11.008	923.12
11.773	727.73	11.294	891.62	11.171	905.95	11.050	915.73	11.036	919.53	10.989	923.01
11.755	727.44	11.276	891.46	11.152	905.78	11.031	915.65	11.017	919.34	10.970	922.84
11.738	727.23	11.257	891.29	11.133	905.62	11.012	915.48	10.997	919.23	10.950	922.72
11.720	726.97	11.239	891.17	11.114	905.46	10.992	915.34	10.978	919.11	10.931	922.55
11.702	726.63	11.220	891.04	11.095	905.37	10.973	915.17	10.959	918.87	10.912	922.44
11.685	726.38	11.202	890.90	11.077	905.21	10.954	914.99	10.939	918.79	10.893	922.27
11.667	726.07	11.183	890.77	11.058	905.05	10.935	914.92	10.920	918.59	10.874	922.12
11.649	725.87	11.165	890.64	11.039	904.87	10.916	914.73	10.901	918.50	10.855	922.00
11.632	725.52	11.146	890.52	11.020	904.76	10.897	914.58	10.881	918.35	10.835	921.86
11.614	725.26	11.128	890.38	11.001	904.62	10.878	914.40	10.862	918.19	10.816	921.70
11.596	724.94	11.110	890.21	10.983	904.45	10.859	914.31	10.843	918.04	10.797	921.55
11.578	724.67	11.091	890.07	10.964	904.27	10.840	914.13	10.823	917.86	10.778	921.38
11.561	724.34	11.073	889.94	10.945	904.16	10.821	913.98	10.804	917.72	10.759	921.23
11.543	724.09	11.054	889.81	10.926	904.00	10.802	913.85	10.785	917.55	10.740	921.13
11.525	723.77	11.036	889.65	10.907	903.83	10.783	913.66	10.765	917.40	10.720	920.96
11.508	723.46	11.017	889.47	10.889	903.66	10.764	913.56	10.746	917.30	10.701	920.82

11.490	723.22	10.999	889.29	10.870	903.55	10.745	913.35	10.727	917.07	10.682	920.70
11.472	722.98	10.980	889.15	10.851	903.39	10.726	913.26	10.707	916.98	10.663	920.52
11.455	722.65	10.962	889.02	10.832	903.18	10.707	913.06	10.688	916.81	10.644	920.37
11.437	722.38	10.944	888.88	10.814	903.08	10.688	912.96	10.669	916.65	10.625	920.21
11.419	722.09	10.925	888.71	10.795	902.89	10.669	912.77	10.649	916.49	10.605	920.06
11.402	721.76	10.907	888.59	10.776	902.78	10.650	912.66	10.630	916.33	10.586	919.89
11.384	721.40	10.888	888.47	10.757	902.63	10.631	912.45	10.611	916.20	10.567	919.80
11.366	721.14	10.870	888.21	10.738	902.48	10.611	912.34	10.591	916.01	10.548	919.62
11.349	720.83	10.851	888.15	10.720	902.29	10.592	912.15	10.572	915.89	10.529	919.47
11.331	720.51	10.833	888.00	10.701	902.11	10.573	912.06	10.553	915.72	10.510	919.33
11.313	720.25	10.814	887.81	10.682	901.99	10.554	911.87	10.533	915.55	10.490	919.17
11.296	719.94	10.796	887.63	10.663	901.87	10.535	911.75	10.514	915.45	10.471	919.03
11.278	719.63	10.777	887.57	10.644	901.67	10.516	911.59	10.495	915.28	10.452	918.91
11.260	719.37	10.759	887.36	10.626	901.55	10.497	911.44	10.475	915.11	10.433	918.69
11.243	719.01	10.741	887.19	10.607	901.36	10.478	911.22	10.456	914.94	10.414	918.59
11.225	718.76	10.722	887.09	10.588	901.25	10.459	911.12	10.437	914.76	10.394	918.42
11.207	718.47	10.704	886.95	10.569	901.05	10.440	910.99	10.417	914.62	10.375	918.26
11.190	718.14	10.685	886.81	10.550	900.93	10.421	910.78	10.398	914.49	10.356	918.10
11.172	717.90	10.667	886.62	10.532	900.72	10.402	910.65	10.379	914.32	10.337	917.97
11.154	717.63	10.648	886.47	10.513	900.60	10.383	910.52	10.359	914.15	10.318	917.82
11.137	717.33	10.630	886.32	10.494	900.44	10.364	910.33	10.340	913.98	10.299	917.61
11.119	717.00	10.611	886.17	10.475	900.27	10.345	910.14	10.321	913.87	10.279	917.47
11.101	716.69	10.593	885.99	10.456	900.14	10.326	910.02	10.301	913.71	10.260	917.37
11.083	716.43	10.575	885.81	10.438	899.92	10.307	909.87	10.282	913.52	10.241	917.19
11.066	716.10	10.556	885.63	10.419	899.80	10.288	909.70	10.263	913.39	10.222	917.04
11.048	715.83	10.538	885.47	10.400	899.67	10.269	909.58	10.243	913.24	10.203	916.92
11.030	715.53	10.519	885.32	10.381	899.46	10.250	909.43	10.224	913.07	10.184	916.78
11.013	715.21	10.501	885.18	10.362	899.35	10.230	909.24	10.205	912.87	10.164	916.57
10.995	714.88	10.482	885.07	10.344	899.17	10.211	909.08	10.185	912.77	10.145	916.40
10.977	714.56	10.464	884.89	10.325	899.00	10.192	908.95	10.166	912.56	10.126	916.25
10.960	714.31	10.445	884.65	10.306	898.88	10.173	908.79	10.147	912.41	10.107	916.14
10.942	714.03	10.427	884.47	10.287	898.74	10.154	908.63	10.127	912.28	10.088	915.99
10.924	713.72	10.408	884.33	10.268	898.54	10.135	908.50	10.108	912.07	10.069	915.84
10.907	713.46	10.390	884.21	10.250	898.40	10.116	908.28	10.089	911.96	10.049	915.69
10.889	713.09	10.372	884.04	10.231	898.27	10.097	908.16	10.069	911.77	10.030	915.48
10.871	712.76	10.353	883.85	10.212	898.06	10.078	907.96	10.050	911.65	10.011	915.32
10.854	712.43	10.335	883.69	10.193	897.92	10.059	907.80	10.031	911.45	9.992	915.20
10.836	712.11	10.316	883.55	10.174	897.77	10.040	907.64	10.011	911.31	9.973	914.99
10.818	711.86	10.298	883.42	10.156	897.54	10.021	907.51	9.992	911.13	9.954	914.84
10.801	711.54	10.279	883.25	10.137	897.40	10.002	907.34	9.972	911.02	9.934	914.68
10.783	711.21	10.261	883.08	10.118	897.24	9.983	907.18	9.953	910.82	9.915	914.56
10.765	710.88	10.242	882.91	10.099	897.09	9.964	906.99	9.934	910.62	9.896	914.40
10.748	710.56	10.224	882.72	10.081	896.95	9.945	906.85	9.914	910.50	9.877	914.25
10.730	710.31	10.206	882.53	10.062	896.80	9.926	906.71	9.895	910.31	9.858	914.09
10.712	709.99	10.187	882.35	10.043	896.63	9.907	906.50	9.876	910.19	9.838	913.94
10.695	709.66	10.169	882.18	10.024	896.43	9.888	906.32	9.856	910.01	9.819	913.76
10.677	709.33	10.150	882.03	10.005	896.31	9.869	906.21	9.837	909.80	9.800	913.62
10.659	709.09	10.132	881.80	9.987	896.11	9.850	906.06	9.818	909.68	9.781	913.44
10.641	708.79	10.113	881.61	9.968	895.91	9.830	905.89	9.798	909.49	9.762	913.29
10.624	708.44	10.095	881.51	9.949	895.75	9.811	905.70	9.779	909.36	9.743	913.16
10.606	708.13	10.076	881.36	9.930	895.62	9.792	905.55	9.760	909.22	9.723	912.98
10.588	707.84	10.058	881.19	9.911	895.46	9.773	905.36	9.740	909.03	9.704	912.78
10.571	707.53	10.039	880.99	9.893	895.27	9.754	905.18	9.721	908.89	9.685	912.67
10.553	707.18	10.021	880.87	9.874	895.14	9.735	905.04	9.702	908.67	9.666	912.52
10.535	706.88	10.003	880.63	9.855	895.02	9.716	904.88	9.682	908.53	9.647	912.35

10.518	706.56	9.984	880.41	9.836	894.83	9.697	904.69	9.663	908.40	9.628	912.17
10.500	706.24	9.966	880.27	9.817	894.67	9.678	904.50	9.644	908.19	9.608	912.01
10.482	705.91	9.947	880.12	9.799	894.51	9.659	904.36	9.624	908.06	9.589	911.83
10.465	705.50	9.929	879.95	9.780	894.29	9.640	904.19	9.605	907.91	9.570	911.66
10.447	705.09	9.910	879.75	9.761	894.15	9.621	904.04	9.586	907.75	9.551	911.48
10.429	704.77	9.892	879.54	9.742	894.00	9.602	903.85	9.566	907.55	9.532	911.32
10.412	704.44	9.873	879.33	9.723	893.81	9.583	903.71	9.547	907.41	9.513	911.18
10.394	704.12	9.855	879.20	9.705	893.62	9.564	903.54	9.528	907.23	9.493	911.04
10.376	703.74	9.837	879.01	9.686	893.52	9.545	903.34	9.508	907.04	9.474	910.87
10.359	703.38	9.818	878.81	9.667	893.35	9.526	903.20	9.489	906.91	9.455	910.65
10.341	702.97	9.800	878.62	9.648	893.14	9.507	903.04	9.470	906.72	9.436	910.55
10.323	702.56	9.781	878.43	9.629	892.97	9.488	902.88	9.450	906.59	9.417	910.38
10.306	702.20	9.763	878.23	9.611	892.87	9.469	902.69	9.431	906.40	9.398	910.20
10.288	701.75	9.744	878.04	9.592	892.67	9.449	902.53	9.412	906.21	9.378	910.00
10.270	701.42	9.726	877.83	9.573	892.56	9.430	902.31	9.392	906.06	9.359	909.83
10.253	701.10	9.707	877.70	9.554	892.42	9.411	902.19	9.373	905.90	9.340	909.68
10.235	700.77	9.689	877.51	9.535	892.29	9.392	902.03	9.354	905.72	9.321	909.51
10.217	700.36	9.670	877.33	9.517	892.11	9.373	901.84	9.334	905.60	9.302	909.34
10.200	699.89	9.652	877.14	9.498	891.95	9.354	901.68	9.315	905.37	9.282	909.26
10.182	699.55	9.634	876.92	9.479	891.84	9.335	901.50	9.296	905.21	9.263	909.07
10.164	699.21	9.615	876.74	9.460	891.65	9.316	901.33	9.276	905.05	9.244	908.85
10.146	698.81	9.597	876.54	9.441	891.51	9.297	901.16	9.257	904.93	9.225	908.69
10.129	698.48	9.578	876.38	9.423	891.32	9.278	900.99	9.238	904.73	9.206	908.53
10.111	698.09	9.560	876.17	9.404	891.16	9.259	900.83	9.218	904.56	9.187	908.36
10.093	697.75	9.541	876.01	9.385	891.01	9.240	900.63	9.199	904.39	9.167	908.22
10.076	697.43	9.523	875.75	9.366	890.87	9.221	900.47	9.180	904.23	9.148	908.05
10.058	697.02	9.504	875.55	9.348	890.66	9.202	900.32	9.160	904.07	9.129	907.86
10.040	696.69	9.486	875.32	9.329	890.54	9.183	900.15	9.141	903.90	9.110	907.71
10.023	696.37	9.468	875.16	9.310	890.38	9.164	899.93	9.122	903.72	9.091	907.53
10.005	695.96	9.449	874.97	9.291	890.18	9.145	899.78	9.102	903.54	9.072	907.38
9.987	695.55	9.431	874.81	9.272	890.06	9.126	899.59	9.083	903.41	9.052	907.22
9.970	695.14	9.412	874.58	9.254	889.89	9.107	899.44	9.064	903.18	9.033	907.05
9.952	694.79	9.394	874.42	9.235	889.76	9.088	899.28	9.044	903.06	9.014	906.88
9.934	694.41	9.375	874.16	9.216	889.57	9.068	899.09	9.025	902.85	8.995	906.68
9.917	694.08	9.357	873.98	9.197	889.40	9.049	898.92	9.006	902.72	8.976	906.51
9.899	693.65	9.338	873.78	9.178	889.21	9.030	898.77	8.986	902.49	8.957	906.37
9.881	693.19	9.320	873.62	9.160	889.16	9.011	898.54	8.967	902.35	8.937	906.18
9.864	692.76	9.302	873.44	9.141	888.92	8.992	898.38	8.947	902.18	8.918	905.99
9.846	692.37	9.283	873.21	9.122	888.77	8.973	898.19	8.928	902.05	8.899	905.85
9.828	691.96	9.265	873.04	9.103	888.62	8.954	898.03	8.909	901.83	8.880	905.67
9.811	691.55	9.246	872.86	9.084	888.37	8.935	897.86	8.889	901.61	8.861	905.50
9.793	691.15	9.228	872.67	9.066	888.25	8.916	897.69	8.870	901.50	8.842	905.32
9.775	690.75	9.209	872.42	9.047	888.05	8.897	897.48	8.851	901.37	8.822	905.15
9.758	690.32	9.191	872.20	9.028	887.91	8.878	897.31	8.831	901.12	8.803	904.92
9.740	689.92	9.172	872.00	9.009	887.72	8.859	897.10	8.812	900.96	8.784	904.79
9.722	689.52	9.154	871.80	8.990	887.59	8.840	896.94	8.793	900.77	8.765	904.65
9.704	689.13	9.135	871.58	8.972	887.44	8.821	896.74	8.773	900.63	8.746	904.45
9.687	688.77	9.117	871.39	8.953	887.19	8.802	896.58	8.754	900.49	8.727	904.27
9.669	688.31	9.099	871.19	8.934	887.11	8.783	896.39	8.735	900.30	8.707	904.10
9.651	687.88	9.080	871.03	8.915	886.91	8.764	896.21	8.715	900.08	8.688	903.92
9.634	687.48	9.062	870.80	8.896	886.70	8.745	896.02	8.696	899.96	8.669	903.76
9.616	686.99	9.043	870.58	8.878	886.57	8.726	895.87	8.677	899.74	8.650	903.53
9.598	686.58	9.025	870.35	8.859	886.39	8.707	895.72	8.657	899.53	8.631	903.37
9.581	686.12	9.006	870.13	8.840	886.19	8.687	895.50	8.638	899.37	8.611	903.20
9.563	685.68	8.988	869.97	8.821	886.01	8.668	895.27	8.619	899.21	8.592	902.99



9.545	685.19	8.969	869.73	8.802	885.87	8.649	895.10	8.599	899.04	8.573	902.85
9.528	684.70	8.951	869.57	8.784	885.73	8.630	894.97	8.580	898.87	8.554	902.63
9.510	684.14	8.933	869.40	8.765	885.55	8.611	894.78	8.561	898.68	8.535	902.47
9.492	683.64	8.914	869.20	8.746	885.34	8.592	894.61	8.541	898.46	8.516	902.30
9.475	683.23	8.896	868.99	8.727	885.13	8.573	894.37	8.522	898.27	8.496	902.07
9.457	682.73	8.877	868.78	8.708	884.99	8.554	894.20	8.503	898.10	8.477	901.89
9.439	682.34	8.859	868.55	8.690	884.81	8.535	894.00	8.483	897.90	8.458	901.73
9.422	681.85	8.840	868.37	8.671	884.59	8.516	893.82	8.464	897.76	8.439	901.57
9.404	681.44	8.822	868.17	8.652	884.44	8.497	893.63	8.445	897.55	8.420	901.40
9.386	680.97	8.803	867.93	8.633	884.21	8.478	893.46	8.425	897.35	8.401	901.24
9.369	680.62	8.785	867.75	8.615	884.05	8.459	893.25	8.406	897.17	8.381	900.99
9.351	680.19	8.766	867.49	8.596	883.81	8.440	893.06	8.387	897.03	8.362	900.83
9.333	679.81	8.748	867.27	8.577	883.65	8.421	892.89	8.367	896.78	8.343	900.66
9.316	679.39	8.730	867.08	8.558	883.47	8.402	892.73	8.348	896.68	8.324	900.47
9.298	678.90	8.711	866.85	8.539	883.29	8.383	892.49	8.329	896.46	8.305	900.26
9.280	678.34	8.693	866.65	8.521	883.12	8.364	892.35	8.309	896.25	8.286	900.13
9.263	677.86	8.674	866.40	8.502	882.94	8.345	892.15	8.290	896.11	8.266	899.91
9.245	677.44	8.656	866.20	8.483	882.69	8.326	891.96	8.271	895.90	8.247	899.74
9.227	676.96	8.637	865.99	8.464	882.50	8.306	891.78	8.251	895.72	8.228	899.52
9.209	676.50	8.619	865.79	8.445	882.31	8.287	891.59	8.232	895.54	8.209	899.35
9.192	675.65	8.600	865.62	8.427	882.12	8.268	891.35	8.213	895.33	8.190	899.17
9.174	675.16	8.582	865.37	8.408	881.95	8.249	891.18	8.193	895.11	8.171	898.94
9.156	675.02	8.564	865.12	8.389	881.77	8.230	891.01	8.174	894.96	8.151	898.78
9.139	674.84	8.545	864.95	8.370	881.58	8.211	890.86	8.155	894.78	8.132	898.62
9.121	674.53	8.527	864.72	8.351	881.33	8.192	890.68	8.135	894.57	8.113	898.39
9.103	674.18	8.508	864.49	8.333	881.21	8.173	890.50	8.116	894.41	8.094	898.21
9.086	673.76	8.490	864.29	8.314	881.01	8.154	890.28	8.097	894.21	8.075	898.02
9.068	673.32	8.471	864.14	8.295	880.82	8.135	890.14	8.077	894.00	8.055	897.82
9.050	672.91	8.453	863.86	8.276	880.62	8.116	889.92	8.058	893.75	8.036	897.63
9.033	672.49	8.434	863.71	8.257	880.41	8.097	889.74	8.039	893.60	8.017	897.44
9.015	672.03	8.416	863.47	8.239	880.23	8.078	889.56	8.019	893.37	7.998	897.27
8.997	671.59	8.397	863.28	8.220	880.04	8.059	889.40	8.000	893.19	7.979	897.06
8.980	671.18	8.379	863.05	8.201	879.83	8.040	889.15	7.981	892.99	7.960	896.89
8.962	670.67	8.361	862.81	8.182	879.61	8.021	888.98	7.961	892.75	7.940	896.67
8.944	670.28	8.342	862.61	8.163	879.38	8.002	888.81	7.942	892.55	7.921	896.49
8.927	669.85	8.324	862.35	8.145	879.25	7.983	888.62	7.922	892.36	7.902	896.32
8.909	669.36	8.305	862.14	8.126	879.05	7.964	888.44	7.903	892.16	7.883	896.10
8.891	668.92	8.287	861.95	8.107	878.85	7.945	888.22	7.884	891.96	7.864	895.93
8.874	668.38	8.268	861.69	8.088	878.64	7.925	888.06	7.864	891.76	7.845	895.73
8.856	667.93	8.250	861.45	8.069	878.42	7.906	887.81	7.845	891.54	7.825	895.50
8.838	667.44	8.231	861.23	8.051	878.25	7.887	887.66	7.826	891.37	7.806	895.34
8.821	666.91	8.213	861.04	8.032	877.97	7.868	887.44	7.806	891.12	7.787	895.18
8.803	666.42	8.195	860.80	8.013	877.80	7.849	887.24	7.787	890.92	7.768	894.93
8.785	665.88	8.176	860.65	7.994	877.56	7.830	887.05	7.768	890.72	7.749	894.77
8.767	665.43	8.158	860.40	7.975	877.40	7.811	886.86	7.748	890.47	7.730	894.55
8.750	664.93	8.139	860.22	7.957	877.15	7.792	886.61	7.729	890.26	7.710	894.37
8.732	664.35	8.121	860.00	7.938	876.97	7.773	886.42	7.710	890.08	7.691	894.19
8.714	663.82	8.102	859.76	7.919	876.83	7.754	886.26	7.690	889.81	7.672	893.95
8.697	663.27	8.084	859.53	7.900	876.52	7.735	886.00	7.671	889.65	7.653	893.78
8.679	662.72	8.065	859.38	7.882	876.36	7.716	885.83	7.652	889.40	7.634	893.54
8.661	662.14	8.047	859.07	7.863	876.14	7.697	885.60	7.632	889.16	7.615	893.37
8.644	661.57	8.028	858.89	7.844	875.96	7.678	885.38	7.613	888.99	7.595	893.21
8.626	660.98	8.010	858.66	7.825	875.68	7.659	885.19	7.594	888.75	7.576	893.05
8.608	660.35	7.992	858.41	7.806	875.57	7.640	885.00	7.574	888.54	7.557	892.80
8.591	659.70	7.973	858.22	7.788	875.35	7.621	884.81	7.555	888.33	7.538	892.64

8.573	659.00	7.955	858.01	7.769	875.10	7.602	884.54	7.536	888.15	7.519	892.39
8.555	658.43	7.936	857.82	7.750	874.86	7.583	884.36	7.516	887.93	7.500	892.23
8.538	657.71	7.918	857.61	7.731	874.67	7.564	884.13	7.497	887.68	7.480	892.05
8.520	657.09	7.899	857.34	7.712	874.45	7.544	883.93	7.478	887.45	7.461	891.82
8.502	656.44	7.881	857.12	7.694	874.26	7.525	883.74	7.458	887.28	7.442	891.60
8.485	655.81	7.862	856.89	7.675	873.98	7.506	883.56	7.439	887.21	7.423	891.41
8.467	655.07	7.844	856.70	7.656	873.84	7.487	883.31	7.420	886.98	7.404	891.22
8.449	654.40	7.826	856.47	7.637	873.59	7.468	883.11	7.400	886.87	7.384	891.00
8.432	653.63	7.807	856.36	7.618	873.36	7.449	882.90	7.381	886.67	7.365	890.83
8.414	652.82	7.789	856.25	7.600	873.14	7.430	882.65	7.362	886.46	7.346	890.59
8.396	652.06	7.770	856.14	7.581	872.96	7.411	882.51	7.342	886.29	7.327	890.42
8.379	651.19	7.752	856.03	7.562	872.73	7.392	882.29	7.323	886.10	7.308	890.24
8.361	650.42	7.733	855.92	7.543	872.53	7.373	882.13	7.304	885.92	7.289	890.01
8.343	649.56	7.715	855.80	7.524	872.28	7.354	881.84	7.284	885.72	7.269	889.81
8.326	648.67	7.696	855.64	7.506	872.08	7.335	881.66	7.265	885.55	7.250	889.60
8.308	647.74	7.678	855.29	7.487	871.84	7.316	881.42	7.246	885.36	7.231	889.36
8.290	646.89	7.659	854.94	7.468	871.63	7.297	881.27	7.226	885.13	7.212	889.19
8.272	645.92	7.641	854.67	7.449	871.40	7.278	881.00	7.207	884.94	7.193	888.95
8.255	645.06	7.623	854.43	7.430	871.18	7.259	880.82	7.188	884.80	7.174	888.79
8.237	644.17	7.604	854.25	7.412	871.02	7.240	880.62	7.168	884.57	7.154	888.58
8.219	643.35	7.586	854.06	7.393	870.75	7.221	880.40	7.149	884.42	7.135	888.38
8.202	642.43	7.567	853.86	7.374	870.56	7.202	880.17	7.130	884.20	7.116	888.13
8.184	641.51	7.549	853.61	7.355	870.37	7.183	880.02	7.110	883.97	7.097	887.93
8.166	640.48	7.530	853.36	7.336	870.14	7.163	879.78	7.091	883.78	7.078	887.72
8.149	639.47	7.512	853.21	7.318	869.87	7.144	879.51	7.072	883.57	7.059	887.56
8.131	638.44	7.493	852.98	7.299	869.70	7.125	879.31	7.052	883.41	7.039	887.31
8.113	637.48	7.475	852.77	7.280	869.45	7.106	879.09	7.033	883.15	7.020	887.15
8.096	636.51	7.457	852.51	7.261	869.24	7.087	878.88	7.014	882.93	7.001	886.90
8.078	635.42	7.438	852.37	7.242	869.02	7.068	878.65	6.994	882.70	6.982	886.73
8.060	634.47	7.420	852.15	7.224	868.79	7.049	878.40	6.975	882.50	6.963	886.49
8.043	633.47	7.401	851.85	7.205	868.52	7.030	878.22	6.956	882.29	6.944	886.24
8.025	632.49	7.383	851.64	7.186	868.34	7.011	877.97	6.936	882.10	6.924	886.06
8.007	631.16	7.364	851.38	7.167	868.07	6.992	877.74	6.917	881.84	6.905	885.83
7.990	629.84	7.346	851.13	7.149	867.89	6.973	877.52	6.897	881.60	6.886	885.59
7.972	627.91	7.327	850.72	7.130	867.65	6.954	877.29	6.878	881.38	6.867	885.35
7.954	625.55	7.309	850.31	7.111	867.41	6.935	877.06	6.859	881.17	6.848	885.18
7.937	622.46	7.291	849.97	7.092	867.18	6.916	876.92	6.839	880.97	6.828	884.93
7.919	620.19	7.272	849.65	7.073	866.92	6.897	876.68	6.820	880.72	6.809	884.74
7.901	617.77	7.254	849.32	7.055	866.71	6.878	876.48	6.801	880.50	6.790	884.52
7.884	615.34	7.235	849.12	7.036	866.42	6.859	876.27	6.781	880.31	6.771	884.28
7.866	613.35	7.217	848.83	7.017	866.02	6.840	876.06	6.762	880.03	6.752	884.11
7.848	611.65	7.198	848.59	6.998	865.76	6.821	875.85	6.743	879.78	6.733	883.87
7.830	610.33	7.180	848.30	6.979	865.43	6.802	875.65	6.723	879.59	6.713	883.62
7.813	609.86	7.161	848.10	6.961	865.10	6.782	875.40	6.704	879.33	6.694	883.42
5.781	171.06	7.143	847.85	6.942	864.78	6.763	875.22	6.685	879.07	6.675	883.21
5.762	169.60	7.124	847.66	6.923	864.45	6.744	874.99	6.665	878.85	6.656	882.97
5.743	168.21	7.106	847.44	6.904	864.20	6.725	874.80	6.646	878.18	6.637	882.72
5.724	166.89	7.088	847.21	6.885	863.96	6.706	874.56	6.627	877.85	6.618	882.56
5.705	165.63	7.069	846.97	6.867	863.79	6.687	874.40	6.607	877.52	6.598	882.31
5.686	164.37	7.051	846.73	6.848	863.62	6.668	874.14	6.588	877.27	6.579	881.99
5.667	163.09	7.032	846.51	6.829	863.39	6.649	873.96	6.569	876.78	6.560	881.82
5.648	161.89	7.014	846.21	6.810	863.24	6.630	873.66	6.549	876.45	6.541	881.65
5.629	160.67	6.995	845.97	6.791	863.06	6.611	873.50	6.530	876.22	6.522	881.49
5.610	159.48	6.977	845.72	6.773	862.90	6.592	873.25	6.511	876.04	6.503	881.24
5.591	158.28	6.958	845.47	6.754	862.74	6.573	872.98	6.491	875.80	6.483	881.05

5.572	157.16	6.940	845.23	6.735	862.57	6.554	872.80	6.472	875.63	6.464	880.83
5.553	156.03	6.922	844.98	6.716	862.32	6.535	872.59	6.453	875.40	6.445	880.61
5.534	154.84	6.903	844.77	6.697	862.16	6.516	872.31	6.433	875.22	6.426	880.48
5.515	153.74	6.885	844.52	6.679	862.00	6.497	872.09	6.414	874.99	6.407	880.18
5.496	152.65	6.866	844.32	6.660	861.78	6.478	871.89	6.395	874.76	6.388	880.01
5.477	151.56	6.848	844.10	6.641	861.61	6.459	871.67	6.375	874.57	6.368	879.77
5.458	150.52	6.829	843.92	6.622	861.39	6.440	871.36	6.356	874.35	6.349	879.52
5.439	149.45	6.811	843.66	6.603	861.21	6.421	871.10	6.337	874.19	6.330	879.37
5.420	148.37	6.792	843.40	6.585	860.99	6.401	870.88	6.317	873.92	6.311	879.11
5.401	147.40	6.774	843.18	6.566	860.80	6.382	870.67	6.298	873.70	6.292	878.90
5.382	146.32	6.755	842.99	6.547	860.59	6.363	870.43	6.279	873.46	6.273	878.70
5.363	145.28	6.737	842.67	6.528	860.40	6.344	870.17	6.259	873.26	6.253	878.46
5.344	144.32	6.719	842.45	6.509	860.16	6.325	869.93	6.240	873.02	6.234	878.25
5.325	143.30	6.700	842.26	6.491	859.95	6.306	869.20	6.221	872.80	6.215	878.05
5.306	142.37	6.682	841.97	6.472	859.74	6.287	869.19	6.201	872.58	6.196	877.85
5.287	141.37	6.663	841.72	6.453	859.55	6.268	868.86	6.182	872.29	6.177	877.62
5.268	140.36	6.645	841.52	6.434	859.33	6.249	868.47	6.163	872.11	6.157	877.46
5.249	139.42	6.626	841.26	6.416	859.12	6.230	868.43	6.143	871.84	6.138	877.22
5.230	138.50	6.608	840.96	6.397	858.91	6.211	868.10	6.124	871.63	6.119	877.07
5.211	137.58	6.589	840.75	6.378	858.68	6.192	867.90	6.105	871.39	6.100	876.83
5.192	136.63	6.571	840.44	6.359	858.42	6.173	867.61	6.085	871.20	6.081	876.59
5.173	135.70	6.553	840.18	6.340	858.23	6.154	867.32	6.066	870.90	6.062	876.35
5.154	134.80	6.534	839.91	6.322	857.96	6.135	867.09	6.047	870.68	6.042	876.21
5.136	133.87	6.516	839.66	6.303	857.79	6.116	866.89	6.027	870.46	6.023	875.97
5.117	132.96	6.497	839.41	6.284	857.54	6.097	866.64	6.008	870.22	6.004	875.74
5.098	132.16	6.479	839.08	6.265	857.33	6.078	866.42	5.989	870.02	5.985	875.50
5.079	131.40	6.460	838.81	6.246	857.10	6.059	866.12	5.969	869.73	5.966	875.29
5.060	130.47	6.442	838.58	6.228	856.81	6.040	865.89	5.950	869.49	5.947	875.07
5.041	129.67	6.423	838.27	6.209	856.64	6.020	865.65	5.930	869.27	5.927	874.86
5.022	128.79	6.405	838.01	6.190	856.35	6.001	865.44	5.911	869.07	5.908	874.59
5.003	127.93	6.386	837.74	6.171	856.19	5.982	865.19	5.892	868.80	5.889	874.38
4.984	127.07	6.368	837.46	6.152	855.92	5.963	864.98	5.872	868.58	5.870	874.18
4.965	126.23	6.350	837.21	6.134	855.73	5.944	864.81	5.853	868.30	5.851	873.98
4.946	125.43	6.331	836.92	6.115	855.49	5.925	864.57	5.834	868.11	5.832	873.72
4.927	124.55	6.313	836.63	6.096	855.19	5.906	864.31	5.814	867.82	5.812	873.47
4.908	123.73	6.294	836.30	6.077	854.99	5.887	864.10	5.795	867.59	5.793	873.21
4.889	122.93	6.276	836.02	6.058	854.75	5.868	863.89	5.776	867.35	5.774	873.05
4.870	122.13	6.257	835.78	6.040	854.57	5.849	863.69	5.756	867.08	5.755	872.80
4.851	121.34	6.239	835.48	6.021	854.33	5.830	863.48	5.737	866.87	5.736	872.59
4.832	120.52	6.220	835.27	6.002	854.06	5.811	863.26	5.718	866.54	5.717	872.33
4.813	119.71	6.202	834.96	5.983	853.81	5.792	863.00	5.698	866.29	5.697	872.11
4.794	118.94	6.184	834.72	5.964	853.57	5.773	862.80	5.679	866.04	5.678	871.84
4.775	118.18	6.165	834.39	5.946	853.29	5.754	862.55	5.660	865.80	5.659	871.66
4.756	117.37	6.147	834.16	5.927	853.10	5.735	862.42	5.640	865.55	5.640	871.37
4.737	116.63	6.128	833.83	5.908	852.85	5.716	862.19	5.621	865.25	5.621	871.19
4.718	115.89	6.110	833.58	5.889	852.65	5.697	861.95	5.602	865.04	5.601	870.98
4.699	115.10	6.091	833.31	5.870	852.37	5.678	861.69	5.582	864.77	5.582	870.74
4.680	114.32	6.073	833.05	5.852	852.08	5.659	861.45	5.563	864.48	5.563	870.53
4.661	113.61	6.054	832.78	5.833	851.87	5.639	861.23	5.544	864.22	5.544	870.22
4.642	112.85	6.036	832.44	5.814	851.67	5.620	860.89	5.524	863.95	5.525	870.04
4.623	112.12	6.017	832.20	5.795	851.41	5.601	860.73	5.505	863.67	5.506	869.72
4.604	111.36	5.999	831.85	5.776	851.12	5.582	860.49	5.486	863.39	5.486	869.51
4.585	110.67	5.981	831.58	5.758	850.91	5.563	860.25	5.466	862.89	5.467	869.26
4.566	109.94	5.962	830.72	5.739	850.73	5.544	860.01	5.447	861.86	5.448	868.99
4.547	109.24	5.944	830.79	5.720	850.38	5.525	859.74	5.428	861.69	5.429	868.73

4.528	108.53	5.925	829.94	5.701	850.18	5.506	859.50	5.408	862.02	5.410	868.50
4.509	107.81	5.907	829.31	5.683	849.94	5.487	859.29	5.389	861.22	5.391	868.28
4.490	107.12	5.888	828.99	5.664	849.39	5.468	858.85	5.370	861.35	5.371	867.96
4.471	106.38	5.870	828.28	5.645	849.14	5.449	858.64	5.350	860.62	5.352	867.69
4.452	105.69	5.851	827.93	5.626	848.83	5.430	858.45	5.331	860.38	5.333	867.41
4.434	104.98	5.833	827.52	5.607	848.90	5.411	858.16	5.312	860.24	5.314	867.22
4.415	104.32	5.815	827.19	5.589	848.23	5.392	857.87	5.292	859.97	5.295	866.98
4.396	103.62	5.796	826.78	5.570	847.86	5.373	857.43	5.273	859.86	5.276	866.70
4.377	103.00	5.778	826.44	5.551	847.56	5.354	857.01	5.254	860.07	5.256	866.36
4.358	102.29	5.759	826.04	5.532	847.23	5.335	856.50	5.234	859.32	5.237	866.07
4.339	101.65	5.741	825.66	5.513	846.82	5.316	856.01	5.215	859.07	5.218	865.16
4.320	100.98	5.722	825.22	5.495	846.44	5.297	855.52	5.196	859.48	5.199	864.80
4.301	100.31	5.704	824.65	5.476	846.16	5.278	854.99	5.176	859.22	5.180	864.48
4.282	99.70	5.685	823.91	5.457	845.78	5.258	854.53	5.157	859.02	5.161	864.23
4.263	99.02	5.667	823.35	5.438	845.48	5.239	854.12	5.138	858.80	5.141	864.49
4.244	98.35	5.648	829.10	5.419	845.16	5.220	853.87	5.118	858.53	5.122	863.62
4.225	97.73	5.630	828.77	5.401	844.90	5.201	853.54	5.099	858.34	5.103	862.96
4.206	97.08	5.612	828.46	5.382	844.64	5.182	853.27	5.080	858.09	5.084	863.04
4.187	96.40	5.593	828.20	5.363	844.29	5.163	852.97	5.060	857.85	5.065	862.55
4.168	95.81	5.575	827.87	5.344	844.09	5.144	852.16	5.041	857.59	5.045	862.22
4.149	95.16	5.556	827.63	5.325	843.82	5.125	851.54	5.022	857.35	5.026	862.00
4.130	94.52	5.538	827.30	5.307	843.56	5.106	852.12	5.002	857.04	5.007	861.71
4.111	93.94	5.519	826.97	5.288	843.23	5.087	851.82	4.983	856.75	4.988	861.59
4.092	93.26	5.501	826.75	5.269	842.95	5.068	851.11	4.964	856.52	4.969	861.40
4.073	92.71	5.482	826.47	5.250	842.65	5.049	850.68	4.944	856.25	4.950	860.95
4.054	92.09	5.464	826.15	5.231	842.36	5.030	850.19	4.925	855.94	4.930	860.66
4.035	91.47	5.446	825.74	5.213	842.04	5.011	849.94	4.905	855.67	4.911	860.43
4.016	90.85	5.427	825.42	5.194	841.70	4.992	849.64	4.886	855.30	4.892	860.17
3.997	90.21	5.409	825.10	5.175	841.37	4.973	849.32	4.867	855.04	4.873	859.89
3.978	89.58	5.390	824.78	5.156	841.03	4.954	849.08	4.847	854.63	4.854	859.59
3.959	89.01	5.372	824.51	5.137	840.69	4.935	848.84	4.828	854.19	4.835	859.28
3.940	88.45	5.353	824.08	5.119	840.13	4.916	848.49	4.809	853.62	4.815	859.00
3.921	87.83	5.335	823.71	5.100	839.62	4.897	848.20	4.789	853.08	4.796	858.60
3.902	87.21	5.316	823.31	5.081	839.23	4.877	847.85	4.770	852.75	4.777	858.15
3.883	86.63	5.298	822.87	5.062	838.76	4.858	847.55	4.751	852.39	4.758	857.69
3.864	86.04	5.279	822.39	5.043	838.30	4.839	846.98	4.731	851.14	4.739	857.21
3.845	85.41	5.261	821.94	5.025	837.31	4.820	846.49	4.712	849.13	4.720	856.97
3.826	84.83	5.243	821.23	5.006	836.82	4.801	845.25	4.542	135.81	4.700	855.90
3.807	84.25	4.699	139.71	4.625	137.72	4.570	136.61	4.520	134.19	4.524	135.26
3.788	83.74	4.676	137.92	4.602	136.21	4.547	135.08	4.498	132.82	4.502	133.76
3.769	83.11	4.653	136.49	4.579	134.77	4.525	133.68	4.475	131.46	4.480	132.43
3.750	82.54	4.630	135.05	4.557	133.43	4.502	132.29	4.453	130.18	4.458	131.10
3.731	81.93	4.607	133.72	4.534	132.02	4.480	130.99	4.431	128.93	4.436	129.79
3.713	81.38	4.583	132.43	4.511	130.69	4.458	129.64	4.408	127.75	4.414	128.58
3.694	80.81	4.560	131.05	4.489	129.43	4.435	128.49	4.386	126.46	4.392	127.32
3.675	80.26	4.537	129.72	4.466	128.13	4.413	127.12	4.364	125.20	4.370	126.09
3.656	79.71	4.514	128.46	4.443	126.88	4.390	125.86	4.341	124.03	4.348	124.91
3.637	79.12	4.491	127.24	4.421	125.65	4.368	124.80	4.319	122.78	4.327	123.68
3.618	78.54	4.468	126.01	4.398	124.44	4.346	123.55	4.297	121.63	4.305	122.53
3.599	78.03	4.445	124.80	4.375	123.26	4.323	122.34	4.274	120.43	4.283	121.39
3.580	77.47	4.422	123.63	4.353	122.02	4.301	121.22	4.252	119.37	4.261	120.23
3.561	76.89	4.399	122.39	4.330	120.95	4.278	120.10	4.230	118.19	4.239	119.19
3.542	76.37	4.376	121.26	4.307	119.75	4.256	118.86	4.207	117.11	4.217	118.07
3.523	75.80	4.353	120.07	4.285	118.57	4.234	117.78	4.185	116.00	4.195	116.99
3.504	75.25	4.330	118.95	4.262	117.53	4.211	116.73	4.163	114.92	4.173	115.90

3.485	74.75	4.307	117.75	4.239	116.36	4.189	115.70	4.140	113.84	4.151	114.89
3.466	74.18	4.284	116.70	4.217	115.33	4.166	114.53	4.118	112.83	4.130	113.72
3.447	73.62	4.261	115.54	4.194	114.25	4.144	113.45	4.096	111.76	4.108	112.62
3.428	73.13	4.238	114.51	4.172	113.16	4.121	112.44	4.073	110.69	4.086	111.64
3.409	72.59	4.215	113.39	4.149	112.11	4.099	111.46	4.051	109.72	4.064	110.70
3.390	72.00	4.191	112.33	4.126	111.10	4.077	110.33	4.029	108.72	4.042	109.65
3.371	71.50	4.168	111.46	4.104	110.06	4.054	109.32	4.006	107.69	4.020	108.60
3.352	71.02	4.145	110.42	4.081	109.12	4.032	108.39	3.984	106.70	3.998	107.63
3.333	70.45	4.122	109.58	4.058	108.00	4.009	107.32	3.962	105.69	3.976	106.63
3.314	69.90	4.099	108.58	4.036	107.02	3.987	106.32	3.939	104.72	3.954	105.81
3.295	69.41	4.076	107.55	4.013	106.09	3.965	105.52	3.917	103.81	3.933	104.79
3.276	68.85	4.053	106.68	3.990	105.08	3.942	104.41	3.895	102.81	3.911	103.79
3.257	68.33	4.030	105.71	3.968	104.10	3.920	103.50	3.872	101.88	3.889	102.85
3.238	67.82	4.007	104.74	3.945	103.20	3.897	102.54	3.850	100.98	3.867	101.95
3.219	67.32	3.984	103.82	3.922	102.22	3.875	101.55	3.828	100.04	3.845	101.03
3.200	66.77	3.961	102.88	3.900	101.35	3.852	100.73	3.805	99.13	3.823	100.14
3.181	66.26	3.938	101.96	3.877	100.35	3.830	99.81	3.783	98.23	3.801	99.24
3.162	65.72	3.915	101.09	3.854	99.50	3.808	98.80	3.761	97.33	3.779	98.31
3.143	65.36	3.892	100.11	3.832	98.57	3.785	97.89	3.738	96.42	3.757	97.44
3.124	64.85	3.869	99.11	3.809	97.68	3.763	97.03	3.716	95.55	3.736	96.57
3.105	64.38	3.846	98.14	3.786	96.78	3.740	96.15	3.694	94.67	3.714	95.80
3.086	63.91	3.822	97.23	3.764	95.92	3.718	95.30	3.671	93.78	3.692	94.84
3.067	63.43	3.799	96.36	3.741	95.05	3.696	94.47	3.649	92.93	3.670	94.04
3.048	62.92	3.776	95.51	3.718	94.14	3.673	93.64	3.627	92.07	3.648	93.25
3.029	62.47	3.753	94.55	3.696	93.27	3.651	92.67	3.604	91.27	3.626	92.32
3.010	61.95	3.730	93.65	3.673	92.47	3.628	91.85	3.582	90.49	3.604	91.50
2.992	61.44	3.707	92.77	3.650	91.57	3.606	91.09	3.560	89.66	3.582	90.68
2.973	60.95	3.684	91.85	3.628	90.73	3.584	90.28	3.537	88.78	3.560	89.88
2.954	60.49	3.661	90.98	3.605	89.93	3.561	89.43	3.515	88.00	3.539	89.12
2.935	59.97	3.638	90.12	3.582	89.08	3.539	88.54	3.493	87.17	3.517	88.26
2.916	59.50	3.615	89.23	3.560	88.32	3.516	87.73	3.470	86.38	3.495	87.53
2.897	58.99	3.592	88.39	3.537	87.47	3.494	86.88	3.448	85.57	3.473	86.73
2.878	58.55	3.569	87.54	3.514	86.64	3.471	86.20	3.425	84.79	3.451	85.88
2.859	58.05	3.546	86.68	3.492	85.87	3.449	85.29	3.403	84.01	3.429	85.15
2.840	57.60	3.523	85.86	3.469	85.04	3.427	84.50	3.381	83.18	3.407	84.41
2.821	57.16	3.500	85.05	3.446	84.25	3.404	83.69	3.358	82.48	3.385	83.68
2.802	56.66	3.477	84.19	3.424	83.49	3.382	82.94	3.336	81.61	3.364	82.80
2.783	56.16	3.454	83.39	3.401	82.70	3.359	82.17	3.314	80.88	3.342	82.10
2.764	55.73	3.430	82.56	3.378	81.93	3.337	81.38	3.291	80.13	3.320	81.32
2.745	55.20	3.407	81.78	3.356	81.19	3.315	80.61	3.269	79.35	3.298	80.63
2.726	54.75	3.384	80.99	3.333	80.40	3.292	79.94	3.247	78.60	3.276	79.86
2.707	54.32	3.361	80.19	3.310	79.66	3.270	79.09	3.224	77.85	3.254	79.08
2.688	53.87	3.338	79.49	3.288	78.93	3.247	78.40	3.202	77.10	3.232	78.41
2.669	53.41	3.315	78.65	3.265	78.18	3.225	77.59	3.180	76.36	3.210	77.67
2.650	52.93	3.292	77.85	3.242	77.45	3.203	76.85	3.157	75.64	3.188	76.92
2.631	52.48	3.269	77.12	3.220	76.68	3.180	76.11	3.135	74.88	3.167	76.20
2.612	52.03	3.246	76.30	3.197	76.01	3.158	75.47	3.113	74.19	3.145	75.55
2.593	51.58	3.223	75.55	3.175	75.24	3.135	74.73	3.090	73.51	3.123	74.81
2.574	51.13	3.200	74.81	3.152	74.53	3.113	74.04	3.068	72.75	3.101	74.15
2.555	50.66	3.177	74.08	3.129	73.81	3.090	73.25	3.046	72.07	3.079	73.47
2.536	50.24	3.154	73.39	3.107	73.12	3.068	72.53	3.023	71.39	3.057	72.75
2.517	49.79	3.131	72.66	3.084	72.40	3.046	71.80	3.001	70.65	3.035	72.05
2.498	49.35	3.108	71.97	3.061	71.76	3.023	71.17	2.979	69.98	3.013	71.37
2.479	48.89	3.085	71.19	3.039	71.00	3.001	70.48	2.956	69.28	2.991	70.66
2.460	48.49	3.061	70.55	3.016	70.32	2.978	69.81	2.934	68.62	2.970	69.99

2.441	48.03	3.038	69.85	2.993	69.62	2.956	69.11	2.912	67.92	2.948	69.31
2.422	47.57	3.015	69.10	2.971	68.93	2.934	68.37	2.889	67.20	2.926	68.66
2.403	47.14	2.992	68.45	2.948	68.28	2.911	67.68	2.867	66.56	2.904	67.98
2.384	46.68	2.969	67.77	2.925	67.57	2.889	67.03	2.845	65.86	2.882	67.28
2.365	46.24	2.946	67.12	2.903	66.94	2.866	66.38	2.822	65.21	2.860	66.67
2.346	45.85	2.923	66.38	2.880	66.22	2.844	65.64	2.800	64.50	2.838	66.06
2.327	45.41	2.900	65.72	2.857	65.58	2.822	65.02	2.778	63.86	2.816	65.37
2.308	44.96	2.877	65.15	2.835	64.89	2.799	64.38	2.755	63.20	2.794	64.76
2.289	44.56	2.854	64.48	2.812	64.20	2.777	63.66	2.733	62.56	2.773	64.05
2.271	44.12	2.831	63.81	2.789	63.53	2.754	63.04	2.711	61.94	2.751	63.40
2.252	43.64	2.808	63.13	2.767	62.92	2.732	62.32	2.688	61.24	2.729	62.77
2.233	43.23	2.785	62.48	2.744	62.29	2.709	61.70	2.666	60.65	2.707	62.14
2.214	42.82	2.762	61.78	2.721	61.59	2.687	61.06	2.644	59.97	2.685	61.52
2.195	42.40	2.739	61.16	2.699	61.02	2.665	60.42	2.621	59.36	2.663	60.90
2.176	41.97	2.716	60.51	2.676	60.30	2.642	59.76	2.599	58.79	2.641	60.23
2.157	41.55	2.693	59.90	2.653	59.66	2.620	59.13	2.577	58.17	2.619	59.62
2.138	41.13	2.669	59.24	2.631	59.02	2.597	58.48	2.554	57.50	2.597	58.94
2.119	40.70	2.646	58.59	2.608	58.38	2.575	57.90	2.532	56.89	2.576	58.33
2.100	40.27	2.623	57.92	2.585	57.76	2.553	57.23	2.510	56.27	2.554	57.72
2.081	39.85	2.600	57.35	2.563	57.12	2.530	56.66	2.487	55.64	2.532	57.15
2.062	39.44	2.577	56.68	2.540	56.53	2.508	56.03	2.465	55.09	2.510	56.51
2.043	39.04	2.554	56.08	2.517	55.93	2.485	55.39	2.443	54.45	2.488	55.88
2.024	38.59	2.531	55.47	2.495	55.30	2.463	54.83	2.420	53.86	2.466	55.26
2.005	38.19	2.508	54.81	2.472	54.71	2.441	54.18	2.398	53.27	2.444	54.70
1.986	37.80	2.485	54.21	2.449	54.10	2.418	53.57	2.376	52.65	2.422	54.13
1.967	37.36	2.462	53.64	2.427	53.45	2.396	52.97	2.353	52.10	2.401	53.50
1.948	37.02	2.439	53.01	2.404	52.83	2.373	52.38	2.331	51.49	2.379	52.90
1.929	36.55	2.416	52.40	2.381	52.23	2.351	51.80	2.309	50.90	2.357	52.32
1.910	36.18	2.393	51.79	2.359	51.68	2.328	51.20	2.286	50.30	2.335	51.68
1.891	35.76	2.370	51.18	2.336	51.08	2.306	50.58	2.264	49.71	2.313	51.13
1.872	35.29	2.347	50.65	2.313	50.49	2.284	49.99	2.242	49.13	2.291	50.55
1.853	34.92	2.324	50.01	2.291	49.89	2.261	49.47	2.219	48.61	2.269	49.98
1.834	34.56	2.300	49.43	2.268	49.27	2.239	48.86	2.197	48.02	2.247	49.45
1.815	34.11	2.277	48.87	2.245	48.65	2.216	48.29	2.175	47.41	2.225	48.85
1.796	33.70	2.254	48.30	2.223	48.08	2.194	47.71	2.152	46.82	2.204	48.24
1.777	33.31	2.231	47.74	2.200	47.51	2.172	47.16	2.130	46.34	2.182	47.63
1.758	32.91	2.208	47.15	2.177	47.00	2.149	46.57	2.108	45.72	2.160	47.15
1.739	32.53	2.185	46.60	2.155	46.35	2.127	45.97	2.085	45.19	2.138	46.56
1.720	32.15	2.162	46.01	2.132	45.80	2.104	45.39	2.063	44.56	2.116	45.97
1.701	31.72	2.139	45.46	2.110	45.23	2.082	44.87	2.041	43.97	2.094	45.43
1.682	31.32	2.116	44.91	2.087	44.72	2.059	44.30	2.018	43.44	2.072	44.89
1.663	30.92	2.093	44.32	2.064	44.11	2.037	43.74	1.996	42.90	2.050	44.27
1.644	30.54	2.070	43.81	2.042	43.49	2.015	43.20	1.974	42.33	2.028	43.74
1.625	30.18	2.047	43.28	2.019	42.97	1.992	42.67	1.951	41.78	2.007	43.22
1.606	29.78	2.024	42.67	1.996	42.45	1.970	42.11	1.929	41.16	1.985	42.70
1.587	29.39	2.001	42.07	1.974	41.85	1.947	41.56	1.906	40.59	1.963	42.13
1.569	29.01	1.978	41.57	1.951	41.30	1.925	40.95	1.884	40.03	1.941	41.56
1.550	28.64	1.955	41.02	1.928	40.75	1.903	40.46	1.862	39.50	1.919	41.03
1.531	28.22	1.932	40.51	1.906	40.19	1.880	39.95	1.839	38.91	1.897	40.52
1.512	27.80	1.908	39.88	1.883	39.65	1.858	39.37	1.817	38.38	1.875	39.96
1.493	27.42	1.885	39.37	1.860	39.08	1.835	38.82	1.795	37.81	1.853	39.42
1.474	26.99	1.862	38.78	1.838	38.51	1.813	38.28	1.772	37.31	1.831	38.89
1.455	26.57	1.839	38.30	1.815	37.99	1.791	37.79	1.750	36.75	1.810	38.40
1.436	26.37	1.816	37.77	1.792	37.42	1.768	37.23	1.728	36.24	1.788	37.82
1.417	25.97	1.793	37.17	1.770	36.95	1.746	36.72	1.705	35.67	1.766	37.31

1.398	25.61	1.770	36.68	1.747	36.33	1.723	36.15	1.683	35.13	1.744	36.82
1.379	25.25	1.747	36.14	1.724	35.91	1.701	35.61	1.661	34.62	1.722	36.35
1.360	24.87	1.724	35.61	1.702	35.30	1.678	35.13	1.638	34.14	1.700	35.75
1.341	24.52	1.701	35.08	1.679	34.81	1.656	34.57	1.616	33.59	1.678	35.26
1.322	24.13	1.678	34.51	1.656	34.25	1.634	34.06	1.594	33.13	1.656	34.75
1.303	23.75	1.655	34.01	1.634	33.74	1.611	33.52	1.571	32.59	1.634	34.19
1.284	23.39	1.632	33.47	1.611	33.20	1.589	33.02	1.549	32.07	1.613	33.73
1.265	23.00	1.609	32.97	1.588	32.65	1.566	32.51	1.527	31.55	1.591	33.18
1.246	22.67	1.586	32.43	1.566	32.17	1.544	32.01	1.504	30.99	1.569	32.67
1.227	22.24	1.563	31.93	1.543	31.67	1.522	31.52	1.482	30.50	1.547	32.21
1.208	21.92	1.539	31.40	1.520	31.14	1.499	30.97	1.460	30.01	1.525	31.73
1.189	21.53	1.516	30.85	1.498	30.61	1.477	30.49	1.437	29.52	1.503	31.19
1.170	21.17	1.493	30.37	1.475	30.08	1.454	29.98	1.415	28.99	1.481	30.76
1.151	20.84	1.470	29.92	1.452	29.60	1.432	29.48	1.393	28.52	1.459	30.15
1.132	20.52	1.447	29.38	1.430	29.11	1.410	28.94	1.370	27.98	1.438	29.67
1.113	20.21	1.424	28.83	1.407	28.62	1.387	28.50	1.348	27.46	1.416	29.22
1.094	19.81	1.401	28.37	1.384	28.05	1.365	27.98	1.326	26.93	1.394	28.69
1.075	19.42	1.378	27.87	1.362	27.59	1.342	27.46	1.303	26.49	1.372	28.25
1.056	19.02	1.355	27.32	1.339	27.11	1.320	26.98	1.281	25.94	1.350	27.71
1.037	18.64	1.332	26.84	1.316	26.55	1.297	26.51	1.259	25.52	1.328	27.23
1.018	18.25	1.309	26.31	1.294	26.08	1.275	25.95	1.236	24.97	1.306	26.73
0.999	17.92	1.286	25.79	1.271	25.55	1.253	25.49	1.214	24.56	1.284	26.24
0.980	17.59	1.263	25.31	1.248	25.10	1.230	24.95	1.192	23.99	1.262	25.72
0.961	17.25	1.240	24.80	1.226	24.60	1.208	24.53	1.169	23.50	1.241	25.28
0.942	16.86	1.217	24.32	1.203	24.13	1.185	23.98	1.147	23.05	1.219	24.75
0.923	16.50	1.194	23.82	1.180	23.60	1.163	23.50	1.125	22.57	1.197	24.36
0.904	16.17	1.170	23.31	1.158	23.07	1.141	22.97	1.102	22.07	1.175	23.87
0.885	15.82	1.147	22.78	1.135	22.64	1.118	22.53	1.080	21.55	1.153	23.36
0.866	15.52	1.124	22.33	1.113	22.14	1.096	22.03	1.058	21.11	1.131	22.91
0.848	15.16	1.101	21.82	1.090	21.67	1.073	21.57	1.035	20.64	1.109	22.50
0.829	14.74	1.078	21.37	1.067	21.25	1.051	21.08	1.013	20.16	1.087	21.96
0.810	14.41	1.055	20.86	1.045	20.73	1.029	20.63	0.991	19.66	1.065	21.49
0.791	14.05	1.032	20.34	1.022	20.19	1.006	20.09	0.968	19.20	1.044	21.01
0.772	13.72	1.009	19.90	0.999	19.78	0.984	19.65	0.946	18.77	1.022	20.54
0.753	13.37	0.986	19.39	0.977	19.33	0.961	19.17	0.924	18.28	1.000	20.08
0.734	13.02	0.963	18.88	0.954	18.84	0.939	18.73	0.901	17.79	0.978	19.68
0.715	12.66	0.940	18.44	0.931	18.36	0.916	18.26	0.879	17.38	0.956	19.12
0.696	12.36	0.917	17.94	0.909	17.90	0.894	17.75	0.857	16.87	0.934	18.68
0.677	11.99	0.894	17.43	0.886	17.41	0.872	17.26	0.834	16.41	0.912	18.24
0.658	11.67	0.871	16.97	0.863	16.89	0.849	16.94	0.812	15.93	0.890	17.80
0.639	11.25	0.848	16.48	0.841	16.46	0.827	16.44	0.790	15.54	0.868	17.33
0.620	10.98	0.825	15.99	0.818	16.02	0.804	15.89	0.767	15.03	0.847	16.84
0.601	10.59	0.802	15.56	0.795	15.51	0.782	15.33	0.745	14.61	0.825	16.39
0.582	10.24	0.778	15.04	0.773	15.10	0.760	14.78	0.723	14.20	0.803	15.93
0.563	9.91	0.755	14.61	0.750	14.61	0.737	14.52	0.700	13.76	0.781	15.48
0.544	9.59	0.732	14.08	0.727	14.15	0.715	14.05	0.678	13.25	0.759	15.06
0.525	9.20	0.709	13.63	0.705	13.72	0.692	13.61	0.656	12.82	0.737	14.60
0.506	8.88	0.686	13.18	0.682	13.25	0.670	13.16	0.633	12.36	0.715	14.15
0.487	8.50	0.663	12.68	0.659	12.81	0.648	12.71	0.611	11.91	0.693	13.68
0.468	8.15	0.640	12.23	0.637	12.32	0.625	12.24	0.589	11.43	0.671	13.28
0.449	7.82	0.617	11.72	0.614	11.88	0.603	11.79	0.566	11.01	0.650	12.80
0.430	7.46	0.594	11.31	0.591	11.52	0.580	11.37	0.544	10.55	0.628	12.42
0.411	7.13	0.571	10.79	0.569	11.01	0.558	10.89	0.522	10.15	0.606	11.91
0.392	6.78	0.548	10.35	0.546	10.51	0.535	10.42	0.499	9.68	0.584	11.51
0.373	6.41	0.525	9.94	0.523	10.08	0.513	9.96	0.477	9.26	0.562	11.07

0.354	6.04	0.502	9.47	0.501	9.65	0.491	9.45	0.455	8.81	0.540	10.60
0.335	5.66	0.479	9.04	0.478	9.16	0.468	9.06	0.432	8.35	0.518	10.23
0.316	5.30	0.456	8.56	0.455	8.82	0.446	8.60	0.410	7.97	0.496	9.75
0.297	4.90	0.433	8.08	0.433	8.30	0.423	8.21	0.387	7.49	0.475	9.30
0.278	4.60	0.409	7.66	0.410	7.89	0.401	7.73	0.365	7.08	0.453	8.94
0.259	4.46	0.386	7.22	0.387	7.40	0.379	7.32	0.343	6.61	0.431	8.48
0.240	4.16	0.363	6.79	0.365	6.95	0.356	6.93	0.320	6.20	0.409	8.01
0.221	3.82	0.340	6.35	0.342	6.53	0.334	6.45	0.298	5.81	0.387	7.63
0.202	3.49	0.317	5.92	0.319	6.08	0.311	6.08	0.276	5.32	0.365	7.09
0.183	3.18	0.294	5.48	0.297	5.65	0.289	5.64	0.253	4.97	0.343	6.65
0.164	2.83	0.271	5.05	0.274	5.23	0.266	5.21	0.231	4.49	0.321	6.21
0.145	2.49	0.248	4.61	0.251	4.78	0.244	4.75	0.209	4.05	0.299	5.73
0.127	2.15	0.225	4.14	0.229	4.45	0.222	4.34	0.186	3.64	0.278	5.26
0.108	1.81	0.202	3.71	0.206	3.94	0.199	3.91	0.164	3.15	0.256	4.90
		0.179	3.29	0.183	3.49	0.177	3.47	0.142	2.76	0.234	4.54
		0.156	2.82	0.161	3.00	0.154	3.07	0.119	2.31	0.212	4.16
		0.133	2.40	0.138	2.63	0.132	2.68	0.097	1.89	0.190	3.74
		0.110	1.89	0.116	2.13	0.110	2.29			0.168	3.31



**Table S1 (continued).**  $P\rho T$  experimental data for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures.

$T = 293.15$ K											
$x = 0.8525$		$x = 0.9719$		$x = 0.9809$		$x = 0.9902$		$x = 0.9932$		$x = 0.9961$	
$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )
20.041	760.81	20.137	903.23	20.025	912.72	20.062	925.25	20.206	928.79	20.076	932.01
20.021	760.82	20.118	903.15	20.006	912.72	20.042	924.94	20.186	928.71	20.056	931.93
20.001	760.65	20.098	903.07	19.986	912.72	20.022	925.00	20.165	928.63	20.035	931.85
19.981	760.49	20.079	902.91	19.966	912.64	20.002	924.97	20.145	928.54	20.015	931.77
19.961	760.37	20.059	902.83	19.946	912.56	19.982	924.90	20.125	928.46	19.994	931.69
19.941	760.21	20.039	902.74	19.927	912.51	19.962	924.80	20.104	928.38	19.974	931.55
19.921	760.08	20.020	902.61	19.907	912.42	19.942	924.67	20.084	928.22	19.954	931.44
19.901	759.92	20.000	902.50	19.887	912.25	19.921	924.52	20.063	928.14	19.933	931.36
19.881	759.76	19.981	902.38	19.867	912.15	19.901	924.41	20.043	928.02	19.913	931.30
19.861	759.60	19.961	902.28	19.848	912.07	19.881	924.31	20.023	927.89	19.893	931.12
19.841	759.60	19.941	902.14	19.828	911.99	19.861	924.21	20.002	927.81	19.872	931.06
19.821	759.60	19.922	902.01	19.808	911.92	19.841	924.10	19.982	927.69	19.852	930.95
19.801	759.44	19.902	901.93	19.788	911.79	19.821	923.99	19.961	927.56	19.831	930.86
19.781	759.28	19.883	901.84	19.769	911.67	19.801	923.87	19.941	927.48	19.811	930.74
19.761	759.14	19.863	901.68	19.749	911.56	19.781	923.76	19.920	927.32	19.791	930.62
19.741	758.99	19.843	901.60	19.729	911.45	19.760	923.65	19.900	927.24	19.770	930.46
19.721	758.79	19.824	901.44	19.709	911.34	19.740	923.54	19.880	927.07	19.750	930.39
19.702	758.62	19.804	901.35	19.690	911.24	19.720	923.49	19.859	926.99	19.730	930.24
19.682	758.46	19.785	901.19	19.670	911.15	19.700	923.37	19.839	926.88	19.709	930.17
19.662	758.30	19.765	901.10	19.650	911.06	19.680	923.25	19.818	926.75	19.689	930.08
19.642	758.13	19.745	901.01	19.630	910.91	19.660	923.12	19.798	926.67	19.668	929.91
19.622	757.97	19.726	900.86	19.611	910.76	19.640	923.00	19.778	926.52	19.648	929.81
19.602	757.80	19.706	900.78	19.591	910.69	19.619	922.89	19.757	926.42	19.628	929.73
19.582	757.62	19.687	900.63	19.571	910.55	19.599	922.76	19.737	926.26	19.607	929.63
19.562	757.46	19.667	900.51	19.551	910.46	19.579	922.64	19.716	926.16	19.587	929.48
19.542	757.34	19.647	900.40	19.532	910.38	19.559	922.52	19.696	926.01	19.567	929.33
19.522	757.17	19.628	900.29	19.512	910.25	19.539	922.39	19.676	925.94	19.546	929.29
19.502	756.99	19.608	900.15	19.492	910.14	19.519	922.33	19.655	925.78	19.526	929.16
19.482	756.82	19.589	900.04	19.472	910.02	19.499	922.23	19.635	925.71	19.505	928.99
19.462	756.69	19.569	899.88	19.453	909.87	19.478	922.10	19.614	925.57	19.485	928.88
19.442	756.51	19.549	899.74	19.433	909.75	19.458	921.96	19.594	925.45	19.465	928.75
19.422	756.33	19.530	899.64	19.413	909.62	19.438	921.84	19.574	925.36	19.444	928.67
19.402	756.15	19.510	899.53	19.393	909.50	19.418	921.72	19.553	925.20	19.424	928.56
19.382	756.02	19.491	899.39	19.374	909.43	19.398	921.66	19.533	925.12	19.404	928.42
19.362	755.83	19.471	899.24	19.354	909.34	19.378	921.53	19.512	925.03	19.383	928.34
19.342	755.69	19.451	899.13	19.334	909.25	19.358	921.40	19.492	924.88	19.363	928.18
19.322	755.54	19.432	898.99	19.314	909.13	19.338	921.25	19.472	924.80	19.342	928.08
19.302	755.36	19.412	898.88	19.294	909.01	19.317	921.14	19.451	924.65	19.322	927.93
19.282	755.18	19.393	898.74	19.275	908.89	19.297	921.05	19.431	924.54	19.302	927.84
19.262	754.97	19.373	898.66	19.255	908.78	19.277	920.90	19.410	924.43	19.281	927.69
19.242	754.81	19.353	898.50	19.235	908.66	19.257	920.76	19.390	924.26	19.261	927.57
19.223	754.68	19.334	898.41	19.215	908.53	19.237	920.65	19.370	924.19	19.241	927.44
19.203	754.53	19.314	898.25	19.196	908.38	19.217	920.55	19.349	924.04	19.220	927.33
19.183	754.31	19.295	898.14	19.176	908.29	19.197	920.41	19.329	923.89	19.200	927.21
19.163	754.16	19.275	898.01	19.156	908.20	19.176	920.31	19.308	923.80	19.179	927.11
19.143	753.95	19.255	897.84	19.136	908.08	19.156	920.20	19.288	923.65	19.159	926.96
19.123	753.79	19.236	897.76	19.117	907.94	19.136	920.04	19.267	923.58	19.139	926.85

19.103	753.65	19.216	897.62	19.097	907.79	19.116	919.90	19.247	923.42	19.118	926.71
19.083	753.47	19.197	897.50	19.077	907.71	19.096	919.78	19.227	923.34	19.098	926.54
19.063	753.28	19.177	897.35	19.057	907.62	19.076	919.68	19.206	923.18	19.077	926.49
19.043	753.11	19.157	897.22	19.038	907.49	19.056	919.53	19.186	923.10	19.057	926.35
19.023	752.90	19.138	897.11	19.018	907.36	19.036	919.44	19.165	922.99	19.037	926.21
19.003	752.75	19.118	896.94	18.998	907.22	19.015	919.30	19.145	922.84	19.016	926.10
18.983	752.60	19.099	896.86	18.978	907.09	18.995	919.21	19.125	922.74	18.996	925.98
18.963	752.45	19.079	896.76	18.959	906.95	18.975	919.06	19.104	922.59	18.976	925.85
18.943	752.24	19.059	896.62	18.939	906.86	18.955	918.90	19.084	922.50	18.955	925.72
18.923	752.07	19.040	896.52	18.919	906.70	18.935	918.82	19.063	922.33	18.935	925.58
18.903	751.92	19.020	896.37	18.899	906.60	18.915	918.74	19.043	922.25	18.914	925.48
18.883	751.71	19.001	896.24	18.880	906.51	18.895	918.58	19.023	922.08	18.894	925.31
18.863	751.53	18.981	896.09	18.860	906.37	18.874	918.42	19.002	921.99	18.874	925.23
18.843	751.37	18.961	895.96	18.840	906.25	18.854	918.34	18.982	921.84	18.853	925.07
18.823	751.20	18.942	895.89	18.820	906.13	18.834	918.17	18.961	921.74	18.833	924.98
18.803	750.99	18.922	895.78	18.801	906.01	18.814	918.07	18.941	921.60	18.813	924.82
18.783	750.80	18.903	895.69	18.781	905.87	18.794	917.92	18.921	921.47	18.792	924.73
18.764	750.64	18.883	895.54	18.761	905.73	18.774	917.84	18.900	921.35	18.772	924.58
18.744	750.41	18.863	895.40	18.741	905.63	18.754	917.67	18.880	921.20	18.751	924.47
18.724	750.21	18.844	895.32	18.722	905.54	18.734	917.58	18.859	921.11	18.731	924.33
18.704	750.04	18.824	895.18	18.702	905.36	18.713	917.42	18.839	920.95	18.711	924.21
18.684	749.87	18.805	895.03	18.682	905.21	18.693	917.34	18.819	920.84	18.690	924.09
18.664	749.69	18.785	894.90	18.662	905.17	18.673	917.21	18.798	920.69	18.670	923.93
18.644	749.53	18.765	894.81	18.643	905.03	18.653	917.08	18.778	920.59	18.650	923.83
18.624	749.33	18.746	894.67	18.623	904.86	18.633	916.91	18.757	920.45	18.629	923.68
18.604	749.13	18.726	894.51	18.603	904.74	18.613	916.75	18.737	920.32	18.609	923.55
18.584	748.94	18.707	894.36	18.583	904.66	18.593	916.67	18.716	920.18	18.588	923.46
18.564	748.76	18.687	894.28	18.564	904.53	18.572	916.58	18.696	920.09	18.568	923.27
18.544	748.59	18.667	894.13	18.544	904.39	18.552	916.41	18.676	919.94	18.548	923.19
18.524	748.41	18.648	894.00	18.524	904.25	18.532	916.26	18.655	919.85	18.527	923.03
18.504	748.19	18.628	893.88	18.504	904.11	18.512	916.17	18.635	919.67	18.507	922.89
18.484	747.96	18.609	893.76	18.485	903.97	18.492	916.08	18.614	919.56	18.487	922.78
18.464	747.78	18.589	893.62	18.465	903.84	18.472	915.91	18.594	919.46	18.466	922.70
18.444	747.59	18.569	893.52	18.445	903.70	18.452	915.77	18.574	919.28	18.446	922.51
18.424	747.41	18.550	893.39	18.425	903.58	18.431	915.65	18.553	919.17	18.425	922.39
18.404	747.22	18.530	893.24	18.406	903.49	18.411	915.55	18.533	919.08	18.405	922.25
18.384	747.03	18.511	893.11	18.386	903.33	18.391	915.40	18.512	918.90	18.385	922.13
18.364	746.85	18.491	892.99	18.366	903.22	18.371	915.25	18.492	918.81	18.364	922.05
18.344	746.67	18.471	892.85	18.346	903.13	18.351	915.14	18.472	918.68	18.344	921.88
18.324	746.48	18.452	892.76	18.327	902.98	18.331	914.99	18.451	918.51	18.324	921.78
18.304	746.31	18.432	892.60	18.307	902.78	18.311	914.90	18.431	918.37	18.303	921.65
18.285	746.13	18.413	892.45	18.287	902.76	18.291	914.72	18.410	918.25	18.283	921.51
18.265	745.93	18.393	892.32	18.267	902.58	18.270	914.63	18.390	918.13	18.262	921.41
18.245	745.72	18.373	892.24	18.247	902.47	18.250	914.51	18.370	918.02	18.242	921.25
18.225	745.51	18.354	892.04	18.228	902.35	18.230	914.37	18.349	917.85	18.222	921.12
18.205	745.31	18.334	891.88	18.208	902.21	18.210	914.20	18.329	917.76	18.201	920.96
18.185	745.06	18.315	891.80	18.188	902.02	18.190	914.11	18.308	917.59	18.181	920.82
18.165	744.86	18.295	891.64	18.168	901.91	18.170	914.00	18.288	917.46	18.160	920.73
18.145	744.65	18.275	891.49	18.149	901.78	18.150	913.85	18.268	917.37	18.140	920.63
18.125	744.47	18.256	891.33	18.129	901.70	18.129	913.74	18.247	917.17	18.120	920.42
18.105	744.30	18.236	891.21	18.109	901.52	18.109	913.60	18.227	917.05	18.099	920.33
18.085	744.08	18.217	891.09	18.089	901.42	18.089	913.42	18.206	916.94	18.079	920.24
18.065	743.91	18.197	890.98	18.070	901.25	18.069	913.32	18.186	916.83	18.059	920.08
18.045	743.68	18.177	890.86	18.050	901.12	18.049	913.20	18.165	916.67	18.038	919.92
18.025	743.44	18.158	890.75	18.030	901.02	18.029	913.07	18.145	916.54	18.018	919.76

18.005	743.25	18.138	890.58	18.010	900.89	18.009	912.94	18.125	916.44	17.997	919.68
17.985	743.05	18.119	890.41	17.991	900.73	17.989	912.81	18.104	916.32	17.977	919.51
17.965	742.84	18.099	890.32	17.971	900.62	17.968	912.64	18.084	916.12	17.957	919.43
17.945	742.61	18.079	890.14	17.951	900.51	17.948	912.55	18.063	916.01	17.936	919.27
17.925	742.46	18.060	889.99	17.931	900.35	17.928	912.37	18.043	915.90	17.916	919.16
17.905	742.24	18.040	889.87	17.912	900.23	17.908	912.28	18.023	915.71	17.896	919.04
17.885	742.03	18.021	889.74	17.892	900.09	17.888	912.10	18.002	915.61	17.875	918.86
17.865	741.76	18.001	889.62	17.872	899.93	17.868	911.94	17.982	915.48	17.855	918.77
17.845	741.59	17.981	889.47	17.852	899.75	17.848	911.83	17.961	915.37	17.834	918.63
17.826	741.36	17.962	889.32	17.833	899.62	17.827	911.71	17.941	915.22	17.814	918.48
17.806	741.13	17.942	889.19	17.813	899.52	17.807	911.55	17.921	915.05	17.794	918.37
17.786	741.00	17.923	889.06	17.793	899.37	17.787	911.45	17.900	914.95	17.773	918.22
17.766	740.74	17.903	888.90	17.773	899.22	17.767	911.35	17.880	914.80	17.753	918.11
17.746	740.55	17.883	888.77	17.754	899.11	17.747	911.18	17.859	914.69	17.733	917.96
17.726	740.30	17.864	888.67	17.734	899.01	17.727	911.04	17.839	914.57	17.712	917.87
17.706	740.12	17.844	888.53	17.714	898.85	17.707	910.89	17.819	914.38	17.692	917.68
17.686	739.88	17.825	888.36	17.694	898.69	17.687	910.79	17.798	914.24	17.671	917.55
17.666	739.72	17.805	888.25	17.675	898.51	17.666	910.61	17.778	914.12	17.651	917.38
17.646	739.48	17.785	888.07	17.655	898.40	17.646	910.52	17.757	914.00	17.631	917.30
17.626	739.25	17.766	887.96	17.635	898.29	17.626	910.38	17.737	913.86	17.610	917.14
17.606	739.06	17.746	887.81	17.615	898.19	17.606	910.19	17.717	913.73	17.590	917.01
17.586	738.86	17.727	887.66	17.596	898.01	17.586	910.10	17.696	913.59	17.570	916.88
17.566	738.61	17.707	887.55	17.576	897.88	17.566	909.95	17.676	913.42	17.549	916.73
17.546	738.45	17.687	887.38	17.556	897.69	17.546	909.82	17.655	913.28	17.529	916.59
17.526	738.21	17.668	887.25	17.536	897.63	17.525	909.68	17.635	913.16	17.508	916.46
17.506	737.97	17.648	887.06	17.517	897.45	17.505	909.54	17.614	913.01	17.488	916.32
17.486	737.81	17.629	886.96	17.497	897.33	17.485	909.40	17.594	912.85	17.468	916.18
17.466	737.58	17.609	886.81	17.477	897.21	17.465	909.28	17.574	912.72	17.447	916.08
17.446	737.33	17.589	886.68	17.457	897.05	17.445	909.13	17.553	912.58	17.427	915.89
17.426	737.14	17.570	886.55	17.438	896.90	17.425	909.01	17.533	912.45	17.407	915.75
17.406	736.89	17.550	886.40	17.418	896.78	17.405	908.87	17.512	912.31	17.386	915.63
17.386	736.70	17.531	886.24	17.398	896.59	17.384	908.72	17.492	912.19	17.366	915.47
17.366	736.44	17.511	886.08	17.378	896.47	17.364	908.58	17.472	912.06	17.345	915.36
17.347	736.26	17.491	885.94	17.359	896.35	17.344	908.44	17.451	911.94	17.325	915.24
17.327	736.02	17.472	885.83	17.339	896.16	17.324	908.33	17.431	911.79	17.305	915.09
17.307	735.83	17.452	885.67	17.319	896.11	17.304	908.15	17.410	911.62	17.284	914.91
17.287	735.56	17.433	885.56	17.299	895.93	17.284	908.05	17.390	911.47	17.264	914.79
17.267	735.36	17.413	885.40	17.280	895.80	17.264	907.89	17.370	911.34	17.244	914.63
17.247	735.15	17.393	885.26	17.260	895.68	17.244	907.76	17.349	911.21	17.223	914.52
17.227	734.86	17.374	885.10	17.240	895.50	17.223	907.63	17.329	911.05	17.203	914.36
17.207	734.64	17.354	884.95	17.220	895.34	17.203	907.49	17.308	910.92	17.182	914.19
17.187	734.44	17.335	884.83	17.201	895.21	17.183	907.35	17.288	910.79	17.162	914.08
17.167	734.25	17.315	884.72	17.181	895.02	17.163	907.19	17.268	910.65	17.142	913.94
17.147	734.03	17.295	884.61	17.161	894.89	17.143	907.05	17.247	910.50	17.121	913.78
17.127	733.82	17.276	884.46	17.141	894.77	17.123	906.93	17.227	910.42	17.101	913.63
17.107	733.55	17.256	884.28	17.121	894.63	17.103	906.80	17.206	910.22	17.080	913.49
17.087	733.34	17.237	884.20	17.102	894.51	17.082	906.61	17.186	910.07	17.060	913.37
17.067	733.13	17.217	884.04	17.082	894.35	17.062	906.48	17.166	909.94	17.040	913.21
17.047	732.91	17.197	883.88	17.062	894.17	17.042	906.36	17.145	909.81	17.019	913.05
17.027	732.64	17.178	883.73	17.042	894.10	17.022	906.21	17.125	909.66	16.999	912.95
17.007	732.43	17.158	883.63	17.023	893.92	17.002	906.04	17.104	909.52	16.979	912.77
16.987	732.19	17.139	883.46	17.003	893.79	16.982	905.92	17.084	909.36	16.958	912.64
16.967	731.97	17.119	883.31	16.983	893.62	16.962	905.80	17.063	909.23	16.938	912.48
16.947	731.74	17.099	883.21	16.963	893.46	16.942	905.39	17.043	909.11	16.917	912.35
16.927	731.45	17.080	883.03	16.944	893.34	16.921	905.45	17.023	908.99	16.897	912.21

16.907	731.25	17.060	882.89	16.924	893.21	16.901	905.09	17.002	908.84	16.877	912.07
16.888	731.05	17.041	882.78	16.904	893.03	16.881	904.85	16.982	908.68	16.856	911.93
16.868	730.84	17.021	882.57	16.884	892.91	16.861	904.71	16.961	908.50	16.836	911.81
16.848	730.55	17.001	882.42	16.865	892.76	16.841	904.65	16.941	908.35	16.816	911.63
16.828	730.31	16.982	882.29	16.845	892.65	16.821	904.52	16.921	908.24	16.795	911.49
16.808	730.14	16.962	882.16	16.825	892.55	16.801	904.33	16.900	908.13	16.775	911.39
16.788	729.88	16.943	881.99	16.805	892.37	16.780	904.21	16.880	907.98	16.754	911.19
16.768	729.67	16.923	881.85	16.786	892.23	16.760	904.13	16.859	907.78	16.734	911.07
16.748	729.39	16.903	881.75	16.766	892.04	16.740	904.00	16.839	907.69	16.714	910.92
16.728	729.16	16.884	881.58	16.746	891.92	16.720	903.86	16.819	907.52	16.693	910.76
16.708	728.97	16.864	881.43	16.726	891.75	16.700	903.73	16.798	907.37	16.673	910.66
16.688	728.70	16.845	881.33	16.707	891.60	16.680	903.60	16.778	907.23	16.653	910.51
16.668	728.42	16.825	881.17	16.687	891.48	16.660	903.46	16.757	907.06	16.632	910.34
16.648	728.25	16.805	881.01	16.667	891.35	16.640	903.32	16.737	906.95	16.612	910.18
16.628	728.02	16.786	880.89	16.647	891.19	16.619	903.19	16.717	906.79	16.591	910.02
16.608	727.78	16.766	880.72	16.628	891.02	16.599	903.05	16.696	906.67	16.571	909.93
16.588	727.55	16.747	880.60	16.608	890.90	16.579	902.91	16.676	906.47	16.551	909.77
16.568	727.32	16.727	880.44	16.588	890.76	16.559	902.77	16.655	906.32	16.530	909.58
16.548	727.06	16.707	880.36	16.568	890.58	16.539	902.63	16.635	906.18	16.510	909.45
16.528	726.80	16.688	880.17	16.549	890.42	16.519	902.50	16.615	906.06	16.490	909.29
16.508	726.56	16.668	880.00	16.529	890.30	16.499	902.42	16.594	905.90	16.469	909.15
16.488	726.31	16.649	879.90	16.509	890.17	16.478	902.29	16.574	905.75	16.449	909.04
16.468	726.03	16.629	879.74	16.489	890.00	16.458	902.14	16.553	905.63	16.428	908.87
16.448	725.82	16.609	879.59	16.470	889.86	16.438	901.99	16.533	905.46	16.408	908.73
16.428	725.56	16.590	879.42	16.450	889.69	16.418	901.85	16.513	905.31	16.388	908.55
16.409	725.31	16.570	879.30	16.430	889.56	16.398	901.71	16.492	905.19	16.367	908.46
16.389	725.06	16.551	879.16	16.410	889.42	16.378	901.56	16.472	905.06	16.347	908.30
16.369	724.82	16.531	878.98	16.391	889.29	16.358	901.44	16.451	904.89	16.327	908.12
16.349	724.60	16.511	878.89	16.371	889.07	16.337	901.36	16.431	904.76	16.306	908.00
16.329	724.35	16.492	878.72	16.351	888.94	16.317	901.22	16.410	904.59	16.286	907.81
16.309	724.12	16.472	878.60	16.331	888.80	16.297	901.07	16.390	904.46	16.265	907.70
16.289	723.85	16.453	878.41	16.312	888.64	16.277	900.92	16.370	904.29	16.245	907.57
16.269	723.59	16.433	878.24	16.292	888.51	16.257	900.78	16.349	904.12	16.225	907.40
16.249	723.30	16.413	878.15	16.272	888.38	16.237	900.62	16.329	904.02	16.204	907.24
16.229	723.08	16.394	877.99	16.252	888.18	16.217	900.46	16.308	903.83	16.184	907.10
16.209	722.85	16.374	877.82	16.233	888.02	16.197	900.31	16.288	903.69	16.163	906.94
16.189	722.57	16.355	877.66	16.213	887.90	16.176	900.18	16.268	903.57	16.143	906.83
16.169	722.32	16.335	877.49	16.193	887.76	16.156	900.07	16.247	903.42	16.123	906.67
16.149	722.15	16.315	877.38	16.173	887.62	16.136	899.95	16.227	903.28	16.102	906.50
16.129	721.92	16.296	877.25	16.154	887.47	16.116	899.79	16.206	903.11	16.082	906.34
16.109	721.59	16.276	877.09	16.134	887.27	16.096	899.64	16.186	902.95	16.062	906.19
16.089	721.35	16.257	876.92	16.114	887.14	16.076	899.49	16.166	902.82	16.041	906.02
16.069	721.10	16.237	876.75	16.094	887.00	16.056	899.34	16.145	902.67	16.021	905.87
16.049	720.86	16.217	876.59	16.074	886.86	16.035	899.18	16.125	902.50	16.000	905.73
16.029	720.68	16.198	876.52	16.055	886.71	16.015	899.03	16.104	902.38	15.980	905.60
16.009	720.37	16.178	876.31	16.035	886.49	15.995	898.88	16.084	902.18	15.960	905.44
15.989	720.15	16.159	876.17	16.015	886.34	15.975	898.73	16.064	902.05	15.939	905.27
15.969	719.92	16.139	876.00	15.995	886.20	15.955	898.62	16.043	901.89	15.919	905.11
15.950	719.64	16.119	875.86	15.976	886.06	15.935	898.50	16.023	901.78	15.899	905.01
15.930	719.37	16.100	875.69	15.956	885.90	15.915	898.34	16.002	901.60	15.878	904.87
15.910	719.14	16.080	875.56	15.936	885.76	15.895	898.18	15.982	901.45	15.858	904.70
15.890	718.92	16.061	875.37	15.916	885.62	15.874	898.06	15.962	901.32	15.837	904.54
15.870	718.66	16.041	875.29	15.897	885.39	15.854	897.94	15.941	901.09	15.817	904.42
15.850	718.34	16.021	875.10	15.877	885.25	15.834	897.79	15.921	900.93	15.797	904.23
15.830	718.10	16.002	874.97	15.857	885.11	15.814	897.63	15.900	900.82	15.776	904.11

15.810	717.85	15.982	874.80	15.837	884.95	15.794	897.46	15.880	900.67	15.756	903.96
15.790	717.60	15.963	874.64	15.818	884.81	15.774	897.33	15.859	900.50	15.736	903.81
15.770	717.31	15.943	874.46	15.798	884.67	15.754	897.22	15.839	900.32	15.715	903.69
15.750	717.03	15.923	874.32	15.778	884.51	15.733	897.06	15.819	900.17	15.695	903.55
15.730	716.79	15.904	874.15	15.758	884.36	15.713	896.88	15.798	900.09	15.674	903.42
15.710	716.57	15.884	873.98	15.739	884.21	15.693	896.73	15.778	899.84	15.654	903.28
15.690	716.29	15.865	873.86	15.719	884.05	15.673	896.62	15.757	899.74	15.634	903.15
15.670	716.05	15.845	873.66	15.699	883.88	15.653	896.47	15.737	899.60	15.613	902.99
15.650	715.73	15.825	873.55	15.679	883.74	15.633	896.30	15.717	899.45	15.593	902.85
15.630	715.52	15.806	873.41	15.660	883.57	15.613	896.15	15.696	899.27	15.573	902.71
15.610	715.19	15.786	873.17	15.640	883.42	15.593	896.03	15.676	899.12	15.552	902.54
15.590	714.92	15.767	873.05	15.620	883.27	15.572	895.75	15.655	898.94	15.532	902.41
15.570	714.68	15.747	872.88	15.600	883.11	15.552	895.35	15.635	898.78	15.511	902.29
15.550	714.43	15.727	872.76	15.581	882.95	15.532	895.34	15.615	898.65	15.491	902.15
15.530	714.10	15.708	872.59	15.561	882.79	15.512	894.66	15.594	898.54	15.471	901.96
15.510	713.78	15.688	872.47	15.541	882.63	15.492	894.50	15.574	898.35	15.450	901.85
15.490	713.53	15.669	872.27	15.521	882.42	15.472	894.34	15.553	898.21	15.430	901.68
15.471	713.29	15.649	872.17	15.502	882.24	15.452	894.18	15.533	898.01	15.410	901.51
15.451	713.05	15.629	871.99	15.482	882.14	15.431	894.01	15.513	897.88	15.389	901.38
15.431	712.72	15.610	871.83	15.462	881.93	15.411	893.86	15.492	897.71	15.369	901.21
15.411	712.48	15.590	871.64	15.442	881.81	15.391	893.77	15.472	897.59	15.348	901.07
15.391	712.23	15.571	871.53	15.423	881.66	15.371	893.56	15.451	897.39	15.328	900.95
15.371	711.94	15.551	871.37	15.403	881.50	15.351	893.44	15.431	897.28	15.308	900.80
15.351	711.69	15.531	871.20	15.383	881.36	15.331	893.28	15.411	897.11	15.287	900.61
15.331	711.42	15.512	871.07	15.363	881.19	15.311	893.11	15.390	896.98	15.267	900.50
15.311	711.17	15.492	870.88	15.344	881.03	15.290	893.01	15.370	896.83	15.246	900.31
15.291	710.85	15.473	870.71	15.324	880.85	15.270	892.83	15.349	896.71	15.226	900.21
15.271	710.60	15.453	870.55	15.304	880.69	15.250	892.71	15.329	896.48	15.206	899.98
15.251	710.35	15.433	870.39	15.284	880.52	15.230	892.59	15.308	896.33	15.185	899.90
15.231	710.10	15.414	870.22	15.265	880.34	15.210	892.39	15.288	896.19	15.165	899.73
15.211	709.77	15.394	870.06	15.245	880.24	15.190	892.26	15.268	896.06	15.145	899.58
15.191	709.46	15.375	869.90	15.225	880.09	15.170	892.13	15.247	895.92	15.124	899.41
15.171	709.22	15.355	869.77	15.205	879.91	15.150	892.01	15.227	895.76	15.104	899.26
15.151	708.90	15.335	869.62	15.186	879.74	15.129	891.81	15.206	895.61	15.083	899.08
15.131	708.65	15.316	869.43	15.166	879.56	15.109	891.64	15.186	895.46	15.063	898.98
15.111	708.36	15.296	869.25	15.146	879.39	15.089	891.52	15.166	895.28	15.043	898.80
15.091	708.03	15.277	869.13	15.126	879.29	15.069	891.36	15.145	895.15	15.022	898.63
15.071	707.76	15.257	868.91	15.107	879.12	15.049	891.22	15.125	894.99	15.002	898.45
15.051	707.50	15.237	868.75	15.087	878.94	15.029	891.08	15.104	894.86	14.982	898.34
15.031	707.19	15.218	868.58	15.067	878.77	15.009	890.94	15.084	894.70	14.961	898.16
15.011	706.93	15.198	868.42	15.047	878.59	14.988	890.77	15.064	894.55	14.941	897.98
14.992	706.62	15.179	868.26	15.028	878.41	14.968	890.66	15.043	894.37	14.920	897.84
14.972	706.31	15.159	868.07	15.008	878.31	14.948	890.44	15.023	894.22	14.900	897.71
14.952	706.05	15.139	867.93	14.988	878.11	14.928	890.29	15.002	894.12	14.880	897.51
14.932	705.72	15.120	867.76	14.968	877.93	14.908	890.14	14.982	893.93	14.859	897.37
14.912	705.40	15.100	867.60	14.948	877.78	14.888	890.00	14.962	893.75	14.839	897.22
14.892	705.15	15.081	867.44	14.929	877.60	14.868	889.82	14.941	893.64	14.819	897.04
14.872	704.85	15.061	867.28	14.909	877.45	14.848	889.67	14.921	893.43	14.798	896.87
14.852	704.56	15.041	867.11	14.889	877.27	14.827	889.51	14.900	893.26	14.778	896.76
14.832	704.26	15.022	866.95	14.869	877.10	14.807	889.35	14.880	893.15	14.757	896.58
14.812	703.98	15.002	866.79	14.850	876.93	14.787	889.19	14.860	892.98	14.737	896.39
14.792	703.69	14.983	866.56	14.830	876.77	14.767	889.02	14.839	892.81	14.717	896.21
14.772	703.41	14.963	866.45	14.810	876.60	14.747	888.86	14.819	892.65	14.696	896.07
14.752	703.12	14.943	866.30	14.790	876.49	14.727	888.70	14.798	892.49	14.676	895.95
14.732	702.87	14.924	866.12	14.771	876.28	14.707	888.54	14.778	892.32	14.656	895.74

14.712	702.55	14.904	865.92	14.751	876.14	14.686	888.39	14.757	892.16	14.635	895.62
14.692	702.22	14.885	865.81	14.731	875.97	14.666	888.21	14.737	891.99	14.615	895.41
14.672	701.97	14.865	865.57	14.711	875.79	14.646	888.03	14.717	891.83	14.594	895.24
14.652	701.60	14.845	865.40	14.692	875.62	14.626	887.86	14.696	891.68	14.574	895.09
14.632	701.33	14.826	865.24	14.672	875.45	14.606	887.74	14.676	891.50	14.554	894.92
14.612	701.05	14.806	865.09	14.652	875.26	14.586	887.54	14.655	891.34	14.533	894.74
14.592	700.76	14.787	864.91	14.632	875.10	14.566	887.40	14.635	891.18	14.513	894.59
14.572	700.43	14.767	864.75	14.613	874.97	14.546	887.23	14.615	891.04	14.493	894.44
14.552	700.13	14.747	864.58	14.593	874.79	14.525	887.04	14.594	890.86	14.472	894.31
14.533	699.86	14.728	864.38	14.573	874.60	14.505	886.91	14.574	890.69	14.452	894.15
14.513	699.59	14.708	864.26	14.553	874.41	14.485	886.73	14.553	890.52	14.431	893.92
14.493	699.21	14.689	864.07	14.534	874.26	14.465	886.54	14.533	890.36	14.411	893.79
14.473	698.93	14.669	863.86	14.514	874.11	14.445	886.38	14.513	890.20	14.391	893.60
14.453	698.56	14.649	863.68	14.494	873.93	14.425	886.18	14.492	890.03	14.370	893.46
14.433	698.25	14.630	863.53	14.474	873.75	14.405	886.03	14.472	889.91	14.350	893.30
14.413	697.99	14.610	863.36	14.455	873.56	14.384	885.83	14.451	889.75	14.329	893.14
14.393	697.66	14.591	863.18	14.435	873.38	14.364	885.67	14.431	889.54	14.309	892.91
14.373	697.34	14.571	863.03	14.415	873.19	14.344	885.57	14.411	889.38	14.289	892.76
14.353	697.10	14.551	862.81	14.395	872.99	14.324	885.39	14.390	889.21	14.268	892.60
14.333	696.77	14.532	862.65	14.376	872.88	14.304	885.18	14.370	889.10	14.248	892.43
14.313	696.44	14.512	862.47	14.356	872.71	14.284	885.02	14.349	888.89	14.228	892.27
14.293	696.12	14.493	862.29	14.336	872.55	14.264	884.84	14.329	888.71	14.207	892.11
14.273	695.79	14.473	862.13	14.316	872.37	14.243	884.69	14.309	888.55	14.187	891.93
14.253	695.47	14.453	861.99	14.297	872.21	14.223	884.46	14.288	888.40	14.166	891.78
14.233	695.14	14.434	861.77	14.277	872.01	14.203	884.32	14.268	888.23	14.146	891.59
14.213	694.82	14.414	861.64	14.257	871.82	14.183	884.18	14.247	888.06	14.126	891.45
14.193	694.50	14.395	861.42	14.237	871.64	14.163	884.01	14.227	887.87	14.105	891.25
14.173	694.25	14.375	861.23	14.218	871.47	14.143	883.79	14.206	887.67	14.085	891.07
14.153	694.00	14.355	861.12	14.198	871.31	14.123	883.66	14.186	887.54	14.065	890.93
14.133	693.68	14.336	860.90	14.178	871.14	14.103	883.50	14.166	887.34	14.044	890.79
14.113	693.44	14.316	860.72	14.158	870.92	14.082	883.31	14.145	887.18	14.024	890.59
14.093	693.11	14.297	860.58	14.139	870.80	14.062	883.11	14.125	887.05	14.003	890.40
14.073	692.83	14.277	860.41	14.119	870.61	14.042	882.94	14.104	886.84	13.983	890.27
14.054	692.54	14.257	860.24	14.099	870.38	14.022	882.77	14.084	886.70	13.963	890.09
14.034	692.22	14.238	860.04	14.079	870.25	14.002	882.61	14.064	886.51	13.942	889.92
14.014	691.94	14.218	859.87	14.060	870.09	13.982	882.46	14.043	886.31	13.922	889.75
13.994	692.11	14.199	859.68	14.040	869.89	13.962	882.27	14.023	886.15	13.902	889.57
13.974	691.80	14.179	859.51	14.020	869.68	13.941	882.10	14.002	886.01	13.881	889.44
13.954	691.50	14.159	859.35	14.000	869.55	13.921	881.93	13.982	885.86	13.861	889.24
13.934	691.20	14.140	859.13	13.981	869.36	13.901	881.74	13.962	885.68	13.840	889.08
13.914	690.89	14.120	858.95	13.961	869.21	13.881	881.58	13.941	885.45	13.820	888.88
13.894	690.59	14.101	858.85	13.941	868.99	13.861	881.43	13.921	885.29	13.800	888.70
13.874	690.28	14.081	858.62	13.921	868.86	13.841	881.19	13.900	885.09	13.779	888.52
13.854	689.98	14.061	858.45	13.902	868.65	13.821	881.01	13.880	884.94	13.759	888.34
13.834	689.68	14.042	858.29	13.882	868.50	13.801	880.84	13.860	884.79	13.739	888.17
13.814	689.37	14.022	858.08	13.862	868.31	13.780	880.68	13.839	884.63	13.718	888.01
13.794	689.07	14.003	857.92	13.842	868.09	13.760	880.52	13.819	884.39	13.698	887.85
13.774	688.77	13.983	857.71	13.822	867.95	13.740	880.34	13.798	884.28	13.677	887.63
13.754	688.46	13.963	857.55	13.803	867.73	13.720	880.18	13.778	884.09	13.657	887.46
13.734	688.16	13.944	857.39	13.783	867.59	13.700	880.00	13.758	883.90	13.637	887.27
13.714	687.85	13.924	857.18	13.763	867.36	13.680	879.78	13.737	883.72	13.616	887.09
13.694	687.55	13.905	856.98	13.743	867.18	13.660	879.62	13.717	883.57	13.596	886.95
13.674	687.25	13.885	856.81	13.724	867.01	13.639	879.47	13.696	883.36	13.576	886.75
13.654	686.94	13.865	856.64	13.704	866.86	13.619	879.29	13.676	883.20	13.555	886.54
13.634	686.64	13.846	856.44	13.684	866.64	13.599	879.11	13.656	882.99	13.535	886.38

13.614	686.34	13.826	856.25	13.664	866.49	13.579	878.93	13.635	882.83	13.514	886.21
13.595	686.05	13.807	856.08	13.645	866.26	13.559	878.72	13.615	882.60	13.494	886.03
13.575	685.74	13.787	855.91	13.625	866.10	13.539	878.54	13.594	882.42	13.474	885.89
13.555	685.44	13.767	855.68	13.605	865.87	13.519	878.39	13.574	882.26	13.453	885.73
13.535	685.14	13.748	855.50	13.585	865.78	13.499	878.20	13.553	882.09	13.433	885.55
13.515	684.83	13.728	855.34	13.566	865.55	13.478	877.99	13.533	881.93	13.412	885.36
13.495	684.53	13.709	855.18	13.546	865.38	13.458	877.83	13.513	881.74	13.392	885.19
13.475	684.23	13.689	855.01	13.526	865.15	13.438	877.65	13.492	881.53	13.372	885.07
13.455	683.92	13.669	854.77	13.506	864.98	13.418	877.47	13.472	881.40	13.351	884.90
13.435	683.62	13.650	854.60	13.487	864.81	13.398	877.33	13.451	881.19	13.331	884.73
13.415	683.31	13.630	854.44	13.467	864.57	13.378	877.10	13.431	881.03	13.311	884.55
13.395	683.01	13.611	854.19	13.447	864.41	13.358	876.95	13.411	880.79	13.290	884.35
13.375	682.71	13.591	854.03	13.427	864.24	13.337	876.74	13.390	880.64	13.270	884.17
13.355	682.40	13.571	853.84	13.408	864.05	13.317	876.51	13.370	880.46	13.249	883.98
13.335	682.10	13.552	853.67	13.388	863.88	13.297	876.39	13.349	880.29	13.229	883.81
13.315	681.80	13.532	853.50	13.368	863.61	13.277	876.20	13.329	880.13	13.209	883.68
13.295	681.49	13.513	853.28	13.348	863.47	13.257	875.99	13.309	879.88	13.188	883.51
13.275	681.19	13.493	853.10	13.329	863.28	13.237	875.61	13.288	879.75	13.168	883.34
13.255	680.88	13.473	852.91	13.309	863.11	13.217	875.32	13.268	879.55	13.148	883.16
13.235	680.58	13.454	852.72	13.289	862.86	13.196	875.22	13.247	879.39	13.127	882.98
13.215	680.28	13.434	852.52	13.269	862.68	13.176	875.16	13.227	879.23	13.107	882.79
13.195	679.97	13.415	852.32	13.250	862.52	13.156	874.87	13.207	879.02	13.086	882.60
13.175	679.67	13.395	852.15	13.230	862.31	13.136	874.72	13.186	878.82	13.066	882.40
13.155	679.37	13.375	851.95	13.210	862.11	13.116	874.54	13.166	878.64	13.046	882.20
13.135	678.66	13.356	851.74	13.190	861.92	13.096	874.35	13.145	878.48	13.025	882.08
13.116	678.26	13.336	851.58	13.171	861.75	13.076	874.13	13.125	878.25	13.005	881.87
13.096	677.94	13.317	851.35	13.151	861.52	13.056	873.99	13.105	878.07	12.985	881.71
13.076	677.59	13.297	851.20	13.131	861.32	13.035	873.81	13.084	877.92	12.964	881.54
13.056	677.17	13.277	851.01	13.111	861.14	13.015	873.62	13.064	877.75	12.944	881.32
13.036	676.84	13.258	850.76	13.092	860.97	12.995	873.47	13.043	877.51	12.923	881.10
13.016	676.50	13.238	850.60	13.072	860.80	12.975	873.23	13.023	877.30	12.903	880.97
12.996	676.05	13.219	850.35	13.052	860.59	12.955	873.06	13.002	877.16	12.883	880.75
12.976	675.70	13.199	850.19	13.032	860.36	12.935	872.90	12.982	876.94	12.862	880.57
12.956	675.33	13.179	850.03	13.013	860.20	12.915	872.69	12.962	876.80	12.842	880.42
12.936	674.95	13.160	849.82	12.993	859.98	12.894	872.54	12.941	876.53	12.822	880.20
12.916	674.57	13.140	849.62	12.973	859.80	12.874	872.33	12.921	876.41	12.801	880.00
12.896	674.18	13.121	849.40	12.953	859.59	12.854	872.15	12.900	876.20	12.781	879.88
12.876	673.78	13.101	849.21	12.934	859.42	12.834	871.95	12.880	876.03	12.760	879.68
12.856	673.40	13.081	849.04	12.914	859.23	12.814	871.76	12.860	875.80	12.740	879.47
12.836	672.97	13.062	848.80	12.894	859.04	12.794	871.57	12.839	875.63	12.720	879.26
12.816	672.61	13.042	848.64	12.874	858.85	12.774	871.39	12.819	875.47	12.699	879.03
12.796	672.24	13.023	848.42	12.855	858.66	12.754	871.21	12.798	875.26	12.679	878.90
12.776	671.84	13.003	848.22	12.835	858.43	12.733	870.99	12.778	875.09	12.659	878.68
12.756	671.42	12.983	848.06	12.815	858.27	12.713	870.82	12.758	874.89	12.638	878.54
12.736	670.98	12.964	847.82	12.795	858.02	12.693	870.64	12.737	874.66	12.618	878.33
12.716	670.61	12.944	847.65	12.775	857.86	12.673	870.45	12.717	874.48	12.597	878.11
12.696	670.21	12.925	847.49	12.756	857.61	12.653	870.22	12.696	874.27	12.577	877.99
12.676	669.78	12.905	847.25	12.736	857.45	12.633	870.06	12.676	874.07	12.557	877.77
12.657	669.38	12.885	847.00	12.716	857.28	12.613	869.88	12.656	873.89	12.536	877.56
12.637	668.91	12.866	846.83	12.696	857.04	12.592	869.67	12.635	873.70	12.516	877.36
12.617	668.52	12.846	846.66	12.677	856.82	12.572	869.47	12.615	873.50	12.496	877.13
12.597	668.12	12.827	846.43	12.657	856.64	12.552	869.24	12.594	873.25	12.475	877.01
12.577	667.68	12.807	846.26	12.637	856.42	12.532	869.05	12.574	873.07	12.455	876.78
12.557	667.22	12.787	846.02	12.617	856.26	12.512	868.90	12.554	872.86	12.434	876.57
12.537	666.79	12.768	845.83	12.598	856.07	12.492	868.67	12.533	872.68	12.414	876.42

12.517	666.36	12.748	845.61	12.578	855.84	12.472	868.49	12.513	872.50	12.394	876.21
12.497	665.87	12.729	845.45	12.558	855.63	12.452	868.31	12.492	872.27	12.373	876.01
12.477	665.49	12.709	845.20	12.538	855.41	12.431	868.12	12.472	872.07	12.353	875.80
12.457	665.00	12.689	845.01	12.519	855.19	12.411	867.91	12.451	871.86	12.332	875.65
12.437	664.58	12.670	844.79	12.499	854.99	12.391	867.72	12.431	871.65	12.312	875.41
12.417	664.13	12.650	844.58	12.479	854.81	12.371	867.50	12.411	871.48	12.292	875.25
12.397	663.69	12.631	844.38	12.459	854.58	12.351	867.36	12.390	871.29	12.271	875.02
12.377	663.24	12.611	844.14	12.440	854.40	12.331	867.13	12.370	871.04	12.251	874.84
12.357	662.77	12.591	843.95	12.420	854.23	12.311	866.93	12.349	870.80	12.231	874.62
12.337	662.32	12.572	843.73	12.400	853.98	12.290	866.70	12.329	870.66	12.210	874.43
12.317	661.82	12.552	843.53	12.380	853.80	12.270	866.52	12.309	870.43	12.190	874.19
12.297	661.34	12.533	843.28	12.361	853.57	12.250	866.32	12.288	870.22	12.169	874.04
12.277	660.84	12.513	843.07	12.341	853.36	12.230	866.10	12.268	870.03	12.149	873.80
12.257	660.33	12.493	842.84	12.321	853.19	12.210	865.95	12.247	869.82	12.129	873.65
12.237	659.89	12.474	842.66	12.301	852.99	12.190	865.70	12.227	869.63	12.108	873.44
12.217	659.45	12.454	842.42	12.282	852.78	12.170	865.47	12.207	869.39	12.088	873.23
12.197	658.98	12.435	842.19	12.262	852.54	12.149	865.23	12.186	869.24	12.068	873.02
12.178	658.48	12.415	842.02	12.242	852.33	12.129	865.00	12.166	869.00	12.047	872.82
12.158	657.94	12.395	841.84	12.222	852.11	12.109	864.80	12.145	868.81	12.027	872.59
12.138	657.41	12.376	841.60	12.203	851.88	12.089	864.42	12.125	868.62	12.006	872.41
12.118	656.95	12.356	841.36	12.183	851.67	12.069	864.47	12.105	868.41	11.986	872.23
12.098	656.46	12.337	841.13	12.163	851.49	12.049	864.07	12.084	868.21	11.966	871.98
12.078	655.92	12.317	840.94	12.143	851.30	12.029	863.90	12.064	868.01	11.945	871.80
12.058	655.41	12.297	840.75	12.124	851.11	12.009	863.72	12.043	867.81	11.925	871.58
12.038	654.94	12.278	840.52	12.104	850.83	11.988	863.55	12.023	867.60	11.905	871.38
12.018	654.52	12.258	840.32	12.084	850.63	11.968	863.39	12.003	867.38	11.884	871.16
11.998	653.97	12.239	840.11	12.064	850.41	11.948	863.19	11.982	867.19	11.864	870.99
11.978	653.41	12.219	839.89	12.045	850.23	11.928	863.00	11.962	867.02	11.843	870.80
11.958	652.92	12.199	839.64	12.025	850.14	11.908	862.78	11.941	866.79	11.823	870.56
11.938	652.38	12.180	839.48	12.005	850.01	11.888	862.61	11.921	866.56	11.803	870.34
11.918	651.82	12.160	839.23	11.985	849.86	11.868	862.39	11.900	866.38	11.782	870.10
11.898	651.37	12.141	838.99	11.966	849.66	11.847	862.17	11.880	866.15	11.762	869.91
11.878	650.83	12.121	838.82	11.946	849.46	11.827	862.01	11.860	865.97	11.742	869.71
11.858	650.35	12.101	838.58	11.926	849.26	11.807	861.78	11.839	865.74	11.721	869.52
11.838	649.82	12.082	838.39	11.906	849.07	11.787	861.55	11.819	865.56	11.701	869.31
11.818	649.27	12.062	838.17	11.887	848.87	11.767	861.37	11.798	865.32	11.680	869.10
11.798	648.74	12.043	837.92	11.867	848.67	11.747	861.17	11.778	865.15	11.660	868.86
11.778	648.17	12.023	837.69	11.847	848.50	11.727	860.94	11.758	864.93	11.640	868.66
11.758	647.64	12.003	837.51	11.827	848.32	11.707	860.73	11.737	864.74	11.619	868.44
11.738	647.07	11.984	837.29	11.808	848.13	11.686	860.47	11.717	864.50	11.599	868.21
11.718	646.58	11.964	837.07	11.788	847.90	11.666	860.28	11.696	864.32	11.579	868.01
11.699	646.05	11.945	836.86	11.768	847.66	11.646	860.12	11.676	864.09	11.558	867.79
11.679	645.42	11.925	836.62	11.748	847.47	11.626	859.87	11.656	863.83	11.538	867.60
11.659	644.95	11.905	836.37	11.729	847.28	11.606	859.70	11.635	863.66	11.517	867.41
11.639	644.41	11.886	836.08	11.709	847.08	11.586	859.44	11.615	863.43	11.497	867.16
11.619	643.84	11.866	835.90	11.689	846.88	11.566	859.25	11.594	863.19	11.477	866.98
11.599	643.28	11.847	835.72	11.669	846.67	11.545	858.99	11.574	862.94	11.456	866.76
11.579	642.68	11.827	835.47	11.649	846.48	11.525	858.75	11.554	862.75	11.436	866.54
11.559	642.12	11.807	835.22	11.630	846.25	11.505	858.58	11.533	862.53	11.415	866.32
11.539	641.58	11.788	834.98	11.610	846.08	11.485	858.34	11.513	862.29	11.395	866.08
11.519	640.97	11.768	834.75	11.590	845.88	11.465	858.09	11.492	862.09	11.375	865.88
11.499	640.28	11.749	834.53	11.570	845.63	11.445	857.90	11.472	861.88	11.354	865.67
11.479	639.67	11.729	834.32	11.551	845.47	11.425	857.70	11.452	861.63	11.334	865.44
11.459	639.20	11.709	834.08	11.531	845.25	11.405	857.48	11.431	861.41	11.314	865.18
11.439	638.63	11.690	833.83	11.511	845.03	11.384	857.22	11.411	861.20	11.293	864.99



11.419	638.06	11.670	833.59	11.491	844.82	11.364	857.02	11.390	860.96	11.273	864.79
11.399	637.39	11.651	833.34	11.472	844.61	11.344	856.78	11.370	860.73	11.252	864.59
11.379	636.78	11.631	833.10	11.452	844.41	11.324	856.54	11.349	860.49	11.232	864.36
11.359	636.20	11.611	832.85	11.432	844.19	11.304	856.29	11.329	860.24	11.212	864.13
11.339	635.61	11.592	832.69	11.412	843.97	11.284	856.12	11.309	860.02	11.191	863.90
11.319	635.03	11.572	832.44	11.393	843.72	11.264	855.87	11.288	859.81	11.171	863.62
11.299	634.32	11.553	832.32	11.373	843.46	11.243	855.67	11.268	859.58	11.151	863.46
11.279	633.69	11.533	832.00	11.353	843.28	11.223	855.39	11.247	859.34	11.130	863.23
11.259	633.02	11.513	831.79	11.333	843.08	11.203	855.22	11.227	859.09	11.110	863.05
11.240	632.35	11.494	831.76	11.314	842.84	11.183	854.98	11.207	858.89	11.089	862.77
11.220	631.55	11.474	831.27	11.294	842.59	11.163	854.74	11.186	858.68	11.069	862.56
11.200	630.93	11.455	831.05	11.274	842.40	11.143	854.53	11.166	858.43	11.049	862.33
11.180	630.13	11.435	830.81	11.254	842.21	11.123	854.31	11.145	858.15	11.028	862.15
11.160	629.53	11.415	830.56	11.235	841.97	11.102	854.07	11.125	857.94	11.008	861.85
11.140	628.96	11.396	830.35	11.215	841.76	11.082	853.80	11.105	857.70	10.988	861.64
11.120	628.23	11.376	830.07	11.195	841.55	11.062	853.59	11.084	857.46	10.967	861.40
11.100	627.46	11.357	829.83	11.175	841.33	11.042	853.36	11.064	857.21	10.947	861.16
11.080	626.73	11.337	829.64	11.156	841.10	11.022	853.10	11.043	857.01	10.926	860.95
11.060	626.04	11.317	829.36	11.136	840.82	11.002	852.90	11.023	856.78	10.906	860.73
11.040	625.30	11.298	829.16	11.116	840.63	10.982	852.63	11.003	856.55	10.886	860.49
11.020	624.75	11.278	828.93	11.096	840.46	10.962	852.43	10.982	856.35	10.865	860.25
11.000	624.09	11.259	828.68	11.077	840.21	10.941	852.18	10.962	856.12	10.845	860.01
10.980	623.19	11.239	828.51	11.057	839.93	10.921	851.95	10.941	855.90	10.825	859.76
10.960	622.62	11.219	828.19	11.037	839.78	10.901	851.71	10.921	855.58	10.804	859.57
10.940	621.97	11.200	827.95	11.017	839.53	10.881	851.47	10.901	855.39	10.784	859.32
10.920	621.16	11.180	827.70	10.998	839.26	10.861	851.34	10.880	855.16	10.763	859.05
10.900	620.27	11.161	827.45	10.978	839.06	10.841	851.16	10.860	854.92	10.743	858.80
10.880	619.54	11.141	827.21	10.958	838.81	10.821	850.91	10.839	854.67	10.723	858.63
10.860	619.16	11.121	826.97	10.938	838.58	10.800	850.69	10.819	854.43	10.702	858.38
10.840	618.90	11.102	826.72	10.919	838.39	10.780	850.52	10.799	854.26	10.682	858.13
10.820	618.64	11.082	826.47	10.899	838.15	10.760	850.38	10.778	854.02	10.662	857.89
10.800	618.38	11.063	826.23	10.879	837.94	10.740	850.15	10.758	853.72	10.641	857.66
10.780	617.85	11.043	825.98	10.859	837.70	10.720	849.90	10.737	853.52	10.621	857.38
10.761	617.25	11.023	825.74	10.840	837.46	10.700	849.63	10.717	853.26	10.600	857.17
10.741	616.64	11.004	825.49	10.820	837.24	10.680	849.51	10.696	853.04	10.580	856.91
10.721	616.01	10.984	825.25	10.800	837.01	10.660	849.27	10.676	852.79	10.560	856.65
10.701	615.37	10.965	825.00	10.780	836.72	10.639	849.08	10.656	852.54	10.539	856.41
10.681	614.73	10.945	824.76	10.761	836.53	10.619	848.89	10.635	852.29	10.519	856.18
10.661	614.12	10.925	824.50	10.741	836.24	10.599	848.65	10.615	852.05	10.498	855.93
10.641	613.43	10.906	824.26	10.721	835.99	10.579	848.42	10.594	851.81	10.478	855.65
10.621	612.79	10.886	823.95	10.701	835.75	10.559	848.20	10.574	851.56	10.458	855.43
10.601	612.14	10.867	823.69	10.682	835.54	10.539	847.98	10.554	851.32	10.437	855.18
10.581	611.48	10.847	823.78	10.662	835.26	10.519	847.76	10.533	851.08	10.417	854.86
10.561	610.80	10.827	823.20	10.642	835.05	10.498	847.54	10.513	850.86	10.397	854.65
10.541	610.15	10.808	822.95	10.622	834.79	10.478	847.30	10.492	850.59	10.376	854.44
10.521	609.47	10.788	822.63	10.603	834.54	10.458	847.08	10.472	850.36	10.356	854.13
10.501	608.78	10.769	822.38	10.583	834.30	10.438	846.87	10.452	850.09	10.335	853.88
10.481	608.02	10.749	822.14	10.563	834.05	10.418	846.66	10.431	849.84	10.315	853.68
10.461	607.23	10.729	821.85	10.543	833.80	10.398	846.45	10.411	849.60	10.295	853.41
10.441	606.53	10.710	821.57	10.523	833.55	10.378	846.22	10.390	849.30	10.274	853.17
10.421	605.76	10.690	821.32	10.504	833.31	10.358	845.98	10.370	849.07	10.254	852.88
10.401	604.99	10.671	821.07	10.484	833.06	10.337	845.71	10.350	848.79	10.234	852.71
10.381	604.16	10.651	820.83	10.464	832.78	10.317	845.42	10.329	848.53	10.213	852.46
10.361	603.30	10.631	820.58	10.444	832.52	10.297	845.25	10.309	848.28	10.193	852.13
10.341	602.51	10.612	820.33	10.425	832.23	10.277	845.05	10.288	848.04	10.172	851.89

10.321	601.66	10.592	820.01	10.405	831.98	10.257	844.78	10.268	847.71	10.152	851.70
10.302	600.78	10.573	819.77	10.385	831.69	10.237	844.48	10.248	847.47	10.132	851.41
10.282	599.94	10.553	819.52	10.365	831.47	10.217	844.31	10.227	847.22	10.111	851.17
10.262	599.02	10.533	819.27	10.346	831.23	10.196	844.08	10.207	846.98	10.091	850.91
10.242	598.14	10.514	818.95	10.326	831.00	10.176	843.81	10.186	846.67	10.071	850.71
10.222	597.23	10.494	818.70	10.306	830.72	10.156	843.50	10.166	846.40	10.050	850.49
10.202	596.23	10.475	818.53	10.286	830.45	10.136	843.29	10.145	846.16	10.030	850.22
10.182	595.27	10.455	818.13	10.267	830.19	10.116	843.09	10.125	845.91	10.009	849.94
10.162	594.37	10.435	817.84	10.247	829.94	10.096	842.85	10.105	845.66	9.989	849.69
10.142	593.33	10.416	817.56	10.227	829.57	10.076	842.61	10.084	845.41	9.969	849.40
10.122	592.45	10.396	817.31	10.207	829.32	10.055	842.34	10.064	845.18	9.948	849.16
10.102	591.47	10.377	816.98	10.188	829.11	10.035	842.06	10.043	844.93	9.928	848.96
10.082	590.44	10.357	816.84	10.168	828.83	10.015	841.82	10.023	844.69	9.908	848.67
10.062	589.43	10.337	816.47	10.148	828.55	9.995	841.56	10.003	844.42	9.887	848.42
10.042	588.32	10.318	816.17	10.128	828.32	9.975	841.33	9.982	844.19	9.867	848.16
10.022	587.30	10.298	815.92	10.109	828.02	9.955	841.09	9.962	843.95	9.846	847.90
10.002	586.32	10.279	815.68	10.089	827.72	9.935	840.81	9.941	843.66	9.826	847.62
9.982	585.14	10.259	815.38	10.069	827.40	9.915	840.50	9.921	843.46	9.806	847.33
9.962	584.13	10.239	815.10	10.049	827.17	9.894	840.24	9.901	843.18	9.785	847.12
9.942	583.02	10.220	814.78	10.030	826.83	9.874	840.00	9.880	842.93	9.765	846.82
9.922	581.81	10.200	814.53	10.010	826.62	9.854	839.75	9.860	842.64	9.745	846.58
9.902	580.69	10.181	814.22	9.990	826.33	9.834	839.43	9.839	842.39	9.724	846.26
9.882	579.60	10.161	813.96	9.970	826.01	9.814	839.21	9.819	842.12	9.704	846.02
9.862	578.54	10.141	813.71	9.951	825.87	9.794	838.91	9.799	841.82	9.683	845.77
9.842	577.29	10.122	813.40	9.931	825.46	9.774	838.63	9.778	841.57	9.663	845.47
9.823	576.07	10.102	813.14	9.911	825.20	9.753	838.34	9.758	841.17	9.643	845.20
9.803	574.80	10.083	812.89	9.891	824.98	9.733	838.16	9.737	840.67	9.622	844.95
9.783	573.52	10.063	812.57	9.872	824.67	9.713	837.87	9.717	840.17	9.602	844.70
9.763	572.28	10.043	812.24	9.852	824.32	9.693	837.58	9.697	839.67	9.581	844.41
9.743	570.91	10.024	812.07	9.832	824.08	9.673	837.30	9.676	839.17	9.561	844.13
9.723	569.52	10.004	811.67	9.812	823.86	9.653	837.03	9.656	839.36	9.541	843.80
9.703	568.20	9.985	811.42	9.793	823.49	9.633	836.81	9.635	839.36	9.520	843.54
9.683	566.92	9.965	811.10	9.773	823.19	9.613	836.52	9.615	839.14	9.500	843.24
9.663	565.62	9.945	810.77	9.753	822.93	9.592	836.24	9.594	838.87	9.480	843.02
9.643	564.22	9.926	810.52	9.733	822.64	9.572	835.96	9.574	838.68	9.459	842.67
9.623	562.80	9.906	810.33	9.714	822.29	9.552	835.67	9.554	838.38	9.439	842.41
9.603	561.49	9.887	809.87	9.694	822.05	9.532	835.36	9.533	838.13	9.418	842.13
9.583	560.11	9.867	809.54	9.674	821.72	9.512	835.08	9.513	837.87	9.398	841.86
9.563	558.55	9.847	809.26	9.654	821.47	9.492	834.81	9.492	837.60	9.378	841.58
9.543	556.99	9.828	808.97	9.635	821.20	9.472	834.50	9.472	837.36	9.357	841.31
9.523	555.55	9.808	808.64	9.615	820.87	9.451	834.21	9.452	837.03	9.337	841.01
9.503	553.89	9.789	808.54	9.595	820.52	9.431	833.90	9.431	836.82	9.317	840.69
9.483	552.29	9.769	808.23	9.575	820.20	9.411	833.68	9.411	836.53	9.296	840.42
9.463	550.67	9.749	807.90	9.556	819.96	9.391	833.35	9.390	836.21	9.276	840.19
9.443	549.09	9.730	807.61	9.536	819.64	9.371	833.05	9.370	835.92	9.255	839.89
9.423	547.46	9.710	807.24	9.516	819.34	9.351	832.77	9.350	835.64	9.235	839.56
9.403	545.73	9.691	806.97	9.496	819.02	9.331	832.49	9.329	835.37	9.215	839.30
9.383	544.13	9.671	806.67	9.476	818.71	9.311	832.16	9.309	835.09	9.194	838.98
9.364	542.56	9.651	806.34	9.457	818.40	9.290	831.91	9.288	834.79	9.174	838.67
9.344	540.93	9.632	806.01	9.437	818.10	9.270	831.57	9.268	834.49	9.154	838.45
9.324	539.21	9.612	805.66	9.417	817.78	9.250	831.32	9.248	834.16	9.133	838.11
9.304	537.33	9.593	805.37	9.397	817.49	9.230	830.97	9.227	833.89	9.113	837.83
9.284	535.51	9.573	805.04	9.378	817.18	9.210	830.69	9.207	833.61	9.092	837.55
9.264	533.75	9.553	804.71	9.358	816.85	9.190	830.38	9.186	833.30	9.072	837.23
9.244	531.87	9.534	804.41	9.338	816.53	9.170	830.11	9.166	832.98	9.052	836.94

9.224	529.83	9.514	804.04	9.318	816.20	9.149	829.76	9.146	832.66	9.031	836.60
9.204	527.84	9.495	803.77	9.299	815.93	9.129	829.48	9.125	832.46	9.011	836.31
9.184	525.79	9.475	803.36	9.279	815.58	9.109	829.20	9.105	832.10	8.991	836.03
9.164	523.52	9.455	803.05	9.259	815.21	9.089	828.89	9.084	831.90	8.970	835.71
9.144	521.59	9.436	802.74	9.239	814.96	9.069	828.54	9.064	831.61	8.950	835.46
9.124	519.60	9.416	802.42	9.220	814.59	9.049	828.23	9.043	831.26	8.929	835.13
9.104	517.31	9.397	802.05	9.200	814.32	9.029	827.95	9.023	831.03	8.909	834.80
9.084	515.02	9.377	801.73	9.180	813.98	9.008	827.61	9.003	830.74	8.889	834.52
9.064	512.80	9.357	801.38	9.160	813.66	8.988	827.33	8.982	830.46	8.868	834.18
9.044	510.27	9.338	801.07	9.141	813.33	8.968	826.98	8.962	830.15	8.848	833.90
9.024	507.96	9.318	800.71	9.121	813.02	8.948	826.67	8.941	829.84	8.828	833.59
9.004	505.89	9.299	800.39	9.101	812.71	8.928	826.37	8.921	829.52	8.807	833.28
8.984	503.65	9.279	799.86	9.081	812.36	8.908	826.04	8.901	829.25	8.787	832.97
8.964	501.22	9.259	799.52	9.062	812.05	8.888	825.72	8.880	828.93	8.766	832.67
8.944	498.83	9.240	799.47	9.042	811.72	8.868	825.38	8.860	828.66	8.746	832.35
8.924	496.13	9.220	799.07	9.022	811.39	8.847	825.07	8.839	828.32	8.726	832.05
8.904	493.38	9.201	798.73	9.002	811.04	8.827	824.76	8.819	828.00	8.705	831.75
8.885	490.70	9.181	798.66	8.983	810.68	8.807	824.42	8.799	827.74	8.685	831.43
8.865	488.04	9.161	798.27	8.963	810.36	8.787	824.12	8.778	827.40	8.664	831.06
8.845	485.15	9.142	798.15	8.943	810.00	8.767	823.75	8.758	827.06	8.644	830.77
8.825	482.01	9.122	797.89	8.923	809.69	8.747	823.49	8.737	826.76	8.624	830.46
8.805	478.98	9.103	797.71	8.904	809.28	8.727	823.08	8.717	826.45	8.603	830.14
8.785	475.57	9.083	797.35	8.884	808.97	8.706	822.77	8.697	826.10	8.583	829.85
8.765	472.20	9.063	796.99	8.864	808.64	8.686	822.45	8.676	825.83	8.563	829.48
8.745	469.32	9.044	796.71	8.844	808.31	8.666	822.10	8.656	825.48	8.542	829.20
8.725	466.46	9.024	796.44	8.825	807.96	8.646	821.83	8.635	825.15	8.522	828.82
8.705	463.31	9.005	796.10	8.805	807.62	8.626	821.51	8.615	824.81	8.501	828.49
8.685	460.12	8.985	795.77	8.785	807.27	8.606	821.12	8.595	824.52	8.481	828.17
8.665	456.91	8.965	795.47	8.765	806.89	8.586	820.75	8.574	824.14	8.461	827.89
8.645	453.68	8.946	795.13	8.746	806.53	8.566	820.43	8.554	823.80	8.440	827.59
8.625	449.97	8.926	794.83	8.726	806.17	8.545	820.12	8.533	823.49	8.420	827.18
8.605	446.34	8.907	794.38	8.706	805.86	8.525	819.73	8.513	823.16	8.400	826.86
8.585	442.95	8.887	793.71	8.686	805.48	8.505	819.44	8.492	822.78	8.379	826.59
8.565	439.25	8.867	793.33	8.667	805.07	8.485	819.06	8.472	822.47	8.359	826.25
8.545	435.89	8.848	793.00	8.647	804.74	8.465	818.73	8.452	822.08	8.338	825.93
8.525	432.13	8.828	792.64	8.627	804.36	8.445	818.40	8.431	821.76	8.318	825.57
8.505	428.26	8.809	792.27	8.607	803.97	8.425	818.05	8.411	821.43	8.298	825.22
8.485	424.25	8.789	791.86	8.588	803.58	8.404	817.63	8.390	821.03	8.277	824.92
8.465	420.79	8.769	791.52	8.568	803.25	8.384	817.32	8.370	820.70	8.257	824.56
8.445	417.18	8.750	791.11	8.548	802.89	8.364	816.95	8.350	820.37	8.237	824.15
8.426	413.48	8.730	790.73	8.528	802.52	8.344	816.62	8.329	820.00	8.216	823.79
8.406	410.83	8.711	790.34	8.509	802.15	8.324	816.29	8.309	819.63	8.196	823.42
8.386	408.04	8.691	789.94	8.489	801.73	8.304	815.92	8.288	819.30	8.175	823.09
8.366	405.00	8.671	789.54	8.469	801.37	8.284	815.53	8.268	818.96	8.155	822.74
8.346	401.90	8.652	789.13	8.449	800.97	8.264	815.17	8.248	818.59	8.135	822.35
8.326	398.64	8.632	788.73	8.430	800.62	8.243	814.82	8.227	818.22	8.114	821.94
8.306	395.21	8.613	788.37	8.410	800.21	8.223	814.46	8.207	817.83	8.094	821.62
8.286	391.79	8.593	787.95	8.390	799.84	8.203	814.09	8.186	817.50	8.074	821.26
8.266	388.12	8.573	787.50	8.370	799.44	8.183	813.73	8.166	817.16	8.053	820.88
8.246	384.52	8.554	787.10	8.350	799.07	8.163	813.35	8.146	816.76	8.033	820.49
8.226	381.14	8.534	786.71	8.331	798.72	8.143	812.99	8.125	816.44	8.012	820.11
8.206	377.49	8.515	786.31	8.311	798.33	8.123	812.61	8.105	816.04	7.992	819.80
8.186	373.96	8.495	785.88	8.291	797.93	8.102	812.23	8.084	815.66	7.972	819.40
8.166	370.29	8.475	785.44	8.271	797.52	8.082	811.87	8.064	815.27	7.951	819.04
8.146	366.66	8.456	785.00	8.252	797.17	8.062	811.48	8.044	814.95	7.931	818.67

8.126	363.35	8.436	784.62	8.232	796.71	8.042	811.09	8.023	814.54	7.911	818.30
8.106	359.83	8.417	784.15	8.212	796.32	8.022	810.80	8.003	814.16	7.890	817.93
8.086	356.07	8.397	783.72	8.192	795.88	8.002	810.41	7.982	813.78	7.870	817.52
8.066	352.50	8.377	783.32	8.173	795.50	7.982	810.02	7.962	813.39	7.849	817.11
8.046	348.94	8.358	782.87	8.153	795.09	7.961	809.64	7.942	813.00	7.829	816.78
8.026	345.56	8.338	782.43	8.133	794.58	7.941	809.25	7.921	812.62	7.809	816.38
8.006	341.93	8.319	781.99	8.113	794.23	7.921	808.84	7.901	812.26	7.788	815.99
7.986	338.42	8.299	781.60	8.094	793.80	7.901	808.45	7.880	811.89	7.768	815.60
7.966	334.97	8.279	781.14	8.074	793.40	7.881	808.06	7.860	811.50	7.748	815.23
7.947	331.55	8.260	780.65	8.054	792.97	7.861	807.67	7.839	811.12	7.727	814.85
7.927	328.18	8.240	780.23	8.034	792.56	7.841	807.25	7.819	810.72	7.707	814.49
7.907	324.88	8.221	779.76	8.015	792.18	7.821	806.84	7.799	810.30	7.686	814.08
7.887	321.62	8.201	779.36	7.995	791.72	7.800	806.43	7.778	809.91	7.666	813.76
7.867	318.24	8.181	778.87	7.975	791.31	7.780	805.97	7.758	809.53	7.646	813.35
7.847	315.07	8.162	778.46	7.955	790.88	7.760	805.58	7.737	809.13	7.625	812.94
7.827	311.72	8.142	777.97	7.936	790.44	7.740	805.17	7.717	808.66	7.605	812.53
7.807	308.64	8.123	777.67	7.916	789.99	7.720	804.78	7.697	808.32	7.584	812.17
7.787	305.50	8.103	777.41	7.896	789.53	7.700	804.34	7.676	807.87	7.564	811.73
7.767	302.39	8.083	776.98	7.876	789.14	7.680	803.96	7.656	807.47	7.544	811.38
7.747	299.36	8.064	776.62	7.857	788.69	7.659	803.51	7.635	807.08	7.523	810.93
7.727	296.39	8.044	776.20	7.837	788.23	7.639	803.09	7.615	806.65	7.503	810.56
7.707	293.29	8.025	775.81	7.817	787.74	7.619	802.66	7.595	806.21	7.483	810.15
7.687	290.47	8.005	775.40	7.797	787.35	7.599	802.24	7.574	805.81	7.462	809.74
7.667	287.58	7.985	774.99	7.778	786.96	7.579	801.82	7.554	805.42	7.442	809.34
7.647	284.74	7.966	774.57	7.758	786.43	7.559	801.37	7.533	804.99	7.421	808.93
7.627	282.00	7.946	774.20	7.738	786.07	7.539	800.95	7.513	804.55	7.401	808.52
7.607	279.32	7.927	773.68	7.718	785.55	7.519	800.49	7.493	804.10	7.381	808.03
7.587	276.69	7.907	773.25	7.699	785.21	7.498	800.03	7.472	803.69	7.360	807.62
7.567	274.03	7.887	772.81	7.679	784.67	7.478	799.57	7.452	803.27	7.340	807.21
7.547	271.48	7.868	772.33	7.659	784.20	7.458	799.15	7.431	802.86	7.320	806.80
7.527	268.99	7.848	771.87	7.639	783.74	7.438	798.70	7.411	802.44	7.299	806.35
7.507	266.55	7.829	771.43	7.620	783.29	7.418	798.24	7.391	801.96	7.279	805.90
7.487	264.15	7.809	770.95	7.600	782.78	7.398	797.79	7.370	801.54	7.258	805.47
7.468	261.76	7.789	770.49	7.580	782.28	7.378	797.32	7.350	801.11	7.238	805.00
7.448	259.56	7.770	769.99	7.560	781.87	7.357	796.85	7.329	800.64	7.218	804.59
7.428	257.18	7.750	769.51	7.541	781.39	7.337	796.40	7.309	800.15	7.197	804.10
7.408	254.95	7.731	769.02	7.521	780.94	7.317	795.97	7.288	799.74	7.177	803.63
7.388	252.70	7.711	768.53	7.501	780.50	7.297	795.46	7.268	799.22	7.157	803.20
7.368	250.60	7.691	768.00	7.481	780.06	7.277	794.97	7.248	798.74	7.136	802.70
7.348	248.45	7.672	767.51	7.462	779.49	7.257	794.58	7.227	798.27	7.116	802.29
7.328	246.41	7.652	767.00	7.442	779.01	7.237	794.10	7.207	797.79	7.095	801.89
7.308	244.35	7.633	766.45	7.422	778.56	7.217	793.54	7.186	797.33	7.075	801.41
7.288	242.36	7.613	765.94	7.402	777.99	7.196	793.06	7.166	796.89	7.055	801.07
7.268	240.34	7.593	765.37	7.383	777.56	7.176	792.59	7.146	796.32	7.034	800.58
7.248	238.38	7.574	764.85	7.363	777.04	7.156	792.08	7.125	795.89	7.014	800.09
7.228	236.46	7.554	764.26	7.343	776.51	7.136	791.63	7.105	795.38	6.994	799.59
7.208	234.47	7.535	763.64	7.323	775.98	7.116	791.13	7.084	794.93	6.973	799.02
7.188	232.61	7.515	763.06	7.303	775.44	7.096	790.60	7.064	794.42	6.953	798.59
7.168	230.83	7.495	762.48	7.284	774.84	7.076	790.06	7.044	793.93	6.932	798.12
7.148	229.05	7.476	761.87	7.264	774.28	7.055	789.59	7.023	793.39	6.912	797.70
7.128	227.24	7.456	761.29	7.244	773.75	7.035	789.01	7.003	792.84	6.892	797.22
7.108	225.52	7.437	760.60	7.224	773.19	7.015	788.48	6.982	792.37	6.871	796.73
7.088	223.76	7.417	759.99	7.205	772.61	6.995	787.96	6.962	791.84	6.851	796.33
7.068	222.04	7.397	759.39	7.185	772.08	6.975	787.45	6.942	791.30	6.831	795.91
7.048	220.36	7.378	758.75	7.165	771.54	6.955	786.88	6.921	790.80	6.810	795.38

7.028	218.69	7.358	758.07	7.145	771.01	6.935	786.35	6.901	790.25	6.790	794.85
7.009	217.09	7.339	757.13	7.126	770.47	6.914	785.82	6.880	789.67	6.769	794.30
6.989	215.55	7.319	756.39	7.106	769.83	6.894	785.29	6.860	789.14	6.749	793.78
6.969	213.88	7.299	755.74	7.086	769.26	6.874	784.75	6.840	788.61	6.729	793.24
6.949	212.25	7.280	755.16	7.066	768.64	6.854	784.18	6.819	788.05	6.708	792.77
6.929	210.79	7.260	754.59	7.047	768.12	6.834	783.66	6.799	787.49	6.688	792.23
6.909	209.30	7.241	754.10	7.027	767.49	6.814	783.06	6.778	786.97	6.667	791.65
6.889	207.72	7.221	753.53	7.007	766.79	6.794	782.50	6.758	786.48	6.647	791.00
6.869	206.29	7.201	752.87	6.987	766.17	6.774	781.94	6.737	785.91	6.627	790.34
6.849	204.82	7.182	752.25	6.968	765.53	6.753	781.34	6.717	785.34	6.606	789.77
6.829	203.35	7.162	751.70	6.948	764.85	6.733	780.24	6.697	784.77	6.586	789.28
6.809	201.91	7.143	751.28	6.928	764.12	6.713	779.95	6.676	784.19	6.566	788.71
6.789	200.45	7.123	750.86	6.908	763.45	6.693	779.27	6.656	783.62	6.545	788.22
6.769	199.09	7.103	750.45	6.889	762.22	6.673	778.92	6.635	783.05	6.525	787.65
6.749	197.71	7.084	749.95	6.869	761.85	6.653	778.55	6.615	782.47	6.504	787.15
6.729	196.36	7.064	749.39	6.849	762.14	6.633	777.95	6.595	781.74	6.484	786.50
6.709	195.05	7.045	748.84	6.829	761.50	6.612	777.42	6.574	781.41	6.464	785.92
6.689	193.74	7.025	748.17	6.810	760.84	6.592	776.81	6.554	780.67	6.443	785.35
6.669	192.34	7.005	747.59	6.790	760.26	6.572	776.29	6.533	780.08	6.423	784.70
6.649	191.01	6.986	746.85	6.770	759.61	6.552	775.84	6.513	779.61	6.403	784.04
6.629	189.74	6.966	746.21	6.750	759.09	6.532	775.29	6.493	779.13	6.382	783.47
6.609	188.46	6.947	745.52	6.731	758.47	6.512	774.74	6.472	778.64	6.362	782.74
6.589	187.27	6.927	744.82	6.711	757.92	6.492	774.10	6.452	778.11	6.341	782.24
6.569	186.03	6.907	744.13	6.691	757.39	6.472	773.52	6.431	777.62	6.321	781.90
6.549	184.79	6.888	743.56	6.671	756.80	6.451	772.88	6.411	777.01	6.301	781.18
6.530	183.51	6.868	742.94	6.652	756.20	6.431	772.37	6.391	776.45	6.280	780.52
6.510	182.36	6.849	742.30	6.632	755.51	6.411	771.83	6.370	775.84	6.260	780.16
6.490	181.15	6.829	741.65	6.612	754.67	6.391	771.30	6.350	775.22	6.240	779.61
6.470	180.01	6.809	740.88	6.592	753.97	6.371	770.75	6.329	774.60	6.219	778.83
6.450	178.83	6.790	740.03	6.573	753.32	6.351	770.28	6.309	774.09	6.199	778.11
6.430	177.68	6.770	739.36	6.553	752.72	6.331	769.78	6.289	773.59	6.178	777.46
6.410	176.56	6.751	738.66	6.533	752.12	6.310	769.24	6.268	773.04	6.158	776.84
6.390	175.33	6.731	737.95	6.513	751.54	6.290	768.75	6.248	772.49	6.138	776.35
6.370	174.23	6.711	737.15	6.494	750.92	6.270	768.09	6.227	771.92	6.117	775.79
6.350	173.10	6.692	736.45	6.474	750.37	6.250	767.54	6.207	771.37	6.097	775.22
6.330	172.02	6.672	735.63	6.454	749.56	6.230	767.00	6.186	770.73	6.077	774.67
6.310	170.91	6.653	734.69	6.434	748.97	6.210	766.43	6.166	770.09	6.056	774.10
6.290	169.81	6.633	733.95	6.415	748.05	6.190	765.21	6.146	768.81	6.036	773.52
6.270	168.77	6.613	733.01	6.395	747.33	6.170	764.96	6.125	768.46	6.015	772.29
6.250	167.65	6.594	732.02	6.375	746.57	6.149	763.83	6.105	767.54	5.995	772.26
6.230	166.59	6.574	730.15	6.355	745.90	6.129	763.09	6.084	767.01	5.975	771.57
6.210	165.52	6.555	727.36	6.336	745.11	6.109	762.45	6.064	765.86	5.954	770.91
6.190	164.52	6.535	724.71	6.316	743.71	6.089	761.54	6.044	762.98	5.934	770.30
6.170	163.49	6.515	722.74	6.296	741.35	6.069	757.86	6.023	762.04	5.914	767.22
6.150	162.43	6.496	720.76	6.276	739.63	6.049	756.80	6.003	761.51	5.893	766.95
6.130	161.46	6.476	719.34	6.257	737.92	6.029	756.29	5.982	761.00	5.873	766.08
6.110	160.40	6.457	718.00	6.237	736.70	6.008	754.82	5.962	759.16	5.852	764.05
6.090	159.41	6.437	717.25	6.217	735.41	5.988	753.51	5.942	757.36	5.832	762.20
6.071	158.36	6.002	204.30	5.913	201.93	5.818	194.37	5.803	196.04	5.774	194.77
6.051	157.37	5.982	201.56	5.894	199.11	5.799	192.37	5.784	193.90	5.755	192.60
6.031	156.40	5.962	198.95	5.874	196.75	5.780	190.43	5.765	191.92	5.736	190.63
6.011	155.45	5.942	196.64	5.855	194.71	5.762	188.69	5.746	190.03	5.718	188.75
5.991	154.46	5.922	194.38	5.836	192.60	5.743	186.85	5.727	188.13	5.699	186.90
5.971	153.49	5.902	192.22	5.816	190.69	5.724	184.97	5.708	186.34	5.680	185.16
5.951	152.61	5.882	190.17	5.797	188.81	5.705	183.48	5.689	184.58	5.661	183.46

5.931	151.64	5.863	188.13	5.777	186.87	5.686	181.67	5.670	182.89	5.642	181.77
5.911	150.69	5.843	186.17	5.758	185.11	5.667	180.03	5.651	181.23	5.623	180.22
5.891	149.73	5.823	184.25	5.739	183.44	5.648	178.66	5.632	179.53	5.605	178.62
5.871	148.86	5.803	182.42	5.719	181.78	5.629	176.92	5.613	177.95	5.586	177.05
5.851	147.96	5.783	180.60	5.700	180.09	5.610	175.43	5.594	176.42	5.567	175.60
5.831	147.01	5.763	178.98	5.680	178.54	5.591	173.98	5.575	174.90	5.548	174.02
5.811	146.13	5.744	177.33	5.661	176.98	5.572	172.44	5.556	173.45	5.529	172.60
5.791	145.23	5.724	175.75	5.641	175.41	5.553	171.08	5.537	172.03	5.511	171.11
5.771	144.35	5.704	174.18	5.622	173.97	5.535	169.69	5.518	170.55	5.492	169.80
5.751	143.39	5.684	172.71	5.603	172.42	5.516	168.35	5.499	169.14	5.473	168.33
5.731	142.57	5.664	171.31	5.583	170.94	5.497	168.49	5.480	167.79	5.454	166.97
5.711	141.64	5.644	169.94	5.564	169.58	5.478	167.42	5.461	166.38	5.435	165.69
5.691	140.84	5.624	168.60	5.544	168.17	5.459	166.02	5.442	165.05	5.416	164.29
5.671	139.95	5.605	167.26	5.525	166.79	5.440	164.71	5.423	163.75	5.398	163.04
5.651	139.10	5.585	166.06	5.505	165.40	5.421	163.64	5.404	162.51	5.379	161.80
5.631	138.25	5.565	164.81	5.486	164.15	5.402	162.32	5.385	161.24	5.360	160.48
5.611	137.44	5.545	163.59	5.467	162.81	5.383	161.13	5.366	160.02	5.341	159.23
5.592	136.58	5.525	162.44	5.447	161.49	5.364	159.72	5.348	158.81	5.322	158.08
5.572	135.74	5.505	161.24	5.428	160.23	5.345	158.57	5.329	157.62	5.303	156.78
5.552	134.89	5.486	160.08	5.408	158.95	5.326	157.62	5.310	156.37	5.285	155.60
5.532	134.07	5.466	158.92	5.389	157.78	5.308	156.37	5.291	155.16	5.266	154.46
5.512	133.30	5.446	157.81	5.370	156.55	5.289	155.29	5.272	154.04	5.247	153.37
5.492	132.46	5.426	156.68	5.350	155.36	5.270	154.11	5.253	152.85	5.228	152.11
5.472	131.68	5.406	155.66	5.331	154.18	5.251	152.93	5.234	151.72	5.209	151.07
5.452	130.85	5.386	154.50	5.311	153.04	5.232	151.86	5.215	150.55	5.191	149.94
5.432	130.03	5.366	153.43	5.292	151.89	5.213	150.70	5.196	149.48	5.172	148.87
5.412	129.22	5.347	152.40	5.272	150.71	5.194	149.59	5.177	148.37	5.153	147.80
5.392	128.44	5.327	151.27	5.253	149.57	5.175	148.56	5.158	147.30	5.134	146.66
5.372	127.65	5.307	150.28	5.234	148.46	5.156	147.34	5.139	146.20	5.115	145.66
5.352	126.91	5.287	149.24	5.214	147.44	5.137	146.26	5.120	145.17	5.096	144.55
5.332	126.11	5.267	148.13	5.195	146.30	5.118	145.37	5.101	144.08	5.078	143.47
5.312	125.39	5.247	147.09	5.175	145.25	5.099	144.32	5.082	143.07	5.059	142.50
5.292	124.59	5.228	146.04	5.156	144.24	5.081	143.27	5.063	142.06	5.040	141.44
5.272	123.78	5.208	145.00	5.136	143.15	5.062	142.05	5.044	141.04	5.021	140.46
5.252	123.07	5.188	143.97	5.117	142.14	5.043	141.29	5.025	140.03	5.002	139.46
5.232	122.33	5.168	143.01	5.098	141.12	5.024	140.21	5.006	139.08	4.984	138.43
5.212	121.60	5.148	141.99	5.078	140.10	5.005	139.26	4.987	138.06	4.965	137.49
5.192	120.80	5.128	140.91	5.059	139.10	4.986	138.30	4.968	137.09	4.946	136.53
5.172	120.09	5.109	139.95	5.039	138.18	4.967	137.37	4.949	136.09	4.927	135.64
5.152	119.37	5.089	139.00	5.020	137.10	4.948	136.44	4.930	135.17	4.908	134.68
5.133	118.65	5.069	137.97	5.001	136.18	4.929	135.47	4.911	134.25	4.889	133.80
5.113	117.92	5.049	136.98	4.981	135.22	4.910	134.52	4.892	133.27	4.871	132.81
5.093	117.17	5.029	136.06	4.962	134.30	4.891	133.66	4.874	132.36	4.852	131.91
5.073	116.45	5.009	135.05	4.942	133.31	4.872	132.73	4.855	131.47	4.833	130.98
5.053	115.74	4.989	134.09	4.923	132.35	4.854	131.57	4.836	130.56	4.814	130.08
5.033	115.07	4.970	133.13	4.903	131.46	4.835	130.70	4.817	129.67	4.795	129.23
5.013	114.34	4.950	132.19	4.884	130.53	4.816	130.00	4.798	128.79	4.777	128.36
4.993	113.66	4.930	131.30	4.865	129.55	4.797	129.11	4.779	127.90	4.758	127.48
4.973	112.94	4.910	130.36	4.845	128.71	4.778	128.18	4.760	126.96	4.739	126.57
4.953	112.28	4.890	129.42	4.826	127.79	4.759	127.09	4.741	126.13	4.720	125.73
4.933	111.59	4.870	128.60	4.806	126.96	4.740	126.39	4.722	125.24	4.701	124.87
4.913	110.84	4.851	127.67	4.787	126.00	4.721	125.40	4.703	124.42	4.682	124.00
4.893	110.19	4.831	126.78	4.767	125.15	4.702	124.70	4.684	123.54	4.664	123.23
4.873	109.51	4.811	125.92	4.748	124.36	4.683	123.88	4.665	122.71	4.645	122.30
4.853	108.81	4.791	125.01	4.729	123.46	4.664	123.01	4.646	121.91	4.626	121.45

4.833	108.20	4.771	124.14	4.709	122.65	4.645	122.20	4.627	121.09	4.607	120.70
4.813	107.47	4.751	123.26	4.690	121.76	4.627	121.38	4.608	120.23	4.588	119.94
4.793	106.82	4.731	122.45	4.670	120.86	4.608	120.55	4.589	119.41	4.569	119.06
4.773	106.15	4.712	121.60	4.651	120.08	4.589	119.59	4.570	118.64	4.551	118.23
4.753	105.47	4.692	120.80	4.632	119.24	4.570	118.99	4.551	117.86	4.532	117.44
4.733	104.80	4.672	119.90	4.612	118.52	4.551	118.17	4.532	117.05	4.513	116.65
4.713	104.22	4.652	119.13	4.593	117.65	4.532	117.22	4.513	116.20	4.494	115.85
4.693	103.57	4.632	118.23	4.573	116.87	4.513	116.62	4.494	115.42	4.475	115.14
4.673	102.93	4.612	117.41	4.554	116.01	4.494	115.71	4.475	114.70	4.457	114.37
4.654	102.26	4.593	116.65	4.534	115.22	4.475	115.00	4.456	113.96	4.438	113.58
4.634	101.61	4.573	115.78	4.515	114.46	4.456	114.21	4.437	113.14	4.419	112.83
4.614	101.01	4.553	115.03	4.496	113.74	4.437	113.47	4.418	112.38	4.400	112.07
4.594	100.41	4.533	114.24	4.476	112.90	4.418	112.59	4.399	111.61	4.381	111.31
4.574	99.75	4.513	113.43	4.457	112.13	4.399	111.94	4.381	110.87	4.362	110.57
4.554	99.17	4.493	112.64	4.437	111.44	4.381	111.05	4.362	110.08	4.344	109.78
4.534	98.57	4.474	111.92	4.418	110.59	4.362	110.28	4.343	109.37	4.325	109.13
4.514	97.91	4.454	111.19	4.398	109.85	4.343	109.67	4.324	108.59	4.306	108.34
4.494	97.30	4.434	110.36	4.379	109.14	4.324	108.83	4.305	107.84	4.287	107.66
4.474	96.68	4.414	109.56	4.360	108.42	4.305	108.17	4.286	107.14	4.268	106.95
4.454	96.05	4.394	108.83	4.340	107.63	4.286	107.48	4.267	106.39	4.250	106.21
4.434	95.48	4.374	108.11	4.321	106.98	4.267	106.71	4.248	105.64	4.231	105.52
4.414	94.91	4.354	107.32	4.301	106.16	4.248	106.06	4.229	104.96	4.212	104.78
4.394	94.30	4.335	106.56	4.282	105.43	4.229	105.29	4.210	104.26	4.193	104.05
4.374	93.70	4.315	105.88	4.263	104.72	4.210	104.49	4.191	103.58	4.174	103.38
4.354	93.12	4.295	105.14	4.243	104.01	4.191	103.77	4.172	102.87	4.155	102.72
4.334	92.50	4.275	104.39	4.224	103.29	4.172	103.13	4.153	102.13	4.137	102.05
4.314	91.89	4.255	103.67	4.204	102.61	4.154	102.47	4.134	101.44	4.118	101.27
4.294	91.36	4.235	102.97	4.185	101.89	4.135	101.66	4.115	100.78	4.099	100.57
4.274	90.74	4.216	102.26	4.165	101.22	4.116	101.03	4.096	100.00	4.080	99.88
4.254	90.20	4.196	101.61	4.146	100.53	4.097	100.39	4.077	99.40	4.061	99.19
4.234	89.61	4.176	100.90	4.127	99.81	4.078	99.71	4.058	98.74	4.043	98.52
4.214	89.00	4.156	100.17	4.107	99.13	4.059	98.97	4.039	98.04	4.024	97.82
4.194	88.45	4.136	99.43	4.088	98.45	4.040	98.28	4.020	97.38	4.005	97.18
4.175	87.91	4.116	98.69	4.068	97.79	4.021	97.53	4.001	96.72	3.986	96.50
4.155	87.35	4.096	97.99	4.049	97.11	4.002	96.97	3.982	96.09	3.967	95.89
4.135	86.79	4.077	97.33	4.029	96.43	3.983	96.29	3.963	95.42	3.948	95.22
4.115	86.22	4.057	96.64	4.010	95.77	3.964	95.50	3.944	94.77	3.930	94.55
4.095	85.67	4.037	95.95	3.991	95.15	3.945	95.02	3.925	94.14	3.911	93.94
4.075	85.09	4.017	95.23	3.971	94.48	3.927	94.38	3.906	93.45	3.892	93.24
4.055	84.47	3.997	94.63	3.952	93.81	3.908	93.73	3.888	92.80	3.873	92.66
4.035	83.98	3.977	93.91	3.932	93.15	3.889	93.07	3.869	92.13	3.854	92.02
4.015	83.41	3.958	93.27	3.913	92.50	3.870	92.44	3.850	91.49	3.835	91.37
3.995	82.85	3.938	92.53	3.894	91.86	3.851	91.82	3.831	90.86	3.817	90.74
3.975	82.30	3.918	91.93	3.874	91.17	3.832	91.20	3.812	90.22	3.798	90.05
3.955	81.76	3.898	91.26	3.855	90.58	3.813	90.56	3.793	89.56	3.779	89.45
3.935	81.23	3.878	90.54	3.835	89.94	3.794	89.93	3.774	88.94	3.760	88.82
3.915	80.66	3.858	89.91	3.816	89.38	3.775	89.22	3.755	88.31	3.741	88.21
3.895	80.13	3.838	89.27	3.796	88.72	3.756	88.67	3.736	87.70	3.723	87.64
3.875	79.61	3.819	88.65	3.777	88.02	3.737	88.05	3.717	87.09	3.704	87.00
3.855	79.11	3.799	87.94	3.758	87.38	3.718	87.33	3.698	86.40	3.685	86.46
3.835	78.59	3.779	87.31	3.738	86.78	3.700	86.78	3.679	85.82	3.666	85.82
3.815	78.06	3.759	86.72	3.719	86.16	3.681	86.16	3.660	85.21	3.647	85.15
3.795	77.48	3.739	86.07	3.699	85.55	3.662	85.49	3.641	84.61	3.628	84.62
3.775	76.97	3.719	85.41	3.680	84.97	3.643	84.96	3.622	83.95	3.610	83.94
3.755	76.43	3.700	84.78	3.660	84.32	3.624	84.32	3.603	83.38	3.591	83.34

3.735	75.91	3.680	84.21	3.641	83.77	3.605	83.72	3.584	82.79	3.572	82.74
3.716	75.45	3.660	83.52	3.622	83.10	3.586	83.10	3.565	82.23	3.553	82.16
3.696	74.90	3.640	82.93	3.602	82.48	3.567	82.53	3.546	81.59	3.534	81.67
3.676	74.35	3.620	82.26	3.583	81.92	3.548	81.86	3.527	81.03	3.516	81.07
3.656	73.81	3.600	81.64	3.563	81.36	3.529	81.28	3.508	80.46	3.497	80.45
3.636	73.33	3.581	81.05	3.544	80.71	3.510	80.69	3.489	79.91	3.478	79.87
3.616	72.85	3.561	80.43	3.525	80.15	3.491	80.11	3.470	79.36	3.459	79.34
3.596	72.29	3.541	79.78	3.505	79.59	3.473	79.51	3.451	78.76	3.440	78.70
3.576	71.81	3.521	79.20	3.486	79.02	3.454	78.92	3.432	78.17	3.421	78.18
3.556	71.31	3.501	78.56	3.466	78.36	3.435	78.33	3.413	77.64	3.403	77.61
3.536	70.80	3.481	77.99	3.447	77.80	3.416	77.81	3.395	77.03	3.384	77.06
3.516	70.30	3.461	77.37	3.427	77.21	3.397	77.21	3.376	76.49	3.365	76.43
3.496	69.78	3.442	76.78	3.408	76.61	3.378	76.59	3.357	75.94	3.346	75.93
3.476	69.27	3.422	76.27	3.389	75.98	3.359	75.88	3.338	75.38	3.327	75.43
3.456	68.76	3.402	75.67	3.369	75.48	3.340	75.41	3.319	74.85	3.309	74.80
3.436	68.31	3.382	75.07	3.350	74.91	3.321	74.86	3.300	74.32	3.290	74.24
3.416	67.78	3.362	74.43	3.330	74.30	3.302	74.28	3.281	73.71	3.271	73.66
3.396	67.33	3.342	73.90	3.311	73.72	3.283	73.78	3.262	73.17	3.252	73.18
3.376	66.83	3.323	73.33	3.291	73.17	3.264	73.20	3.243	72.63	3.233	72.69
3.356	66.30	3.303	72.73	3.272	72.60	3.246	72.65	3.224	72.09	3.214	72.07
3.336	65.81	3.283	72.12	3.253	72.10	3.227	72.09	3.205	71.57	3.196	71.61
3.316	65.31	3.263	71.56	3.233	71.51	3.208	71.50	3.186	70.98	3.177	70.99
3.296	64.87	3.243	70.98	3.214	70.97	3.189	70.94	3.167	70.47	3.158	70.48
3.276	64.38	3.223	70.42	3.194	70.36	3.170	70.38	3.148	69.93	3.139	69.98
3.256	63.86	3.203	69.88	3.175	69.84	3.151	69.87	3.129	69.50	3.120	69.42
3.237	63.40	3.184	69.32	3.156	69.31	3.132	69.29	3.110	68.98	3.102	68.82
3.217	62.90	3.164	68.71	3.136	68.71	3.113	68.79	3.091	68.43	3.083	68.30
3.197	62.44	3.144	68.17	3.117	68.18	3.094	68.20	3.072	67.88	3.064	67.76
3.177	61.93	3.124	67.58	3.097	67.67	3.075	67.67	3.053	67.37	3.045	67.29
3.157	61.48	3.104	67.06	3.078	67.15	3.056	67.15	3.034	66.80	3.026	66.72
3.137	61.02	3.084	66.56	3.058	66.58	3.037	66.65	3.015	66.33	3.007	66.30
3.117	60.56	3.065	65.98	3.039	66.03	3.019	66.11	2.996	65.80	2.989	65.80
3.097	60.09	3.045	65.41	3.020	65.55	3.000	65.58	2.977	65.25	2.970	65.26
3.077	59.42	3.025	64.84	3.000	64.99	2.981	65.05	2.958	64.81	2.951	64.68
3.057	59.02	3.005	64.31	2.981	64.42	2.962	64.50	2.939	64.29	2.932	64.16
3.037	58.51	2.985	63.77	2.961	63.89	2.943	63.89	2.920	63.71	2.913	63.64
3.017	58.08	2.965	63.22	2.942	63.39	2.924	63.45	2.902	63.22	2.894	63.15
2.997	57.58	2.946	62.77	2.922	62.80	2.905	62.93	2.883	62.72	2.876	62.64
2.977	57.14	2.926	62.16	2.903	62.31	2.886	62.41	2.864	62.22	2.857	62.15
2.957	56.66	2.906	61.63	2.884	61.86	2.867	61.88	2.845	61.72	2.838	61.71
2.937	56.15	2.886	61.18	2.864	61.32	2.848	61.31	2.826	61.16	2.819	61.19
2.917	55.71	2.866	60.69	2.845	60.74	2.829	60.92	2.807	60.67	2.800	60.66
2.897	55.25	2.846	60.09	2.825	60.27	2.810	60.40	2.788	60.13	2.782	60.17
2.877	54.80	2.826	59.60	2.806	59.71	2.792	59.83	2.769	59.74	2.763	59.61
2.857	54.40	2.807	58.97	2.787	59.24	2.773	59.37	2.750	59.16	2.744	59.19
2.837	53.95	2.787	58.54	2.767	58.72	2.754	58.82	2.731	58.66	2.725	58.61
2.817	53.49	2.767	57.96	2.748	58.21	2.735	58.38	2.712	58.16	2.706	58.18
2.797	53.02	2.747	57.44	2.728	57.72	2.716	57.82	2.693	57.69	2.687	57.65
2.778	52.60	2.727	56.99	2.709	57.23	2.697	57.42	2.674	57.18	2.669	57.18
2.758	52.14	2.707	56.47	2.689	56.69	2.678	56.85	2.655	56.73	2.650	56.71
2.738	51.71	2.688	56.04	2.670	56.31	2.659	56.37	2.636	56.24	2.631	56.26
2.718	51.28	2.668	55.50	2.651	55.77	2.640	55.91	2.617	55.76	2.612	55.76
2.698	50.87	2.648	54.97	2.631	55.26	2.621	55.37	2.598	55.26	2.593	55.26
2.678	50.40	2.628	54.47	2.612	54.75	2.602	54.91	2.579	54.78	2.575	54.76
2.658	49.93	2.608	53.99	2.592	54.32	2.583	54.45	2.560	54.27	2.556	54.26



2.638	49.56	2.588	53.54	2.573	53.83	2.565	53.95	2.541	53.80	2.537	53.88
2.618	49.08	2.568	53.01	2.553	53.30	2.546	53.42	2.522	53.32	2.518	53.35
2.598	48.56	2.549	52.52	2.534	52.78	2.527	52.97	2.503	52.82	2.499	52.87
2.578	48.17	2.529	52.02	2.515	52.35	2.508	52.50	2.484	52.33	2.480	52.41
2.558	47.76	2.509	51.53	2.495	51.89	2.489	51.97	2.465	51.96	2.462	51.93
2.538	47.35	2.489	51.06	2.476	51.46	2.470	51.59	2.446	51.45	2.443	51.56
2.518	46.94	2.469	50.63	2.456	50.88	2.451	51.11	2.428	50.95	2.424	51.07
2.498	46.42	2.449	50.17	2.437	50.44	2.432	50.64	2.409	50.49	2.405	50.61
2.478	46.04	2.430	49.71	2.418	49.95	2.413	50.15	2.390	50.00	2.386	50.10
2.458	45.64	2.410	49.21	2.398	49.49	2.394	49.67	2.371	49.61	2.368	49.57
2.438	45.20	2.390	48.76	2.379	49.04	2.375	49.16	2.352	49.06	2.349	49.10
2.418	44.76	2.370	48.27	2.359	48.54	2.356	48.77	2.333	48.63	2.330	48.64
2.398	44.31	2.350	47.78	2.340	48.10	2.338	48.30	2.314	48.15	2.311	48.21
2.378	43.92	2.330	47.33	2.320	47.59	2.319	47.80	2.295	47.73	2.292	47.80
2.358	43.46	2.311	46.82	2.301	47.13	2.300	47.42	2.276	47.25	2.273	47.41
2.338	43.07	2.291	46.42	2.282	46.67	2.281	46.93	2.257	46.81	2.255	46.87
2.318	42.66	2.271	45.94	2.262	46.26	2.262	46.51	2.238	46.35	2.236	46.42
2.299	42.22	2.251	45.50	2.243	45.73	2.243	45.98	2.219	45.88	2.217	45.96
2.279	41.82	2.231	45.00	2.223	45.29	2.224	45.58	2.200	45.43	2.198	45.50
2.259	41.35	2.211	44.61	2.204	44.80	2.205	45.13	2.181	44.95	2.179	45.05
2.239	41.00	2.191	44.13	2.184	44.40	2.186	44.70	2.162	44.52	2.160	44.60
2.219	40.57	2.172	43.68	2.165	43.93	2.167	44.27	2.143	44.06	2.142	44.14
2.199	40.16	2.152	43.23	2.146	43.49	2.148	43.76	2.124	43.61	2.123	43.76
2.179	39.73	2.132	42.77	2.126	43.01	2.129	43.31	2.105	43.18	2.104	43.26
2.159	39.30	2.112	42.35	2.107	42.57	2.110	42.88	2.086	42.73	2.085	42.82
2.139	38.93	2.092	41.92	2.087	42.16	2.092	42.49	2.067	42.29	2.066	42.36
2.119	38.48	2.072	41.46	2.068	41.67	2.073	41.96	2.048	41.85	2.048	41.93
2.099	38.07	2.053	40.97	2.049	41.17	2.054	41.58	2.029	41.38	2.029	41.63
2.079	37.68	2.033	40.56	2.029	40.74	2.035	41.12	2.010	40.93	2.010	41.09
2.059	37.30	2.013	40.12	2.010	40.31	2.016	40.69	1.991	40.50	1.991	40.64
2.039	36.82	1.993	39.66	1.990	39.91	1.997	40.23	1.972	40.13	1.972	40.20
2.019	36.43	1.973	39.23	1.971	39.46	1.978	39.86	1.953	39.63	1.953	39.79
1.999	36.03	1.953	38.83	1.951	39.02	1.959	39.44	1.935	39.18	1.935	39.29
1.979	35.67	1.933	38.35	1.932	38.65	1.940	38.95	1.916	38.79	1.916	38.86
1.959	35.22	1.914	37.86	1.913	38.10	1.921	38.53	1.897	38.38	1.897	38.43
1.939	34.85	1.894	37.56	1.893	37.69	1.902	38.10	1.878	37.92	1.878	38.06
1.919	34.45	1.874	37.07	1.874	37.35	1.883	37.66	1.859	37.53	1.859	37.61
1.899	34.01	1.854	36.55	1.854	36.84	1.865	37.29	1.840	37.06	1.841	37.25
1.879	33.66	1.834	36.22	1.835	36.40	1.846	36.85	1.821	36.59	1.822	36.76
1.859	33.26	1.814	35.75	1.815	36.03	1.827	36.38	1.802	36.25	1.803	36.39
1.840	32.82	1.795	35.24	1.796	35.59	1.808	35.96	1.783	35.82	1.784	35.90
1.820	32.49	1.775	34.79	1.777	35.10	1.789	35.53	1.764	35.31	1.765	35.50
1.800	32.10	1.755	34.34	1.757	34.64	1.770	35.13	1.745	34.94	1.746	35.06
1.780	31.69	1.735	33.98	1.738	34.27	1.751	34.73	1.726	34.49	1.728	34.65
1.760	31.29	1.715	33.47	1.718	33.83	1.732	34.31	1.707	34.09	1.709	34.24
1.740	30.88	1.695	33.04	1.699	33.38	1.713	33.90	1.688	33.66	1.690	33.78
1.720	30.50	1.675	32.62	1.680	32.95	1.694	33.46	1.669	33.24	1.671	33.40
1.700	30.13	1.656	32.22	1.660	32.52	1.675	33.03	1.650	32.90	1.652	32.98
1.680	29.74	1.636	31.74	1.641	32.09	1.656	32.66	1.631	32.41	1.634	32.55
1.660	29.34	1.616	31.27	1.621	31.76	1.638	32.21	1.612	31.97	1.615	32.13
1.640	28.98	1.596	30.89	1.602	31.25	1.619	31.83	1.593	31.57	1.596	31.70
1.620	28.58	1.576	30.52	1.582	30.82	1.600	31.40	1.574	31.16	1.577	31.36
1.600	28.17	1.556	30.07	1.563	30.42	1.581	30.99	1.555	30.78	1.558	31.01
1.580	27.79	1.537	29.67	1.544	30.07	1.562	30.58	1.536	30.31	1.539	30.51
1.560	27.41	1.517	29.26	1.524	29.66	1.543	30.17	1.517	29.88	1.521	30.08

1.540	27.02	1.497	28.79	1.505	29.16	1.524	29.73	1.498	29.49	1.502	29.68
1.520	26.61	1.477	28.37	1.485	28.76	1.505	29.38	1.479	29.08	1.483	29.25
1.500	26.27	1.457	27.99	1.466	28.37	1.486	29.00	1.460	28.67	1.464	28.93
1.480	25.86	1.437	27.54	1.446	28.03	1.467	28.57	1.442	28.25	1.445	28.57
1.460	25.52	1.418	27.12	1.427	27.52	1.448	28.21	1.423	27.95	1.426	28.10
1.440	25.08	1.398	26.73	1.408	27.09	1.429	27.79	1.404	27.48	1.408	27.68
1.420	24.71	1.378	26.29	1.388	26.87	1.411	27.34	1.385	27.10	1.389	27.28
1.400	24.34	1.358	25.86	1.369	26.42	1.392	26.93	1.366	26.64	1.370	26.87
1.380	23.97	1.338	25.39	1.349	25.99	1.373	26.57	1.347	26.24	1.351	26.46
1.361	23.58	1.318	24.99	1.330	25.49	1.354	26.15	1.328	25.82	1.332	26.11
1.341	23.25	1.298	24.59	1.311	25.06	1.335	25.78	1.309	25.45	1.314	25.72
1.321	22.83	1.279	24.10	1.291	24.68	1.316	25.36	1.290	25.12	1.295	25.30
1.301	22.48	1.259	23.66	1.272	24.28	1.297	24.99	1.271	24.70	1.276	24.90
1.281	22.07	1.239	23.26	1.252	23.87	1.278	24.60	1.252	24.26	1.257	24.49
1.261	21.74	1.219	22.82	1.233	23.46	1.259	24.20	1.233	23.92	1.238	24.11
1.241	21.34	1.199	22.35	1.213	23.05	1.240	23.81	1.214	23.54	1.219	23.78
1.221	20.95	1.179	21.91	1.194	22.66	1.221	23.41	1.195	23.11	1.201	23.36
1.201	20.60	1.160	21.46	1.175	22.28	1.202	23.07	1.176	22.72	1.182	22.91
1.181	20.23	1.140	21.13	1.155	21.91	1.184	22.62	1.157	22.31	1.163	22.58
1.161	19.86	1.120	20.62	1.136	21.50	1.165	22.25	1.138	21.88	1.144	22.23
1.141	19.46	1.100	20.29	1.116	21.11	1.146	21.86	1.119	21.50	1.125	21.81
1.121	19.12	1.080	20.11	1.097	20.76	1.127	21.52	1.100	21.17	1.107	21.37
1.101	18.76	1.060	19.63	1.077	20.23	1.108	21.13	1.081	20.71	1.088	20.99
1.081	18.36	1.040	19.17	1.058	19.82	1.089	20.73	1.062	20.34	1.069	20.63
1.061	17.99	1.021	18.79	1.039	19.41	1.070	20.34	1.043	19.95	1.050	20.22
1.041	17.65	1.001	18.41	1.019	19.02	1.051	19.97	1.024	19.57	1.031	19.89
1.021	17.30	0.981	18.00	1.000	18.62	1.032	19.58	1.005	19.21	1.012	19.45
1.001	16.94	0.961	17.66	0.980	18.23	1.013	19.23	0.986	18.78	0.994	19.12
0.981	16.61	0.941	17.38	0.961	17.85	0.994	18.84	0.967	18.43	0.975	18.72
0.961	16.27	0.921	17.01	0.942	17.45	0.975	18.45	0.949	18.04	0.956	18.31
0.941	15.88	0.902	16.50	0.922	17.02	0.957	18.10	0.930	17.66	0.937	18.01
0.921	15.54	0.882	16.20	0.903	16.64	0.938	17.66	0.911	17.28	0.918	17.59
0.902	15.19	0.862	15.81	0.883	16.32	0.919	17.27	0.892	16.94	0.900	17.18
0.882	14.82	0.842	15.44	0.864	15.97	0.900	16.95	0.873	16.57	0.881	16.81
0.862	14.43	0.822	15.02	0.844	15.53	0.881	16.55	0.854	16.15	0.862	16.50
0.842	14.09	0.802	14.66	0.825	15.29	0.862	16.22	0.835	15.85	0.843	16.08
0.822	13.73	0.783	14.26	0.806	14.90	0.843	15.84	0.816	15.49	0.824	15.72
0.802	13.42	0.763	13.95	0.786	14.51	0.824	15.45	0.797	15.04	0.805	15.45
0.782	13.02	0.743	13.60	0.767	14.11	0.805	15.05	0.778	14.63	0.787	15.08
0.762	12.69	0.723	13.26	0.747	13.73	0.786	14.66	0.759	14.24	0.768	14.60
0.742	12.33	0.703	12.88	0.728	13.41	0.767	14.34	0.740	13.96	0.749	14.22
0.722	11.98	0.683	12.52	0.708	13.03	0.748	13.95	0.721	13.58	0.730	13.88
0.702	11.66	0.663	12.14	0.689	12.68	0.730	13.55	0.702	13.18	0.711	13.50
0.682	11.27	0.644	11.71	0.670	12.29	0.711	13.16	0.683	12.88	0.692	13.19
0.662	10.95	0.624	11.35	0.650	11.90	0.692	12.84	0.664	12.44	0.674	12.73
0.642	10.64	0.604	10.93	0.631	11.51	0.673	12.45	0.645	12.04	0.655	12.39
0.622	10.24	0.584	10.57	0.611	11.18	0.654	12.06	0.626	11.71	0.636	12.00
0.602	9.93	0.564	10.24	0.592	10.80	0.635	11.73	0.607	11.32	0.617	11.68
0.582	9.60	0.544	9.86	0.573	10.43	0.616	11.35	0.588	11.00	0.598	11.32
0.562	9.22	0.525	9.51	0.553	10.09	0.597	11.03	0.569	10.61	0.580	10.92
0.542	8.82	0.505	9.14	0.534	9.69	0.578	10.64	0.550	10.21	0.561	10.57
0.522	8.48	0.485	8.78	0.514	9.32	0.559	10.24	0.531	9.87	0.542	10.22
0.502	8.19	0.465	8.35	0.495	8.98	0.540	9.85	0.512	9.53	0.523	9.84
0.482	7.80	0.445	8.02	0.475	8.61	0.521	9.54	0.493	9.17	0.504	9.49
0.462	7.48	0.425	7.70	0.456	8.27	0.503	9.14	0.475	8.80	0.485	9.13

0.442	7.14	0.405	7.29	0.437	7.88	0.484	8.83	0.456	8.47	0.467	8.80
0.423	6.85	0.386	6.93	0.417	7.49	0.465	8.43	0.437	8.06	0.448	8.42
0.403	6.46	0.366	6.62	0.398	7.09	0.446	8.12	0.418	7.73	0.429	8.06
0.383	6.14	0.346	6.21	0.378	6.78	0.427	7.72	0.399	7.46	0.410	7.71
0.363	5.83	0.326	5.86	0.359	6.38	0.408	7.41	0.380	7.01	0.391	7.41
0.343	5.44	0.306	5.48	0.339	6.02	0.389	7.01	0.361	6.62	0.373	7.01
0.323	5.12	0.286	5.13	0.320	5.67	0.370	6.70	0.342	6.25	0.354	6.62
0.303	4.80	0.267	4.75	0.301	5.28	0.351	6.30	0.323	6.01	0.335	6.24
0.283	4.41	0.247	4.37	0.281	4.92	0.332	5.91	0.304	5.59	0.316	5.92
0.263	4.10	0.227	4.00	0.262	4.54	0.313	5.59	0.285	5.17	0.297	5.58
0.243	3.78	0.207	3.63	0.242	4.18	0.294	5.20	0.266	4.83	0.278	5.23
0.223	3.47	0.187	3.31	0.223	3.86	0.276	5.11	0.247	4.51	0.260	4.86
0.203	3.08	0.167	2.92	0.204	3.47	0.257	4.86	0.228	4.15	0.241	4.50
0.183	2.76	0.147	2.57	0.184	3.15	0.238	4.45	0.209	3.80	0.222	4.18
0.163	2.38	0.128	2.23	0.165	2.84	0.219	4.07	0.190	3.41	0.203	3.83
0.143	2.06	0.108	1.81	0.145	2.51	0.200	3.74	0.171	3.13	0.184	3.45
0.123	1.74			0.126	2.18	0.181	3.41	0.152	2.72	0.166	3.09
0.103	1.42			0.106	1.81	0.162	2.99	0.133	2.36	0.147	2.76

**Table S1 (continued).**  $P\rho T$  experimental data for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures.

$T = 298.15$ K											
$x = 0.8525$		$x = 0.9719$		$x = 0.9809$		$x = 0.9902$		$x = 0.9932$		$x = 0.9961$	
$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )
20.096	738.06	20.342	884.49	20.286	891.25	20.012	900.83	20.133	907.17	20.099	910.22
20.076	737.81	20.323	884.33	20.267	891.16	19.993	901.00	20.114	907.09	20.079	910.11
20.056	737.64	20.304	884.33	20.248	891.04	19.974	901.00	20.094	907.01	20.060	909.98
20.036	737.47	20.285	884.16	20.229	890.97	19.955	901.00	20.075	906.84	20.041	909.90
20.016	737.21	20.266	884.08	20.210	890.92	19.936	900.92	20.056	906.74	20.021	909.78
19.996	737.03	20.247	883.95	20.190	890.84	19.917	900.84	20.036	906.61	20.002	909.65
19.976	736.84	20.228	883.84	20.171	890.69	19.898	900.76	20.017	906.52	19.982	909.57
19.956	736.68	20.209	883.70	20.152	890.51	19.879	900.64	19.997	906.36	19.963	909.41
19.936	736.43	20.190	883.63	20.133	890.36	19.860	900.52	19.978	906.28	19.944	909.31
19.916	736.28	20.171	883.47	20.114	890.25	19.841	900.43	19.959	906.11	19.924	909.19
19.896	736.07	20.152	883.42	20.095	890.10	19.822	900.28	19.939	905.97	19.905	909.08
19.876	735.87	20.133	883.29	20.076	889.98	19.803	900.19	19.920	905.87	19.885	908.92
19.856	735.64	20.115	883.15	20.057	889.87	19.784	900.03	19.901	905.72	19.866	908.76
19.836	735.46	20.096	883.01	20.037	889.78	19.766	899.95	19.881	905.62	19.847	908.68
19.816	735.30	20.077	882.95	20.018	889.62	19.747	899.78	19.862	905.50	19.827	908.55
19.796	735.09	20.058	882.81	19.999	889.53	19.728	899.70	19.843	905.38	19.808	908.43
19.776	734.89	20.039	882.67	19.980	889.37	19.709	899.54	19.823	905.28	19.788	908.29
19.756	734.68	20.020	882.59	19.961	889.26	19.690	899.46	19.804	905.14	19.769	908.19
19.736	734.45	20.001	882.45	19.942	889.15	19.671	899.30	19.785	904.97	19.750	908.03
19.716	734.29	19.982	882.30	19.923	888.97	19.652	899.14	19.765	904.83	19.730	907.93
19.696	734.06	19.963	882.23	19.904	888.88	19.633	899.05	19.746	904.73	19.711	907.78
19.676	733.90	19.944	882.05	19.884	888.73	19.614	898.89	19.727	904.48	19.691	907.70
19.656	733.66	19.925	881.98	19.865	888.66	19.595	898.75	19.707	904.40	19.672	907.54
19.636	733.50	19.906	881.81	19.846	888.48	19.576	898.64	19.688	904.32	19.653	907.41
19.616	733.27	19.887	881.73	19.827	888.40	19.557	898.48	19.669	904.11	19.633	907.30
19.596	733.08	19.868	881.57	19.808	888.26	19.538	898.32	19.649	904.00	19.614	907.19
19.576	732.86	19.849	881.46	19.789	888.14	19.519	898.24	19.630	903.88	19.594	907.05
19.556	732.70	19.830	881.37	19.770	888.00	19.500	898.07	19.611	903.75	19.575	906.93
19.536	732.47	19.812	881.18	19.751	887.84	19.481	897.99	19.591	903.59	19.555	906.81
19.516	732.30	19.793	881.09	19.731	887.75	19.463	897.83	19.572	903.51	19.536	906.64
19.496	732.13	19.774	880.99	19.712	887.59	19.444	897.75	19.552	903.36	19.517	906.56
19.476	731.92	19.755	880.81	19.693	887.49	19.425	897.59	19.533	903.26	19.497	906.41
19.456	731.73	19.736	880.70	19.674	887.34	19.406	897.42	19.514	903.14	19.478	906.26
19.436	731.49	19.717	880.51	19.655	887.22	19.387	897.34	19.494	903.02	19.458	906.16
19.416	731.27	19.698	880.43	19.636	887.10	19.368	897.18	19.475	902.92	19.439	905.99
19.396	731.08	19.679	880.28	19.617	886.94	19.349	897.02	19.456	902.78	19.420	905.85
19.376	730.89	19.660	880.17	19.598	886.85	19.330	896.94	19.436	902.61	19.400	905.75
19.356	730.67	19.641	880.02	19.578	886.69	19.311	896.77	19.417	902.53	19.381	905.64
19.336	730.49	19.622	879.94	19.559	886.52	19.292	896.69	19.398	902.37	19.361	905.48
19.316	730.27	19.603	879.79	19.540	886.41	19.273	896.53	19.378	902.28	19.342	905.35
19.296	730.06	19.584	879.69	19.521	886.29	19.254	896.42	19.359	902.13	19.323	905.26
19.275	729.86	19.565	879.52	19.502	886.21	19.235	896.29	19.340	901.96	19.303	905.10
19.255	729.64	19.546	879.40	19.483	886.00	19.216	896.12	19.320	901.86	19.284	904.98
19.235	729.46	19.527	879.25	19.464	885.92	19.197	896.04	19.301	901.72	19.264	904.84
19.215	729.26	19.509	879.12	19.445	885.72	19.179	895.88	19.282	901.56	19.245	904.69
19.195	729.03	19.490	879.01	19.425	885.64	19.160	895.71	19.262	901.42	19.226	904.57
19.175	728.81	19.471	878.89	19.406	885.48	19.141	895.63	19.243	901.31	19.206	904.45

19.155	728.63	19.452	878.72	19.387	885.34	19.122	895.47	19.224	901.16	19.187	904.30
19.135	728.37	19.433	878.62	19.368	885.23	19.103	895.31	19.204	901.07	19.167	904.20
19.115	728.20	19.414	878.45	19.349	885.07	19.084	895.22	19.185	900.90	19.148	904.04
19.095	727.98	19.395	878.31	19.330	884.98	19.065	895.06	19.166	900.79	19.129	903.93
19.075	727.80	19.376	878.18	19.311	884.81	19.046	894.98	19.146	900.66	19.109	903.80
19.055	727.62	19.357	878.06	19.292	884.66	19.027	894.82	19.127	900.50	19.090	903.63
19.035	727.37	19.338	877.92	19.273	884.53	19.008	894.72	19.107	900.40	19.070	903.55
19.015	727.21	19.319	877.74	19.253	884.42	18.989	894.58	19.088	900.25	19.051	903.39
18.995	726.95	19.300	877.59	19.234	884.26	18.970	894.41	19.069	900.09	19.031	903.26
18.975	726.80	19.281	877.50	19.215	884.09	18.951	894.33	19.049	899.96	19.012	903.15
18.955	726.57	19.262	877.34	19.196	883.99	18.932	894.17	19.030	899.85	18.993	902.98
18.935	726.41	19.243	877.19	19.177	883.85	18.913	894.05	19.011	899.69	18.973	902.88
18.915	726.18	19.224	877.11	19.158	883.70	18.894	893.93	18.991	899.54	18.954	902.72
18.895	725.94	19.206	876.93	19.139	883.52	18.876	893.76	18.972	899.44	18.934	902.58
18.875	725.70	19.187	876.82	19.120	883.44	18.857	893.68	18.953	899.30	18.915	902.44
18.855	725.54	19.168	876.63	19.100	883.28	18.838	893.52	18.933	899.19	18.896	902.33
18.835	725.29	19.149	876.57	19.081	883.12	18.819	893.36	18.914	899.02	18.876	902.13
18.815	725.13	19.130	876.43	19.062	883.01	18.800	893.19	18.895	898.87	18.857	902.00
18.795	724.90	19.111	876.30	19.043	882.87	18.781	893.11	18.875	898.72	18.837	901.90
18.775	724.67	19.092	876.18	19.024	882.75	18.762	892.95	18.856	898.60	18.818	901.71
18.755	724.50	19.073	876.05	19.005	882.58	18.743	892.80	18.837	898.50	18.799	901.60
18.735	724.26	19.054	875.91	18.986	882.46	18.724	892.70	18.817	898.35	18.779	901.44
18.715	724.10	19.035	875.78	18.967	882.33	18.705	892.54	18.798	898.22	18.760	901.35
18.695	723.84	19.016	875.63	18.947	882.21	18.686	892.38	18.779	898.14	18.740	901.19
18.675	723.58	18.997	875.50	18.928	882.06	18.667	892.30	18.759	897.95	18.721	901.03
18.655	723.43	18.978	875.36	18.909	881.89	18.648	892.14	18.740	897.81	18.702	900.90
18.635	723.17	18.959	875.21	18.890	881.77	18.629	891.97	18.721	897.68	18.682	900.78
18.615	722.97	18.940	875.07	18.871	881.64	18.610	891.89	18.701	897.56	18.663	900.62
18.595	722.75	18.921	874.93	18.852	881.44	18.592	891.73	18.682	897.44	18.643	900.54
18.575	722.56	18.902	874.78	18.833	881.34	18.573	891.65	18.662	897.30	18.624	900.38
18.555	722.32	18.884	874.64	18.814	881.18	18.554	891.48	18.643	897.19	18.605	900.21
18.535	722.07	18.865	874.56	18.794	881.07	18.535	891.32	18.624	897.03	18.585	900.07
18.515	721.91	18.846	874.41	18.775	880.90	18.516	891.24	18.604	896.90	18.566	899.97
18.495	721.65	18.827	874.25	18.756	880.76	18.497	891.08	18.585	896.77	18.546	899.81
18.475	721.43	18.808	874.10	18.737	880.59	18.478	890.91	18.566	896.64	18.527	899.72
18.455	721.20	18.789	874.00	18.718	880.51	18.459	890.75	18.546	896.52	18.507	899.56
18.435	720.98	18.770	873.85	18.699	880.33	18.440	890.67	18.527	896.36	18.488	899.40
18.415	720.74	18.751	873.68	18.680	880.19	18.421	890.51	18.508	896.22	18.469	899.26
18.395	720.50	18.732	873.58	18.661	880.05	18.402	890.36	18.488	896.10	18.449	899.16
18.375	720.27	18.713	873.41	18.641	879.94	18.383	890.26	18.469	895.98	18.430	898.99
18.355	720.05	18.694	873.23	18.622	879.78	18.364	890.10	18.450	895.86	18.410	898.83
18.335	719.80	18.675	873.12	18.603	879.63	18.345	889.94	18.430	895.74	18.391	898.69
18.315	719.57	18.656	872.96	18.584	879.46	18.326	889.78	18.411	895.53	18.372	898.59
18.295	719.40	18.637	872.82	18.565	879.36	18.307	889.69	18.392	895.45	18.352	898.42
18.275	719.13	18.618	872.69	18.546	879.21	18.289	889.53	18.372	895.30	18.333	898.31
18.255	718.91	18.599	872.53	18.527	879.08	18.270	889.44	18.353	895.17	18.313	898.18
18.235	718.67	18.581	872.42	18.508	878.97	18.251	889.29	18.334	895.05	18.294	898.03
18.215	718.42	18.562	872.22	18.488	878.80	18.232	889.12	18.314	894.89	18.275	897.85
18.195	718.18	18.543	872.11	18.469	878.64	18.213	888.96	18.295	894.76	18.255	897.76
18.175	717.94	18.524	871.97	18.450	878.53	18.194	888.80	18.276	894.62	18.236	897.61
18.155	717.71	18.505	871.80	18.431	878.39	18.175	888.71	18.256	894.42	18.216	897.51
18.135	717.46	18.486	871.64	18.412	878.23	18.156	888.56	18.237	894.32	18.197	897.32
18.115	717.21	18.467	871.47	18.393	878.07	18.137	888.47	18.217	894.15	18.178	897.20
18.095	716.96	18.448	871.36	18.374	877.91	18.118	888.31	18.198	894.02	18.158	897.10
18.075	716.73	18.429	871.24	18.355	877.83	18.099	888.18	18.179	893.91	18.139	896.96

18.055	716.48	18.410	871.07	18.335	877.65	18.080	888.07	18.159	893.76	18.119	896.80
18.035	716.23	18.391	870.91	18.316	877.50	18.061	887.90	18.140	893.59	18.100	896.63
18.015	715.99	18.372	870.80	18.297	877.36	18.042	887.75	18.121	893.50	18.081	896.52
17.995	715.75	18.353	870.59	18.278	877.22	18.023	887.69	18.101	893.38	18.061	896.34
17.975	715.67	18.334	870.50	18.259	877.09	18.004	887.57	18.082	893.17	18.042	896.23
17.955	715.67	18.315	870.33	18.240	876.93	17.986	887.44	18.063	893.07	18.022	896.06
17.935	715.58	18.296	870.18	18.221	876.78	17.967	887.30	18.043	892.91	18.003	895.90
17.915	715.46	18.278	870.05	18.202	876.60	17.948	887.16	18.024	892.80	17.983	895.74
17.895	715.35	18.259	869.94	18.183	876.47	17.929	887.02	18.005	892.61	17.964	895.63
17.875	715.11	18.240	869.77	18.163	876.35	17.910	886.86	17.985	892.50	17.945	895.49
17.855	714.45	18.221	869.58	18.144	876.20	17.891	886.76	17.966	892.32	17.925	895.33
17.835	714.01	18.202	869.47	18.125	876.04	17.872	886.63	17.947	892.20	17.906	895.17
17.815	713.72	18.183	869.34	18.106	875.88	17.853	886.47	17.927	892.01	17.886	895.05
17.795	713.64	18.164	869.16	18.087	875.73	17.834	886.32	17.908	891.89	17.867	894.92
17.775	713.55	18.145	868.99	18.068	875.62	17.815	886.24	17.889	891.79	17.848	894.76
17.755	713.34	18.126	868.91	18.049	875.42	17.796	886.08	17.869	891.66	17.828	894.60
17.735	713.10	18.107	868.74	18.030	875.35	17.777	885.98	17.850	891.48	17.809	894.43
17.715	712.85	18.088	868.58	18.010	875.24	17.758	885.86	17.831	891.31	17.789	894.27
17.695	712.59	18.069	868.50	17.991	875.09	17.739	885.70	17.811	891.22	17.770	894.19
17.675	712.34	18.050	868.34	17.972	874.95	17.720	885.55	17.792	891.04	17.751	893.99
17.654	712.14	18.031	868.16	17.953	874.75	17.702	885.40	17.772	890.90	17.731	893.86
17.634	711.93	18.012	868.00	17.934	874.66	17.683	885.27	17.753	890.76	17.712	893.70
17.614	711.70	17.993	867.83	17.915	874.49	17.664	885.17	17.734	890.65	17.692	893.55
17.594	711.48	17.975	867.74	17.896	874.36	17.645	885.02	17.714	890.50	17.673	893.39
17.574	711.25	17.956	867.59	17.877	874.23	17.626	884.86	17.695	890.32	17.654	893.26
17.554	711.01	17.937	867.41	17.857	874.10	17.607	884.71	17.676	890.20	17.634	893.13
17.534	710.77	17.918	867.25	17.838	873.96	17.588	884.55	17.656	890.08	17.615	892.97
17.514	710.51	17.899	867.08	17.819	873.82	17.569	884.39	17.637	889.90	17.595	892.80
17.494	710.28	17.880	866.99	17.800	873.69	17.550	884.24	17.618	889.79	17.576	892.68
17.474	710.05	17.861	866.82	17.781	873.51	17.531	884.17	17.598	889.59	17.557	892.55
17.454	709.77	17.842	866.68	17.762	873.43	17.512	884.00	17.579	889.45	17.537	892.39
17.434	709.55	17.823	866.52	17.743	873.29	17.493	883.83	17.560	889.34	17.518	892.23
17.414	709.33	17.804	866.37	17.724	873.16	17.474	883.75	17.540	889.18	17.498	892.07
17.394	709.02	17.785	866.19	17.704	873.02	17.455	883.59	17.521	889.02	17.479	891.94
17.374	708.82	17.766	866.08	17.685	872.88	17.436	883.43	17.502	888.91	17.459	891.80
17.354	708.61	17.747	865.89	17.666	872.72	17.417	883.27	17.482	888.70	17.440	891.66
17.334	708.36	17.728	865.77	17.647	872.53	17.399	883.13	17.463	888.60	17.421	891.50
17.314	708.10	17.709	865.57	17.628	872.46	17.380	882.98	17.444	888.42	17.401	891.34
17.294	707.86	17.690	865.45	17.609	872.23	17.361	882.83	17.424	888.29	17.382	891.18
17.274	707.61	17.672	865.29	17.590	872.09	17.342	882.67	17.405	888.18	17.362	891.09
17.254	707.36	17.653	865.16	17.571	871.95	17.323	882.52	17.386	887.96	17.343	890.91
17.234	707.13	17.634	864.99	17.551	871.80	17.304	882.38	17.366	887.81	17.324	890.77
17.214	706.85	17.615	864.86	17.532	871.65	17.285	882.21	17.347	887.72	17.304	890.61
17.194	706.63	17.596	864.65	17.513	871.50	17.266	882.12	17.327	887.56	17.285	890.44
17.174	706.38	17.577	864.54	17.494	871.40	17.247	881.96	17.308	887.37	17.265	890.33
17.154	706.10	17.558	864.39	17.475	871.27	17.228	881.85	17.289	887.24	17.246	890.22
17.134	705.81	17.539	864.21	17.456	871.12	17.209	881.65	17.269	887.10	17.227	890.09
17.114	705.62	17.520	864.04	17.437	870.96	17.190	881.52	17.250	886.92	17.207	889.96
17.094	705.36	17.501	863.89	17.418	870.80	17.171	881.35	17.231	886.77	17.188	889.85
17.074	705.09	17.482	863.74	17.398	870.64	17.152	881.18	17.211	886.66	17.168	889.75
17.054	704.82	17.463	863.58	17.379	870.49	17.133	881.08	17.192	886.50	17.149	889.66
17.034	704.55	17.444	863.42	17.360	870.33	17.115	880.94	17.173	886.33	17.130	889.50
17.014	704.36	17.425	863.26	17.341	870.18	17.096	880.78	17.153	886.19	17.110	889.30
16.994	704.07	17.406	863.10	17.322	870.03	17.077	880.61	17.134	886.01	17.091	889.14
16.974	703.83	17.387	862.95	17.303	869.87	17.058	880.44	17.115	885.89	17.071	888.98

16.954	703.57	17.369	862.79	17.284	869.72	17.039	880.27	17.095	885.74	17.052	888.88
16.934	703.31	17.350	862.65	17.265	869.57	17.020	880.11	17.076	885.58	17.033	888.71
16.914	703.04	17.331	862.44	17.246	869.42	17.001	880.01	17.057	885.42	17.013	888.63
16.894	702.79	17.312	862.32	17.226	869.27	16.982	879.86	17.037	885.28	16.994	888.51
16.874	702.57	17.293	862.13	17.207	869.11	16.963	879.70	17.018	885.15	16.974	888.34
16.854	702.29	17.274	862.00	17.188	868.95	16.944	879.53	16.999	884.99	16.955	888.21
16.834	702.03	17.255	861.86	17.169	868.79	16.925	879.36	16.979	884.85	16.935	888.08
16.814	701.73	17.236	861.67	17.150	868.63	16.906	879.28	16.960	884.66	16.916	887.91
16.794	701.44	17.217	861.47	17.131	868.54	16.887	879.11	16.941	884.53	16.897	887.76
16.774	701.19	17.198	861.34	17.112	868.37	16.868	878.95	16.921	884.38	16.877	887.62
16.754	700.91	17.179	861.19	17.093	868.20	16.849	878.77	16.902	884.22	16.858	887.51
16.734	700.70	17.160	861.04	17.073	868.04	16.830	878.61	16.882	884.07	16.838	887.34
16.714	700.41	17.141	860.88	17.054	867.87	16.812	878.45	16.863	883.89	16.819	887.21
16.694	700.13	17.122	860.73	17.035	867.73	16.793	878.35	16.844	883.73	16.800	887.00
16.674	699.85	17.103	860.49	17.016	867.57	16.774	878.17	16.824	883.61	16.780	886.94
16.654	699.61	17.084	860.40	16.997	867.45	16.755	878.00	16.805	883.45	16.761	886.78
16.634	699.37	17.065	860.18	16.978	867.28	16.736	877.81	16.786	883.28	16.741	886.62
16.614	699.08	17.047	860.02	16.959	867.10	16.717	877.71	16.766	883.14	16.722	886.48
16.594	698.79	17.028	859.89	16.940	866.99	16.698	877.54	16.747	882.98	16.703	886.31
16.574	698.51	17.009	859.67	16.920	866.81	16.679	877.37	16.728	882.80	16.683	886.17
16.554	698.26	16.990	859.52	16.901	866.61	16.660	877.21	16.708	882.66	16.664	886.00
16.534	697.93	16.971	859.36	16.882	866.51	16.641	877.09	16.689	882.55	16.644	885.87
16.514	697.69	16.952	859.21	16.863	866.33	16.622	876.92	16.670	882.37	16.625	885.74
16.494	697.40	16.933	859.07	16.844	866.14	16.603	876.75	16.650	882.18	16.606	885.58
16.474	697.18	16.914	858.93	16.825	865.96	16.584	876.57	16.631	882.05	16.586	885.44
16.454	696.87	16.895	858.74	16.806	865.85	16.565	876.42	16.612	881.88	16.567	885.34
16.434	696.57	16.876	858.59	16.787	865.68	16.546	876.30	16.592	881.73	16.547	885.06
16.414	696.35	16.857	858.37	16.767	865.49	16.527	876.11	16.573	881.61	16.528	884.96
16.394	696.08	16.838	858.28	16.748	865.32	16.509	876.01	16.554	881.43	16.508	884.86
16.374	695.78	16.819	858.10	16.729	865.21	16.490	875.83	16.534	881.28	16.489	884.71
16.354	695.50	16.800	857.95	16.710	865.04	16.471	875.66	16.515	881.12	16.470	884.53
16.334	695.21	16.781	857.79	16.691	864.85	16.452	875.47	16.496	880.97	16.450	884.36
16.314	694.97	16.762	857.56	16.672	864.67	16.433	875.36	16.476	880.77	16.431	884.26
16.294	694.69	16.744	857.39	16.653	864.56	16.414	875.18	16.457	880.63	16.411	884.08
16.274	694.37	16.725	857.26	16.634	864.38	16.395	874.99	16.438	880.47	16.392	883.91
16.254	694.13	16.706	857.07	16.614	864.24	16.376	874.80	16.418	880.30	16.373	883.74
16.234	693.79	16.687	856.92	16.595	864.11	16.357	874.70	16.399	880.15	16.353	883.57
16.214	693.54	16.668	856.77	16.576	863.97	16.338	874.51	16.379	880.04	16.334	883.44
16.194	693.22	16.649	856.58	16.557	863.81	16.319	874.35	16.360	879.82	16.314	883.32
16.174	692.99	16.630	856.43	16.538	863.67	16.300	874.22	16.341	879.65	16.295	883.13
16.154	692.67	16.611	856.25	16.519	863.54	16.281	874.04	16.321	879.55	16.276	882.97
16.134	692.43	16.592	856.11	16.500	863.33	16.262	873.83	16.302	879.33	16.256	882.78
16.114	692.13	16.573	855.95	16.481	863.20	16.243	873.74	16.283	879.20	16.237	882.68
16.094	691.82	16.554	855.77	16.461	863.06	16.225	873.55	16.263	879.03	16.217	882.51
16.074	691.50	16.535	855.55	16.442	862.90	16.206	873.41	16.244	878.84	16.198	882.35
16.054	691.21	16.516	855.42	16.423	862.73	16.187	873.27	16.225	878.68	16.179	882.20
16.034	690.94	16.497	855.25	16.404	862.59	16.168	873.08	16.205	878.60	16.159	882.10
16.013	690.65	16.478	855.04	16.385	862.47	16.149	872.95	16.186	878.36	16.140	881.93
15.993	690.31	16.459	854.95	16.366	862.31	16.130	872.79	16.167	878.27	16.120	881.71
15.973	690.05	16.441	854.74	16.347	862.13	16.111	872.59	16.147	878.08	16.101	881.58
15.953	689.79	16.422	854.56	16.328	861.97	16.092	872.40	16.128	877.93	16.082	881.43
15.933	689.52	16.403	854.38	16.308	861.80	16.073	872.27	16.109	877.72	16.062	881.24
15.913	689.17	16.384	854.27	16.289	861.66	16.054	872.07	16.089	877.59	16.043	881.17
15.893	688.85	16.365	854.05	16.270	861.52	16.035	871.95	16.070	877.45	16.023	880.98
15.873	688.60	16.346	853.89	16.251	861.36	16.016	871.75	16.051	877.28	16.004	880.82

15.853	688.29	16.327	853.75	16.232	861.19	15.997	871.61	16.031	877.08	15.984	880.69
15.833	688.04	16.308	853.57	16.213	861.01	15.978	871.42	16.012	876.94	15.965	880.53
15.813	687.69	16.289	853.36	16.194	860.85	15.959	871.22	15.993	876.77	15.946	880.37
15.793	687.39	16.270	853.24	16.175	860.71	15.940	871.12	15.973	876.64	15.926	880.18
15.773	687.08	16.251	853.09	16.156	860.58	15.922	870.92	15.954	876.49	15.907	880.00
15.753	686.79	16.232	852.85	16.136	860.41	15.903	870.80	15.934	876.28	15.887	879.85
15.733	686.52	16.213	852.74	16.117	860.23	15.884	870.62	15.915	876.13	15.868	879.67
15.713	686.20	16.194	852.53	16.098	860.04	15.865	870.42	15.896	875.95	15.849	879.51
15.693	685.90	16.175	852.35	16.079	859.90	15.846	870.24	15.876	875.85	15.829	879.35
15.673	685.61	16.156	852.18	16.060	859.78	15.827	870.12	15.857	875.65	15.810	879.17
15.653	685.32	16.138	852.02	16.041	859.60	15.808	869.92	15.838	875.50	15.790	878.97
15.633	684.93	16.119	851.86	16.022	859.42	15.789	869.80	15.818	875.27	15.771	878.86
15.613	684.67	16.100	851.69	16.003	859.27	15.770	869.60	15.799	875.17	15.752	878.68
15.593	684.33	16.081	851.49	15.983	859.11	15.751	869.49	15.780	874.95	15.732	878.54
15.573	684.02	16.062	851.33	15.964	858.94	15.732	869.29	15.760	874.77	15.713	878.39
15.553	683.70	16.043	851.17	15.945	858.78	15.713	869.09	15.741	874.64	15.693	878.24
15.533	683.35	16.024	851.01	15.926	858.64	15.694	868.95	15.722	874.51	15.674	878.08
15.513	683.09	16.005	850.86	15.907	858.46	15.675	868.75	15.702	874.30	15.655	877.92
15.493	682.78	15.986	850.73	15.888	858.31	15.656	868.63	15.683	874.11	15.635	877.76
15.473	682.44	15.967	850.58	15.869	858.13	15.638	868.43	15.664	874.02	15.616	877.54
15.453	682.13	15.948	850.36	15.850	857.93	15.619	868.24	15.644	873.83	15.596	877.32
15.433	681.78	15.929	850.22	15.830	857.72	15.600	868.09	15.625	873.63	15.577	877.19
15.413	681.48	15.910	850.06	15.811	857.57	15.581	867.91	15.606	873.49	15.558	877.00
15.393	681.23	15.891	849.91	15.792	857.42	15.562	867.78	15.586	873.27	15.538	876.84
15.373	680.90	15.872	849.69	15.773	857.28	15.543	867.58	15.567	873.09	15.519	876.69
15.353	680.58	15.853	849.58	15.754	857.11	15.524	867.39	15.548	872.97	15.499	876.51
15.333	680.32	15.835	849.42	15.735	856.94	15.505	867.28	15.528	872.79	15.480	876.37
15.313	679.96	15.816	849.20	15.716	856.75	15.486	867.09	15.509	872.60	15.460	876.20
15.293	679.63	15.797	849.05	15.697	856.57	15.467	866.88	15.489	872.40	15.441	876.02
15.273	679.34	15.778	848.85	15.677	856.46	15.448	866.77	15.470	872.24	15.422	875.86
15.253	678.96	15.759	848.67	15.658	856.26	15.429	866.58	15.451	872.07	15.402	875.73
15.233	678.69	15.740	848.53	15.639	856.07	15.410	866.39	15.431	871.91	15.383	875.50
15.213	678.30	15.721	848.32	15.620	855.95	15.391	866.25	15.412	871.73	15.363	875.35
15.193	678.05	15.702	848.11	15.601	855.71	15.372	866.07	15.393	871.50	15.344	875.20
15.173	677.71	15.683	847.95	15.582	855.50	15.353	865.88	15.373	871.36	15.325	874.97
15.153	677.39	15.664	847.79	15.563	855.40	15.335	865.68	15.354	871.09	15.305	874.85
15.133	677.02	15.645	847.64	15.544	855.24	15.316	865.55	15.335	870.97	15.286	874.68
15.113	676.72	15.626	847.47	15.524	855.03	15.297	865.33	15.315	870.82	15.266	874.46
15.093	676.33	15.607	847.25	15.505	854.90	15.278	865.18	15.296	870.60	15.247	874.32
15.073	675.98	15.588	847.13	15.486	854.71	15.259	865.01	15.277	870.42	15.228	874.15
15.053	675.63	15.569	846.92	15.467	854.54	15.240	864.85	15.257	870.20	15.208	873.97
15.033	675.30	15.550	846.79	15.448	854.38	15.221	864.64	15.238	870.03	15.189	873.83
15.013	674.91	15.531	846.56	15.429	854.19	15.202	864.50	15.219	869.87	15.169	873.70
14.993	674.55	15.513	846.40	15.410	854.00	15.183	864.29	15.199	869.67	15.150	873.52
14.973	674.18	15.494	846.19	15.391	853.84	15.164	864.15	15.180	869.47	15.131	873.29
14.953	673.85	15.475	846.05	15.371	853.66	15.145	863.94	15.161	869.30	15.111	873.11
14.933	673.50	15.456	845.81	15.352	853.48	15.126	863.74	15.141	869.13	15.092	872.91
14.913	673.12	15.437	845.67	15.333	853.31	15.107	863.59	15.122	868.91	15.072	872.74
14.893	672.80	15.418	845.42	15.314	853.13	15.088	863.39	15.103	868.81	15.053	872.60
14.873	672.45	15.399	845.30	15.295	852.94	15.069	863.27	15.083	868.56	15.034	872.42
14.853	672.11	15.380	845.12	15.276	852.78	15.050	863.07	15.064	868.39	15.014	872.23
14.833	671.74	15.361	844.90	15.257	852.62	15.032	862.89	15.044	868.24	14.995	872.07
14.813	671.41	15.342	844.76	15.238	852.43	15.013	862.71	15.025	868.01	14.975	871.89
14.793	671.03	15.323	844.54	15.219	852.26	14.994	862.56	15.006	867.83	14.956	871.69
14.773	670.60	15.304	844.40	15.199	852.10	14.975	862.36	14.986	867.65	14.936	871.50



14.753	670.28	15.285	844.23	15.180	851.84	14.956	862.16	14.967	867.42	14.917	871.37
14.733	669.86	15.266	844.03	15.161	851.69	14.937	862.00	14.948	867.26	14.898	871.22
14.713	669.57	15.247	843.83	15.142	851.55	14.918	861.85	14.928	867.05	14.878	870.97
14.693	669.19	15.228	843.63	15.123	851.30	14.899	861.65	14.909	866.91	14.859	870.85
14.673	668.43	15.210	843.47	15.104	851.10	14.880	861.49	14.890	866.69	14.839	870.68
14.653	668.18	15.191	843.31	15.085	851.00	14.861	861.26	14.870	866.51	14.820	870.45
14.633	667.79	15.172	843.08	15.066	850.84	14.842	861.12	14.851	866.35	14.801	870.27
14.613	667.45	15.153	842.90	15.046	850.63	14.823	860.97	14.832	866.12	14.781	870.14
14.593	667.19	15.134	842.71	15.027	850.48	14.804	860.75	14.812	865.95	14.762	869.94
14.573	666.81	15.115	842.49	15.008	850.30	14.785	860.59	14.793	865.75	14.742	869.80
14.553	666.48	15.096	842.34	14.989	850.09	14.766	860.37	14.774	865.55	14.723	869.61
14.533	666.14	15.077	842.15	14.970	849.87	14.748	860.22	14.754	865.38	14.704	869.46
14.513	665.75	15.058	841.95	14.951	849.67	14.729	859.99	14.735	865.18	14.684	869.29
14.493	665.38	15.039	841.77	14.932	849.46	14.710	859.84	14.716	864.99	14.665	869.10
14.473	665.02	15.020	841.59	14.913	849.32	14.691	859.66	14.696	864.84	14.645	868.87
14.453	664.66	15.001	841.36	14.893	849.17	14.672	859.47	14.677	864.70	14.626	868.69
14.433	664.29	14.982	841.19	14.874	848.91	14.653	859.32	14.658	864.50	14.607	868.54
14.413	663.89	14.963	840.99	14.855	848.76	14.634	859.10	14.638	864.32	14.587	868.32
14.392	663.50	14.944	840.81	14.836	848.60	14.615	858.95	14.619	864.08	14.568	868.14
14.372	663.15	14.925	840.63	14.817	848.42	14.596	858.72	14.599	863.94	14.548	867.95
14.352	662.74	14.907	840.42	14.798	848.19	14.577	858.57	14.580	863.75	14.529	867.76
14.332	662.42	14.888	840.20	14.779	848.04	14.558	858.32	14.561	863.59	14.510	867.57
14.312	662.01	14.869	840.07	14.760	847.85	14.539	858.18	14.541	863.43	14.490	867.38
14.292	661.61	14.850	839.85	14.740	847.64	14.520	858.03	14.522	863.20	14.471	867.21
14.272	661.27	14.831	839.61	14.721	847.43	14.501	857.86	14.503	863.05	14.451	866.98
14.252	660.88	14.812	839.47	14.702	847.26	14.482	857.64	14.483	862.86	14.432	866.90
14.232	660.47	14.793	839.23	14.683	847.08	14.463	857.46	14.464	862.67	14.412	866.64
14.212	660.07	14.774	839.04	14.664	846.88	14.445	857.26	14.445	862.53	14.393	866.52
14.192	659.66	14.755	838.85	14.645	846.76	14.426	857.09	14.425	862.35	14.374	866.34
14.172	659.29	14.736	838.70	14.626	846.53	14.407	856.92	14.406	862.12	14.354	866.12
14.152	658.93	14.717	838.47	14.607	846.39	14.388	856.75	14.387	861.92	14.335	865.92
14.132	658.52	14.698	838.30	14.587	846.18	14.369	856.51	14.367	861.72	14.315	865.76
14.112	658.12	14.679	838.11	14.568	845.96	14.350	856.35	14.348	861.54	14.296	865.61
14.092	657.71	14.660	837.89	14.549	845.74	14.331	856.10	14.329	861.37	14.277	865.42
14.072	657.31	14.641	837.66	14.530	845.61	14.312	855.93	14.309	861.23	14.257	865.22
14.052	656.90	14.622	837.43	14.511	845.37	14.293	855.78	14.290	860.98	14.238	865.03
14.032	656.49	14.604	837.24	14.492	845.19	14.274	855.58	14.271	860.82	14.218	864.84
14.012	656.09	14.585	837.05	14.473	844.98	14.255	855.41	14.251	860.66	14.199	864.65
13.992	655.74	14.566	836.87	14.454	844.76	14.236	855.20	14.232	860.47	14.180	864.45
13.972	655.58	14.547	836.66	14.434	844.62	14.217	854.98	14.213	860.29	14.160	864.21
13.952	655.24	14.528	836.44	14.415	844.41	14.198	854.79	14.193	860.13	14.141	864.04
13.932	654.86	14.509	836.28	14.396	844.23	14.179	854.60	14.174	859.90	14.121	863.85
13.912	654.48	14.490	836.08	14.377	844.02	14.161	854.42	14.154	859.73	14.102	863.66
13.892	654.08	14.471	835.87	14.358	843.83	14.142	854.22	14.135	859.54	14.083	863.50
13.872	653.79	14.452	835.64	14.339	843.61	14.123	854.00	14.116	859.35	14.063	863.29
13.852	653.40	14.433	835.47	14.320	843.39	14.104	853.83	14.096	859.15	14.044	863.09
13.832	652.99	14.414	835.27	14.301	843.23	14.085	853.67	14.077	859.03	14.024	862.94
13.812	652.62	14.395	835.05	14.282	843.07	14.066	853.46	14.058	858.82	14.005	862.72
13.792	652.20	14.376	834.83	14.262	842.79	14.047	853.26	14.038	858.62	13.986	862.51
13.772	651.78	14.357	834.66	14.243	842.62	14.028	853.06	14.019	858.45	13.966	862.33
13.752	651.40	14.338	834.47	14.224	842.39	14.009	852.88	14.000	858.22	13.947	862.12
13.732	651.00	14.319	834.28	14.205	842.22	13.990	852.70	13.980	858.05	13.927	861.94
13.712	650.59	14.301	834.08	14.186	842.07	13.971	852.48	13.961	857.87	13.908	861.80
13.692	650.16	14.282	833.90	14.167	841.84	13.952	852.32	13.942	857.69	13.888	861.58
13.672	649.80	14.263	833.65	14.148	841.66	13.933	852.05	13.922	857.51	13.869	861.37

13.652	649.34	14.244	833.49	14.129	841.43	13.914	851.88	13.903	857.31	13.850	861.14
13.632	648.93	14.225	833.31	14.109	841.22	13.895	851.68	13.884	857.12	13.830	861.00
13.612	648.46	14.206	833.07	14.090	841.02	13.876	851.49	13.864	856.98	13.811	860.80
13.592	648.08	14.187	832.85	14.071	840.85	13.858	851.32	13.845	856.74	13.791	860.63
13.572	647.60	14.168	832.67	14.052	840.60	13.839	851.11	13.826	856.53	13.772	860.44
13.552	647.21	14.149	832.48	14.033	840.35	13.820	850.92	13.806	856.37	13.753	860.16
13.532	646.77	14.130	832.24	14.014	840.22	13.801	850.74	13.787	856.17	13.733	860.01
13.512	646.33	14.111	832.00	13.995	839.98	13.782	850.49	13.768	855.98	13.714	859.78
13.492	645.92	14.092	831.79	13.976	839.74	13.763	850.33	13.748	855.76	13.694	859.61
13.472	645.46	14.073	831.57	13.956	839.56	13.744	850.09	13.729	855.57	13.675	859.42
13.452	645.05	14.054	831.38	13.937	839.37	13.725	849.90	13.709	855.37	13.656	859.25
13.432	644.54	14.035	831.08	13.918	839.18	13.706	849.69	13.690	855.17	13.636	859.01
13.412	644.06	14.016	830.93	13.899	838.93	13.687	849.50	13.671	854.98	13.617	858.78
13.392	643.63	13.998	830.71	13.880	838.73	13.668	849.31	13.651	854.80	13.597	858.57
13.372	643.14	13.979	830.50	13.861	838.59	13.649	849.09	13.632	854.62	13.578	858.37
13.352	642.69	13.960	830.32	13.842	838.39	13.630	848.87	13.613	854.38	13.559	858.21
13.332	642.24	13.941	830.01	13.823	838.11	13.611	848.69	13.593	854.18	13.539	858.01
13.312	641.73	13.922	829.81	13.803	837.96	13.592	848.50	13.574	853.97	13.520	857.85
13.292	641.37	13.903	829.59	13.784	837.69	13.573	848.29	13.555	853.78	13.500	857.66
13.272	640.94	13.884	829.37	13.765	837.53	13.555	848.09	13.535	853.59	13.481	857.37
13.252	640.55	13.865	829.14	13.746	837.35	13.536	847.88	13.516	853.41	13.462	857.23
13.232	640.14	13.846	828.88	13.727	837.06	13.517	847.67	13.497	853.20	13.442	857.02
13.212	639.66	13.827	828.67	13.708	836.86	13.498	847.48	13.477	853.00	13.423	856.84
13.192	639.20	13.808	828.46	13.689	836.65	13.479	847.23	13.458	852.80	13.403	856.61
13.172	638.76	13.789	828.28	13.670	836.46	13.460	847.07	13.439	852.57	13.384	856.37
13.152	638.39	13.770	828.06	13.650	836.24	13.441	846.89	13.419	852.36	13.364	856.20
13.132	637.91	13.751	827.81	13.631	836.00	13.422	846.67	13.400	852.14	13.345	855.97
13.112	637.47	13.732	827.56	13.612	835.83	13.403	846.44	13.381	851.94	13.326	855.78
13.092	637.00	13.713	827.41	13.593	835.64	13.384	846.22	13.361	851.74	13.306	855.55
13.072	636.53	13.694	827.16	13.574	835.37	13.365	846.04	13.342	851.53	13.287	855.37
13.052	636.04	13.676	826.88	13.555	835.15	13.346	845.77	13.323	851.34	13.267	855.20
13.032	635.58	13.657	826.67	13.536	834.99	13.327	845.60	13.303	851.14	13.248	854.95
13.012	635.10	13.638	826.44	13.517	834.75	13.308	845.39	13.284	850.87	13.229	854.74
12.992	634.64	13.619	826.18	13.497	834.48	13.289	845.19	13.264	850.74	13.209	854.54
12.972	634.18	13.600	825.97	13.478	834.35	13.271	845.01	13.245	850.54	13.190	854.31
12.952	633.70	13.581	825.73	13.459	834.10	13.252	844.77	13.226	850.32	13.170	854.08
12.932	633.19	13.562	825.52	13.440	833.83	13.233	844.55	13.206	850.11	13.151	853.87
12.912	632.67	13.543	825.31	13.421	833.69	13.214	844.31	13.187	849.86	13.132	853.67
12.892	632.23	13.524	825.05	13.402	833.42	13.195	844.14	13.168	849.70	13.112	853.48
12.872	631.73	13.505	824.83	13.383	833.25	13.176	843.92	13.148	849.47	13.093	853.34
12.852	631.21	13.486	824.63	13.364	833.06	13.157	843.70	13.129	849.26	13.073	853.11
12.832	630.69	13.467	824.37	13.344	832.76	13.138	843.45	13.110	849.03	13.054	852.90
12.812	630.17	13.448	824.14	13.325	832.57	13.119	843.23	13.090	848.82	13.035	852.67
12.792	629.63	13.429	823.91	13.306	832.36	13.100	843.03	13.071	848.62	13.015	852.46
12.771	629.15	13.410	823.65	13.287	832.09	13.081	842.83	13.052	848.41	12.996	852.21
12.751	628.66	13.391	823.40	13.268	831.88	13.062	842.58	13.032	848.20	12.976	852.06
12.731	628.15	13.373	823.21	13.249	831.65	13.043	842.43	13.013	847.97	12.957	851.83
12.711	627.61	13.354	823.05	13.230	831.47	13.024	842.13	12.994	847.76	12.938	851.59
12.691	627.10	13.335	822.83	13.211	831.20	13.005	841.96	12.974	847.51	12.918	851.42
12.671	626.56	13.316	822.58	13.192	831.02	12.986	841.73	12.955	847.29	12.899	851.17
12.651	626.01	13.297	822.37	13.172	830.78	12.968	841.48	12.936	847.12	12.879	850.96
12.631	625.47	13.278	822.18	13.153	830.55	12.949	841.30	12.916	846.87	12.860	850.73
12.611	624.93	13.259	821.92	13.134	830.30	12.930	841.03	12.897	846.70	12.840	850.50
12.591	624.43	13.240	821.73	13.115	830.10	12.911	840.85	12.878	846.44	12.821	850.28
12.571	623.85	13.221	821.53	13.096	829.85	12.892	840.58	12.858	846.22	12.802	850.12

12.551	623.30	13.202	821.29	13.077	829.62	12.873	840.39	12.839	845.97	12.782	849.91
12.531	622.68	13.183	821.05	13.058	829.38	12.854	840.14	12.819	845.81	12.763	849.68
12.511	622.11	13.164	820.79	13.039	829.16	12.835	839.90	12.800	845.56	12.743	849.42
12.491	621.58	13.145	820.62	13.019	828.91	12.816	839.74	12.781	845.33	12.724	849.26
12.471	621.03	13.126	820.39	13.000	828.71	12.797	839.49	12.761	845.13	12.705	849.00
12.451	620.46	13.107	820.14	12.981	828.49	12.778	839.24	12.742	844.84	12.685	848.77
12.431	619.89	13.088	819.92	12.962	828.24	12.759	839.05	12.723	844.69	12.666	848.53
12.411	619.31	13.070	819.74	12.943	828.01	12.740	838.77	12.703	844.45	12.646	848.29
12.391	618.73	13.051	819.46	12.924	827.77	12.721	838.58	12.684	844.22	12.627	848.05
12.371	618.12	13.032	819.27	12.905	827.54	12.702	838.38	12.665	843.99	12.608	847.89
12.351	617.47	13.013	819.00	12.886	827.35	12.684	838.14	12.645	843.76	12.588	847.69
12.331	616.90	12.994	818.81	12.866	827.05	12.665	837.92	12.626	843.52	12.569	847.49
12.311	616.35	12.975	818.52	12.847	826.90	12.646	837.71	12.607	843.34	12.549	847.21
12.291	615.73	12.956	818.31	12.828	826.67	12.627	837.46	12.587	843.08	12.530	847.00
12.271	615.10	12.937	818.06	12.809	826.43	12.608	837.22	12.568	842.87	12.511	846.74
12.251	614.48	12.918	817.83	12.790	826.21	12.589	837.03	12.549	842.64	12.491	846.52
12.231	613.90	12.899	817.58	12.771	825.98	12.570	836.90	12.529	842.43	12.472	846.30
12.211	613.23	12.880	817.34	12.752	825.73	12.551	836.76	12.510	842.22	12.452	846.08
12.191	612.64	12.861	817.09	12.733	825.47	12.532	836.56	12.491	841.98	12.433	845.82
12.171	611.98	12.842	816.85	12.713	825.22	12.513	836.36	12.471	841.71	12.413	845.58
12.151	611.34	12.823	816.60	12.694	824.97	12.494	836.14	12.452	841.52	12.394	845.40
12.131	610.73	12.804	816.35	12.675	824.74	12.475	835.91	12.433	841.36	12.375	845.15
12.111	610.07	12.785	816.06	12.656	824.53	12.456	835.72	12.413	841.19	12.355	844.92
12.091	609.44	12.767	815.85	12.637	824.26	12.437	835.54	12.394	840.98	12.336	844.72
12.071	608.77	12.748	815.57	12.618	824.02	12.418	835.33	12.374	840.74	12.316	844.49
12.051	608.14	12.729	815.31	12.599	823.75	12.399	835.12	12.355	840.50	12.297	844.22
12.031	607.51	12.710	815.07	12.580	823.55	12.381	834.87	12.336	840.28	12.278	843.99
12.011	606.85	12.691	814.83	12.560	823.32	12.362	834.67	12.316	840.09	12.258	843.80
11.991	606.19	12.672	814.51	12.541	823.09	12.343	834.48	12.297	839.87	12.239	843.56
11.971	605.51	12.653	814.30	12.522	822.83	12.324	834.27	12.278	839.61	12.219	843.31
11.951	604.81	12.634	814.02	12.503	822.58	12.305	834.03	12.258	839.42	12.200	843.09
11.931	604.14	12.615	813.77	12.484	822.38	12.286	833.82	12.239	839.21	12.181	842.79
11.911	603.43	12.596	813.53	12.465	822.08	12.267	833.58	12.220	838.96	12.161	842.58
11.891	602.81	12.577	813.29	12.446	821.87	12.248	833.46	12.200	838.74	12.142	842.36
11.871	602.11	12.558	812.99	12.427	821.62	12.229	833.27	12.181	838.54	12.122	842.14
11.851	601.44	12.539	812.74	12.407	821.34	12.210	833.04	12.162	838.32	12.103	841.88
11.831	600.68	12.520	812.47	12.388	821.09	12.191	832.78	12.142	838.04	12.084	841.60
11.811	600.02	12.501	812.23	12.369	820.89	12.172	832.59	12.123	837.84	12.064	841.40
11.791	599.27	12.482	811.93	12.350	820.58	12.153	832.39	12.104	837.61	12.045	841.15
11.771	598.57	12.464	811.70	12.331	820.39	12.134	832.16	12.084	837.40	12.025	840.92
11.751	597.82	12.445	811.43	12.312	820.12	12.115	831.89	12.065	837.16	12.006	840.68
11.731	597.10	12.426	811.18	12.293	819.86	12.096	831.67	12.046	836.88	11.987	840.44
11.711	596.30	12.407	810.92	12.274	819.60	12.078	831.42	12.026	836.68	11.967	840.18
11.691	595.55	12.388	810.69	12.255	819.40	12.059	831.29	12.007	836.48	11.948	840.01
11.671	594.82	12.369	810.38	12.235	819.12	12.040	831.09	11.988	836.23	11.928	839.75
11.651	594.08	12.350	810.14	12.216	818.82	12.021	830.84	11.968	836.01	11.909	839.48
11.631	593.27	12.331	809.92	12.197	818.59	12.002	830.60	11.949	835.79	11.889	839.22
11.611	592.52	12.312	809.62	12.178	818.32	11.983	830.36	11.930	835.55	11.870	839.02
11.591	591.73	12.293	809.37	12.159	818.11	11.964	830.16	11.910	835.31	11.851	838.77
11.571	590.96	12.274	809.09	12.140	817.85	11.945	829.89	11.891	835.06	11.831	838.54
11.551	590.17	12.255	808.81	12.121	817.50	11.926	829.69	11.871	834.82	11.812	838.24
11.531	589.41	12.236	808.59	12.102	817.29	11.907	829.47	11.852	834.55	11.792	838.03
11.511	588.55	12.217	808.28	12.082	816.98	11.888	829.22	11.833	834.30	11.773	837.75
11.491	587.80	12.198	808.04	12.063	816.82	11.869	828.96	11.813	834.11	11.754	837.50
11.471	586.94	12.179	807.80	12.044	816.52	11.850	828.72	11.794	833.82	11.734	837.28

11.451	586.06	12.160	807.50	12.025	816.25	11.831	828.48	11.775	833.59	11.715	836.96
11.431	585.22	12.142	807.25	12.006	815.98	11.812	828.24	11.755	833.34	11.695	836.75
11.411	584.43	12.123	806.92	11.987	815.80	11.794	828.04	11.736	833.11	11.676	836.53
11.391	583.62	12.104	806.67	11.968	815.59	11.775	827.83	11.717	832.90	11.657	836.22
11.371	582.86	12.085	806.35	11.949	815.35	11.756	827.60	11.697	832.64	11.637	835.98
11.351	581.91	12.066	806.11	11.929	815.12	11.737	827.35	11.678	832.32	11.618	835.79
11.331	581.09	12.047	805.86	11.910	814.88	11.718	827.07	11.659	832.12	11.598	835.52
11.311	580.22	12.028	805.55	11.891	814.63	11.699	826.87	11.639	831.93	11.579	835.26
11.291	579.39	12.009	805.29	11.872	814.37	11.680	826.61	11.620	831.63	11.560	834.95
11.271	578.49	11.990	805.03	11.853	814.12	11.661	826.30	11.601	831.38	11.540	834.69
11.251	577.64	11.971	804.72	11.834	813.88	11.642	826.13	11.581	831.10	11.521	834.49
11.231	576.72	11.952	804.42	11.815	813.60	11.623	825.90	11.562	830.86	11.501	834.23
11.211	575.88	11.933	804.15	11.796	813.31	11.604	825.63	11.543	830.62	11.482	833.96
11.191	574.94	11.914	803.83	11.776	813.09	11.585	825.37	11.523	830.34	11.463	833.71
11.171	574.11	11.895	803.58	11.757	812.87	11.566	825.10	11.504	830.15	11.443	833.42
11.150	573.16	11.876	803.28	11.738	812.61	11.547	824.88	11.485	829.88	11.424	833.21
11.130	572.21	11.857	803.01	11.719	812.33	11.528	824.62	11.465	829.62	11.404	832.94
11.110	571.21	11.839	802.73	11.700	812.15	11.509	824.36	11.446	829.37	11.385	832.67
11.090	570.30	11.820	802.44	11.681	811.89	11.491	824.05	11.426	829.06	11.365	832.43
11.070	569.40	11.801	802.19	11.662	811.60	11.472	823.89	11.407	828.83	11.346	832.10
11.050	568.42	11.782	801.94	11.643	811.35	11.453	823.64	11.388	828.54	11.327	831.88
11.030	567.47	11.763	801.85	11.623	811.12	11.434	823.32	11.368	828.30	11.307	831.59
11.010	566.46	11.744	801.75	11.604	810.84	11.415	823.10	11.349	828.02	11.288	831.33
10.990	565.56	11.725	801.65	11.585	810.62	11.396	822.87	11.330	827.83	11.268	831.05
10.970	564.45	11.706	801.55	11.566	810.35	11.377	822.56	11.310	827.54	11.249	830.81
10.950	563.43	11.687	801.25	11.547	810.07	11.358	822.34	11.291	827.22	11.230	830.51
10.930	562.46	11.668	800.95	11.528	809.79	11.339	822.06	11.272	827.02	11.210	830.27
10.910	561.41	11.649	800.67	11.509	809.56	11.320	821.75	11.252	826.70	11.191	829.99
10.890	560.36	11.630	800.39	11.490	809.33	11.301	821.51	11.233	826.40	11.171	829.75
10.870	559.32	11.611	800.11	11.470	809.02	11.282	821.32	11.214	826.14	11.152	829.44
10.850	558.26	11.592	799.85	11.451	808.75	11.263	821.07	11.194	825.93	11.133	829.20
10.830	557.17	11.573	799.61	11.432	808.50	11.244	820.79	11.175	825.63	11.113	828.93
10.810	556.12	11.554	799.35	11.413	808.27	11.225	820.49	11.156	825.36	11.094	828.63
10.790	554.99	11.536	799.09	11.394	807.97	11.207	820.20	11.136	825.07	11.074	828.40
10.770	553.88	11.517	798.82	11.375	807.73	11.188	819.94	11.117	824.80	11.055	828.08
10.750	552.76	11.498	798.47	11.356	807.43	11.169	819.75	11.098	824.57	11.036	827.83
10.730	551.69	11.479	798.26	11.337	807.14	11.150	819.42	11.078	824.30	11.016	827.57
10.710	550.60	11.460	798.01	11.317	806.89	11.131	819.13	11.059	824.01	10.997	827.28
10.690	549.36	11.441	797.72	11.298	806.65	11.112	818.89	11.040	823.72	10.977	827.01
10.670	548.18	11.422	797.44	11.279	806.36	11.093	818.56	11.020	823.43	10.958	826.71
10.650	547.07	11.403	797.23	11.260	806.10	11.074	818.35	11.001	823.14	10.939	826.43
10.630	545.85	11.384	797.04	11.241	805.81	11.055	818.01	10.981	822.88	10.919	826.14
10.610	544.65	11.365	796.74	11.222	805.52	11.036	817.75	10.962	822.65	10.900	825.82
10.590	543.49	11.346	796.45	11.203	805.24	11.017	817.54	10.943	822.32	10.880	825.58
10.570	542.31	11.327	796.22	11.184	805.00	10.998	817.22	10.923	822.00	10.861	825.27
10.550	541.01	11.308	795.99	11.165	804.69	10.979	816.93	10.904	821.71	10.841	824.97
10.530	539.80	11.289	795.71	11.145	804.47	10.960	816.65	10.885	821.46	10.822	824.73
10.510	538.48	11.270	795.43	11.126	804.14	10.941	816.39	10.865	821.16	10.803	824.41
10.490	537.17	11.251	795.08	11.107	803.83	10.922	816.02	10.846	820.94	10.783	824.11
10.470	535.87	11.233	794.75	11.088	803.58	10.904	815.83	10.827	820.62	10.764	823.87
10.450	534.58	11.214	794.56	11.069	803.24	10.885	815.56	10.807	820.35	10.744	823.61
10.430	533.31	11.195	794.29	11.050	802.99	10.866	815.18	10.788	820.05	10.725	823.27
10.410	531.85	11.176	794.02	11.031	802.69	10.847	815.00	10.769	819.73	10.706	823.01
10.390	530.48	11.157	793.75	11.012	802.43	10.828	814.70	10.749	819.48	10.686	822.69
10.370	529.19	11.138	793.46	10.992	802.12	10.809	814.38	10.730	819.14	10.667	822.36

10.350	527.75	11.119	793.09	10.973	801.82	10.790	814.06	10.711	818.88	10.647	822.11
10.330	526.24	11.100	792.78	10.954	801.53	10.771	813.84	10.691	818.58	10.628	821.84
10.310	524.85	11.081	792.57	10.935	801.27	10.752	813.53	10.672	818.28	10.609	821.52
10.290	523.48	11.062	792.33	10.916	800.94	10.733	813.23	10.653	818.05	10.589	821.18
10.270	521.97	11.043	792.02	10.897	800.61	10.714	812.92	10.633	817.71	10.570	820.93
10.250	520.54	11.024	791.67	10.878	800.34	10.695	812.62	10.614	817.39	10.550	820.66
10.230	518.97	11.005	791.34	10.859	800.02	10.676	812.33	10.595	817.08	10.531	820.31
10.210	517.46	10.986	791.05	10.839	799.74	10.657	812.07	10.575	816.76	10.512	820.03
10.190	515.86	10.967	790.77	10.820	799.43	10.638	811.69	10.556	816.52	10.492	819.71
10.170	514.39	10.948	790.49	10.801	799.13	10.619	811.49	10.536	816.17	10.473	819.42
10.150	512.84	10.930	790.19	10.782	798.83	10.601	811.15	10.517	815.82	10.453	819.09
10.130	511.22	10.911	789.87	10.763	798.57	10.582	810.85	10.498	815.57	10.434	818.80
10.110	509.63	10.892	789.55	10.744	798.24	10.563	810.55	10.478	815.26	10.415	818.52
10.090	508.05	10.873	789.16	10.725	797.89	10.544	810.25	10.459	814.97	10.395	818.23
10.070	506.35	10.854	788.88	10.706	797.51	10.525	809.93	10.440	814.62	10.376	817.87
10.050	504.71	10.835	788.68	10.686	797.21	10.506	809.63	10.420	814.36	10.356	817.59
10.030	503.02	10.816	788.37	10.667	796.85	10.487	809.31	10.401	814.05	10.337	817.31
10.010	501.29	10.797	787.99	10.648	796.55	10.468	809.06	10.382	813.75	10.317	816.93
9.990	499.51	10.778	787.62	10.629	796.29	10.449	808.71	10.362	813.43	10.298	816.66
9.970	497.86	10.759	787.35	10.610	796.02	10.430	808.40	10.343	813.08	10.279	816.37
9.950	496.08	10.740	787.09	10.591	795.69	10.411	808.15	10.324	812.75	10.259	816.08
9.930	494.26	10.721	786.64	10.572	795.40	10.392	807.82	10.304	812.48	10.240	815.70
9.910	492.52	10.702	786.38	10.553	795.03	10.373	807.49	10.285	812.16	10.220	815.39
9.890	490.61	10.683	786.06	10.533	794.71	10.354	807.16	10.266	811.85	10.201	815.11
9.870	488.76	10.664	785.76	10.514	794.46	10.335	806.92	10.246	811.50	10.182	814.77
9.850	486.88	10.645	785.49	10.495	794.13	10.317	806.51	10.227	811.18	10.162	814.43
9.830	484.96	10.627	785.20	10.476	793.76	10.298	806.27	10.208	810.87	10.143	814.13
9.810	483.00	10.608	784.86	10.457	793.46	10.279	805.94	10.188	810.57	10.123	813.81
9.790	481.07	10.589	784.49	10.438	793.14	10.260	805.64	10.169	810.22	10.104	813.50
9.770	479.08	10.570	784.13	10.419	792.78	10.241	805.31	10.150	809.96	10.085	813.18
9.750	477.18	10.551	783.84	10.400	792.40	10.222	804.95	10.130	809.56	10.065	812.81
9.730	475.09	10.532	783.44	10.380	792.14	10.203	804.62	10.111	809.27	10.046	812.51
9.710	473.06	10.513	783.20	10.361	791.81	10.184	804.27	10.091	808.90	10.026	812.17
9.690	470.97	10.494	782.77	10.342	791.40	10.165	803.99	10.072	808.62	10.007	811.87
9.670	468.78	10.475	782.42	10.323	791.19	10.146	803.64	10.053	808.29	9.988	811.55
9.650	466.67	10.456	782.08	10.304	790.80	10.127	803.31	10.033	807.97	9.968	811.21
9.630	464.56	10.437	781.75	10.285	790.44	10.108	803.02	10.014	807.60	9.949	810.87
9.610	462.32	10.418	781.34	10.266	790.09	10.089	802.67	9.995	807.26	9.929	810.48
9.590	459.94	10.399	781.03	10.247	789.76	10.070	802.37	9.975	806.93	9.910	810.25
9.570	457.76	10.380	780.71	10.228	789.40	10.051	802.02	9.956	806.62	9.891	809.83
9.550	455.39	10.361	780.34	10.208	789.11	10.032	801.72	9.937	806.27	9.871	809.54
9.529	453.12	10.342	779.90	10.189	788.75	10.014	801.36	9.917	805.95	9.852	809.17
9.509	450.83	10.323	779.54	10.170	788.38	9.995	801.05	9.898	805.62	9.832	808.89
9.489	448.41	10.305	779.24	10.151	788.03	9.976	800.68	9.879	805.27	9.813	808.54
9.469	446.08	10.286	778.80	10.132	787.66	9.957	800.34	9.859	804.90	9.793	808.20
9.449	443.60	10.267	778.51	10.113	787.35	9.938	800.01	9.840	804.58	9.774	807.87
9.429	441.05	10.248	778.19	10.094	786.91	9.919	799.70	9.821	804.22	9.755	807.50
9.409	438.60	10.229	777.83	10.075	786.66	9.900	799.30	9.801	803.93	9.735	807.16
9.389	436.15	10.210	777.47	10.055	786.24	9.881	798.99	9.782	803.55	9.716	806.81
9.369	433.50	10.191	777.06	10.036	785.94	9.862	798.59	9.763	803.19	9.696	806.43
9.349	430.94	10.172	776.70	10.017	785.60	9.843	798.27	9.743	802.87	9.677	806.07
9.329	428.42	10.153	776.26	9.998	785.15	9.824	797.94	9.724	802.53	9.658	805.75
9.309	425.85	10.134	775.88	9.979	784.85	9.805	797.59	9.705	802.16	9.638	805.42
9.289	423.20	10.115	775.50	9.960	784.50	9.786	797.20	9.685	801.82	9.619	805.06
9.269	420.76	10.096	775.11	9.941	784.08	9.767	796.87	9.666	801.44	9.599	804.70

9.249	418.07	10.077	774.78	9.922	783.72	9.748	796.53	9.646	801.06	9.580	804.33
9.229	415.52	10.058	774.37	9.902	783.31	9.730	796.12	9.627	800.75	9.561	804.04
9.209	412.88	10.039	773.99	9.883	783.02	9.711	795.77	9.608	800.34	9.541	803.65
9.189	410.28	10.020	773.57	9.864	782.56	9.692	795.48	9.588	800.02	9.522	803.26
9.169	407.61	10.002	773.13	9.845	782.21	9.673	795.06	9.569	799.70	9.502	802.88
9.149	404.92	9.983	772.87	9.826	781.88	9.654	794.72	9.550	799.29	9.483	802.58
9.129	402.14	9.964	772.40	9.807	781.52	9.635	794.35	9.530	798.94	9.464	802.18
9.109	399.51	9.945	772.04	9.788	781.08	9.616	793.98	9.511	798.56	9.444	801.82
9.089	396.73	9.926	771.64	9.769	780.73	9.597	793.62	9.492	798.19	9.425	801.42
9.069	393.96	9.907	771.15	9.749	780.34	9.578	793.25	9.472	797.77	9.405	801.08
9.049	391.24	9.888	770.79	9.730	780.00	9.559	792.87	9.453	797.43	9.386	800.67
9.029	388.54	9.869	770.39	9.711	779.58	9.540	792.53	9.434	797.07	9.367	800.32
9.009	385.80	9.850	769.98	9.692	779.20	9.521	792.15	9.414	796.65	9.347	799.97
8.989	382.99	9.831	769.53	9.673	778.74	9.502	791.71	9.395	796.31	9.328	799.60
8.969	380.31	9.812	769.10	9.654	778.40	9.483	791.35	9.376	795.96	9.308	799.19
8.949	377.55	9.793	768.66	9.635	778.03	9.464	790.99	9.356	795.55	9.289	798.81
8.929	374.91	9.774	768.28	9.616	777.60	9.445	790.60	9.337	795.16	9.269	798.46
8.909	372.06	9.755	767.84	9.596	777.24	9.427	790.23	9.318	794.82	9.250	798.07
8.889	369.29	9.736	767.40	9.577	776.77	9.408	789.89	9.298	794.41	9.231	797.68
8.869	366.46	9.717	766.95	9.558	776.41	9.389	789.53	9.279	794.05	9.211	797.32
8.849	363.72	9.699	766.47	9.539	775.97	9.370	789.09	9.260	793.62	9.192	796.93
8.829	360.98	9.680	766.13	9.520	775.60	9.351	788.67	9.240	793.24	9.172	796.48
8.809	358.24	9.661	765.82	9.501	775.18	9.332	788.34	9.221	792.81	9.153	796.12
8.789	355.56	9.642	765.38	9.482	774.69	9.313	787.97	9.201	792.45	9.134	795.74
8.769	352.70	9.623	764.91	9.463	774.37	9.294	787.50	9.182	792.06	9.114	795.32
8.749	350.07	9.604	764.47	9.443	773.86	9.275	787.10	9.163	791.67	9.095	794.93
8.729	347.39	9.585	764.08	9.424	773.50	9.256	786.73	9.143	791.29	9.075	794.55
8.709	344.73	9.566	763.57	9.405	773.08	9.237	786.35	9.124	790.80	9.056	794.15
8.689	342.04	9.547	763.22	9.386	772.64	9.218	785.88	9.105	790.43	9.037	793.74
8.669	339.37	9.528	762.79	9.367	772.27	9.199	785.52	9.085	790.11	9.017	793.32
8.649	336.76	9.509	762.39	9.348	771.80	9.180	785.13	9.066	789.70	8.998	792.94
8.629	334.17	9.490	761.92	9.329	771.40	9.161	784.73	9.047	789.33	8.978	792.51
8.609	331.46	9.471	761.50	9.310	770.97	9.142	784.31	9.027	788.98	8.959	792.14
8.589	328.84	9.452	760.99	9.291	770.51	9.124	783.93	9.008	788.57	8.940	791.71
8.569	326.35	9.433	760.62	9.271	770.07	9.105	783.56	8.989	788.20	8.920	791.34
8.549	323.74	9.414	760.11	9.252	769.62	9.086	783.12	8.969	787.86	8.901	790.89
8.529	321.21	9.396	759.70	9.233	769.19	9.067	782.69	8.950	787.42	8.881	790.49
8.509	318.68	9.377	759.10	9.214	768.67	9.048	782.29	8.931	787.08	8.862	790.11
8.489	316.17	9.358	758.75	9.195	768.24	9.029	781.84	8.911	786.64	8.843	789.65
8.469	313.78	9.339	758.24	9.176	767.81	9.010	781.43	8.892	786.23	8.823	789.24
8.449	311.28	9.320	757.83	9.157	767.36	8.991	780.99	8.873	785.90	8.804	788.80
8.429	308.81	9.301	757.30	9.138	766.91	8.972	780.52	8.853	785.46	8.784	788.35
8.409	306.42	9.282	756.81	9.118	766.46	8.953	780.14	8.834	785.06	8.765	787.93
8.389	304.03	9.263	756.26	9.099	766.00	8.934	779.71	8.815	784.73	8.745	787.50
8.369	301.71	9.244	755.76	9.080	765.56	8.915	779.31	8.795	784.30	8.726	787.06
8.349	299.40	9.225	755.36	9.061	765.08	8.896	778.82	8.776	783.84	8.707	786.65
8.329	297.14	9.206	754.89	9.042	764.61	8.877	778.34	8.756	783.40	8.687	786.17
8.309	294.89	9.187	754.40	9.023	764.12	8.858	777.91	8.737	783.04	8.668	785.74
8.289	292.70	9.168	753.86	9.004	763.62	8.840	777.50	8.718	782.59	8.648	785.23
8.269	290.46	9.149	753.35	8.985	763.12	8.821	777.03	8.698	782.15	8.629	784.86
8.249	288.20	9.130	752.82	8.965	762.64	8.802	776.61	8.679	781.73	8.610	784.37
8.229	286.09	9.111	752.38	8.946	762.22	8.783	776.12	8.660	781.26	8.590	783.93
8.209	283.89	9.093	751.90	8.927	761.73	8.764	775.72	8.640	780.83	8.571	783.48
8.189	281.83	9.074	751.41	8.908	761.23	8.745	775.24	8.621	780.39	8.551	783.04
8.169	279.70	9.055	750.87	8.889	760.71	8.726	774.80	8.602	779.98	8.532	782.56

8.149	277.61	9.036	750.35	8.870	760.19	8.707	774.29	8.582	779.50	8.513	782.09
8.129	275.56	9.017	749.85	8.851	759.68	8.688	773.86	8.563	778.95	8.493	781.66
8.109	273.51	8.998	749.32	8.832	759.21	8.669	773.33	8.544	778.57	8.474	781.14
8.089	271.41	8.979	748.76	8.812	758.68	8.650	772.85	8.524	778.10	8.454	780.66
8.069	269.52	8.960	748.17	8.793	758.12	8.631	772.41	8.505	777.63	8.435	780.24
8.049	267.54	8.941	747.58	8.774	757.63	8.612	771.93	8.486	777.19	8.416	779.73
8.029	265.69	8.922	747.02	8.755	757.14	8.593	771.46	8.466	776.74	8.396	779.28
8.009	263.81	8.903	746.50	8.736	756.57	8.574	771.00	8.447	776.24	8.377	778.78
7.989	261.89	8.884	745.86	8.717	755.99	8.555	770.51	8.428	775.74	8.357	778.31
7.969	260.04	8.865	745.32	8.698	755.51	8.537	769.99	8.408	775.27	8.338	777.72
7.949	258.17	8.846	744.80	8.679	754.98	8.518	769.51	8.389	774.74	8.318	777.28
7.929	256.43	8.827	744.25	8.659	754.44	8.499	769.00	8.370	774.28	8.299	776.74
7.909	254.63	8.808	743.72	8.640	753.86	8.480	768.50	8.350	773.73	8.280	776.27
7.888	252.83	8.789	743.15	8.621	753.36	8.461	768.00	8.331	773.26	8.260	775.77
7.868	251.10	8.771	742.51	8.602	752.82	8.442	767.50	8.311	772.78	8.241	775.23
7.848	249.45	8.752	741.97	8.583	752.22	8.423	767.01	8.292	772.30	8.221	774.74
7.828	247.71	8.733	741.44	8.564	751.69	8.404	766.49	8.273	771.73	8.202	774.23
7.808	246.03	8.714	740.78	8.545	751.15	8.385	765.97	8.253	771.25	8.183	773.71
7.788	244.26	8.695	740.18	8.526	750.60	8.366	765.51	8.234	770.74	8.163	773.21
7.768	242.64	8.676	739.66	8.506	749.99	8.347	765.01	8.215	770.22	8.144	772.66
7.748	241.03	8.657	739.12	8.487	749.44	8.328	764.44	8.195	769.63	8.124	772.16
7.728	239.41	8.638	738.61	8.468	748.86	8.309	763.94	8.176	769.17	8.105	771.59
7.708	237.76	8.619	737.95	8.449	748.32	8.290	763.39	8.157	768.63	8.086	771.08
7.688	236.20	8.600	737.44	8.430	747.71	8.271	762.89	8.137	768.10	8.066	770.57
7.668	234.65	8.581	736.85	8.411	747.16	8.253	762.33	8.118	767.52	8.047	769.99
7.648	233.11	8.562	736.23	8.392	746.53	8.234	761.77	8.099	767.02	8.027	769.46
7.628	231.58	8.543	735.66	8.373	745.93	8.215	761.22	8.079	766.46	8.008	768.96
7.608	230.08	8.524	735.02	8.353	745.34	8.196	760.71	8.060	765.86	7.989	768.32
7.588	228.59	8.505	734.44	8.334	744.71	8.177	760.09	8.041	765.31	7.969	767.84
7.568	227.12	8.486	733.93	8.315	744.11	8.158	759.56	8.021	764.73	7.950	767.21
7.548	225.63	8.468	733.27	8.296	743.50	8.139	759.01	8.002	764.18	7.930	766.61
7.528	224.22	8.449	732.67	8.277	742.86	8.120	758.43	7.983	763.63	7.911	766.11
7.508	222.71	8.430	732.08	8.258	742.26	8.101	757.83	7.963	763.04	7.892	765.49
7.488	221.34	8.411	731.44	8.239	741.57	8.082	757.33	7.944	762.40	7.872	764.89
7.468	219.92	8.392	730.76	8.220	740.95	8.063	756.68	7.925	761.85	7.853	764.32
7.448	218.55	8.373	730.11	8.201	740.32	8.044	756.08	7.905	761.26	7.833	763.68
7.428	217.24	8.354	729.47	8.181	739.66	8.025	755.50	7.886	760.60	7.814	762.99
7.408	215.82	8.335	728.77	8.162	738.97	8.006	754.88	7.866	760.01	7.794	762.42
7.388	214.45	8.316	728.09	8.143	738.36	7.987	754.31	7.847	759.37	7.775	761.76
7.368	213.12	8.297	727.42	8.124	737.67	7.968	753.65	7.828	758.73	7.756	761.21
7.348	211.80	8.278	726.63	8.105	737.00	7.950	753.09	7.808	758.12	7.736	760.56
7.328	210.56	8.259	726.02	8.086	736.33	7.931	752.45	7.789	757.53	7.717	760.02
7.308	209.23	8.240	725.29	8.067	735.63	7.912	751.78	7.770	756.89	7.697	759.42
7.288	207.92	8.221	724.59	8.048	735.02	7.893	751.22	7.750	756.22	7.678	758.83
7.268	206.70	8.202	723.92	8.028	734.27	7.874	750.54	7.731	755.53	7.659	758.27
7.248	205.44	8.183	723.15	8.009	733.65	7.855	749.95	7.712	754.92	7.639	757.70
7.228	204.15	8.165	722.45	7.990	732.94	7.836	749.25	7.692	754.19	7.620	757.08
7.208	202.97	8.146	721.77	7.971	732.24	7.817	748.58	7.673	753.59	7.600	756.44
7.188	201.71	8.127	720.94	7.952	731.47	7.798	747.88	7.654	752.87	7.581	755.82
7.168	200.53	8.108	720.12	7.933	730.66	7.779	747.25	7.634	752.16	7.562	755.17
7.148	199.28	8.089	719.32	7.914	729.98	7.760	746.61	7.615	751.46	7.542	754.52
7.128	198.13	8.070	718.56	7.895	729.19	7.741	745.88	7.596	750.81	7.523	753.86
7.108	196.94	8.051	717.66	7.875	728.49	7.722	745.15	7.576	750.12	7.503	753.18
7.088	195.78	8.032	716.87	7.856	727.75	7.703	744.51	7.557	749.43	7.484	752.48
7.068	194.67	8.013	716.11	7.837	727.02	7.684	743.81	7.538	748.63	7.465	751.72

7.048	193.46	7.994	715.24	7.818	726.17	7.665	743.07	7.518	747.95	7.445	750.93
7.028	192.36	7.975	714.39	7.799	725.38	7.647	742.39	7.499	747.24	7.426	750.29
7.008	191.28	7.956	713.51	7.780	724.53	7.628	741.65	7.480	746.50	7.406	749.50
6.988	190.11	7.937	712.64	7.761	723.76	7.609	740.89	7.460	745.70	7.387	748.75
6.968	189.01	7.918	711.81	7.742	722.84	7.590	740.17	7.441	744.98	7.368	747.98
6.948	187.87	7.899	710.88	7.722	722.08	7.571	739.37	7.422	744.24	7.348	747.20
6.928	186.82	7.880	710.06	7.703	721.21	7.552	738.63	7.402	743.46	7.329	746.44
6.908	185.72	7.862	709.11	7.684	720.32	7.533	737.86	7.383	742.67	7.309	745.69
6.888	184.63	7.843	708.26	7.665	719.36	7.514	737.04	7.363	741.82	7.290	744.86
6.868	183.63	7.824	707.47	7.646	718.52	7.495	736.31	7.344	741.02	7.270	744.07
6.848	182.54	7.805	706.50	7.627	717.56	7.476	735.47	7.325	740.24	7.251	743.24
6.828	181.48	7.786	705.56	7.608	716.71	7.457	734.64	7.305	739.45	7.232	742.42
6.808	180.42	7.767	704.63	7.589	715.75	7.438	733.85	7.286	738.62	7.212	741.66
6.788	179.42	7.748	703.61	7.569	714.80	7.419	733.00	7.267	737.76	7.193	740.79
6.768	178.38	7.729	702.48	7.550	713.89	7.400	732.11	7.247	736.92	7.173	739.89
6.748	177.40	7.710	701.47	7.531	712.91	7.381	731.33	7.228	736.06	7.154	738.98
6.728	176.40	7.691	700.36	7.512	711.88	7.363	730.47	7.209	735.13	7.135	738.07
6.708	175.32	7.672	699.20	7.493	710.91	7.344	729.62	7.189	734.29	7.115	737.18
6.688	174.37	7.653	698.14	7.474	709.87	7.325	728.72	7.170	733.42	7.096	736.38
6.668	173.35	7.634	696.97	7.455	708.87	7.306	727.82	7.151	732.51	7.076	735.47
6.648	172.43	7.615	695.60	7.436	707.71	7.287	726.96	7.131	731.56	7.057	734.66
6.628	171.41	7.596	694.36	7.416	706.63	7.268	725.99	7.112	730.64	7.038	733.76
6.608	170.44	7.577	693.04	7.397	705.54	7.249	725.17	7.093	729.67	7.018	732.87
6.588	169.45	7.559	691.68	7.378	704.37	7.230	724.26	7.073	728.68	6.999	731.89
6.568	168.48	7.540	690.70	7.359	703.22	7.211	723.37	7.054	727.64	6.979	730.99
6.548	167.54	7.521	689.44	7.340	702.04	7.192	722.36	7.035	726.71	6.960	730.05
6.528	166.67	7.502	688.07	7.321	700.80	7.173	721.36	7.015	725.68	6.941	729.19
6.508	165.64	7.483	686.73	7.302	699.57	7.154	720.25	6.996	724.55	6.921	728.21
6.488	164.79	7.464	685.35	7.283	698.26	7.135	719.08	6.977	723.52	6.902	727.15
6.468	163.84	7.445	683.86	7.264	697.04	7.116	717.95	6.957	722.34	6.882	726.09
6.448	162.94	7.426	682.19	7.244	695.70	7.097	716.70	6.938	721.28	6.863	724.97
6.428	161.99	7.407	680.65	7.225	694.40	7.078	715.46	6.918	720.22	6.844	723.72
6.408	161.09	7.388	678.98	7.206	693.00	7.060	714.31	6.899	719.10	6.824	722.45
6.388	160.16	7.369	677.53	7.187	691.66	7.041	713.05	6.880	717.83	6.805	721.43
6.368	159.34	7.350	675.97	7.168	690.31	7.022	711.73	6.860	716.62	6.785	720.29
6.348	158.44	7.331	674.02	7.149	688.89	7.003	710.41	6.841	715.39	6.766	719.07
6.328	157.53	7.312	671.35	7.130	687.35	6.984	709.11	6.822	714.22	6.746	717.77
6.308	156.67	7.293	669.37	7.111	685.80	6.965	707.75	6.802	712.91	6.727	716.45
6.288	155.79	7.274	667.91	7.091	684.28	6.946	706.30	6.783	711.62	6.708	715.06
6.267	154.90	7.256	666.47	7.072	682.80	6.927	704.91	6.764	710.27	6.688	713.51
6.247	154.09	7.237	664.89	7.053	681.11	6.908	703.54	6.744	708.82	6.669	712.49
6.227	153.26	7.218	663.18	7.034	679.36	6.889	702.22	6.725	707.46	6.649	711.53
6.207	152.37	7.199	661.34	7.015	677.53	6.870	700.74	6.706	705.93	6.630	710.53
6.187	151.54	7.180	659.27	6.996	675.65	6.851	699.02	6.686	704.36	6.611	709.43
6.167	150.72	7.161	657.32	6.977	673.14	6.832	698.05	6.667	702.93	6.591	708.09
6.147	149.89	7.142	655.05	6.958	670.55	6.813	696.74	6.648	701.28	6.572	706.12
6.127	149.07	7.123	652.36	6.938	667.64	6.794	695.09	6.628	699.59	6.552	704.24
6.107	148.21	7.104	648.52	6.919	664.92	6.776	693.70	6.609	697.91	6.533	702.09
6.087	147.40	6.770	259.59	6.662	252.40	6.563	246.09	6.519	247.53	6.454	242.11
6.067	146.56	6.747	255.11	6.640	248.68	6.541	244.18	6.498	243.61	6.433	233.66
6.047	145.76	6.725	251.09	6.618	244.80	6.520	241.63	6.476	240.27	6.412	229.97
6.027	144.98	6.703	247.05	6.596	241.17	6.498	237.73	6.455	235.60	6.391	227.13
6.007	144.17	6.681	243.39	6.574	237.55	6.477	234.76	6.434	231.78	6.370	224.54
5.987	143.39	6.658	239.99	6.553	234.13	6.455	231.46	6.412	228.83	6.349	222.02
5.967	142.54	6.636	236.71	6.531	230.90	6.434	228.37	6.391	225.87	6.328	219.48



5.947	141.79	6.614	233.59	6.509	227.86	6.412	225.42	6.369	222.92	6.307	217.07
5.927	140.97	6.591	230.65	6.487	225.02	6.391	222.55	6.348	219.97	6.285	215.20
5.907	140.19	6.569	227.89	6.465	222.26	6.369	219.93	6.326	217.44	6.264	212.94
5.887	139.44	6.547	225.19	6.443	219.49	6.348	217.35	6.305	214.92	6.243	210.51
5.867	138.65	6.525	222.60	6.422	216.95	6.326	214.90	6.284	212.27	6.222	208.20
5.847	137.88	6.502	220.00	6.400	214.41	6.305	212.38	6.262	209.88	6.201	206.08
5.827	137.14	6.480	217.56	6.378	212.06	6.283	210.16	6.241	207.47	6.180	204.17
5.807	136.35	6.458	215.17	6.356	209.83	6.261	207.96	6.219	205.26	6.159	201.93
5.787	135.55	6.436	212.78	6.334	207.69	6.240	205.81	6.198	203.09	6.138	199.75
5.767	134.86	6.413	210.58	6.312	205.50	6.218	203.63	6.177	201.07	6.117	197.73
5.747	134.11	6.391	208.40	6.291	203.59	6.197	201.55	6.155	199.11	6.096	195.67
5.727	133.33	6.369	206.28	6.269	201.47	6.175	199.50	6.134	197.17	6.075	193.76
5.707	132.55	6.346	204.17	6.247	199.56	6.154	197.53	6.112	195.18	6.054	191.96
5.687	131.80	6.324	202.15	6.225	197.66	6.132	195.63	6.091	193.41	6.033	190.21
5.667	131.03	6.302	200.21	6.203	195.96	6.111	193.78	6.069	191.56	6.011	188.44
5.647	130.30	6.280	198.28	6.181	194.11	6.089	191.92	6.048	189.80	5.990	186.71
5.627	129.61	6.257	196.45	6.160	192.19	6.068	190.14	6.027	188.09	5.969	185.11
5.607	128.66	6.235	194.65	6.138	190.63	6.046	188.37	6.005	186.40	5.948	183.48
5.587	127.97	6.213	192.84	6.116	188.89	6.025	186.72	5.984	184.77	5.927	181.90
5.567	127.24	6.191	191.05	6.094	187.12	6.003	185.01	5.962	183.09	5.906	180.43
5.547	126.56	6.168	189.44	6.072	185.50	5.981	183.45	5.941	181.63	5.885	178.87
5.527	125.84	6.146	187.70	6.050	183.89	5.960	181.85	5.919	180.00	5.864	177.39
5.507	125.17	6.124	186.11	6.029	182.30	5.938	180.26	5.898	178.50	5.843	175.96
5.487	124.42	6.101	184.39	6.007	180.76	5.917	178.71	5.877	177.09	5.822	174.54
5.467	123.79	6.079	182.78	5.985	179.25	5.895	177.22	5.855	175.70	5.801	173.09
5.447	123.05	6.057	181.25	5.963	177.75	5.874	175.72	5.834	174.09	5.780	171.79
5.427	122.38	6.035	179.72	5.941	176.27	5.852	174.30	5.812	172.66	5.759	170.41
5.407	121.69	6.012	178.19	5.919	174.79	5.831	172.88	5.791	171.40	5.737	169.16
5.387	120.99	5.990	176.68	5.898	173.43	5.809	171.45	5.769	169.96	5.716	167.92
5.367	120.34	5.968	175.26	5.876	172.03	5.788	170.05	5.748	168.59	5.695	166.59
5.347	119.64	5.946	173.81	5.854	170.69	5.766	168.69	5.727	167.30	5.674	165.23
5.327	118.99	5.923	172.39	5.832	169.25	5.745	167.33	5.705	165.94	5.653	164.02
5.307	118.35	5.901	171.02	5.810	168.06	5.723	166.03	5.684	164.62	5.632	162.72
5.287	117.64	5.879	169.62	5.788	166.64	5.702	164.71	5.662	163.33	5.611	161.48
5.267	117.00	5.856	168.26	5.767	165.29	5.680	163.38	5.641	162.21	5.590	160.18
5.247	116.37	5.834	166.94	5.745	164.23	5.658	162.12	5.620	160.95	5.569	158.97
5.227	115.69	5.812	165.51	5.723	162.79	5.637	160.88	5.598	159.65	5.548	157.74
5.207	115.02	5.790	164.30	5.701	161.55	5.615	159.59	5.577	158.46	5.527	156.54
5.187	114.39	5.767	162.92	5.679	160.30	5.594	158.33	5.555	157.36	5.506	155.37
5.167	113.73	5.745	161.63	5.658	159.06	5.572	157.09	5.534	156.19	5.485	154.22
5.147	113.08	5.723	160.44	5.636	157.94	5.551	155.90	5.512	155.00	5.463	153.06
5.127	112.41	5.701	159.19	5.614	156.84	5.529	154.74	5.491	153.82	5.442	151.92
5.107	111.83	5.678	157.88	5.592	155.49	5.508	153.57	5.470	152.68	5.421	150.77
5.087	111.15	5.656	156.70	5.570	154.42	5.486	152.39	5.448	151.53	5.400	149.69
5.067	110.55	5.634	155.50	5.548	153.11	5.465	151.28	5.427	150.34	5.379	148.56
5.047	109.89	5.611	154.32	5.527	152.16	5.443	150.10	5.405	149.25	5.358	147.45
5.027	109.24	5.589	153.15	5.505	150.96	5.422	148.98	5.384	148.10	5.337	146.38
5.007	108.71	5.567	151.95	5.483	149.79	5.400	147.88	5.362	147.03	5.316	145.30
4.987	108.19	5.545	150.81	5.461	148.65	5.378	146.84	5.341	145.96	5.295	144.29
4.967	107.60	5.522	149.66	5.439	147.57	5.357	145.68	5.320	144.88	5.274	143.18
4.947	107.01	5.500	148.59	5.417	146.48	5.335	144.64	5.298	143.83	5.253	142.17
4.927	106.41	5.478	147.54	5.396	145.46	5.314	143.54	5.277	142.73	5.232	141.13
4.907	105.74	5.456	146.31	5.374	144.35	5.292	142.47	5.255	141.73	5.211	140.06
4.887	105.14	5.433	145.31	5.352	143.29	5.271	141.55	5.234	140.67	5.189	139.14
4.867	104.54	5.411	144.17	5.330	142.21	5.249	140.45	5.212	139.61	5.168	138.11

4.847	103.92	5.389	143.12	5.308	141.20	5.228	139.39	5.191	138.56	5.147	137.08
4.827	103.30	5.366	142.03	5.286	140.09	5.206	138.35	5.170	137.60	5.126	136.12
4.807	102.67	5.344	141.03	5.265	139.37	5.185	137.37	5.148	136.65	5.105	135.10
4.787	102.08	5.322	140.05	5.243	138.34	5.163	136.38	5.127	135.65	5.084	134.13
4.767	101.43	5.300	139.03	5.221	137.35	5.142	135.41	5.105	134.63	5.063	133.16
4.747	100.84	5.277	137.96	5.199	136.36	5.120	134.38	5.084	133.61	5.042	132.22
4.727	100.29	5.255	136.93	5.177	135.36	5.098	133.46	5.063	132.68	5.021	131.29
4.707	99.66	5.233	135.94	5.155	134.36	5.077	132.52	5.041	131.76	5.000	130.35
4.687	99.10	5.211	134.93	5.134	133.39	5.055	131.49	5.020	130.83	4.979	129.44
4.667	98.47	5.188	133.94	5.112	132.42	5.034	130.62	4.998	129.80	4.958	128.50
4.646	97.90	5.166	132.94	5.090	131.46	5.012	129.63	4.977	128.87	4.937	127.59
4.626	97.34	5.144	131.99	5.068	130.50	4.991	128.71	4.955	127.98	4.915	126.66
4.606	96.77	5.121	131.09	5.046	129.57	4.969	127.76	4.934	127.05	4.894	125.75
4.586	96.20	5.099	130.04	5.024	128.65	4.948	126.91	4.913	126.14	4.873	124.85
4.566	95.63	5.077	129.14	5.003	127.74	4.926	125.94	4.891	125.27	4.852	123.96
4.546	95.06	5.055	128.26	4.981	126.78	4.905	125.09	4.870	124.33	4.831	123.09
4.526	94.48	5.032	127.31	4.959	125.92	4.883	124.18	4.848	123.44	4.810	122.21
4.506	93.89	5.010	126.39	4.937	124.96	4.862	123.30	4.827	122.61	4.789	121.40
4.486	93.30	4.988	125.57	4.915	124.16	4.840	122.44	4.805	121.69	4.768	120.55
4.466	92.72	4.966	124.60	4.893	123.23	4.818	121.51	4.784	120.79	4.747	119.68
4.446	92.14	4.943	123.68	4.872	122.37	4.797	120.65	4.763	119.99	4.726	118.81
4.426	91.63	4.921	122.82	4.850	121.44	4.775	119.80	4.741	119.11	4.705	117.96
4.406	91.04	4.899	122.00	4.828	120.57	4.754	119.00	4.720	118.38	4.684	117.20
4.386	90.52	4.876	121.03	4.806	119.68	4.732	118.15	4.698	117.42	4.663	116.41
4.366	89.97	4.854	120.14	4.784	118.87	4.711	117.25	4.677	116.58	4.641	115.55
4.346	89.41	4.832	119.28	4.762	118.03	4.689	116.45	4.655	115.72	4.620	114.69
4.326	88.89	4.810	118.40	4.741	117.17	4.668	115.64	4.634	114.94	4.599	113.94
4.306	88.30	4.787	117.54	4.719	116.29	4.646	114.80	4.613	114.11	4.578	113.11
4.286	87.77	4.765	116.73	4.697	115.45	4.625	113.98	4.591	113.33	4.557	112.27
4.266	87.22	4.743	115.91	4.675	114.65	4.603	113.16	4.570	112.48	4.536	111.56
4.246	86.66	4.721	115.03	4.653	113.83	4.582	112.37	4.548	111.65	4.515	110.76
4.226	86.12	4.698	114.32	4.632	113.02	4.560	111.58	4.527	110.92	4.494	109.92
4.206	85.57	4.676	113.42	4.610	112.22	4.538	110.78	4.505	110.19	4.473	109.15
4.186	85.03	4.654	112.58	4.588	111.40	4.517	110.00	4.484	109.32	4.452	108.43
4.166	84.51	4.631	111.84	4.566	110.63	4.495	109.21	4.463	108.56	4.431	107.63
4.146	83.97	4.609	111.08	4.544	109.81	4.474	108.36	4.441	107.77	4.410	106.85
4.126	83.46	4.587	110.29	4.522	109.01	4.452	107.60	4.420	106.99	4.389	106.14
4.106	82.93	4.565	109.52	4.501	108.27	4.431	106.81	4.398	106.13	4.367	105.35
4.086	82.42	4.542	108.79	4.479	107.45	4.409	105.98	4.377	105.49	4.346	104.62
4.066	81.86	4.520	107.96	4.457	106.70	4.388	105.26	4.356	104.71	4.325	103.80
4.046	81.35	4.498	107.16	4.435	105.93	4.366	104.48	4.334	103.97	4.304	103.17
4.026	80.78	4.476	106.48	4.413	105.13	4.345	103.73	4.313	103.19	4.283	102.35
4.006	80.29	4.453	105.60	4.391	104.35	4.323	102.97	4.291	102.46	4.262	101.62
3.986	79.80	4.431	104.85	4.370	103.63	4.302	102.26	4.270	101.67	4.241	100.93
3.966	79.24	4.409	103.99	4.348	102.83	4.280	101.50	4.248	100.94	4.220	100.19
3.946	78.73	4.386	103.31	4.326	102.14	4.258	100.83	4.227	100.21	4.199	99.46
3.926	78.23	4.364	102.50	4.304	101.36	4.237	100.03	4.206	99.44	4.178	98.74
3.906	77.73	4.342	101.65	4.282	100.61	4.215	99.32	4.184	98.75	4.157	98.05
3.886	77.22	4.320	100.91	4.260	99.89	4.194	98.62	4.163	97.98	4.136	97.33
3.866	76.70	4.297	100.22	4.239	99.13	4.172	97.91	4.141	97.30	4.115	96.58
3.846	76.19	4.275	99.41	4.217	98.47	4.151	97.20	4.120	96.54	4.093	95.84
3.826	75.67	4.253	98.69	4.195	97.76	4.129	96.52	4.098	95.87	4.072	95.17
3.806	75.23	4.231	97.97	4.173	97.00	4.108	95.89	4.077	95.14	4.051	94.51
3.786	74.71	4.208	97.20	4.151	96.25	4.086	95.16	4.056	94.49	4.030	93.73
3.766	74.18	4.186	96.55	4.129	95.65	4.065	94.43	4.034	93.75	4.009	93.09

3.746	73.73	4.164	95.79	4.108	94.88	4.043	93.77	4.013	93.04	3.988	92.50
3.726	73.21	4.141	95.20	4.086	94.20	4.022	93.05	3.991	92.36	3.967	91.78
3.706	72.71	4.119	94.47	4.064	93.47	4.000	92.30	3.970	91.69	3.946	91.14
3.686	72.18	4.097	93.81	4.042	92.81	3.979	91.61	3.948	90.98	3.925	90.42
3.666	71.71	4.075	92.99	4.020	92.09	3.957	90.93	3.927	90.28	3.904	89.80
3.646	71.22	4.052	92.37	3.998	91.43	3.935	90.18	3.906	89.61	3.883	89.11
3.626	70.77	4.030	91.63	3.977	90.72	3.914	89.54	3.884	88.95	3.862	88.46
3.606	70.25	4.008	91.06	3.955	90.10	3.892	88.89	3.863	88.32	3.841	87.79
3.586	69.80	3.986	90.22	3.933	89.39	3.871	88.17	3.841	87.65	3.819	87.14
3.566	69.27	3.963	89.60	3.911	88.70	3.849	87.48	3.820	86.97	3.798	86.48
3.546	68.82	3.941	88.82	3.889	87.99	3.828	86.82	3.799	86.30	3.777	85.85
3.526	68.33	3.919	88.17	3.867	87.32	3.806	86.16	3.777	85.65	3.756	85.20
3.506	67.84	3.896	87.49	3.846	86.67	3.785	85.51	3.756	84.99	3.735	84.57
3.486	67.34	3.874	86.97	3.824	86.05	3.763	84.90	3.734	84.35	3.714	83.92
3.466	66.92	3.852	86.11	3.802	85.39	3.742	84.23	3.713	83.71	3.693	83.30
3.446	66.42	3.830	85.63	3.780	84.73	3.720	83.56	3.691	83.09	3.672	82.68
3.426	65.98	3.807	84.76	3.758	84.08	3.699	83.02	3.670	82.48	3.651	82.04
3.406	65.51	3.785	84.13	3.736	83.42	3.677	82.30	3.649	81.87	3.630	81.39
3.386	65.03	3.763	83.48	3.715	82.78	3.655	81.63	3.627	81.19	3.609	80.82
3.366	64.55	3.741	82.80	3.693	82.13	3.634	81.00	3.606	80.60	3.588	80.16
3.346	64.07	3.718	82.12	3.671	81.50	3.612	80.38	3.584	80.01	3.567	79.57
3.326	63.62	3.696	81.44	3.649	80.79	3.591	79.75	3.563	79.36	3.545	78.94
3.306	63.19	3.674	80.79	3.627	80.22	3.569	79.10	3.541	78.75	3.524	78.30
3.286	62.70	3.651	80.11	3.605	79.56	3.548	78.48	3.520	78.10	3.503	77.67
3.266	62.26	3.629	79.45	3.584	78.94	3.526	77.88	3.499	77.52	3.482	77.12
3.246	61.79	3.607	78.83	3.562	78.33	3.505	77.20	3.477	76.95	3.461	76.50
3.226	61.36	3.585	78.20	3.540	77.72	3.483	76.66	3.456	76.30	3.440	75.93
3.206	60.94	3.562	77.56	3.518	77.07	3.462	75.97	3.434	75.74	3.419	75.33
3.186	60.43	3.540	76.91	3.496	76.45	3.440	75.42	3.413	75.10	3.398	74.71
3.166	59.99	3.518	76.29	3.475	75.84	3.419	74.74	3.391	74.51	3.377	74.11
3.146	59.55	3.496	75.68	3.453	75.26	3.397	74.14	3.370	73.92	3.356	73.51
3.126	59.06	3.473	75.04	3.431	74.66	3.375	73.54	3.349	73.35	3.335	72.94
3.106	58.62	3.451	74.35	3.409	74.01	3.354	72.97	3.327	72.75	3.314	72.36
3.086	58.17	3.429	73.66	3.387	73.45	3.332	72.36	3.306	72.12	3.293	71.76
3.066	57.79	3.406	73.06	3.365	72.79	3.311	71.82	3.284	71.52	3.271	71.22
3.046	57.33	3.384	72.58	3.344	72.22	3.289	71.27	3.263	70.98	3.250	70.64
3.025	56.87	3.362	72.08	3.322	71.57	3.268	70.67	3.242	70.36	3.229	70.06
3.005	56.41	3.340	71.50	3.300	71.01	3.246	70.09	3.220	69.75	3.208	69.48
2.985	56.00	3.317	70.90	3.278	70.38	3.225	69.41	3.199	69.20	3.187	68.93
2.965	55.57	3.295	70.31	3.256	69.82	3.203	68.84	3.177	68.60	3.166	68.38
2.945	55.09	3.273	69.72	3.234	69.19	3.182	68.26	3.156	68.07	3.145	67.76
2.925	54.69	3.251	69.05	3.213	68.64	3.160	67.68	3.134	67.47	3.124	67.20
2.905	54.25	3.228	68.50	3.191	68.04	3.139	67.10	3.113	66.86	3.103	66.68
2.885	53.79	3.206	67.98	3.169	67.45	3.117	66.56	3.092	66.28	3.082	66.13
2.865	53.37	3.184	67.31	3.147	66.90	3.095	65.96	3.070	65.74	3.061	65.60
2.845	52.94	3.161	66.74	3.125	66.30	3.074	65.34	3.049	65.16	3.040	65.01
2.825	52.46	3.139	66.15	3.103	65.71	3.052	64.82	3.027	64.64	3.019	64.48
2.805	52.03	3.117	65.53	3.082	65.18	3.031	64.27	3.006	64.01	2.997	63.91
2.785	51.59	3.095	65.04	3.060	64.61	3.009	63.70	2.984	63.45	2.976	63.39
2.765	51.22	3.072	64.46	3.038	64.03	2.988	63.08	2.963	62.91	2.955	62.81
2.745	50.78	3.050	63.85	3.016	63.46	2.966	62.53	2.942	62.36	2.934	62.25
2.725	50.32	3.028	63.29	2.994	62.88	2.945	61.93	2.920	61.78	2.913	61.71
2.705	49.86	3.006	62.69	2.972	62.32	2.923	61.41	2.899	61.21	2.892	61.21
2.685	49.47	2.983	62.20	2.951	61.80	2.902	60.85	2.877	60.70	2.871	60.63
2.665	49.07	2.961	61.58	2.929	61.23	2.880	60.16	2.856	60.13	2.850	60.08

2.645	48.61	2.939	60.96	2.907	60.68	2.859	59.68	2.834	59.59	2.829	59.59
2.625	48.21	2.917	60.42	2.885	60.12	2.837	59.16	2.813	58.99	2.808	59.06
2.605	47.77	2.894	59.89	2.863	59.57	2.815	58.61	2.792	58.46	2.787	58.47
2.585	47.33	2.872	59.28	2.841	59.01	2.794	58.01	2.770	57.93	2.766	58.00
2.565	46.96	2.850	58.76	2.820	58.46	2.772	57.53	2.749	57.40	2.745	57.51
2.545	46.50	2.827	58.20	2.798	57.91	2.751	57.01	2.727	56.83	2.723	56.89
2.525	46.08	2.805	57.63	2.776	57.43	2.729	56.42	2.706	56.35	2.702	56.43
2.505	45.67	2.783	57.12	2.754	56.82	2.708	55.92	2.685	55.80	2.681	55.88
2.485	45.22	2.761	56.51	2.732	56.28	2.686	55.41	2.663	55.24	2.660	55.35
2.465	44.83	2.738	56.03	2.710	55.74	2.665	54.86	2.642	54.72	2.639	54.82
2.445	44.44	2.716	55.48	2.689	55.20	2.643	54.36	2.620	54.21	2.618	54.32
2.425	44.04	2.694	54.90	2.667	54.69	2.622	53.79	2.599	53.66	2.597	53.82
2.405	43.56	2.672	54.37	2.645	54.16	2.600	53.30	2.577	53.17	2.576	53.34
2.385	43.20	2.649	53.84	2.623	53.62	2.579	52.81	2.556	52.60	2.555	52.81
2.365	42.76	2.627	53.29	2.601	53.10	2.557	52.27	2.535	52.13	2.534	52.24
2.345	42.35	2.605	52.73	2.579	52.59	2.535	51.78	2.513	51.54	2.513	51.74
2.325	41.93	2.582	52.22	2.558	52.07	2.514	51.25	2.492	51.06	2.492	51.25
2.305	41.51	2.560	51.65	2.536	51.56	2.492	50.74	2.470	50.54	2.470	50.77
2.285	41.10	2.538	51.11	2.514	51.04	2.471	50.22	2.449	50.01	2.449	50.26
2.265	40.69	2.516	50.64	2.492	50.45	2.449	49.71	2.427	49.55	2.428	49.75
2.245	40.31	2.493	50.07	2.470	49.93	2.428	49.19	2.406	48.97	2.407	49.24
2.225	39.88	2.471	49.57	2.448	49.50	2.406	48.76	2.385	48.46	2.386	48.72
2.205	39.50	2.449	49.01	2.427	48.96	2.385	48.23	2.363	47.97	2.365	48.20
2.185	39.12	2.427	48.49	2.405	48.46	2.363	47.77	2.342	47.46	2.344	47.76
2.165	38.67	2.404	47.99	2.383	47.94	2.342	47.27	2.320	46.93	2.323	47.23
2.145	38.30	2.382	47.43	2.361	47.42	2.320	46.73	2.299	46.49	2.302	46.75
2.125	37.91	2.360	46.93	2.339	46.90	2.299	46.27	2.277	45.99	2.281	46.21
2.105	37.51	2.337	46.41	2.318	46.37	2.277	45.82	2.256	45.47	2.260	45.72
2.085	37.11	2.315	45.86	2.296	45.92	2.256	45.30	2.235	44.96	2.239	45.29
2.065	36.70	2.293	45.38	2.274	45.39	2.234	44.84	2.213	44.48	2.218	44.76
2.045	36.30	2.271	44.85	2.252	44.86	2.212	44.37	2.192	43.97	2.196	44.25
2.025	35.88	2.248	44.41	2.230	44.43	2.191	43.86	2.170	43.48	2.175	43.78
2.005	35.52	2.226	43.84	2.208	43.91	2.169	43.40	2.149	43.00	2.154	43.31
1.985	35.09	2.204	43.35	2.187	43.37	2.148	42.94	2.128	42.54	2.133	42.85
1.965	34.73	2.182	42.81	2.165	42.92	2.126	42.47	2.106	42.04	2.112	42.34
1.945	34.29	2.159	42.31	2.143	42.40	2.105	41.90	2.085	41.54	2.091	41.90
1.925	33.91	2.137	41.83	2.121	41.88	2.083	41.40	2.063	41.04	2.070	41.34
1.905	33.53	2.115	41.31	2.099	41.43	2.062	40.77	2.042	40.59	2.049	40.91
1.885	33.13	2.092	40.80	2.077	40.92	2.040	40.14	2.020	40.11	2.028	40.42
1.865	32.73	2.070	40.36	2.056	40.48	2.019	39.73	1.999	39.58	2.007	39.97
1.845	32.33	2.048	39.83	2.034	39.97	1.997	39.39	1.978	39.17	1.986	39.42
1.825	31.98	2.026	39.32	2.012	39.47	1.976	38.92	1.956	38.64	1.965	39.02
1.805	31.57	2.003	38.86	1.990	38.95	1.954	38.44	1.935	38.22	1.944	38.54
1.785	31.21	1.981	38.34	1.968	38.52	1.932	37.97	1.913	37.72	1.922	38.03
1.765	30.84	1.959	37.90	1.946	38.02	1.911	37.50	1.892	37.21	1.901	37.62
1.745	30.46	1.937	37.38	1.925	37.52	1.889	37.04	1.870	36.82	1.880	37.12
1.725	30.01	1.914	36.89	1.903	37.02	1.868	36.51	1.849	36.33	1.859	36.71
1.705	29.68	1.892	36.42	1.881	36.61	1.846	36.05	1.828	35.83	1.838	36.22
1.685	29.28	1.870	35.91	1.859	36.12	1.825	35.59	1.806	35.35	1.817	35.76
1.665	28.89	1.847	35.49	1.837	35.66	1.803	35.10	1.785	34.92	1.796	35.32
1.645	28.51	1.825	35.01	1.815	35.21	1.782	34.62	1.763	34.44	1.775	34.82
1.625	28.15	1.803	34.51	1.794	34.68	1.760	34.17	1.742	34.05	1.754	34.38
1.605	27.77	1.781	34.00	1.772	34.21	1.739	33.69	1.720	33.50	1.733	33.91
1.585	27.39	1.758	33.54	1.750	33.75	1.717	33.24	1.699	33.09	1.712	33.46
1.565	26.99	1.736	33.10	1.728	33.32	1.696	32.76	1.678	32.61	1.691	33.02

1.545	26.61	1.714	32.57	1.706	32.80	1.674	32.26	1.656	32.19	1.670	32.58
1.525	26.22	1.692	32.13	1.684	32.36	1.652	31.86	1.635	31.69	1.648	32.13
1.505	25.84	1.669	31.66	1.663	31.94	1.631	31.35	1.613	31.26	1.627	31.64
1.485	25.47	1.647	31.19	1.641	31.42	1.609	30.94	1.592	30.84	1.606	31.23
1.465	25.11	1.625	30.76	1.619	31.01	1.588	30.46	1.570	30.36	1.585	30.76
1.445	24.79	1.602	30.28	1.597	30.53	1.566	29.98	1.549	29.86	1.564	30.38
1.425	24.39	1.580	29.80	1.575	30.04	1.545	29.52	1.528	29.45	1.543	29.88
1.405	23.98	1.558	29.33	1.553	29.61	1.523	29.07	1.506	28.97	1.522	29.43
1.384	23.63	1.536	28.88	1.532	29.13	1.502	28.63	1.485	28.54	1.501	29.06
1.364	23.27	1.513	28.38	1.510	28.69	1.480	28.19	1.463	28.13	1.480	28.56
1.344	22.89	1.491	28.00	1.488	28.23	1.459	27.73	1.442	27.68	1.459	28.13
1.324	22.55	1.469	27.48	1.466	27.76	1.437	27.33	1.421	27.26	1.438	27.73
1.304	22.20	1.447	27.04	1.444	27.32	1.416	26.93	1.399	26.81	1.417	27.24
1.284	21.87	1.424	26.59	1.422	26.89	1.394	26.60	1.378	26.37	1.396	26.79
1.264	21.49	1.402	26.14	1.401	26.41	1.372	26.15	1.356	25.94	1.374	26.36
1.244	21.15	1.380	25.73	1.379	25.96	1.351	25.58	1.335	25.47	1.353	26.01
1.224	20.79	1.357	25.24	1.357	25.56	1.329	25.10	1.313	25.08	1.332	25.49
1.204	20.46	1.335	24.80	1.335	25.07	1.308	24.66	1.292	24.62	1.311	25.09
1.184	20.07	1.313	24.34	1.313	24.63	1.286	24.23	1.271	24.16	1.290	24.66
1.164	19.72	1.291	23.94	1.291	24.16	1.265	23.81	1.249	23.72	1.269	24.24
1.144	19.36	1.268	23.46	1.270	23.70	1.243	23.37	1.228	23.27	1.248	23.79
1.124	19.05	1.246	22.99	1.248	23.27	1.222	23.03	1.206	22.87	1.227	23.35
1.104	18.71	1.224	22.60	1.226	22.82	1.200	22.45	1.185	22.47	1.206	22.94
1.084	18.35	1.202	22.12	1.204	22.40	1.179	22.04	1.163	22.03	1.185	22.54
1.064	18.02	1.179	21.73	1.182	21.81	1.157	21.63	1.142	21.58	1.164	22.05
1.044	17.66	1.157	21.26	1.161	21.39	1.136	21.22	1.121	21.17	1.143	21.63
1.024	17.31	1.135	20.81	1.139	21.06	1.114	20.80	1.099	20.73	1.122	21.24
1.004	16.92	1.112	20.39	1.117	20.63	1.092	20.36	1.078	20.29	1.100	20.84
0.984	16.61	1.090	19.97	1.095	20.19	1.071	19.90	1.056	19.92	1.079	20.38
0.964	16.23	1.068	19.52	1.073	19.77	1.049	19.58	1.035	19.48	1.058	20.03
0.944	15.90	1.046	19.13	1.051	19.36	1.028	19.10	1.013	19.04	1.037	19.51
0.924	15.58	1.023	18.66	1.030	18.93	1.006	18.76	0.992	18.58	1.016	19.12
0.904	15.19	1.001	18.28	1.008	18.51	0.985	18.30	0.971	18.18	0.995	18.73
0.884	14.88	0.979	17.83	0.986	18.10	0.963	17.83	0.949	17.76	0.974	18.34
0.864	14.56	0.957	17.40	0.964	17.66	0.942	17.39	0.928	17.29	0.953	17.89
0.844	14.18	0.934	17.00	0.942	17.26	0.920	17.00	0.906	16.91	0.932	17.51
0.824	13.85	0.912	16.58	0.920	16.84	0.899	16.71	0.885	16.47	0.911	17.06
0.804	13.54	0.890	16.18	0.899	16.42	0.877	16.16	0.864	16.12	0.890	16.65
0.784	13.21	0.867	15.79	0.877	16.01	0.856	15.80	0.842	15.65	0.869	16.26
0.764	12.83	0.845	15.31	0.855	15.60	0.834	15.39	0.821	15.29	0.848	15.81
0.744	12.51	0.823	14.96	0.833	15.19	0.812	14.92	0.799	14.84	0.826	15.43
0.724	12.20	0.801	14.50	0.811	14.79	0.791	14.59	0.778	14.43	0.805	15.07
0.704	11.84	0.778	14.09	0.789	14.38	0.769	14.25	0.756	14.03	0.784	14.61
0.684	11.54	0.756	13.68	0.768	13.97	0.748	13.62	0.735	13.62	0.763	14.23
0.664	11.19	0.734	13.26	0.746	13.56	0.726	13.30	0.714	13.26	0.742	13.79
0.644	10.84	0.712	12.69	0.724	13.17	0.705	12.97	0.692	12.85	0.721	13.44
0.624	10.50	0.689	12.23	0.702	12.75	0.683	12.47	0.671	12.45	0.700	12.99
0.604	10.15	0.667	11.80	0.680	12.36	0.662	12.03	0.649	12.04	0.679	12.62
0.584	9.84	0.645	11.40	0.658	11.95	0.640	11.65	0.628	11.63	0.658	12.18
0.564	9.48	0.622	11.06	0.637	11.53	0.619	11.23	0.606	11.22	0.637	11.83
0.544	9.09	0.600	10.59	0.615	11.17	0.597	10.80	0.585	10.81	0.616	11.38
0.524	8.76	0.578	10.21	0.593	10.74	0.576	10.42	0.564	10.41	0.595	10.99
0.504	8.47	0.556	9.83	0.571	10.28	0.554	10.11	0.542	9.99	0.574	10.61
0.484	8.08	0.533	9.38	0.549	9.90	0.533	9.60	0.521	9.66	0.552	10.17
0.464	7.76	0.511	8.99	0.527	9.51	0.511	9.19	0.499	9.25	0.531	9.84

0.444	7.42	0.489	8.57	0.506	9.11	0.489	8.77	0.478	8.85	0.510	9.42
0.424	7.08	0.467	8.17	0.484	8.73	0.468	8.43	0.456	8.45	0.489	9.03
0.404	6.77	0.444	7.75	0.462	8.35	0.446	7.98	0.435	8.04	0.468	8.60
0.384	6.39	0.422	7.32	0.440	7.88	0.425	7.54	0.414	7.64	0.447	8.26
0.364	6.06	0.400	6.93	0.418	7.51	0.403	7.21	0.392	7.24	0.426	7.85
0.344	5.76	0.377	6.53	0.396	7.14	0.382	6.78	0.371	6.84	0.405	7.46
0.324	5.43	0.355	6.13	0.375	6.77	0.360	6.36	0.349	6.51	0.384	7.06
0.304	5.11	0.333	5.77	0.353	6.30	0.339	5.98	0.328	6.02	0.363	6.66
0.284	4.78	0.311	5.37	0.331	5.93	0.317	5.60	0.307	5.69	0.342	6.36
0.264	4.41	0.288	4.97	0.309	5.52	0.296	5.21	0.285	5.27	0.321	5.90
0.244	4.09	0.266	4.53	0.287	5.12	0.274	4.88	0.264	4.86	0.300	5.48
0.224	3.78	0.244	4.16	0.265	4.75	0.253	4.56	0.242	4.45	0.278	5.13
0.204	3.46	0.222	3.75	0.244	4.30	0.231	4.13	0.221	4.07	0.257	4.74
0.184	3.15	0.199	3.36	0.222	3.94	0.209	3.63	0.199	3.70	0.236	4.34
0.164	2.83	0.177	2.98	0.200	3.56	0.188	3.23	0.178	3.32	0.215	4.03
0.144	2.46	0.155	2.59	0.178	3.18	0.166	2.83	0.157	2.92	0.194	3.60
0.124	2.12	0.132	2.20	0.156	2.73	0.145	2.44	0.135	2.52	0.173	3.21
0.104	1.89	0.110	1.89	0.135	2.36	0.123	2.05	0.114	2.12	0.152	2.83

**Table S1 (continued).**  $P\rho T$  experimental data for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures.

$T= 304.21$ K											
$x = 0.8525$											
$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )
20.098	709.96	16.755	665.90	13.412	593.03	10.070	403.51	6.727	161.23	3.385	62.85
20.077	709.75	16.735	665.55	13.392	592.43	10.050	401.51	6.707	160.42	3.365	62.38
20.057	709.52	16.715	665.26	13.372	591.78	10.030	399.61	6.687	159.60	3.345	61.97
20.037	709.30	16.695	664.92	13.352	591.14	10.010	397.66	6.667	158.80	3.325	61.51
20.017	709.14	16.675	664.61	13.332	590.50	9.990	395.74	6.647	157.97	3.305	61.07
19.997	708.92	16.655	664.31	13.312	589.88	9.970	393.85	6.627	157.15	3.285	60.63
19.977	708.67	16.635	663.96	13.292	589.26	9.950	391.72	6.607	156.40	3.265	60.20
19.957	708.41	16.615	663.61	13.272	588.66	9.930	389.81	6.587	155.58	3.245	59.80
19.937	708.20	16.595	663.30	13.252	587.98	9.910	387.76	6.567	154.81	3.225	59.34
19.917	707.98	16.575	662.97	13.232	587.34	9.890	385.78	6.547	154.02	3.205	58.89
19.897	707.78	16.555	662.69	13.212	586.64	9.870	383.84	6.527	153.30	3.185	58.50
19.877	707.56	16.535	662.33	13.192	586.05	9.850	381.83	6.507	152.50	3.165	58.02
19.857	707.35	16.515	662.00	13.172	585.40	9.830	379.83	6.487	151.74	3.145	57.61
19.837	707.13	16.495	661.66	13.152	584.68	9.810	377.98	6.467	150.94	3.125	57.16
19.817	706.90	16.475	661.29	13.132	584.01	9.790	375.92	6.447	150.23	3.104	56.73
19.797	706.67	16.455	660.96	13.112	583.38	9.770	373.92	6.427	149.42	3.084	56.32
19.777	706.44	16.435	660.61	13.092	582.73	9.750	371.95	6.407	148.67	3.064	55.89
19.757	706.22	16.415	660.30	13.072	582.05	9.730	369.90	6.387	147.97	3.044	55.49
19.737	706.01	16.395	659.98	13.052	581.40	9.710	368.00	6.367	147.22	3.024	55.05
19.717	705.76	16.375	659.64	13.032	580.77	9.690	366.08	6.347	146.44	3.004	54.62
19.697	705.57	16.355	659.26	13.012	580.11	9.670	364.09	6.327	145.72	2.984	54.18
19.677	705.30	16.335	658.94	12.992	579.35	9.650	362.12	6.307	145.05	2.964	53.77
19.657	705.10	16.315	658.60	12.972	578.75	9.629	360.09	6.287	144.29	2.944	53.37
19.637	704.91	16.295	658.26	12.952	578.06	9.609	358.08	6.267	143.56	2.924	52.92
19.617	704.63	16.275	657.91	12.932	577.28	9.589	356.02	6.247	142.81	2.904	52.51
19.597	704.46	16.255	657.53	12.912	576.65	9.569	353.92	6.227	142.10	2.884	52.08
19.577	704.20	16.235	657.21	12.892	575.89	9.549	351.97	6.207	141.41	2.864	51.69
19.557	703.97	16.215	656.86	12.872	575.16	9.529	350.01	6.187	140.66	2.844	51.22
19.537	703.81	16.195	656.53	12.852	574.43	9.509	347.94	6.167	139.97	2.824	50.82
19.517	703.58	16.174	656.12	12.832	573.77	9.489	346.00	6.147	139.25	2.804	50.43
19.497	703.35	16.154	655.77	12.812	573.00	9.469	344.04	6.127	138.58	2.784	49.98
19.477	703.13	16.134	655.42	12.792	572.21	9.449	342.08	6.107	137.84	2.764	49.55
19.457	702.91	16.114	655.08	12.772	571.50	9.429	340.04	6.087	137.14	2.744	49.19
19.437	702.67	16.094	654.73	12.752	570.74	9.409	338.02	6.067	136.49	2.724	48.78
19.417	702.41	16.074	654.39	12.732	569.99	9.389	336.09	6.047	135.75	2.704	48.33
19.397	702.18	16.054	654.04	12.712	569.20	9.369	334.08	6.027	135.04	2.684	47.93
19.377	701.97	16.034	653.66	12.692	568.45	9.349	332.17	6.007	134.36	2.664	47.50
19.357	701.73	16.014	653.32	12.672	567.68	9.329	330.15	5.987	133.71	2.644	47.07
19.337	701.50	15.994	652.92	12.652	566.96	9.309	328.25	5.967	133.02	2.624	46.67
19.317	701.28	15.974	652.56	12.632	566.24	9.289	326.32	5.947	132.34	2.604	46.27
19.297	701.05	15.954	652.21	12.612	565.43	9.269	324.34	5.927	131.67	2.584	45.89
19.277	700.83	15.934	651.85	12.592	564.74	9.249	322.46	5.907	130.99	2.564	45.49
19.257	700.61	15.914	651.44	12.572	563.93	9.229	320.49	5.887	130.31	2.544	45.08
19.237	700.38	15.894	651.07	12.552	563.16	9.209	318.61	5.867	129.62	2.524	44.62
19.217	700.14	15.874	650.71	12.532	562.36	9.189	316.74	5.847	128.93	2.504	44.25
19.197	699.91	15.854	650.35	12.512	561.55	9.169	314.82	5.827	128.34	2.484	43.84
19.177	699.66	15.834	650.01	12.492	560.74	9.149	313.01	5.807	127.64	2.464	43.44

19.157	699.41	15.814	649.65	12.472	559.93	9.129	311.11	5.787	126.97	2.444	43.05
19.137	699.13	15.794	649.27	12.452	559.18	9.109	309.27	5.767	126.37	2.424	42.62
19.117	698.89	15.774	648.87	12.432	558.39	9.089	307.43	5.747	125.68	2.404	42.25
19.097	698.68	15.754	648.52	12.412	557.56	9.069	305.57	5.727	125.05	2.384	41.84
19.077	698.42	15.734	648.14	12.392	556.85	9.049	303.75	5.706	124.36	2.364	41.44
19.057	698.17	15.714	647.74	12.372	556.01	9.029	301.91	5.686	123.77	2.344	41.08
19.037	697.90	15.694	647.38	12.352	555.16	9.009	300.11	5.666	123.11	2.324	40.68
19.017	697.73	15.674	647.02	12.332	554.38	8.989	298.23	5.646	122.45	2.304	40.24
18.997	697.46	15.654	646.61	12.312	553.53	8.969	296.50	5.626	121.85	2.284	39.86
18.977	697.19	15.634	646.25	12.292	552.65	8.949	294.71	5.606	121.22	2.264	39.49
18.957	696.95	15.614	645.83	12.272	551.76	8.929	292.94	5.586	120.54	2.244	39.10
18.937	696.70	15.594	645.46	12.251	550.92	8.909	291.25	5.566	119.91	2.224	38.70
18.917	696.42	15.574	645.10	12.231	550.01	8.889	289.52	5.546	119.28	2.204	38.32
18.897	696.20	15.554	644.66	12.211	549.08	8.869	287.82	5.526	118.69	2.184	37.93
18.877	695.96	15.534	644.26	12.191	548.18	8.849	286.05	5.506	118.03	2.164	37.57
18.857	695.68	15.514	643.89	12.171	547.20	8.829	284.31	5.486	117.49	2.144	37.21
18.837	695.40	15.494	643.51	12.151	546.19	8.809	282.67	5.466	116.84	2.124	36.82
18.817	695.20	15.474	643.09	12.131	545.22	8.789	281.02	5.446	116.23	2.104	36.42
18.797	694.91	15.454	642.71	12.111	544.33	8.769	279.36	5.426	115.61	2.084	36.00
18.776	694.69	15.434	642.33	12.091	543.28	8.749	277.74	5.406	114.97	2.064	35.64
18.756	694.43	15.414	641.90	12.071	542.31	8.729	276.03	5.386	114.33	2.044	35.25
18.736	694.14	15.394	641.54	12.051	541.26	8.709	274.51	5.366	113.78	2.024	34.86
18.716	693.91	15.374	641.14	12.031	540.35	8.689	272.82	5.346	113.17	2.004	34.46
18.696	693.66	15.354	640.70	12.011	539.28	8.669	271.24	5.326	112.59	1.984	34.07
18.676	693.36	15.334	640.32	11.991	538.35	8.649	269.68	5.306	112.04	1.964	33.67
18.656	693.10	15.314	639.94	11.971	537.46	8.629	268.09	5.286	111.40	1.944	33.31
18.636	692.83	15.294	639.55	11.951	536.82	8.609	266.58	5.266	110.83	1.924	32.95
18.616	692.58	15.274	639.11	11.931	536.04	8.589	264.97	5.246	110.19	1.904	32.57
18.596	692.34	15.254	638.71	11.911	535.22	8.569	263.45	5.226	109.63	1.884	32.18
18.576	692.09	15.234	638.30	11.891	534.42	8.549	261.91	5.206	109.05	1.864	31.79
18.556	691.77	15.214	637.91	11.871	533.51	8.529	260.38	5.186	108.48	1.844	31.47
18.536	691.54	15.194	637.48	11.851	532.64	8.509	258.88	5.166	107.92	1.824	31.13
18.516	691.29	15.174	637.09	11.831	531.74	8.489	257.44	5.146	107.30	1.804	30.78
18.496	690.98	15.154	636.66	11.811	530.77	8.469	256.00	5.126	106.70	1.783	30.42
18.476	690.74	15.134	636.23	11.791	529.77	8.449	254.50	5.106	106.11	1.763	30.06
18.456	690.44	15.114	635.83	11.771	528.80	8.429	253.07	5.086	105.52	1.743	29.61
18.436	690.16	15.094	635.42	11.751	527.80	8.409	251.65	5.066	104.97	1.723	29.26
18.416	689.95	15.074	634.95	11.731	526.67	8.389	250.14	5.046	104.45	1.703	28.88
18.396	689.65	15.054	634.56	11.711	525.69	8.369	248.73	5.026	103.86	1.683	28.50
18.376	689.37	15.034	634.12	11.691	524.62	8.349	247.31	5.006	103.28	1.663	28.10
18.356	689.10	15.014	633.69	11.671	523.58	8.328	245.89	4.986	102.74	1.643	27.78
18.336	688.82	14.994	633.28	11.651	522.37	8.308	244.52	4.966	102.17	1.623	27.44
18.316	688.59	14.974	632.87	11.631	521.34	8.288	243.12	4.946	101.57	1.603	27.03
18.296	688.29	14.954	632.43	11.611	520.25	8.268	241.78	4.926	101.08	1.583	26.67
18.276	688.00	14.934	631.99	11.591	519.11	8.248	240.37	4.906	100.50	1.563	26.30
18.256	687.79	14.914	631.53	11.571	517.96	8.228	239.07	4.886	99.94	1.543	25.97
18.236	687.47	14.894	631.10	11.551	516.83	8.208	237.69	4.866	99.42	1.523	25.58
18.216	687.20	14.874	630.68	11.531	515.66	8.188	236.36	4.846	98.84	1.503	25.19
18.196	686.90	14.853	630.25	11.511	514.47	8.168	235.08	4.826	98.28	1.483	24.87
18.176	686.63	14.833	629.81	11.491	513.31	8.148	233.73	4.806	97.77	1.463	24.48
18.156	686.37	14.813	629.36	11.471	512.21	8.128	232.47	4.786	97.22	1.443	24.14
18.136	686.03	14.793	628.90	11.451	510.97	8.108	231.20	4.766	96.68	1.423	23.79
18.116	685.77	14.773	628.51	11.431	509.72	8.088	229.91	4.746	96.15	1.403	23.42
18.096	685.52	14.753	628.01	11.411	508.53	8.068	228.67	4.726	95.61	1.383	23.09
18.076	685.23	14.733	627.57	11.391	507.31	8.048	227.38	4.706	95.06	1.363	22.71



18.056	684.95	14.713	627.14	11.371	506.08	8.028	226.14	4.686	94.53	1.343	22.35
18.036	684.68	14.693	626.71	11.351	504.84	8.008	224.94	4.666	94.01	1.323	21.98
18.016	684.41	14.673	626.24	11.331	503.51	7.988	223.68	4.646	93.46	1.303	21.66
17.996	684.14	14.653	625.75	11.311	502.24	7.968	222.49	4.626	92.91	1.283	21.30
17.976	683.86	14.633	625.25	11.291	500.99	7.948	221.26	4.606	92.36	1.263	20.98
17.956	683.55	14.613	624.86	11.271	499.66	7.928	220.10	4.586	91.86	1.243	20.60
17.936	683.23	14.593	624.36	11.251	498.34	7.908	218.90	4.566	91.28	1.223	20.28
17.916	683.00	14.573	623.94	11.231	497.17	7.888	217.67	4.546	90.80	1.203	19.90
17.896	682.65	14.553	623.45	11.211	495.80	7.868	216.53	4.526	90.30	1.183	19.51
17.876	682.44	14.533	623.01	11.191	494.58	7.848	215.36	4.506	89.75	1.163	19.23
17.856	682.11	14.513	622.54	11.171	493.31	7.828	214.22	4.486	89.23	1.143	18.86
17.836	681.82	14.493	622.06	11.151	492.06	7.808	213.11	4.466	88.72	1.123	18.55
17.816	681.58	14.473	621.61	11.131	490.73	7.788	211.95	4.446	88.17	1.103	18.16
17.796	681.29	14.453	621.07	11.111	489.32	7.768	210.82	4.426	87.74	1.083	17.84
17.776	681.06	14.433	620.61	11.091	487.93	7.748	209.64	4.405	87.20	1.063	17.46
17.756	680.77	14.413	620.13	11.071	486.51	7.728	208.59	4.385	86.69	1.043	17.14
17.736	680.44	14.393	619.65	11.051	485.20	7.708	207.48	4.365	86.18	1.023	16.77
17.716	680.18	14.373	619.19	11.031	483.76	7.688	206.41	4.345	85.67	1.003	16.44
17.696	679.91	14.353	618.69	11.011	482.35	7.668	205.27	4.325	85.16	0.983	16.07
17.676	679.60	14.333	618.19	10.991	480.86	7.648	204.22	4.305	84.64	0.963	15.73
17.656	679.36	14.313	617.73	10.971	479.41	7.628	203.13	4.285	84.12	0.943	15.41
17.636	679.10	14.293	617.19	10.951	477.98	7.608	202.07	4.265	83.60	0.923	15.06
17.616	678.80	14.273	616.68	10.930	476.41	7.588	201.08	4.245	83.09	0.903	14.73
17.596	678.48	14.253	616.23	10.910	474.93	7.568	199.94	4.225	82.63	0.883	14.38
17.576	678.25	14.233	615.73	10.890	473.57	7.548	198.97	4.205	82.10	0.863	14.04
17.556	677.93	14.213	615.25	10.870	472.03	7.528	197.87	4.185	81.60	0.843	13.68
17.536	677.68	14.193	614.70	10.850	470.54	7.508	196.87	4.165	81.12	0.823	13.37
17.516	677.38	14.173	614.21	10.830	469.13	7.488	195.87	4.145	80.66	0.803	13.03
17.496	677.08	14.153	613.67	10.810	467.64	7.468	194.87	4.125	80.12	0.783	12.69
17.475	676.77	14.133	613.21	10.790	466.19	7.448	193.85	4.105	79.65	0.763	12.35
17.455	676.49	14.113	612.66	10.770	464.63	7.428	192.83	4.085	79.17	0.743	12.03
17.435	676.22	14.093	612.18	10.750	463.14	7.408	191.83	4.065	78.63	0.723	11.72
17.415	675.94	14.073	611.62	10.730	461.64	7.388	190.81	4.045	78.17	0.703	11.40
17.395	675.65	14.053	611.09	10.710	460.05	7.368	189.83	4.025	77.69	0.683	11.05
17.375	675.35	14.033	610.58	10.690	458.52	7.348	188.91	4.005	77.21	0.663	10.69
17.355	675.05	14.013	609.99	10.670	456.90	7.328	187.89	3.985	76.72	0.643	10.38
17.335	674.78	13.993	609.51	10.650	455.26	7.308	186.91	3.965	76.25	0.623	10.06
17.315	674.49	13.973	608.95	10.630	453.73	7.288	185.94	3.945	75.75	0.603	9.72
17.295	674.21	13.953	608.44	10.610	451.99	7.268	185.01	3.925	75.26	0.583	9.36
17.275	673.91	13.933	607.86	10.590	450.34	7.248	184.04	3.905	74.83	0.563	9.04
17.255	673.59	13.913	607.36	10.570	448.66	7.228	183.09	3.885	74.35	0.543	8.73
17.235	673.30	13.893	606.80	10.550	446.91	7.208	182.16	3.865	73.88	0.523	8.39
17.215	673.00	13.873	606.30	10.530	445.28	7.188	181.21	3.845	73.42	0.503	8.02
17.195	672.69	13.853	605.76	10.510	443.70	7.168	180.26	3.825	72.90	0.482	7.73
17.175	672.41	13.833	605.23	10.490	442.00	7.148	179.38	3.805	72.46	0.462	7.39
17.155	672.11	13.813	604.71	10.470	440.39	7.128	178.48	3.785	71.97	0.442	7.08
17.135	671.80	13.793	604.18	10.450	438.63	7.108	177.52	3.765	71.51	0.422	6.76
17.115	671.47	13.773	603.55	10.430	436.71	7.088	176.62	3.745	71.05	0.402	6.45
17.095	671.22	13.753	603.03	10.410	435.02	7.068	175.71	3.725	70.60	0.382	6.13
17.075	670.92	13.733	602.45	10.390	433.32	7.048	174.86	3.705	70.09	0.362	5.82
17.055	670.60	13.713	601.88	10.370	431.34	7.027	173.98	3.685	69.69	0.342	5.50
17.035	670.31	13.693	601.31	10.350	429.56	7.007	173.08	3.665	69.22	0.322	5.19
17.015	670.01	13.673	600.75	10.330	427.81	6.987	172.16	3.645	68.75	0.302	4.86
16.995	669.70	13.653	600.12	10.310	425.91	6.967	171.32	3.625	68.28	0.282	4.57
16.975	669.38	13.633	599.64	10.290	424.17	6.947	170.47	3.605	67.80	0.262	4.17

16.955	669.09	13.613	598.97	10.270	422.28	6.927	169.59	3.585	67.34	0.242	3.85
16.935	668.75	13.593	598.45	10.250	420.57	6.907	168.74	3.565	66.92	0.222	3.56
16.915	668.45	13.573	597.84	10.230	418.67	6.887	167.86	3.545	66.43	0.202	3.21
16.895	668.14	13.552	597.27	10.210	416.73	6.867	167.02	3.525	65.99	0.182	2.91
16.875	667.81	13.532	596.65	10.190	414.75	6.847	166.13	3.505	65.52	0.162	2.58
16.855	667.50	13.512	596.04	10.170	412.94	6.827	165.36	3.485	65.09	0.142	2.36
16.835	667.16	13.492	595.43	10.150	411.03	6.807	164.47	3.465	64.66	0.122	1.98
16.815	666.87	13.472	594.86	10.130	409.21	6.787	163.67	3.445	64.18	0.102	1.65
16.795	666.52	13.452	594.26	10.110	407.36	6.767	162.82	3.425	63.78		
16.775	666.21	13.432	593.65	10.090	405.33	6.747	162.00	3.405	63.28		

**Table S1 (continued).**  $P\rho T$  experimental data for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures.

$T = 308.15$ K											
$x = 0.8525$		$x = 0.9719$		$x = 0.9809$		$x = 0.9902$		$x = 0.9932$		$x = 0.9961$	
$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )
20.094	688.07	20.152	830.73	20.003	838.71	20.232	853.77	20.145	972.54	20.139	861.83
20.074	687.82	20.132	830.62	19.984	838.91	20.212	853.61	20.126	972.46	20.119	861.75
20.054	687.57	20.111	830.41	19.964	839.12	20.191	853.45	20.106	972.40	20.099	861.67
20.034	687.38	20.091	830.33	19.944	839.25	20.171	853.30	20.087	972.34	20.079	861.56
20.014	687.09	20.071	830.12	19.924	839.37	20.151	853.19	20.068	972.20	20.059	861.45
19.994	686.91	20.051	829.96	19.904	839.45	20.131	853.01	20.048	972.11	20.039	861.28
19.974	686.67	20.031	829.80	19.884	839.54	20.111	852.81	20.029	972.04	20.019	861.18
19.954	686.43	20.011	829.64	19.864	839.62	20.091	852.71	20.010	971.97	19.999	861.11
19.934	686.19	19.991	829.47	19.844	839.62	20.071	852.58	19.990	971.89	19.979	860.93
19.914	685.96	19.971	829.29	19.824	839.55	20.051	852.40	19.971	971.81	19.959	860.85
19.894	685.72	19.951	829.18	19.804	839.46	20.030	852.21	19.952	971.71	19.939	860.68
19.874	685.47	19.931	829.01	19.785	839.35	20.010	852.11	19.932	971.63	19.919	860.53
19.854	685.22	19.911	828.83	19.765	839.19	19.990	851.91	19.913	971.54	19.899	860.38
19.834	684.97	19.891	828.62	19.745	839.06	19.970	851.75	19.894	971.46	19.879	860.23
19.814	684.70	19.871	828.47	19.725	838.87	19.950	851.61	19.874	971.37	19.859	860.14
19.794	684.46	19.851	828.30	19.705	838.80	19.930	851.41	19.855	971.32	19.839	859.97
19.773	684.22	19.830	828.14	19.685	838.68	19.910	851.26	19.836	971.24	19.819	859.77
19.753	683.98	19.810	827.97	19.665	838.55	19.890	851.08	19.816	971.14	19.799	859.64
19.733	683.74	19.790	827.76	19.645	838.41	19.869	850.93	19.797	971.05	19.779	859.53
19.713	683.50	19.770	827.61	19.625	838.24	19.849	850.73	19.778	970.97	19.759	859.37
19.693	683.24	19.750	827.44	19.606	838.09	19.829	850.57	19.758	970.91	19.739	859.22
19.673	682.98	19.730	827.23	19.586	837.94	19.809	850.36	19.739	970.82	19.719	859.06
19.653	682.71	19.710	827.09	19.566	837.76	19.789	850.20	19.720	970.67	19.699	858.89
19.633	682.53	19.690	826.88	19.546	837.52	19.769	849.99	19.700	970.62	19.679	858.75
19.613	682.20	19.670	826.76	19.526	837.40	19.749	849.79	19.681	970.52	19.659	858.59
19.593	682.00	19.650	826.51	19.506	837.25	19.728	849.63	19.662	970.43	19.639	858.44
19.573	681.72	19.630	826.37	19.486	837.07	19.708	849.45	19.642	970.34	19.619	858.28
19.553	681.48	19.610	826.22	19.466	836.89	19.688	849.22	19.623	970.27	19.599	858.13
19.533	681.23	19.590	826.03	19.446	836.68	19.668	849.06	19.604	970.16	19.579	857.97
19.513	680.98	19.570	825.82	19.426	836.52	19.648	848.95	19.584	970.11	19.559	857.82
19.493	680.72	19.550	825.67	19.407	836.39	19.628	848.80	19.565	970.01	19.539	857.66
19.473	680.46	19.529	825.45	19.387	836.25	19.608	848.61	19.546	969.91	19.519	857.49
19.453	680.18	19.509	825.32	19.367	836.07	19.588	848.43	19.526	969.80	19.499	857.32
19.433	679.91	19.489	825.12	19.347	835.90	19.567	848.33	19.507	969.72	19.479	857.16
19.413	679.71	19.469	824.94	19.327	835.76	19.547	848.17	19.488	969.66	19.459	856.99
19.393	679.43	19.449	824.78	19.307	835.60	19.527	847.99	19.468	969.57	19.439	856.81
19.373	679.17	19.429	824.56	19.287	835.44	19.507	847.83	19.449	969.47	19.419	856.65
19.353	678.89	19.409	824.38	19.267	835.27	19.487	847.65	19.430	969.37	19.399	856.50
19.333	678.68	19.389	824.18	19.247	835.07	19.467	847.47	19.410	969.29	19.379	856.34
19.313	678.40	19.369	823.99	19.227	834.96	19.447	847.28	19.391	969.21	19.359	856.18
19.293	678.12	19.349	823.84	19.208	834.78	19.427	847.14	19.372	969.06	19.339	855.99
19.273	677.82	19.329	823.63	19.188	834.57	19.406	846.95	19.352	968.97	19.319	855.83
19.253	677.60	19.309	823.43	19.168	834.44	19.386	846.82	19.333	968.93	19.299	855.65
19.233	677.31	19.289	823.22	19.148	834.25	19.366	846.63	19.314	968.85	19.279	855.47
19.213	677.05	19.269	823.02	19.128	834.07	19.346	846.42	19.294	968.72	19.259	855.30
19.193	676.83	19.248	822.84	19.108	833.89	19.326	846.27	19.275	968.61	19.239	855.13
19.173	676.54	19.228	822.65	19.088	833.74	19.306	846.11	19.256	968.53	19.219	854.96

19.153	676.26	19.208	822.49	19.068	833.60	19.286	845.92	19.236	968.40	19.199	854.78
19.133	675.97	19.188	822.31	19.048	833.43	19.266	845.73	19.217	968.38	19.179	854.62
19.113	675.73	19.168	822.05	19.029	833.26	19.245	845.57	19.198	968.23	19.159	854.45
19.093	675.41	19.148	821.94	19.009	833.15	19.225	845.39	19.178	968.14	19.139	854.28
19.073	675.21	19.128	821.72	18.989	832.95	19.205	845.16	19.159	968.07	19.119	854.10
19.053	674.90	19.108	821.55	18.969	832.72	19.185	845.00	19.139	967.98	19.099	853.93
19.033	674.61	19.088	821.37	18.949	832.52	19.165	844.83	19.120	967.85	19.079	853.75
19.013	674.38	19.068	821.19	18.929	832.35	19.145	844.68	19.101	967.81	19.059	853.57
18.993	674.07	19.048	820.97	18.909	832.23	19.125	844.47	19.081	967.68	19.039	853.39
18.973	673.83	19.028	820.79	18.889	832.10	19.105	844.29	19.062	967.63	19.019	853.21
18.953	673.51	19.008	820.61	18.869	831.91	19.084	844.14	19.043	967.50	18.999	853.06
18.933	673.27	18.988	820.42	18.849	831.72	19.064	843.94	19.023	967.42	18.979	852.90
18.913	672.94	18.968	820.22	18.830	831.55	19.044	843.75	19.004	967.34	18.959	852.66
18.893	672.70	18.947	820.05	18.810	831.35	19.024	843.58	18.985	967.26	18.939	852.56
18.873	672.39	18.927	819.81	18.790	831.11	19.004	843.37	18.965	967.14	18.919	852.37
18.853	672.13	18.907	819.68	18.770	830.97	18.984	843.18	18.946	967.03	18.899	852.20
18.833	671.89	18.887	819.47	18.750	830.79	18.964	843.01	18.927	966.93	18.879	852.01
18.813	671.57	18.867	819.27	18.730	830.60	18.943	842.80	18.907	966.85	18.859	851.82
18.793	671.32	18.847	819.07	18.710	830.43	18.923	842.64	18.888	966.76	18.839	851.63
18.773	671.00	18.827	818.88	18.690	830.31	18.903	842.48	18.869	966.65	18.819	851.45
18.753	670.76	18.807	818.69	18.670	830.12	18.883	842.29	18.849	966.61	18.799	851.27
18.733	670.46	18.787	818.50	18.651	829.92	18.863	842.07	18.830	966.52	18.779	851.08
18.713	670.13	18.767	818.32	18.631	829.73	18.843	841.91	18.811	966.37	18.759	850.90
18.693	669.91	18.747	818.12	18.611	829.53	18.823	841.77	18.791	966.28	18.739	850.72
18.673	669.60	18.727	817.93	18.591	829.33	18.803	841.51	18.772	966.21	18.719	850.54
18.653	669.36	18.707	817.66	18.571	829.12	18.782	841.34	18.753	966.10	18.699	850.36
18.633	669.03	18.687	817.46	18.551	828.98	18.762	841.19	18.733	966.00	18.679	850.19
18.613	668.74	18.666	817.31	18.531	828.79	18.742	840.94	18.714	965.96	18.659	850.01
18.593	668.47	18.646	817.10	18.511	828.55	18.722	840.79	18.695	965.81	18.639	849.81
18.573	668.17	18.626	816.85	18.491	828.40	18.702	840.61	18.675	965.71	18.619	849.63
18.553	667.91	18.606	816.72	18.471	828.20	18.682	840.44	18.656	965.66	18.599	849.43
18.533	667.65	18.586	816.49	18.452	828.06	18.662	840.20	18.637	965.51	18.579	849.31
18.513	667.32	18.566	816.28	18.432	827.88	18.642	840.01	18.617	965.47	18.559	849.09
18.493	667.05	18.546	816.09	18.412	827.67	18.621	839.84	18.598	965.31	18.539	848.89
18.473	666.76	18.526	815.87	18.392	827.48	18.601	839.64	18.579	965.23	18.519	848.71
18.453	666.43	18.506	815.70	18.372	827.32	18.581	839.47	18.559	965.17	18.499	848.55
18.433	666.20	18.486	815.45	18.352	827.13	18.561	839.27	18.540	965.02	18.479	848.38
18.413	665.85	18.466	815.29	18.332	826.94	18.541	839.08	18.521	964.98	18.459	848.20
18.393	665.56	18.446	815.04	18.312	826.76	18.521	838.87	18.501	964.85	18.439	848.01
18.373	665.30	18.426	814.91	18.292	826.59	18.501	838.68	18.482	964.79	18.419	847.81
18.353	664.99	18.406	814.68	18.273	826.39	18.481	838.48	18.463	964.69	18.399	847.62
18.333	664.71	18.385	814.47	18.253	826.14	18.460	838.32	18.443	964.57	18.379	847.41
18.313	664.40	18.365	814.24	18.233	825.91	18.440	838.09	18.424	964.51	18.359	847.21
18.293	664.17	18.345	814.03	18.213	825.78	18.420	837.89	18.405	964.39	18.339	847.09
18.272	663.82	18.325	813.84	18.193	825.52	18.400	837.73	18.385	964.30	18.319	846.89
18.252	663.57	18.305	813.65	18.173	825.37	18.380	837.52	18.366	964.17	18.299	846.69
18.232	663.26	18.285	813.44	18.153	825.26	18.360	837.36	18.347	964.12	18.279	846.50
18.212	662.95	18.265	813.23	18.133	825.05	18.340	837.15	18.327	964.00	18.259	846.30
18.192	662.64	18.245	812.98	18.113	824.84	18.320	836.94	18.308	963.92	18.239	846.13
18.172	662.41	18.225	812.82	18.093	824.69	18.299	836.79	18.289	963.82	18.219	845.92
18.152	662.08	18.205	812.58	18.074	824.49	18.279	836.57	18.269	963.70	18.199	845.75
18.132	661.77	18.185	812.42	18.054	824.28	18.259	836.39	18.250	963.60	18.179	845.58
18.112	661.47	18.165	812.20	18.034	824.09	18.239	836.21	18.231	963.48	18.159	845.37
18.092	661.14	18.145	811.95	18.014	823.90	18.219	835.97	18.211	963.41	18.139	845.17
18.072	660.89	18.125	811.73	17.994	823.71	18.199	835.78	18.192	963.30	18.119	845.02

18.052	660.58	18.105	811.60	17.974	823.49	18.179	835.57	18.173	963.20	18.099	844.83
18.032	660.23	18.084	811.32	17.954	823.26	18.158	835.43	18.153	963.11	18.079	844.60
18.012	659.97	18.064	811.10	17.934	823.04	18.138	835.19	18.134	963.03	18.059	844.45
17.992	659.67	18.044	810.91	17.914	822.89	18.118	835.00	18.114	962.93	18.039	844.24
17.972	659.32	18.024	810.72	17.895	822.68	18.098	834.84	18.095	962.83	18.019	844.03
17.952	659.06	18.004	810.48	17.875	822.47	18.078	834.61	18.076	962.70	17.999	843.81
17.932	658.74	17.984	810.28	17.855	822.27	18.058	834.42	18.056	962.62	17.979	843.62
17.912	658.38	17.964	810.05	17.835	822.06	18.038	834.27	18.037	962.53	17.959	843.42
17.892	658.08	17.944	809.86	17.815	821.84	18.018	834.08	18.018	962.41	17.939	843.28
17.872	657.76	17.924	809.65	17.795	821.67	17.997	833.84	17.998	962.29	17.919	843.05
17.852	657.46	17.904	809.43	17.775	821.42	17.977	833.67	17.979	962.21	17.899	842.86
17.832	657.10	17.884	809.22	17.755	821.23	17.957	833.51	17.960	962.13	17.879	842.65
17.812	656.79	17.864	808.99	17.735	821.09	17.937	833.31	17.940	962.06	17.859	842.49
17.792	656.46	17.844	808.78	17.715	820.86	17.917	833.13	17.921	961.92	17.839	842.30
17.772	656.13	17.824	808.59	17.696	820.65	17.897	832.89	17.902	961.85	17.819	842.09
17.752	655.84	17.803	808.36	17.676	820.45	17.877	832.74	17.882	961.75	17.799	841.87
17.732	655.46	17.783	808.15	17.656	820.26	17.857	832.53	17.863	961.62	17.779	841.66
17.712	655.16	17.763	807.99	17.636	820.06	17.836	832.32	17.844	961.54	17.759	841.51
17.692	654.83	17.743	807.76	17.616	819.86	17.816	832.16	17.824	961.47	17.739	841.27
17.672	654.49	17.723	807.50	17.596	819.66	17.796	831.67	17.805	961.32	17.719	841.11
17.652	654.18	17.703	807.30	17.576	819.45	17.776	831.42	17.786	961.24	17.699	840.89
17.632	653.86	17.683	807.08	17.556	819.21	17.756	831.34	17.766	961.11	17.679	840.72
17.612	653.49	17.663	806.87	17.536	818.93	17.736	831.14	17.747	960.99	17.659	840.51
17.592	653.17	17.643	806.68	17.517	818.76	17.716	830.96	17.728	960.91	17.639	840.29
17.572	652.85	17.623	806.44	17.497	818.53	17.696	830.78	17.708	960.82	17.619	840.05
17.552	652.53	17.603	806.24	17.477	818.28	17.675	830.61	17.689	960.75	17.599	839.89
17.532	652.14	17.583	806.01	17.457	818.12	17.655	830.39	17.670	960.64	17.579	839.65
17.512	651.84	17.563	805.84	17.437	817.92	17.635	830.23	17.650	960.58	17.559	839.50
17.492	651.48	17.543	805.59	17.417	817.66	17.615	830.07	17.631	960.44	17.539	839.28
17.472	651.16	17.522	805.39	17.397	817.44	17.595	829.88	17.612	960.36	17.519	839.08
17.452	650.84	17.502	805.15	17.377	817.27	17.575	829.70	17.592	960.23	17.499	838.91
17.432	650.50	17.482	804.90	17.357	817.11	17.555	829.53	17.573	960.13	17.479	838.66
17.412	650.15	17.462	804.71	17.337	816.91	17.535	829.29	17.554	960.10	17.459	838.43
17.392	649.79	17.442	804.50	17.318	816.68	17.514	829.09	17.534	959.94	17.439	838.28
17.372	649.49	17.422	804.22	17.298	816.42	17.494	828.91	17.515	959.87	17.419	838.08
17.352	649.11	17.402	804.03	17.278	816.17	17.474	828.73	17.496	959.77	17.399	837.89
17.332	648.78	17.382	803.77	17.258	815.90	17.454	828.50	17.476	959.71	17.379	837.66
17.312	648.42	17.362	803.52	17.238	815.80	17.434	828.34	17.457	959.57	17.359	837.46
17.292	648.06	17.342	803.34	17.218	815.47	17.414	828.19	17.438	959.46	17.339	837.29
17.272	647.72	17.322	803.07	17.198	815.35	17.394	827.94	17.418	959.36	17.319	837.09
17.252	647.43	17.302	802.89	17.178	815.11	17.373	827.77	17.399	959.26	17.299	836.87
17.232	647.03	17.282	802.62	17.158	814.93	17.353	827.54	17.380	959.18	17.279	836.64
17.212	646.69	17.262	802.38	17.139	814.72	17.333	827.35	17.360	959.09	17.259	836.45
17.192	646.38	17.242	802.18	17.119	814.47	17.313	827.14	17.341	958.96	17.239	836.21
17.172	646.00	17.221	801.92	17.099	814.17	17.293	826.95	17.322	958.87	17.219	836.06
17.152	645.66	17.201	801.65	17.079	813.98	17.273	826.75	17.302	958.81	17.199	835.82
17.132	645.26	17.181	801.40	17.059	813.73	17.253	826.59	17.283	958.65	17.179	835.59
17.112	644.94	17.161	801.20	17.039	813.52	17.233	826.42	17.264	958.56	17.159	835.43
17.092	644.58	17.141	800.98	17.019	813.34	17.212	826.20	17.244	958.47	17.139	835.23
17.072	644.21	17.121	800.71	16.999	813.12	17.192	825.94	17.225	958.34	17.119	834.99
17.052	643.85	17.101	800.51	16.979	812.88	17.172	825.68	17.206	958.29	17.099	834.76
17.032	643.52	17.081	800.24	16.959	812.66	17.152	825.60	17.186	958.14	17.079	834.60
17.012	643.19	17.061	800.07	16.940	812.44	17.132	825.33	17.167	958.06	17.059	834.37
16.992	642.80	17.041	799.79	16.920	812.23	17.112	825.14	17.148	957.99	17.039	834.11
16.972	642.48	17.021	799.54	16.900	812.04	17.092	824.91	17.128	957.82	17.019	833.95

16.952	642.10	17.001	799.37	16.880	811.71	17.072	824.71	17.109	957.75	16.999	833.78
16.932	641.73	16.981	799.10	16.860	811.57	17.051	824.52	17.089	957.65	16.979	833.52
16.912	641.36	16.961	798.86	16.840	811.37	17.031	824.34	17.070	957.57	16.959	833.30
16.892	641.05	16.940	798.64	16.820	811.11	17.011	824.08	17.051	957.41	16.939	833.10
16.872	640.68	16.920	798.39	16.800	810.86	16.991	823.86	17.031	957.33	16.919	832.89
16.852	640.27	16.900	798.16	16.780	810.60	16.971	823.61	17.012	957.21	16.899	832.69
16.832	639.90	16.880	797.91	16.761	810.40	16.951	823.48	16.993	957.14	16.879	832.51
16.812	639.59	16.860	797.70	16.741	810.18	16.931	823.26	16.973	957.03	16.859	832.29
16.792	639.24	16.840	797.42	16.721	809.94	16.911	823.06	16.954	956.94	16.839	832.06
16.771	638.82	16.820	797.23	16.701	809.73	16.890	822.86	16.935	956.84	16.819	831.85
16.751	638.46	16.800	796.96	16.681	809.53	16.870	822.66	16.915	956.72	16.799	831.65
16.731	638.07	16.780	796.74	16.661	809.25	16.850	822.41	16.896	956.63	16.779	831.45
16.711	637.73	16.760	796.49	16.641	809.04	16.830	822.22	16.877	956.53	16.759	831.30
16.691	637.34	16.740	796.26	16.621	808.75	16.810	821.98	16.857	956.45	16.739	831.07
16.671	636.94	16.720	796.06	16.601	808.50	16.790	821.70	16.838	956.31	16.719	830.85
16.651	636.60	16.700	795.83	16.581	808.29	16.770	821.52	16.819	956.21	16.699	830.70
16.631	636.24	16.680	795.57	16.562	808.12	16.750	821.24	16.799	956.10	16.679	830.48
16.611	635.85	16.660	795.31	16.542	807.89	16.729	821.11	16.780	956.02	16.659	830.25
16.591	635.47	16.639	795.04	16.522	807.59	16.709	820.91	16.761	955.88	16.639	830.02
16.571	635.06	16.619	794.87	16.502	807.31	16.689	820.66	16.741	955.80	16.619	829.82
16.551	634.68	16.599	794.57	16.482	807.05	16.669	820.45	16.722	955.67	16.599	829.60
16.531	634.33	16.579	794.36	16.462	806.83	16.649	820.16	16.703	955.62	16.579	829.37
16.511	633.97	16.559	794.08	16.442	806.68	16.629	819.99	16.683	955.53	16.559	829.20
16.491	633.54	16.539	793.85	16.422	806.37	16.609	819.78	16.664	955.37	16.539	828.97
16.471	633.17	16.519	793.64	16.402	806.19	16.588	819.55	16.645	955.28	16.519	828.72
16.451	632.78	16.499	793.36	16.383	805.89	16.568	819.34	16.625	955.16	16.499	828.52
16.431	632.44	16.479	793.12	16.363	805.62	16.548	819.07	16.606	955.02	16.479	828.33
16.411	631.99	16.459	792.86	16.343	805.39	16.528	818.84	16.587	954.94	16.459	828.18
16.391	631.60	16.439	792.62	16.323	805.15	16.508	818.60	16.567	954.85	16.439	827.90
16.371	631.25	16.419	792.36	16.303	804.92	16.488	818.42	16.548	954.72	16.419	827.67
16.351	630.89	16.399	792.10	16.283	804.67	16.468	818.19	16.529	954.64	16.399	827.41
16.331	630.45	16.379	791.89	16.263	804.41	16.448	817.97	16.509	954.54	16.379	827.25
16.311	630.06	16.358	791.59	16.243	804.16	16.427	817.69	16.490	954.44	16.359	827.02
16.291	629.64	16.338	791.37	16.223	803.89	16.407	817.46	16.471	954.31	16.339	826.82
16.271	629.31	16.318	791.13	16.203	803.69	16.387	817.27	16.451	954.18	16.319	826.61
16.251	628.91	16.298	790.84	16.184	803.46	16.367	817.02	16.432	954.08	16.299	826.40
16.231	628.48	16.278	790.59	16.164	803.19	16.347	816.76	16.413	953.98	16.279	826.12
16.211	628.10	16.258	790.30	16.144	802.92	16.327	816.53	16.393	953.89	16.259	825.87
16.191	627.70	16.238	790.04	16.124	802.64	16.307	816.29	16.374	953.81	16.239	825.69
16.171	627.29	16.218	789.76	16.104	802.44	16.287	816.10	16.355	953.70	16.219	825.46
16.151	626.87	16.198	789.53	16.084	802.18	16.266	815.88	16.335	953.55	16.199	825.22
16.131	626.48	16.178	789.25	16.064	801.93	16.246	815.66	16.316	953.42	16.179	825.02
16.111	626.05	16.158	788.97	16.044	801.65	16.226	815.41	16.297	953.33	16.159	824.76
16.091	625.60	16.138	788.76	16.024	801.38	16.206	815.18	16.277	953.28	16.139	824.57
16.071	625.19	16.118	788.45	16.005	801.10	16.186	814.91	16.258	953.15	16.119	824.29
16.051	624.81	16.098	788.20	15.985	800.87	16.166	814.72	16.239	953.03	16.099	824.06
16.031	624.43	16.077	787.98	15.965	800.61	16.146	814.48	16.219	952.92	16.079	823.86
16.011	623.97	16.057	787.69	15.945	800.37	16.126	814.23	16.200	952.83	16.059	823.65
15.991	623.59	16.037	787.42	15.925	800.03	16.105	813.93	16.181	952.73	16.039	823.39
15.971	623.16	16.017	787.16	15.905	799.88	16.085	813.70	16.161	952.55	16.019	823.14
15.951	622.72	15.997	786.88	15.885	799.52	16.065	813.47	16.142	952.52	15.999	822.95
15.931	622.32	15.977	786.64	15.865	799.29	16.045	813.25	16.123	952.35	15.979	822.72
15.911	621.87	15.957	786.34	15.845	799.05	16.025	813.01	16.103	952.26	15.959	822.50
15.891	621.47	15.937	786.09	15.825	798.77	16.005	812.76	16.084	952.16	15.939	822.22
15.871	621.03	15.917	785.81	15.806	798.55	15.985	812.52	16.064	952.03	15.919	822.03

15.851	620.59	15.897	785.54	15.786	798.24	15.965	812.26	16.045	951.88	15.899	821.75
15.831	620.22	15.877	785.27	15.766	797.98	15.944	811.99	16.026	951.85	15.879	821.50
15.811	619.86	15.857	785.00	15.746	797.74	15.924	811.77	16.006	951.70	15.859	821.24
15.791	619.48	15.837	784.73	15.726	797.44	15.904	811.54	15.987	951.56	15.839	821.01
15.771	618.99	15.817	784.42	15.706	797.20	15.884	811.31	15.968	951.46	15.819	820.79
15.751	618.58	15.797	784.20	15.686	796.90	15.864	811.01	15.948	951.34	15.799	820.61
15.731	618.12	15.776	783.92	15.666	796.62	15.844	810.76	15.929	951.26	15.779	820.27
15.711	617.86	15.756	783.67	15.646	796.38	15.824	810.51	15.910	951.17	15.759	820.08
15.691	617.43	15.736	783.45	15.627	796.11	15.803	810.25	15.890	951.03	15.739	819.81
15.671	617.06	15.716	783.18	15.607	795.85	15.783	810.00	15.871	950.92	15.719	819.59
15.651	616.65	15.696	782.86	15.587	795.56	15.763	809.79	15.852	950.83	15.699	819.31
15.631	616.22	15.676	782.60	15.567	795.32	15.743	809.57	15.832	950.72	15.679	819.12
15.611	615.81	15.656	782.31	15.547	795.06	15.723	809.33	15.813	950.56	15.659	818.90
15.591	615.37	15.636	782.10	15.527	794.74	15.703	809.00	15.794	950.48	15.639	818.57
15.571	614.96	15.616	781.80	15.507	794.51	15.683	808.82	15.774	950.40	15.619	818.36
15.551	614.54	15.596	781.55	15.487	794.17	15.663	808.56	15.755	950.23	15.599	818.15
15.531	614.09	15.576	781.24	15.467	793.95	15.642	808.30	15.736	950.11	15.579	817.88
15.511	613.67	15.556	780.98	15.447	793.69	15.622	808.05	15.716	950.01	15.559	817.63
15.491	613.23	15.536	780.71	15.428	793.44	15.602	807.79	15.697	949.91	15.539	817.37
15.471	612.81	15.516	780.46	15.408	793.12	15.582	807.53	15.678	949.85	15.519	817.09
15.451	612.30	15.495	780.18	15.388	792.84	15.562	807.31	15.658	949.69	15.499	816.85
15.431	611.85	15.475	779.94	15.368	792.58	15.542	807.06	15.639	949.60	15.479	816.62
15.411	611.40	15.455	779.69	15.348	792.27	15.522	806.72	15.620	949.44	15.459	816.39
15.391	610.94	15.435	779.41	15.328	792.04	15.502	806.54	15.600	949.32	15.439	816.14
15.371	610.47	15.415	779.18	15.308	791.71	15.481	806.26	15.581	949.25	15.419	815.87
15.351	610.03	15.395	778.85	15.288	791.43	15.461	805.97	15.562	949.17	15.399	815.64
15.331	609.57	15.375	778.58	15.268	791.13	15.441	805.75	15.542	949.03	15.379	815.38
15.311	609.06	15.355	778.31	15.248	790.86	15.421	805.47	15.523	948.86	15.359	815.17
15.291	608.61	15.335	778.04	15.229	790.59	15.401	805.21	15.504	948.75	15.339	814.89
15.270	608.13	15.315	777.74	15.209	790.29	15.381	804.96	15.484	948.65	15.319	814.62
15.250	607.68	15.295	777.55	15.189	790.02	15.361	804.72	15.465	948.53	15.299	814.38
15.230	607.18	15.275	777.24	15.169	789.72	15.341	804.47	15.446	948.43	15.279	814.12
15.210	606.73	15.255	776.99	15.149	789.51	15.320	804.19	15.426	948.33	15.259	813.89
15.190	606.22	15.235	776.71	15.129	789.22	15.300	803.87	15.407	948.23	15.239	813.61
15.170	605.70	15.215	776.47	15.109	788.88	15.280	803.60	15.388	948.08	15.219	813.31
15.150	605.28	15.194	776.20	15.089	788.61	15.260	803.42	15.368	947.97	15.199	813.06
15.130	604.79	15.174	775.90	15.069	788.31	15.240	803.14	15.349	947.90	15.179	812.84
15.110	604.30	15.154	775.64	15.050	788.07	15.220	802.86	15.330	947.80	15.159	812.54
15.090	603.80	15.134	775.38	15.030	787.77	15.200	802.57	15.310	947.66	15.139	812.28
15.070	603.33	15.114	775.10	15.010	787.43	15.180	802.32	15.291	947.50	15.119	812.00
15.050	602.88	15.094	774.77	14.990	787.17	15.159	802.07	15.272	947.43	15.099	811.76
15.030	602.33	15.074	774.54	14.970	786.88	15.139	801.77	15.252	947.28	15.079	811.50
15.010	601.85	15.054	774.24	14.950	786.59	15.119	801.53	15.233	947.18	15.059	811.27
14.990	601.32	15.034	773.96	14.930	786.31	15.099	801.26	15.214	947.05	15.039	811.02
14.970	600.84	15.014	773.66	14.910	786.02	15.079	800.98	15.194	946.91	15.019	810.74
14.950	600.33	14.994	773.36	14.890	785.71	15.059	800.67	15.175	946.85	14.999	810.51
14.930	599.80	14.974	773.04	14.870	785.44	15.039	800.46	15.156	946.69	14.979	810.22
14.910	599.28	14.954	772.78	14.851	785.15	15.018	800.21	15.136	946.63	14.959	809.96
14.890	598.80	14.934	772.45	14.831	784.82	14.998	799.93	15.117	946.48	14.939	809.72
14.870	598.28	14.913	772.13	14.811	784.56	14.978	799.63	15.098	946.40	14.919	809.47
14.850	597.74	14.893	771.85	14.791	784.30	14.958	799.32	15.078	946.26	14.899	809.15
14.830	597.21	14.873	771.56	14.771	784.00	14.938	799.11	15.059	946.14	14.879	808.93
14.810	596.74	14.853	771.24	14.751	783.62	14.918	798.80	15.039	946.01	14.859	808.62
14.790	596.19	14.833	770.91	14.731	783.41	14.898	798.55	15.020	945.91	14.839	808.37
14.770	595.69	14.813	770.66	14.711	783.06	14.878	798.26	15.001	945.83	14.819	808.07

14.750	595.18	14.793	770.37	14.691	782.75	14.857	797.98	14.981	945.72	14.799	807.86
14.730	594.67	14.773	770.00	14.672	782.46	14.837	797.69	14.962	945.55	14.779	807.60
14.710	594.10	14.753	769.77	14.652	782.16	14.817	797.45	14.943	945.42	14.759	807.29
14.690	593.57	14.733	769.42	14.632	781.86	14.797	797.13	14.923	945.34	14.739	807.03
14.670	593.05	14.713	769.17	14.612	781.59	14.777	796.85	14.904	945.21	14.719	806.73
14.650	592.51	14.693	768.85	14.592	781.26	14.757	796.56	14.885	945.10	14.699	806.50
14.630	591.97	14.673	768.50	14.572	780.98	14.737	796.28	14.865	945.00	14.679	806.24
14.610	591.45	14.653	768.21	14.552	780.73	14.717	796.03	14.846	944.89	14.659	805.97
14.590	590.84	14.632	767.90	14.532	780.34	14.696	795.74	14.827	944.73	14.639	805.68
14.570	590.32	14.612	767.55	14.512	780.06	14.676	795.46	14.807	944.60	14.619	805.38
14.550	589.75	14.592	767.24	14.492	779.70	14.656	795.17	14.788	944.52	14.599	805.14
14.530	589.21	14.572	766.95	14.473	779.37	14.636	794.90	14.769	944.43	14.579	804.89
14.510	588.64	14.552	766.62	14.453	779.03	14.616	794.60	14.749	944.29	14.559	804.57
14.490	588.08	14.532	766.30	14.433	778.73	14.596	794.33	14.730	944.16	14.539	804.28
14.470	587.56	14.512	765.96	14.413	778.40	14.576	794.03	14.711	944.08	14.519	804.08
14.450	586.99	14.492	765.70	14.393	778.06	14.556	793.72	14.691	943.92	14.499	803.72
14.430	586.46	14.472	765.33	14.373	777.75	14.535	793.47	14.672	943.80	14.479	803.49
14.410	585.83	14.452	765.01	14.353	777.44	14.515	793.20	14.653	943.68	14.459	803.23
14.390	585.28	14.432	764.65	14.333	777.13	14.495	792.81	14.633	943.60	14.439	802.91
14.370	584.72	14.412	764.33	14.313	776.85	14.475	792.57	14.614	943.46	14.419	802.60
14.350	584.16	14.392	764.05	14.294	776.53	14.455	792.27	14.595	943.33	14.399	802.33
14.330	583.59	14.372	763.70	14.274	776.30	14.435	791.96	14.575	943.19	14.379	802.06
14.310	583.04	14.352	763.40	14.254	775.98	14.415	791.69	14.556	943.11	14.359	801.81
14.290	582.44	14.331	763.04	14.234	775.62	14.395	791.38	14.537	942.97	14.339	801.55
14.270	581.80	14.311	762.78	14.214	774.96	14.374	791.17	14.517	942.86	14.319	801.21
14.250	581.31	14.291	762.50	14.194	774.62	14.354	790.86	14.498	942.72	14.299	800.93
14.230	580.69	14.271	762.20	14.174	774.32	14.334	790.49	14.479	942.64	14.279	800.64
14.210	580.10	14.251	761.92	14.154	774.08	14.314	790.25	14.459	942.48	14.259	800.36
14.190	579.53	14.231	761.59	14.134	773.83	14.294	789.93	14.440	942.40	14.239	800.07
14.170	578.93	14.211	761.27	14.114	773.51	14.274	789.61	14.421	942.23	14.219	799.79
14.150	578.35	14.191	761.01	14.095	773.26	14.254	789.33	14.401	942.15	14.199	799.53
14.130	577.73	14.171	760.65	14.075	773.01	14.233	789.05	14.382	942.04	14.179	799.22
14.110	577.13	14.151	760.31	14.055	772.69	14.213	788.76	14.363	941.92	14.159	798.87
14.090	576.59	14.131	760.01	14.035	772.37	14.193	788.42	14.343	941.81	14.139	798.69
14.070	575.99	14.111	759.74	14.015	772.09	14.173	788.12	14.324	941.66	14.119	798.40
14.050	575.41	14.091	759.38	13.995	771.80	14.153	787.80	14.305	941.58	14.099	798.14
14.030	574.80	14.071	759.04	13.975	771.45	14.133	787.56	14.285	941.39	14.079	797.82
14.010	574.25	14.050	758.71	13.955	771.13	14.113	787.23	14.266	941.28	14.059	797.57
13.990	573.61	14.030	758.33	13.935	770.90	14.093	786.90	14.247	941.17	14.039	797.24
13.970	573.05	14.010	758.05	13.916	770.50	14.072	786.58	14.227	941.08	14.019	796.97
13.950	572.36	13.990	757.70	13.896	770.17	14.052	786.30	14.208	940.93	13.999	796.70
13.930	571.79	13.970	757.29	13.876	769.68	14.032	785.98	14.189	940.81	13.979	796.38
13.910	571.12	13.950	756.95	13.856	769.41	14.012	785.65	14.169	940.68	13.959	796.08
13.890	570.60	13.930	756.64	13.836	769.09	13.992	785.35	14.150	940.60	13.939	795.83
13.870	569.92	13.910	756.31	13.816	768.75	13.972	785.05	14.131	940.48	13.919	795.50
13.850	569.28	13.890	755.91	13.796	768.48	13.952	784.72	14.111	940.35	13.899	795.24
13.830	568.61	13.870	755.53	13.776	768.12	13.932	784.42	14.092	940.18	13.879	794.93
13.810	567.99	13.850	755.21	13.756	767.82	13.911	784.09	14.073	940.07	13.859	794.63
13.790	567.38	13.830	754.82	13.736	767.49	13.891	783.74	14.053	939.95	13.839	794.31
13.769	566.71	13.810	754.39	13.717	767.16	13.871	783.40	14.034	939.87	13.819	794.04
13.749	566.09	13.790	754.01	13.697	766.75	13.851	783.11	14.014	939.72	13.799	793.73
13.729	565.43	13.770	753.66	13.677	766.43	13.831	782.74	13.995	939.56	13.779	793.40
13.709	564.76	13.749	753.18	13.657	766.10	13.811	782.49	13.976	939.48	13.759	793.08
13.689	564.10	13.729	752.87	13.637	765.81	13.791	782.14	13.956	939.38	13.739	792.79
13.669	563.44	13.709	752.44	13.617	765.56	13.771	781.82	13.937	939.22	13.719	792.51



13.649	562.78	13.689	752.03	13.597	765.22	13.750	781.50	13.918	939.11	13.699	792.18
13.629	562.09	13.669	751.55	13.577	765.02	13.730	781.18	13.898	938.99	13.679	791.85
13.609	561.49	13.649	751.16	13.557	764.75	13.710	780.84	13.879	938.91	13.659	791.52
13.589	560.79	13.629	750.78	13.538	764.43	13.690	780.49	13.860	938.79	13.639	791.23
13.569	560.06	13.609	750.53	13.518	764.07	13.670	780.20	13.840	938.62	13.619	790.89
13.549	559.43	13.589	750.22	13.498	763.82	13.650	779.84	13.821	938.48	13.599	790.61
13.529	558.73	13.569	749.93	13.478	763.45	13.630	779.48	13.802	938.36	13.579	790.26
13.509	558.00	13.549	749.60	13.458	763.15	13.610	779.13	13.782	938.25	13.559	789.94
13.489	557.31	13.529	749.32	13.438	762.81	13.589	778.83	13.763	938.16	13.539	789.59
13.469	556.58	13.509	748.96	13.418	762.46	13.569	778.45	13.744	938.02	13.519	789.34
13.449	555.81	13.489	748.67	13.398	762.11	13.549	778.16	13.724	937.86	13.499	788.98
13.429	555.11	13.468	748.26	13.378	761.78	13.529	777.82	13.705	937.77	13.479	788.67
13.409	554.42	13.448	747.90	13.358	761.45	13.509	777.46	13.686	937.64	13.459	788.34
13.389	553.65	13.428	747.56	13.339	761.13	13.489	777.10	13.666	937.50	13.439	787.98
13.369	552.93	13.408	747.21	13.319	760.72	13.469	776.74	13.647	937.36	13.419	787.64
13.349	552.20	13.388	746.92	13.299	760.38	13.448	776.40	13.628	937.27	13.399	787.36
13.329	551.47	13.368	746.51	13.279	759.88	13.428	776.08	13.608	937.18	13.379	787.02
13.309	550.73	13.348	746.20	13.259	759.50	13.408	775.78	13.589	937.06	13.359	786.65
13.289	549.92	13.328	745.80	13.239	759.06	13.388	775.44	13.570	936.91	13.339	786.38
13.269	549.26	13.308	745.36	13.219	758.71	13.368	775.06	13.550	936.77	13.319	786.02
13.249	548.40	13.288	745.03	13.199	758.29	13.348	774.68	13.531	936.66	13.299	785.67
13.229	547.69	13.268	744.66	13.179	757.86	13.328	774.31	13.512	936.52	13.279	785.37
13.209	546.92	13.248	744.30	13.160	757.68	13.308	773.99	13.492	936.41	13.259	785.08
13.189	546.05	13.228	743.87	13.140	757.45	13.287	773.62	13.473	936.30	13.239	784.72
13.169	545.31	13.208	743.50	13.120	757.16	13.267	773.24	13.454	936.18	13.219	784.34
13.149	544.54	13.187	743.06	13.100	756.87	13.247	772.91	13.434	936.03	13.199	784.03
13.129	543.76	13.167	742.62	13.080	756.56	13.227	772.56	13.415	935.91	13.179	783.64
13.109	542.95	13.147	742.11	13.060	756.19	13.207	772.24	13.396	935.78	13.159	783.35
13.089	542.20	13.127	741.65	13.040	755.81	13.187	771.93	13.376	935.64	13.139	783.00
13.069	541.37	13.107	741.17	13.020	755.41	13.167	771.48	13.357	935.54	13.119	782.63
13.049	540.53	13.087	740.73	13.000	755.06	13.147	771.16	13.338	935.38	13.099	782.37
13.029	539.79	13.067	740.25	12.980	754.78	13.126	770.78	13.318	935.29	13.079	782.01
13.009	538.96	13.047	739.83	12.961	754.44	13.106	770.43	13.299	935.13	13.059	781.62
12.989	538.23	13.027	739.40	12.941	754.02	13.086	770.07	13.280	935.05	13.039	781.31
12.969	537.41	13.007	738.91	12.921	753.67	13.066	769.70	13.260	934.89	13.019	781.01
12.949	536.48	12.987	738.39	12.901	753.31	13.046	769.32	13.241	934.78	12.999	780.62
12.929	535.66	12.967	737.91	12.881	752.94	13.026	769.00	13.222	934.66	12.979	780.30
12.909	534.84	12.947	737.40	12.861	752.61	13.006	768.58	13.202	934.54	12.959	779.92
12.889	533.99	12.927	736.82	12.841	752.23	12.986	768.17	13.183	934.39	12.939	779.58
12.869	533.11	12.907	736.40	12.821	751.87	12.965	767.84	13.164	934.24	12.919	779.27
12.849	532.29	12.886	736.18	12.801	751.50	12.945	767.44	13.144	934.17	12.899	778.84
12.829	531.47	12.866	735.89	12.782	751.12	12.925	767.09	13.125	933.97	12.879	778.53
12.809	530.64	12.846	735.47	12.762	750.65	12.905	766.72	13.106	933.90	12.859	778.20
12.789	529.76	12.826	735.17	12.742	750.26	12.885	766.31	13.086	933.75	12.839	777.87
12.769	528.86	12.806	734.85	12.722	749.81	12.865	765.93	13.067	933.64	12.819	777.56
12.749	528.01	12.786	734.42	12.702	749.38	12.845	765.50	13.047	933.53	12.799	777.27
12.729	527.10	12.766	734.01	12.682	748.96	12.825	765.17	13.028	933.42	12.779	776.87
12.709	526.22	12.746	733.62	12.662	748.49	12.804	764.78	13.009	933.31	12.759	776.57
12.689	525.39	12.726	733.20	12.642	748.01	12.784	764.39	12.989	933.18	12.739	776.22
12.669	524.43	12.706	732.79	12.622	747.56	12.764	763.96	12.970	933.07	12.719	775.85
12.649	523.52	12.686	732.38	12.602	747.06	12.744	763.60	12.951	932.95	12.699	775.49
12.629	522.61	12.666	732.01	12.583	746.56	12.724	763.23	12.931	932.83	12.679	775.20
12.609	521.67	12.646	731.59	12.563	746.16	12.704	762.82	12.912	932.72	12.659	774.82
12.589	520.78	12.626	731.22	12.543	745.67	12.684	762.43	12.893	932.61	12.639	774.53
12.569	519.75	12.605	730.88	12.523	745.23	12.663	762.00	12.873	932.49	12.619	774.13

12.549	518.86	12.585	730.45	12.503	744.82	12.643	761.64	12.854	932.37	12.599	773.80
12.529	517.90	12.565	729.99	12.483	744.37	12.623	761.22	12.835	932.19	12.579	773.44
12.509	516.98	12.545	729.52	12.463	743.87	12.603	760.77	12.815	932.04	12.559	773.09
12.489	515.98	12.525	729.04	12.443	743.39	12.583	760.37	12.796	931.92	12.539	772.75
12.469	515.04	12.505	728.82	12.423	742.94	12.563	760.01	12.777	931.81	12.519	772.40
12.449	513.99	12.485	728.33	12.404	742.46	12.543	759.59	12.757	931.68	12.499	772.02
12.429	513.02	12.465	728.00	12.384	742.00	12.523	759.21	12.738	931.56	12.479	771.66
12.409	512.08	12.445	727.54	12.364	741.79	12.502	758.82	12.719	931.43	12.459	771.30
12.389	511.08	12.425	727.09	12.344	741.48	12.482	758.34	12.699	931.30	12.439	770.95
12.369	510.06	12.405	726.77	12.324	741.16	12.462	757.97	12.680	931.17	12.419	770.60
12.349	509.09	12.385	726.25	12.304	740.70	12.442	757.60	12.661	931.05	12.399	770.21
12.329	508.05	12.365	725.76	12.284	740.19	12.422	757.13	12.641	930.93	12.379	769.86
12.309	507.10	12.345	725.29	12.264	739.80	12.402	756.74	12.622	930.81	12.360	769.47
12.289	506.08	12.325	724.70	12.244	739.33	12.382	756.33	12.603	930.69	12.340	769.11
12.268	505.06	12.304	724.18	12.224	738.87	12.362	755.89	12.583	930.56	12.320	768.72
12.248	504.04	12.284	723.60	12.205	738.35	12.341	755.47	12.564	930.45	12.300	768.31
12.228	502.97	12.264	723.02	12.185	738.02	12.321	755.10	12.545	930.33	12.280	767.93
12.208	501.88	12.244	722.33	12.165	737.73	12.301	754.62	12.525	930.21	12.260	767.56
12.188	500.89	12.224	721.61	12.145	737.32	12.281	754.19	12.506	930.04	12.240	767.22
12.168	499.77	12.204	721.19	12.125	736.76	12.261	753.76	12.487	929.91	12.220	766.75
12.148	498.72	12.184	720.81	12.105	736.38	12.241	753.36	12.467	929.75	12.200	766.47
12.128	497.70	12.164	720.31	12.085	735.91	12.221	752.96	12.448	929.62	12.180	766.07
12.108	496.61	12.144	719.74	12.065	735.41	12.201	752.50	12.429	929.50	12.160	765.65
12.088	495.62	12.124	719.31	12.045	734.87	12.180	752.06	12.409	929.37	12.140	765.29
12.068	494.49	12.104	718.80	12.026	734.64	12.160	751.62	12.390	929.24	12.120	764.87
12.048	493.41	12.084	718.23	12.006	734.33	12.140	751.19	12.371	929.12	12.100	764.46
12.028	492.27	12.064	717.68	11.986	733.80	12.120	750.76	12.351	928.99	12.080	764.02
12.008	491.26	12.044	717.15	11.966	733.33	12.100	750.32	12.332	928.87	12.060	763.60
11.988	490.12	12.023	716.67	11.946	732.93	12.080	749.88	12.313	928.73	12.040	763.24
11.968	488.94	12.003	716.27	11.926	732.45	12.060	749.42	12.293	928.60	12.020	762.87
11.948	487.85	11.983	715.74	11.906	731.97	12.040	748.98	12.274	928.47	12.000	762.45
11.928	486.75	11.963	714.89	11.886	731.41	12.019	748.54	12.255	928.34	11.980	762.04
11.908	485.52	11.943	713.97	11.866	730.91	11.999	748.08	12.235	928.21	11.960	761.60
11.888	484.28	11.923	713.39	11.846	730.57	11.979	747.63	12.216	928.08	11.940	761.18
11.868	483.05	11.903	712.82	11.827	730.13	11.959	747.18	12.197	927.95	11.920	760.79
11.848	481.81	11.883	712.34	11.807	729.60	11.939	746.73	12.177	927.81	11.900	760.36
11.828	480.58	11.863	711.78	11.787	729.16	11.919	746.29	12.158	927.67	11.880	759.92
11.808	479.25	11.843	711.28	11.767	728.71	11.899	745.77	12.139	927.54	11.860	759.51
11.788	477.95	11.823	710.71	11.747	728.34	11.878	745.31	12.119	927.40	11.840	759.10
11.768	476.71	11.803	710.22	11.727	727.75	11.858	744.81	12.100	927.26	11.820	758.62
11.748	475.34	11.783	709.65	11.707	727.61	11.838	744.35	12.081	927.14	11.800	758.18
11.728	474.08	11.763	709.08	11.687	726.97	11.818	743.92	12.061	927.01	11.780	757.81
11.708	472.79	11.742	708.51	11.667	726.40	11.798	743.38	12.042	926.87	11.760	757.32
11.688	471.57	11.722	707.86	11.648	725.97	11.778	742.96	12.022	926.73	11.740	756.86
11.668	470.27	11.702	707.37	11.628	725.66	11.758	742.45	12.003	926.60	11.720	756.45
11.648	469.07	11.682	706.76	11.608	725.12	11.738	741.97	11.984	926.46	11.700	755.99
11.628	467.72	11.662	706.15	11.588	724.39	11.717	741.47	11.964	926.32	11.680	755.53
11.608	466.42	11.642	705.67	11.568	724.00	11.697	740.94	11.945	926.19	11.660	755.17
11.588	465.12	11.622	705.10	11.548	723.59	11.677	740.48	11.926	926.06	11.640	754.68
11.568	463.86	11.602	704.53	11.528	723.23	11.657	739.97	11.906	925.91	11.620	754.28
11.548	462.57	11.582	703.88	11.508	722.62	11.637	739.45	11.887	925.78	11.600	753.76
11.528	461.32	11.562	703.31	11.488	721.93	11.617	739.03	11.868	925.58	11.580	753.31
11.508	460.01	11.542	702.80	11.468	721.52	11.597	738.48	11.848	925.52	11.560	752.82
11.488	458.83	11.522	702.18	11.449	721.12	11.577	738.01	11.829	925.38	11.540	752.35
11.468	457.59	11.502	701.60	11.429	720.50	11.556	737.49	11.810	925.25	11.520	751.88

11.448	456.39	11.482	701.02	11.409	719.87	11.536	736.99	11.790	925.03	11.500	751.38
11.428	455.10	11.462	700.30	11.389	719.33	11.516	736.52	11.771	924.95	11.480	750.89
11.408	453.74	11.441	699.73	11.369	718.76	11.496	736.04	11.752	924.75	11.460	750.53
11.388	452.42	11.421	699.04	11.349	718.36	11.476	735.54	11.732	924.68	11.440	749.96
11.368	451.10	11.401	698.35	11.329	717.66	11.456	735.01	11.713	924.51	11.420	749.56
11.348	449.78	11.381	697.70	11.309	717.14	11.436	734.50	11.694	924.34	11.400	748.95
11.328	448.48	11.361	697.13	11.289	716.60	11.416	734.06	11.674	924.21	11.380	748.54
11.308	447.10	11.341	696.56	11.269	715.96	11.395	733.63	11.655	924.08	11.360	748.10
11.288	445.78	11.321	695.91	11.250	715.45	11.375	733.07	11.636	923.93	11.340	747.56
11.268	444.42	11.301	695.26	11.230	714.79	11.355	732.60	11.616	923.81	11.320	747.11
11.248	443.00	11.281	694.61	11.210	714.39	11.335	732.10	11.597	923.68	11.300	746.57
11.228	441.52	11.261	693.87	11.190	713.63	11.315	731.57	11.578	923.55	11.280	746.07
11.208	440.11	11.241	693.27	11.170	712.97	11.295	731.03	11.558	923.38	11.260	745.57
11.188	438.66	11.221	692.65	11.150	712.38	11.275	730.52	11.539	923.29	11.240	745.10
11.168	437.30	11.201	692.00	11.130	711.90	11.255	730.05	11.520	923.07	11.220	744.49
11.148	435.77	11.181	691.35	11.110	711.27	11.234	729.52	11.500	922.94	11.200	744.02
11.128	434.37	11.160	690.62	11.090	710.78	11.214	728.97	11.481	922.82	11.180	743.43
11.108	432.90	11.140	689.89	11.071	710.06	11.194	728.41	11.462	922.68	11.160	743.00
11.088	431.49	11.120	689.24	11.051	709.39	11.174	727.86	11.442	922.54	11.140	742.46
11.068	429.98	11.100	688.55	11.031	709.02	11.154	727.36	11.423	922.41	11.120	741.98
11.048	428.51	11.080	687.86	11.011	708.20	11.134	726.75	11.404	922.28	11.100	741.39
11.028	427.00	11.060	687.29	10.991	707.55	11.114	726.19	11.384	922.14	11.080	740.85
11.008	425.48	11.040	686.56	10.971	706.98	11.093	725.61	11.365	922.00	11.060	740.35
10.988	423.91	11.020	685.96	10.951	706.37	11.073	725.08	11.346	921.87	11.040	739.78
10.968	422.47	11.000	685.86	10.931	705.65	11.053	724.51	11.326	921.72	11.020	739.30
10.948	421.00	10.980	685.31	10.911	705.04	11.033	723.91	11.307	921.59	11.000	738.75
10.928	419.47	10.960	684.63	10.891	704.34	11.013	723.31	11.288	921.46	10.980	738.15
10.908	417.95	10.940	683.98	10.872	703.76	10.993	722.77	11.268	921.31	10.960	737.62
10.888	416.37	10.920	683.66	10.852	703.03	10.973	722.12	11.249	921.10	10.940	737.09
10.868	414.82	10.900	682.83	10.832	702.55	10.953	721.52	11.230	920.95	10.920	736.48
10.848	413.29	10.880	682.35	10.812	701.67	10.932	720.88	11.210	920.82	10.900	735.89
10.828	411.76	10.859	681.75	10.792	700.93	10.912	720.25	11.191	920.66	10.880	735.42
10.808	410.26	10.839	681.15	10.772	700.29	10.892	719.67	11.172	920.52	10.860	734.84
10.788	408.74	10.819	680.62	10.752	699.59	10.872	719.01	11.152	920.38	10.840	734.24
10.767	407.13	10.799	679.89	10.732	698.95	10.852	718.45	11.133	920.22	10.820	733.71
10.747	405.48	10.779	679.17	10.712	698.11	10.832	717.76	11.114	920.08	10.800	733.08
10.727	403.95	10.759	678.50	10.693	697.47	10.812	717.12	11.094	919.93	10.780	732.51
10.707	402.34	10.739	677.72	10.673	696.73	10.792	716.53	11.075	919.81	10.760	731.85
10.687	400.73	10.719	676.99	10.653	696.03	10.771	715.88	11.056	919.67	10.740	731.35
10.667	399.13	10.699	676.27	10.633	695.26	10.751	715.19	11.036	919.53	10.720	730.80
10.647	397.43	10.679	675.50	10.613	694.40	10.731	714.54	11.017	919.34	10.700	730.10
10.627	395.83	10.659	674.71	10.593	693.71	10.711	713.89	10.997	919.23	10.680	729.57
10.607	394.18	10.639	673.95	10.573	692.95	10.691	713.19	10.978	919.11	10.660	729.00
10.587	392.57	10.619	673.04	10.553	692.25	10.671	711.81	10.959	918.87	10.640	728.38
10.567	390.99	10.599	672.33	10.533	691.49	10.651	712.04	10.939	918.79	10.620	727.77
10.547	389.21	10.578	671.43	10.513	690.72	10.631	710.73	10.920	918.59	10.600	727.20
10.527	387.61	10.558	670.50	10.494	690.08	10.610	710.17	10.901	918.50	10.580	726.61
10.507	385.95	10.538	669.63	10.474	689.34	10.590	709.63	10.881	918.35	10.560	725.91
10.487	384.26	10.518	668.59	10.454	688.44	10.570	709.21	10.862	918.19	10.540	725.31
10.467	382.61	10.498	667.57	10.434	687.65	10.550	708.49	10.843	918.04	10.520	724.66
10.447	381.00	10.478	666.54	10.414	686.84	10.530	708.15	10.823	917.86	10.500	723.96
10.427	379.23	10.458	665.55	10.394	686.08	10.510	707.59	10.804	917.72	10.480	723.45
10.407	377.64	10.438	664.49	10.374	685.09	10.490	706.94	10.785	917.55	10.460	722.72
10.387	375.94	10.418	663.35	10.354	684.31	10.470	706.39	10.765	917.40	10.440	722.03
10.367	374.38	10.398	662.26	10.334	683.46	10.449	705.82	10.746	917.30	10.420	721.42

10.347	372.62	10.378	661.06	10.315	682.64	10.429	705.29	10.727	917.07	10.400	720.75
10.327	370.97	10.358	659.90	10.295	681.63	10.409	704.72	10.707	916.98	10.380	720.01
10.307	369.39	10.338	658.84	10.275	680.93	10.389	704.11	10.688	916.81	10.360	719.44
10.287	367.65	10.318	657.83	10.255	680.08	10.369	703.44	10.669	916.65	10.340	718.75
10.267	366.00	10.297	656.73	10.235	679.10	10.349	702.79	10.649	916.49	10.320	718.05
10.247	364.24	10.277	655.56	10.215	678.20	10.329	702.09	10.630	916.33	10.300	717.35
10.227	362.60	10.257	654.51	10.195	677.13	10.308	701.42	10.611	916.20	10.280	716.64
10.207	360.89	10.237	653.33	10.175	676.10	10.288	700.61	10.591	916.01	10.260	715.90
10.187	359.21	10.217	652.19	10.155	675.22	10.268	699.89	10.572	915.89	10.240	715.25
10.167	357.55	10.197	651.05	10.135	674.39	10.248	699.26	10.553	915.72	10.220	714.58
10.147	355.83	10.177	650.20	10.116	673.29	10.228	698.58	10.533	915.55	10.200	713.80
10.127	354.10	10.157	649.63	10.096	672.27	10.208	697.85	10.514	915.45	10.180	713.06
10.107	352.43	10.137	649.12	10.076	671.23	10.188	697.16	10.495	915.28	10.160	712.33
10.087	350.65	10.117	648.10	10.056	670.26	10.168	696.47	10.475	915.11	10.140	711.57
10.067	349.06	10.097	647.16	10.036	669.16	10.147	695.72	10.456	914.94	10.120	710.88
10.047	347.35	10.077	646.44	10.016	668.11	10.127	694.91	10.437	914.76	10.100	710.06
10.027	345.71	10.057	645.55	9.996	666.60	10.107	694.26	10.417	914.62	10.080	709.32
10.007	344.08	10.037	644.50	9.976	665.65	10.087	693.51	10.398	914.49	10.060	708.51
9.987	342.33	10.017	643.54	9.956	664.57	10.067	692.78	10.379	914.32	10.040	707.81
9.967	340.67	9.996	642.56	9.937	663.51	10.047	692.01	10.359	914.15	10.020	706.91
9.947	338.95	9.976	641.56	9.917	662.42	10.027	691.26	10.340	913.98	10.000	706.14
9.927	337.34	9.956	640.48	9.897	661.33	10.007	690.54	10.321	913.87	9.980	705.37
9.907	335.70	9.936	639.26	9.877	660.20	9.986	689.68	10.301	913.71	9.960	704.56
9.887	334.02	9.916	638.09	9.857	658.95	9.966	688.93	10.282	913.52	9.940	703.75
9.867	332.35	9.896	637.08	9.837	657.69	9.946	688.04	10.263	913.39	9.920	702.96
9.847	330.76	9.876	635.84	9.817	656.52	9.926	687.36	10.243	913.24	9.900	702.09
9.827	329.07	9.856	634.40	9.797	655.38	9.906	686.52	10.224	913.07	9.880	701.30
9.807	327.40	9.836	633.20	9.777	654.17	9.886	685.70	10.205	912.87	9.860	700.46
9.787	325.77	9.816	631.87	9.757	653.08	9.866	684.73	10.185	912.77	9.840	699.57
9.767	324.22	9.796	630.64	9.738	652.02	9.846	683.94	10.166	912.56	9.820	698.71
9.747	322.56	9.776	629.32	9.718	650.73	9.825	683.14	10.147	912.41	9.800	697.78
9.727	320.91	9.756	627.87	9.698	649.45	9.805	682.32	10.127	912.28	9.780	696.86
9.707	319.28	9.736	626.59	9.678	648.26	9.785	681.43	10.108	912.07	9.760	696.00
9.687	317.66	9.715	625.35	9.658	646.85	9.765	680.48	10.089	911.96	9.740	695.18
9.667	316.04	9.695	623.86	9.638	645.58	9.745	679.45	10.069	911.77	9.720	694.12
9.647	314.51	9.675	622.53	9.618	644.24	9.725	678.71	10.050	911.65	9.700	693.20
9.627	312.85	9.655	621.11	9.598	643.05	9.705	677.65	10.031	911.45	9.680	692.28
9.607	311.21	9.635	619.57	9.578	641.50	9.685	676.75	10.011	911.31	9.660	691.36
9.587	309.67	9.615	618.12	9.559	640.21	9.664	675.70	9.992	911.13	9.640	690.36
9.567	308.08	9.595	616.46	9.539	639.02	9.644	674.73	9.972	911.02	9.620	689.38
9.547	306.44	9.575	614.89	9.519	637.68	9.624	673.77	9.953	910.82	9.600	688.42
9.527	304.88	9.555	613.15	9.499	636.36	9.604	672.68	9.934	910.62	9.580	687.47
9.507	303.29	9.535	611.35	9.479	635.03	9.584	671.71	9.914	910.50	9.560	686.57
9.487	301.73	9.515	609.56	9.459	633.42	9.564	670.64	9.895	910.31	9.540	685.59
9.467	300.18	9.495	607.70	9.439	631.90	9.544	669.45	9.876	910.19	9.520	684.60
9.447	298.61	9.475	605.94	9.419	630.29	9.523	668.38	9.856	910.01	9.500	683.61
9.427	297.07	9.455	603.99	9.399	628.65	9.503	667.28	9.837	909.80	9.480	682.59
9.407	295.60	9.435	602.03	9.379	626.90	9.483	666.18	9.818	909.68	9.460	681.62
9.387	294.00	9.414	600.17	9.360	625.27	9.463	664.98	9.798	909.49	9.440	680.61
9.367	292.51	9.394	598.28	9.340	623.58	9.443	663.80	9.779	909.36	9.420	679.65
9.347	291.02	9.374	596.10	9.320	621.82	9.423	662.64	9.760	909.22	9.400	678.60
9.327	289.52	9.354	594.36	9.300	620.33	9.403	661.43	9.740	909.03	9.380	677.54
9.307	288.02	9.334	592.42	9.280	618.47	9.383	660.15	9.721	908.89	9.360	676.45
9.287	286.60	9.314	590.53	9.260	616.80	9.362	658.87	9.702	908.67	9.340	675.36
9.266	285.15	9.294	588.51	9.240	614.92	9.342	657.45	9.682	908.53	9.320	674.42

9.246	283.67	9.274	586.58	9.220	613.15	9.322	656.18	9.663	908.40	9.300	673.27
9.226	282.20	9.254	584.67	9.200	611.35	9.302	654.81	9.644	908.19	9.280	672.18
9.206	280.72	9.234	582.63	9.181	609.56	9.282	653.47	9.624	908.06	9.260	671.02
9.186	279.29	9.214	580.43	9.161	607.54	9.262	651.96	9.605	907.91	9.240	669.82
9.166	277.89	9.194	578.03	9.141	605.74	9.242	650.64	9.586	907.75	9.220	668.64
9.146	276.45	9.174	575.71	9.121	603.77	9.222	649.20	9.566	907.55	9.200	667.40
9.126	275.01	9.154	573.20	9.101	601.74	9.201	647.66	9.547	907.41	9.180	666.17
9.106	273.61	9.133	570.48	9.081	599.53	9.181	645.99	9.528	907.23	9.160	664.85
9.086	272.26	9.113	567.93	9.061	597.49	9.161	644.48	9.508	907.04	9.140	663.53
9.066	270.84	9.093	565.05	9.041	595.33	9.141	642.78	9.489	906.91	9.120	662.28
9.046	269.46	9.073	562.23	9.021	592.87	9.121	641.18	9.470	906.72	9.100	660.71
9.026	268.09	9.053	559.29	9.001	590.38	9.101	639.51	9.450	906.59	9.080	659.30
9.006	266.74	9.033	556.04	8.982	587.86	9.081	637.79	9.431	906.40	9.060	657.85
8.986	265.31	9.013	552.70	8.962	585.30	9.061	636.12	9.412	906.21	9.040	656.29
8.966	264.02	8.993	549.07	8.942	582.70	9.040	634.30	9.392	906.06	9.020	654.87
8.946	262.61	8.973	545.86	8.922	579.95	9.020	632.24	9.373	905.90	9.000	653.24
8.926	261.34	8.953	542.19	8.902	577.08	9.000	630.47	9.354	905.72	8.980	651.71
8.906	259.97	8.933	538.64	8.882	574.28	8.980	628.42	9.334	905.60	8.960	650.21
8.886	258.67	8.913	534.95	8.862	571.25	8.960	626.45	9.315	905.37	8.940	648.54
8.866	257.36	8.893	530.88	8.842	567.96	8.940	624.35	9.296	905.21	8.920	646.93
8.846	256.07	8.873	526.81	8.822	564.61	8.920	622.25	9.276	905.05	8.900	645.18
8.826	254.74	8.852	522.52	8.803	561.12	8.900	620.11	9.257	904.93	8.880	643.41
8.806	253.51	8.832	518.36	8.783	557.47	8.879	617.87	9.238	904.73	8.860	641.63
8.786	252.24	8.812	513.95	8.763	553.49	8.859	615.66	9.218	904.56	8.840	639.66
8.766	250.95	8.792	509.41	8.743	549.03	8.839	613.09	9.199	904.39	8.820	637.74
8.746	249.74	8.772	504.95	8.723	544.44	8.819	610.48	9.180	904.23	8.800	635.60
8.726	248.47	8.752	499.56	8.703	539.77	8.799	608.05	9.160	904.07	8.780	633.39
8.706	247.23	8.732	494.77	8.683	535.69	8.779	605.23	9.141	903.90	8.760	631.17
8.686	245.94	8.712	489.52	8.663	530.98	8.759	602.36	9.122	903.72	8.740	628.86
8.666	244.75	8.692	484.35	8.643	526.03	8.738	599.37	9.102	903.54	8.720	626.41
8.646	243.50	8.672	479.00	8.623	521.10	8.718	596.08	9.083	903.41	8.700	623.93
8.626	242.26	8.652	473.66	8.604	515.49	8.698	593.23	9.064	903.18	8.680	621.37
8.606	241.07	8.632	468.27	8.584	509.58	8.678	589.93	9.044	903.06	8.660	619.08
8.586	239.89	8.612	463.05	8.564	503.45	8.658	586.44	9.025	902.85	8.640	616.52
8.566	238.67	8.592	457.47	8.544	497.49	8.638	582.98	9.006	902.72	8.620	613.82
8.546	237.84	8.572	452.27	8.524	491.02	8.618	579.29	8.986	902.49	8.600	611.09
8.526	236.70	8.551	446.32	8.504	484.01	8.598	575.28	8.967	902.35	8.580	608.06
8.506	235.57	8.531	440.88	8.484	476.83	8.577	571.47	8.947	902.18	8.560	605.17
8.486	234.49	8.511	435.43	8.464	469.98	8.557	567.05	8.928	902.05	8.540	601.83
8.466	233.35	8.491	429.82	8.444	462.59	8.537	562.27	8.909	901.83	8.520	598.47
8.446	232.27	8.471	424.19	8.425	455.45	8.517	557.24	8.889	901.61	8.500	595.26
8.426	231.12	8.451	418.49	8.405	448.51	8.497	552.32	8.870	901.50	8.480	592.09
8.406	230.01	8.431	412.91	8.385	441.17	8.477	547.12	8.851	901.37	8.460	589.43
8.386	228.88	8.411	406.96	8.365	433.74	8.457	540.75	8.831	901.12	8.440	586.18
8.366	227.78	8.391	401.29	8.345	426.59	8.437	534.91	8.812	900.96	8.420	582.43
8.346	226.72	8.371	395.77	8.325	419.48	8.416	528.15	8.793	900.77	8.400	579.77
8.326	225.62	8.351	390.27	8.305	412.62	8.396	521.51	8.773	900.63	8.380	575.62
8.306	224.48	8.331	385.01	8.285	405.68	8.376	514.00	8.754	900.49	8.360	571.70
8.286	223.44	8.311	380.10	8.265	399.03	8.356	506.56	8.735	900.30	8.340	566.48
8.266	222.33	8.291	375.02	8.245	392.44	8.336	497.47	8.715	900.08	8.320	561.20
8.246	221.22	8.270	369.93	8.226	386.21	8.316	489.41	8.696	899.96	8.300	555.02
8.226	220.17	8.250	365.06	8.206	380.26	8.296	479.73	8.677	899.74	8.280	548.43
8.206	219.11	8.230	360.14	8.186	374.35	8.276	470.32	8.657	899.53	8.260	542.23
8.186	218.09	8.210	355.32	8.166	368.48	8.255	461.20	8.638	899.37	8.240	534.25
8.166	216.98	8.190	350.56	8.146	362.79	8.235	451.32	8.619	899.21	8.220	526.93

8.146	215.90	8.170	345.94	8.126	357.41	8.215	442.30	8.599	899.04	8.200	518.42
8.126	214.84	8.150	341.50	8.106	352.07	8.195	432.92	8.580	898.87	8.180	509.85
8.106	213.78	8.130	337.12	8.086	347.02	8.175	422.79	8.561	898.68	8.160	500.96
8.086	212.74	8.110	332.49	8.066	341.96	8.155	412.78	8.541	898.46	8.140	490.32
8.066	211.67	8.090	329.08	8.047	337.07	8.135	403.30	8.522	898.27	8.120	484.44
8.046	210.68	8.070	325.28	8.027	332.53	8.115	394.53	8.503	898.10	8.100	477.05
8.026	209.67	8.050	321.49	8.007	328.08	8.094	385.32	8.483	897.90	8.080	468.78
8.006	208.61	8.030	317.40	7.987	323.92	8.074	376.62	8.464	897.76	8.060	459.07
7.986	207.61	8.010	314.00	7.967	319.69	8.054	368.50	8.445	897.55	8.040	449.18
7.966	206.64	7.990	310.44	7.947	315.78	8.034	361.31	8.425	897.35	8.020	437.87
7.946	205.63	7.969	306.64	7.927	311.97	8.014	354.89	8.406	897.17	8.000	425.97
7.926	204.62	7.949	303.40	7.907	308.09	7.994	348.69	8.387	897.03	7.980	414.03
7.906	203.60	7.929	300.49	7.887	304.69	7.974	342.61	8.367	896.78	7.960	402.03
7.886	202.62	7.909	297.30	7.867	301.33	7.953	337.46	8.348	896.68	7.940	390.69
7.866	201.66	7.889	294.10	7.848	297.91	7.933	332.51	8.329	896.46	7.920	380.27
7.846	200.71	7.869	290.88	7.828	294.58	7.913	327.78	8.309	896.25	7.900	370.09
7.826	199.73	7.849	288.22	7.808	287.94	7.893	323.29	8.290	896.11	7.880	361.03
7.806	198.77	7.829	285.24	7.788	286.09	7.873	318.71	8.271	895.90	7.860	352.57
7.786	197.81	7.809	282.43	7.768	283.81	7.853	314.46	8.251	895.72	7.840	344.81
7.765	196.81	7.789	279.61	7.748	281.65	7.833	310.39	8.232	895.54	7.820	337.58
7.745	195.92	7.769	277.07	7.728	279.16	7.813	306.19	8.213	895.33	7.800	331.20
7.725	194.94	7.749	274.34	7.708	276.81	7.792	302.31	8.193	895.11	7.780	325.20
7.705	193.98	7.729	271.68	7.688	274.65	7.772	298.41	8.174	894.96	7.760	319.65
7.685	193.09	7.709	269.09	7.669	272.30	7.752	294.73	8.155	894.78	7.740	314.44
7.665	192.10	7.688	266.98	7.649	269.84	7.732	291.22	8.135	894.57	7.720	309.44
7.645	191.22	7.668	264.55	7.629	267.77	7.712	287.74	8.116	894.41	7.700	304.95
7.625	190.31	7.648	262.20	7.609	265.28	7.692	284.53	8.097	894.21	7.680	300.65
7.605	189.36	7.628	259.99	7.589	263.18	7.672	281.49	8.077	894.00	7.660	296.48
7.585	188.47	7.608	257.41	7.569	260.94	7.652	278.44	8.058	893.75	7.640	292.67
7.565	187.60	7.588	255.63	7.549	258.77	7.631	275.65	8.039	893.60	7.620	288.98
7.545	186.72	7.568	253.47	7.529	256.53	7.611	272.90	8.019	893.37	7.600	285.41
7.525	185.81	7.548	251.21	7.509	254.38	7.591	270.23	8.000	893.19	7.580	281.94
7.505	184.94	7.528	249.02	7.489	252.29	7.571	267.47	7.981	892.99	7.560	278.73
7.485	183.99	7.508	247.36	7.470	250.11	7.551	264.93	7.961	892.75	7.540	275.59
7.465	183.16	7.488	245.31	7.450	248.13	7.531	262.66	7.942	892.55	7.520	272.69
7.445	182.28	7.468	243.09	7.430	246.03	7.511	260.33	7.922	892.36	7.500	269.74
7.425	181.37	7.448	241.42	7.410	244.09	7.491	257.99	7.903	892.16	7.480	267.08
7.405	180.51	7.428	239.44	7.390	242.15	7.470	255.71	7.884	891.96	7.460	264.40
7.385	179.65	7.407	237.61	7.370	240.22	7.450	253.41	7.864	891.76	7.440	261.89
7.365	178.80	7.387	235.66	7.350	238.36	7.430	251.28	7.845	891.54	7.420	259.55
7.345	177.92	7.367	233.73	7.330	236.50	7.410	249.11	7.826	891.37	7.400	257.08
7.325	177.06	7.347	232.04	7.310	234.75	7.390	247.08	7.806	891.12	7.380	254.78
7.305	176.24	7.327	230.18	7.290	232.87	7.370	244.99	7.787	890.92	7.360	252.44
7.285	175.44	7.307	228.02	7.271	231.12	7.350	242.89	7.768	890.72	7.340	250.30
7.265	174.55	7.287	226.00	7.251	229.41	7.330	240.94	7.748	890.47	7.320	248.02
7.245	173.73	7.267	224.15	7.231	227.64	7.309	239.03	7.729	890.26	7.300	245.95
7.225	172.93	7.247	222.30	7.211	225.97	7.289	237.15	7.710	890.08	7.280	243.91
7.205	172.09	7.227	220.63	7.191	224.17	7.269	235.26	7.690	889.81	7.260	241.74
7.185	171.27	7.207	219.07	7.171	222.15	7.249	233.45	7.671	889.65	7.240	239.84
7.165	170.47	7.187	217.53	7.151	220.39	7.229	231.61	7.652	889.40	7.220	237.78
7.145	169.67	7.167	215.91	7.131	218.79	7.209	229.82	7.632	889.16	7.200	235.99
7.125	168.85	7.147	214.50	7.111	217.20	7.189	228.13	7.613	888.99	7.180	233.96
7.105	168.01	7.127	213.07	7.092	215.67	7.168	226.39	7.594	888.75	7.160	232.18
7.085	167.21	7.106	211.61	7.072	214.23	7.148	224.77	7.574	888.54	7.140	230.22
7.065	166.40	7.086	210.21	7.052	212.81	7.128	223.10	7.555	888.33	7.120	228.46

7.045	165.64	7.066	208.88	7.032	211.36	7.108	221.44	7.536	888.15	7.100	226.83
7.025	164.88	7.046	207.46	7.012	209.97	7.088	219.89	7.516	887.93	7.080	225.07
7.005	164.07	7.026	206.12	6.992	208.68	7.068	218.29	7.497	887.68	7.060	223.40
6.985	163.28	7.006	204.90	6.972	207.27	7.048	216.70	7.478	887.45	7.040	221.65
6.965	162.50	6.986	203.47	6.952	205.93	7.028	215.19	7.458	887.28	7.020	220.05
6.945	161.71	6.966	202.14	6.932	204.49	7.007	213.68	7.439	887.21	7.000	218.42
6.925	160.96	6.946	200.89	6.912	203.21	6.987	212.21	7.420	886.98	6.980	216.87
6.905	160.20	6.926	199.51	6.893	201.90	6.967	210.69	7.400	886.87	6.960	215.14
6.885	159.46	6.906	198.25	6.873	200.57	6.947	209.26	7.381	886.67	6.940	213.63
6.865	158.65	6.886	196.94	6.853	199.30	6.927	207.86	7.362	886.46	6.920	212.18
6.845	157.91	6.866	195.84	6.833	198.05	6.907	206.30	7.342	886.29	6.900	210.63
6.825	157.13	6.846	194.69	6.813	196.74	6.887	204.87	7.323	886.10	6.880	209.29
6.805	156.40	6.825	193.43	6.793	195.58	6.867	203.36	7.304	885.92	6.860	207.76
6.785	155.67	6.805	192.33	6.773	194.32	6.846	201.95	7.284	885.72	6.840	206.32
6.765	154.94	6.785	191.22	6.753	193.11	6.826	200.66	7.265	885.55	6.820	204.95
6.745	154.20	6.765	189.94	6.733	191.88	6.806	199.24	7.246	885.36	6.800	203.51
6.725	153.47	6.745	188.96	6.714	190.75	6.786	198.22	7.226	885.13	6.780	202.02
6.705	152.71	6.725	187.80	6.694	189.58	6.766	196.96	7.207	884.94	6.760	200.73
6.685	152.02	6.705	186.64	6.674	188.37	6.746	195.65	7.188	884.80	6.740	199.36
6.665	151.25	6.685	185.57	6.654	187.21	6.726	194.20	7.168	884.57	6.720	198.03
6.645	150.52	6.665	184.42	6.634	186.27	6.706	192.95	7.149	884.42	6.700	196.61
6.625	149.83	6.645	183.26	6.614	185.12	6.685	191.88	7.130	884.20	6.680	195.29
6.605	149.13	6.625	182.34	6.594	183.99	6.665	190.86	7.110	883.97	6.660	194.11
6.585	148.38	6.605	181.21	6.574	182.79	6.645	189.30	7.091	883.78	6.640	192.90
6.565	147.70	6.585	180.14	6.554	181.77	6.625	188.10	7.072	883.57	6.620	191.62
6.545	147.01	6.565	179.15	6.534	180.70	6.605	186.91	7.052	883.41	6.600	190.29
6.525	146.32	6.544	177.85	6.515	179.59	6.585	185.72	7.033	883.15	6.580	189.07
6.505	145.63	6.524	177.02	6.495	178.56	6.565	184.52	7.014	882.93	6.560	187.85
6.485	144.90	6.504	175.96	6.475	177.40	6.545	183.65	6.994	882.70	6.540	186.64
6.465	144.21	6.484	174.86	6.455	176.43	6.524	182.23	6.975	882.50	6.520	185.40
6.445	143.50	6.464	173.71	6.435	175.24	6.504	181.21	6.956	882.29	6.500	184.21
6.425	142.82	6.444	172.74	6.415	174.25	6.484	180.03	6.936	882.10	6.480	182.94
6.405	142.13	6.424	171.72	6.395	173.19	6.464	178.97	6.917	881.84	6.460	181.55
6.385	141.48	6.404	170.76	6.375	172.21	6.444	177.85	6.897	881.60	6.440	180.46
6.365	140.78	6.384	169.73	6.355	171.15	6.424	176.74	6.878	881.38	6.420	179.20
6.345	140.10	6.364	168.74	6.336	170.12	6.404	175.69	6.859	881.17	6.400	178.18
6.325	139.47	6.344	167.74	6.316	169.19	6.383	174.66	6.839	880.97	6.380	177.18
6.305	138.81	6.324	166.81	6.296	168.20	6.363	173.57	6.820	880.72	6.360	175.88
6.285	138.15	6.304	165.82	6.276	167.23	6.343	172.54	6.801	880.50	6.340	174.89
6.265	137.45	6.284	164.91	6.256	166.20	6.323	171.45	6.781	880.31	6.320	173.79
6.244	136.81	6.264	163.98	6.236	165.28	6.303	170.59	6.762	880.03	6.300	172.74
6.224	136.14	6.243	163.04	6.216	164.35	6.283	169.43	6.743	879.78	6.280	171.60
6.204	135.45	6.223	162.11	6.196	163.40	6.263	168.42	6.723	879.59	6.260	170.73
6.184	134.85	6.203	161.13	6.176	162.46	6.243	167.42	6.704	879.33	6.240	169.54
6.164	134.18	6.183	160.25	6.156	161.48	6.222	166.42	6.685	879.07	6.220	168.72
6.144	133.57	6.163	159.31	6.137	160.59	6.202	165.54	6.665	878.85	6.200	167.98
6.124	132.87	6.143	158.39	6.117	159.70	6.182	164.46	6.646	878.18	6.180	166.95
6.104	132.23	6.123	157.51	6.097	158.75	6.162	163.57	6.627	877.85	6.160	165.85
6.084	131.62	6.103	156.63	6.077	157.82	6.142	162.62	6.607	877.52	6.140	164.93
6.064	130.99	6.083	155.74	6.057	156.92	6.122	161.63	6.588	877.27	6.120	164.04
6.044	130.28	6.063	154.84	6.037	156.02	6.102	160.69	6.569	876.78	6.100	163.08
6.024	129.66	6.043	154.05	6.017	155.10	6.082	159.79	6.549	876.45	6.080	162.10
6.004	129.04	6.023	153.18	5.997	154.26	6.061	158.69	6.530	876.22	6.060	161.13
5.984	128.39	6.003	152.20	5.977	153.21	6.041	157.87	6.511	876.04	6.040	160.17
5.964	127.78	5.983	151.42	5.958	152.52	6.021	156.89	6.491	875.80	6.020	159.27

5.944	127.15	5.962	150.49	5.938	151.55	6.001	155.92	6.472	875.63	6.000	158.37
5.924	126.53	5.942	149.49	5.918	150.69	5.981	155.17	6.453	875.40	5.980	157.47
5.904	125.98	5.922	148.80	5.898	149.88	5.961	154.08	6.433	875.22	5.960	156.56
5.884	125.34	5.902	148.04	5.878	148.99	5.941	153.34	6.414	874.99	5.940	155.66
5.864	124.69	5.882	147.20	5.858	148.05	5.921	152.28	6.395	874.76	5.920	154.52
5.844	124.07	5.862	146.32	5.838	147.18	5.900	151.37	6.375	874.57	5.900	153.42
5.824	123.45	5.842	145.49	5.818	146.39	5.880	150.59	6.356	874.35	5.880	152.83
5.804	122.87	5.822	144.52	5.798	145.62	5.860	149.61	6.337	874.19	5.860	151.78
5.784	122.24	5.802	143.85	5.778	144.82	5.840	148.75	6.317	873.92	5.840	150.66
5.764	121.65	5.782	142.98	5.759	144.02	5.820	147.92	6.298	873.70	5.820	150.11
5.744	121.09	5.762	141.99	5.739	143.12	5.800	147.08	6.279	873.46	5.800	149.32
5.724	120.41	5.742	141.40	5.719	142.34	5.780	146.18	6.259	873.26	5.780	148.35
5.704	119.84	5.722	140.56	5.699	141.55	5.760	145.29	6.240	873.02	5.760	147.38
5.684	119.23	5.702	139.75	5.679	140.57	5.739	144.59	6.221	872.80	5.740	146.11
5.664	118.66	5.682	138.96	5.659	139.87	5.719	143.66	6.201	872.58	5.720	145.27
5.644	118.08	5.661	138.14	5.639	139.11	5.699	142.84	6.182	872.29	5.700	144.48
5.624	117.51	5.641	137.29	5.619	138.30	5.679	142.08	6.163	872.11	5.680	143.55
5.604	116.88	5.621	136.45	5.599	137.53	5.659	141.14	6.143	871.84	5.660	142.78
5.584	116.29	5.601	135.87	5.580	136.81	5.639	140.35	6.124	871.63	5.640	141.89
5.564	115.71	5.581	134.95	5.560	135.93	5.619	139.55	6.105	871.39	5.620	141.14
5.544	115.11	5.561	134.27	5.540	135.13	5.598	138.69	6.085	871.20	5.600	140.35
5.524	114.59	5.541	133.54	5.520	134.38	5.578	137.86	6.066	870.90	5.580	139.50
5.504	114.01	5.521	132.78	5.500	133.58	5.558	137.09	6.047	870.68	5.560	138.54
5.484	113.55	5.501	132.04	5.480	132.86	5.538	136.28	6.027	870.46	5.540	137.86
5.464	113.12	5.481	131.28	5.460	132.09	5.518	135.49	6.008	870.22	5.520	137.07
5.444	112.50	5.461	130.44	5.440	131.31	5.498	134.67	5.989	870.02	5.500	136.30
5.424	111.96	5.441	129.77	5.420	130.54	5.478	133.88	5.969	869.73	5.480	135.47
5.404	111.36	5.421	128.90	5.400	129.79	5.458	133.21	5.950	869.49	5.460	134.63
5.384	110.81	5.401	128.07	5.381	129.05	5.437	132.27	5.930	869.27	5.440	133.83
5.364	110.21	5.380	127.39	5.361	128.30	5.417	131.56	5.911	869.07	5.420	133.12
5.344	109.63	5.360	126.84	5.341	127.59	5.397	130.81	5.892	868.80	5.400	132.27
5.324	109.12	5.340	125.88	5.321	126.87	5.377	129.95	5.872	868.58	5.380	131.50
5.304	108.50	5.320	125.27	5.301	126.18	5.357	129.35	5.853	868.30	5.360	130.76
5.284	107.96	5.300	124.66	5.281	125.43	5.337	128.55	5.834	868.11	5.340	129.98
5.264	107.40	5.280	123.91	5.261	124.73	5.317	127.82	5.814	867.82	5.320	129.28
5.244	106.83	5.260	123.25	5.241	123.98	5.297	126.96	5.795	867.59	5.300	128.47
5.224	106.27	5.240	122.52	5.221	123.31	5.276	126.36	5.776	867.35	5.280	127.71
5.204	105.71	5.220	121.86	5.202	122.55	5.256	125.60	5.756	867.08	5.260	126.97
5.184	105.17	5.200	121.15	5.182	121.87	5.236	124.85	5.737	866.87	5.240	126.20
5.164	104.60	5.180	120.42	5.162	121.17	5.216	124.07	5.718	866.54	5.220	125.45
5.144	104.03	5.160	119.74	5.142	120.52	5.196	123.22	5.698	866.29	5.200	124.75
5.124	103.48	5.140	118.92	5.122	119.85	5.176	122.63	5.679	866.04	5.180	123.94
5.104	102.90	5.120	118.33	5.102	119.15	5.156	121.91	5.660	865.80	5.160	123.15
5.084	102.39	5.099	117.63	5.082	118.48	5.136	121.08	5.640	865.55	5.140	122.55
5.064	101.83	5.079	117.02	5.062	117.78	5.115	120.53	5.621	865.25	5.120	121.77
5.044	101.30	5.059	116.32	5.042	117.09	5.095	119.77	5.602	865.04	5.100	120.93
5.024	100.76	5.039	115.65	5.022	116.41	5.075	118.98	5.582	864.77	5.080	120.24
5.004	100.23	5.019	114.90	5.003	115.72	5.055	118.26	5.563	864.48	5.060	119.64
4.984	99.68	4.999	114.11	4.983	115.10	5.035	117.61	5.544	864.22	5.040	118.90
4.964	99.16	4.979	113.56	4.963	114.42	5.015	116.93	5.524	863.95	5.020	118.23
4.944	98.63	4.959	112.89	4.943	113.70	4.995	116.23	5.505	863.67	5.000	117.55
4.924	98.09	4.939	112.22	4.923	113.07	4.975	115.64	5.486	863.39	4.980	116.87
4.904	97.55	4.919	111.64	4.903	112.47	4.954	114.90	5.466	862.89	4.960	116.00
4.884	97.00	4.899	111.00	4.883	111.80	4.934	114.23	5.447	861.86	4.940	115.30
4.864	96.47	4.879	110.32	4.863	111.07	4.914	113.42	5.428	861.69	4.920	114.59



4.844	95.99	4.859	109.71	4.843	110.37	4.894	112.83	5.408	862.02	4.900	113.99
4.824	95.44	4.839	108.92	4.824	109.75	4.874	112.22	5.389	861.22	4.880	113.25
4.804	94.89	4.819	108.36	4.804	109.21	4.854	111.44	5.370	861.35	4.860	112.61
4.784	94.38	4.798	107.77	4.784	108.51	4.834	110.77	5.350	860.62	4.840	112.03
4.764	93.88	4.778	107.12	4.764	107.87	4.813	110.19	5.331	860.38	4.820	111.38
4.743	93.34	4.758	106.47	4.744	107.22	4.793	109.48	5.312	860.24	4.800	110.66
4.723	92.85	4.738	105.86	4.724	106.57	4.773	108.85	5.292	859.97	4.780	109.94
4.703	92.36	4.718	105.08	4.704	105.94	4.753	108.18	5.273	859.86	4.760	109.22
4.683	91.80	4.698	104.55	4.684	105.39	4.733	107.55	5.254	860.07	4.740	108.51
4.663	91.33	4.678	103.97	4.664	104.77	4.713	106.89	5.234	859.32	4.720	107.89
4.643	90.81	4.658	103.27	4.644	104.08	4.693	106.28	5.215	859.07	4.700	107.22
4.623	90.27	4.638	102.72	4.625	103.43	4.673	105.52	5.196	859.48	4.680	106.54
4.603	89.78	4.618	102.01	4.605	102.80	4.652	104.95	5.176	859.22	4.660	105.97
4.583	89.30	4.598	101.41	4.585	102.31	4.632	104.30	5.157	859.02	4.640	105.47
4.563	88.79	4.578	100.75	4.565	101.66	4.612	103.64	5.138	858.80	4.620	104.81
4.543	88.31	4.558	100.24	4.545	101.02	4.592	102.97	5.118	858.53	4.600	104.16
4.523	87.80	4.538	99.65	4.525	100.46	4.572	102.39	5.099	858.34	4.580	103.50
4.503	87.30	4.517	98.94	4.505	99.83	4.552	101.76	5.080	858.09	4.560	102.84
4.483	86.78	4.497	98.46	4.485	99.21	4.532	101.17	5.060	857.85	4.540	102.13
4.463	86.31	4.477	97.91	4.465	98.61	4.512	100.55	5.041	857.59	4.520	101.45
4.443	85.80	4.457	97.30	4.446	98.04	4.491	99.82	5.022	857.35	4.500	100.83
4.423	85.28	4.437	96.62	4.426	97.41	4.471	99.21	5.002	857.04	4.480	100.43
4.403	84.78	4.417	96.04	4.406	96.85	4.451	98.60	4.983	856.75	4.460	99.74
4.383	84.31	4.397	95.50	4.386	96.24	4.431	98.05	4.964	856.52	4.440	99.05
4.363	83.83	4.377	94.94	4.366	95.66	4.411	97.49	4.944	856.25	4.420	98.46
4.343	83.37	4.357	94.32	4.346	95.07	4.391	96.87	4.925	855.94	4.400	97.75
4.323	82.88	4.337	93.81	4.326	94.52	4.371	96.23	4.905	855.67	4.380	97.23
4.303	82.36	4.317	93.19	4.306	93.87	4.351	95.69	4.886	855.30	4.360	96.70
4.283	81.91	4.297	92.52	4.286	93.35	4.330	95.05	4.867	855.04	4.340	96.00
4.263	81.45	4.277	91.89	4.266	92.76	4.310	94.42	4.847	854.63	4.320	95.46
4.243	80.94	4.257	91.46	4.247	92.21	4.290	93.87	4.828	854.19	4.300	94.82
4.223	80.48	4.237	90.82	4.227	91.63	4.270	93.22	4.809	853.62	4.280	94.23
4.203	80.12	4.216	90.28	4.207	91.03	4.250	92.65	4.789	853.08	4.260	93.67
4.183	79.62	4.196	89.76	4.187	90.50	4.230	92.06	4.770	852.75	4.240	93.04
4.163	79.16	4.176	89.17	4.167	89.91	4.210	91.48	4.751	852.39	4.220	92.39
4.143	78.67	4.156	88.61	4.147	89.33	4.190	90.93	4.731	851.14	4.200	91.78
4.123	78.22	4.136	88.02	4.127	88.73	4.169	90.34	4.712	849.13	4.180	91.29
4.103	77.70	4.116	87.36	4.107	88.22	4.149	89.74	4.542	135.81	4.160	90.70
4.083	77.22	4.096	86.90	4.087	87.71	4.129	89.14	4.520	134.19	4.140	90.11
4.063	76.68	4.076	86.24	4.068	87.13	4.109	88.49	4.498	132.82	4.120	89.53
4.043	76.23	4.056	85.73	4.048	86.56	4.089	88.00	4.475	131.46	4.100	88.97
4.023	75.77	4.036	85.28	4.028	86.07	4.069	87.47	4.453	130.18	4.080	88.30
4.003	75.31	4.016	84.74	4.008	85.45	4.049	86.94	4.431	128.93	4.060	87.84
3.983	74.84	3.996	84.11	3.988	84.91	4.028	86.37	4.408	127.75	4.040	87.17
3.963	74.37	3.976	83.53	3.968	84.35	4.008	85.71	4.386	126.46	4.020	86.67
3.943	73.90	3.956	83.05	3.948	83.75	3.988	85.20	4.364	125.20	4.000	86.12
3.923	73.43	3.935	82.51	3.928	83.22	3.968	84.61	4.341	124.03	3.980	85.48
3.903	73.02	3.915	82.00	3.908	82.72	3.948	84.08	4.319	122.78	3.960	84.94
3.883	72.54	3.895	81.44	3.888	82.19	3.928	83.50	4.297	121.63	3.940	84.32
3.863	72.09	3.875	80.87	3.869	81.67	3.908	82.99	4.274	120.43	3.920	83.90
3.843	71.64	3.855	80.33	3.849	81.16	3.888	82.40	4.252	119.37	3.900	83.29
3.823	71.14	3.835	79.81	3.829	80.57	3.867	81.88	4.230	118.19	3.880	82.71
3.803	70.71	3.815	79.33	3.809	80.02	3.847	81.36	4.207	117.11	3.860	82.18
3.783	70.24	3.795	78.69	3.789	79.56	3.827	80.75	4.185	116.00	3.840	81.52
3.763	69.76	3.775	78.24	3.769	79.01	3.807	80.20	4.163	114.92	3.820	81.09

3.743	69.33	3.755	77.74	3.749	78.40	3.787	79.69	4.140	113.84	3.800	80.56
3.723	68.90	3.735	77.16	3.729	77.94	3.767	79.15	4.118	112.83	3.780	79.98
3.703	68.47	3.715	76.71	3.709	77.42	3.747	78.53	4.096	111.76	3.760	79.45
3.683	67.99	3.695	76.21	3.690	76.91	3.727	78.07	4.073	110.69	3.740	78.90
3.663	67.56	3.675	75.62	3.670	76.36	3.706	77.51	4.051	109.72	3.720	78.36
3.643	67.13	3.654	75.09	3.650	75.87	3.686	77.00	4.029	108.72	3.700	77.81
3.623	66.69	3.634	74.64	3.630	75.33	3.666	76.53	4.006	107.69	3.680	77.20
3.603	66.21	3.614	74.11	3.610	74.82	3.646	75.92	3.984	106.70	3.660	76.75
3.583	65.77	3.594	73.55	3.590	74.34	3.626	75.38	3.962	105.69	3.640	76.22
3.563	65.33	3.574	73.07	3.570	73.77	3.606	74.86	3.939	104.72	3.620	75.61
3.543	64.89	3.554	72.57	3.550	73.24	3.586	74.40	3.917	103.81	3.600	75.20
3.523	64.44	3.534	72.04	3.530	72.83	3.566	73.82	3.895	102.81	3.580	74.69
3.503	64.00	3.514	71.48	3.510	72.32	3.545	73.32	3.872	101.88	3.560	74.16
3.483	63.60	3.494	70.98	3.491	71.75	3.525	72.78	3.850	100.98	3.540	73.62
3.463	63.16	3.474	70.50	3.471	71.29	3.505	72.32	3.828	100.04	3.520	72.98
3.443	62.69	3.454	70.01	3.451	70.77	3.485	71.77	3.805	99.13	3.500	72.51
3.423	62.28	3.434	69.56	3.431	70.25	3.465	71.21	3.783	98.23	3.480	72.04
3.403	61.87	3.414	69.03	3.411	69.80	3.445	70.75	3.761	97.33	3.460	71.51
3.383	61.40	3.394	68.52	3.391	69.27	3.425	70.15	3.738	96.42	3.440	70.94
3.363	61.01	3.374	68.04	3.371	68.81	3.405	69.76	3.716	95.55	3.420	70.51
3.343	60.53	3.353	67.59	3.351	68.29	3.384	69.15	3.694	94.67	3.400	70.02
3.323	60.12	3.333	67.06	3.331	67.77	3.364	68.66	3.671	93.78	3.380	69.49
3.303	59.72	3.313	66.59	3.311	67.27	3.344	68.21	3.649	92.93	3.360	69.02
3.283	59.31	3.293	66.08	3.292	66.84	3.324	67.71	3.627	92.07	3.340	68.46
3.263	58.84	3.273	65.54	3.272	66.34	3.304	67.22	3.604	91.27	3.320	67.93
3.242	58.39	3.253	65.11	3.252	65.81	3.284	66.71	3.582	90.49	3.300	67.47
3.222	58.05	3.233	64.60	3.232	65.35	3.264	66.24	3.560	89.66	3.280	66.99
3.202	57.58	3.213	64.17	3.212	64.83	3.243	65.75	3.537	88.78	3.260	66.43
3.182	57.15	3.193	63.62	3.192	64.34	3.223	65.22	3.515	88.00	3.240	65.96
3.162	56.72	3.173	63.19	3.172	63.91	3.203	64.72	3.493	87.17	3.220	65.36
3.142	56.28	3.153	62.74	3.152	63.36	3.183	64.24	3.470	86.38	3.200	64.94
3.122	55.91	3.133	62.24	3.132	62.86	3.163	63.76	3.448	85.57	3.180	64.49
3.102	55.47	3.113	61.75	3.113	62.46	3.143	63.23	3.425	84.79	3.160	64.00
3.082	55.10	3.093	61.26	3.093	62.04	3.123	62.77	3.403	84.01	3.140	63.49
3.062	54.64	3.072	60.68	3.073	61.55	3.103	62.26	3.381	83.18	3.120	62.95
3.042	54.23	3.052	60.27	3.053	61.10	3.082	61.78	3.358	82.48	3.100	62.38
3.022	53.82	3.032	59.86	3.033	60.62	3.062	61.34	3.336	81.61	3.080	62.03
3.002	53.43	3.012	59.41	3.013	60.13	3.042	60.80	3.314	80.88	3.060	61.53
2.982	53.02	2.992	58.87	2.993	59.63	3.022	60.32	3.291	80.13	3.040	60.96
2.962	52.56	2.972	58.47	2.973	59.14	3.002	59.88	3.269	79.35	3.020	60.49
2.942	52.15	2.952	57.93	2.953	58.71	2.982	59.41	3.247	78.60	3.000	60.05
2.922	51.74	2.932	57.52	2.933	58.24	2.962	58.90	3.224	77.85	2.980	59.61
2.902	51.34	2.912	57.00	2.914	57.80	2.942	58.38	3.202	77.10	2.960	59.15
2.882	50.98	2.892	56.62	2.894	57.24	2.921	57.95	3.180	76.36	2.940	58.66
2.862	50.55	2.872	56.15	2.874	56.81	2.901	57.49	3.157	75.64	2.920	58.20
2.842	50.15	2.852	55.70	2.854	56.34	2.881	57.01	3.135	74.88	2.900	57.72
2.822	49.71	2.832	55.17	2.834	55.88	2.861	56.59	3.113	74.19	2.880	57.12
2.802	49.34	2.812	54.80	2.814	55.44	2.841	56.10	3.090	73.51	2.860	56.73
2.782	48.94	2.792	54.23	2.794	54.96	2.821	55.61	3.068	72.75	2.840	56.23
2.762	48.52	2.771	53.76	2.774	54.49	2.801	55.16	3.046	72.07	2.820	55.75
2.742	48.13	2.751	53.34	2.754	54.00	2.781	54.71	3.023	71.39	2.800	55.33
2.722	47.74	2.731	52.85	2.735	53.65	2.760	54.20	3.001	70.65	2.780	54.93
2.702	47.32	2.711	52.45	2.715	53.19	2.740	53.75	2.979	69.98	2.760	54.45
2.682	46.96	2.691	52.02	2.695	52.71	2.720	53.32	2.956	69.28	2.740	54.01
2.662	46.51	2.671	51.56	2.675	52.29	2.700	52.88	2.934	68.62	2.720	53.56

2.642	46.15	2.651	51.09	2.655	51.85	2.680	52.40	2.912	67.92	2.700	53.06
2.622	45.78	2.631	50.71	2.635	51.41	2.660	51.88	2.889	67.20	2.680	52.58
2.602	45.33	2.611	50.23	2.615	50.87	2.640	51.45	2.867	66.56	2.660	52.18
2.582	44.91	2.591	49.80	2.595	50.52	2.620	50.96	2.845	65.86	2.640	51.68
2.562	44.51	2.571	49.36	2.575	50.05	2.599	50.55	2.822	65.21	2.620	51.17
2.542	44.20	2.551	48.95	2.555	49.59	2.579	50.09	2.800	64.50	2.600	50.81
2.522	43.75	2.531	48.47	2.536	49.12	2.559	49.68	2.778	63.86	2.580	50.33
2.502	43.42	2.511	48.03	2.516	48.73	2.539	49.21	2.755	63.20	2.560	49.92
2.482	42.97	2.490	47.63	2.496	48.18	2.519	48.78	2.733	62.56	2.540	49.49
2.462	42.58	2.470	47.20	2.476	47.74	2.499	48.27	2.711	61.94	2.520	49.03
2.442	42.23	2.450	46.78	2.456	47.42	2.479	47.84	2.688	61.24	2.500	48.57
2.422	41.82	2.430	46.34	2.436	46.97	2.458	47.41	2.666	60.65	2.480	48.15
2.402	41.41	2.410	45.86	2.416	46.47	2.438	46.96	2.644	59.97	2.460	47.69
2.382	41.08	2.390	45.47	2.396	46.07	2.418	46.51	2.621	59.36	2.440	47.24
2.362	40.66	2.370	45.01	2.376	45.59	2.398	46.15	2.599	58.79	2.420	46.72
2.342	40.31	2.350	44.55	2.357	45.21	2.378	45.65	2.577	58.17	2.400	46.40
2.322	39.89	2.330	44.18	2.337	44.82	2.358	45.20	2.554	57.50	2.380	45.91
2.302	39.52	2.310	43.72	2.317	44.37	2.338	44.77	2.532	56.89	2.360	45.47
2.282	39.16	2.290	43.25	2.297	43.89	2.318	44.33	2.510	56.27	2.340	45.07
2.262	38.76	2.270	42.87	2.277	43.53	2.297	43.88	2.487	55.64	2.320	44.65
2.242	38.42	2.250	42.44	2.257	43.10	2.277	43.48	2.465	55.09	2.300	44.21
2.222	38.03	2.230	42.00	2.237	42.65	2.257	43.05	2.443	54.45	2.280	43.73
2.202	37.64	2.209	41.55	2.217	42.20	2.237	42.58	2.420	53.86	2.260	43.32
2.182	37.25	2.189	41.14	2.197	41.78	2.217	42.20	2.398	53.27	2.240	42.86
2.162	36.86	2.169	40.72	2.177	41.40	2.197	41.72	2.376	52.65	2.220	42.49
2.142	36.47	2.149	40.28	2.158	40.90	2.177	41.29	2.353	52.10	2.200	42.03
2.122	36.12	2.129	39.84	2.138	40.50	2.157	40.85	2.331	51.49	2.180	41.62
2.102	35.70	2.109	39.49	2.118	40.14	2.136	40.44	2.309	50.90	2.160	41.17
2.082	35.36	2.089	39.04	2.098	39.71	2.116	40.02	2.286	50.30	2.140	40.77
2.062	34.98	2.069	38.65	2.078	39.30	2.096	39.60	2.264	49.71	2.120	40.34
2.042	34.59	2.049	38.21	2.058	38.89	2.076	39.16	2.242	49.13	2.100	39.91
2.022	34.27	2.029	37.86	2.038	38.49	2.056	38.73	2.219	48.61	2.080	39.45
2.002	33.89	2.009	37.44	2.018	38.04	2.036	38.29	2.197	48.02	2.060	39.09
1.982	33.52	1.989	37.02	1.998	37.65	2.016	37.90	2.175	47.41	2.040	38.68
1.962	33.12	1.969	36.56	1.979	37.27	1.996	37.45	2.152	46.82	2.020	38.17
1.942	32.71	1.949	36.20	1.959	36.79	1.975	37.04	2.130	46.34	2.000	37.81
1.922	32.40	1.929	35.78	1.939	36.40	1.955	36.61	2.108	45.72	1.980	37.32
1.902	31.99	1.908	35.33	1.919	36.05	1.935	36.19	2.085	45.19	1.960	36.91
1.882	31.63	1.888	34.96	1.899	35.63	1.915	35.79	2.063	44.56	1.940	36.54
1.862	31.28	1.868	34.56	1.879	35.20	1.895	35.37	2.041	43.97	1.920	36.18
1.842	30.90	1.848	34.17	1.859	34.83	1.875	34.95	2.018	43.44	1.900	35.74
1.822	30.52	1.828	33.73	1.839	34.41	1.855	34.53	1.996	42.90	1.880	35.35
1.802	30.18	1.808	33.37	1.819	34.01	1.834	34.14	1.974	42.33	1.860	34.91
1.782	29.80	1.788	32.93	1.799	33.61	1.814	33.71	1.951	41.78	1.840	34.54
1.762	29.48	1.768	32.55	1.780	33.21	1.794	33.34	1.929	41.16	1.820	34.10
1.741	29.08	1.748	32.14	1.760	32.79	1.774	32.90	1.906	40.59	1.800	33.68
1.721	28.71	1.728	31.71	1.740	32.41	1.754	32.47	1.884	40.03	1.780	33.24
1.701	28.35	1.708	31.35	1.720	32.01	1.734	32.06	1.862	39.50	1.760	32.89
1.681	27.98	1.688	30.92	1.700	31.57	1.714	31.69	1.839	38.91	1.740	32.48
1.661	27.66	1.668	30.55	1.680	31.16	1.694	31.24	1.817	38.38	1.720	32.06
1.641	27.30	1.648	30.11	1.660	30.78	1.673	30.83	1.795	37.81	1.700	31.61
1.621	26.92	1.627	29.73	1.640	30.44	1.653	30.46	1.772	37.31	1.680	31.23
1.601	26.56	1.607	29.35	1.620	30.02	1.633	30.09	1.750	36.75	1.660	30.85
1.581	26.20	1.587	28.95	1.601	29.61	1.613	29.65	1.728	36.24	1.640	30.47
1.561	25.85	1.567	28.56	1.581	29.27	1.593	29.24	1.705	35.67	1.620	30.04

1.541	25.48	1.547	28.16	1.561	28.83	1.573	28.87	1.683	35.13	1.600	29.64
1.521	25.15	1.527	27.74	1.541	28.48	1.553	28.49	1.661	34.62	1.580	29.26
1.501	24.79	1.507	27.39	1.521	28.03	1.533	28.06	1.638	34.14	1.560	28.81
1.481	24.44	1.487	26.96	1.501	27.65	1.512	27.66	1.616	33.59	1.540	28.45
1.461	24.10	1.467	26.61	1.481	27.26	1.492	27.31	1.594	33.13	1.520	28.07
1.441	23.75	1.447	26.24	1.461	26.86	1.472	26.85	1.571	32.59	1.500	27.69
1.421	23.42	1.427	25.86	1.441	26.54	1.452	26.49	1.549	32.07	1.480	27.28
1.401	23.02	1.407	25.47	1.421	26.12	1.432	26.08	1.527	31.55	1.460	26.89
1.381	22.76	1.387	25.06	1.402	25.69	1.412	25.70	1.504	30.99	1.440	26.48
1.361	22.43	1.367	24.65	1.382	25.34	1.392	25.31	1.482	30.50	1.420	26.10
1.341	22.04	1.347	24.30	1.362	24.98	1.372	24.92	1.460	30.01	1.400	25.72
1.321	21.69	1.326	23.88	1.342	24.59	1.351	24.52	1.437	29.52	1.380	25.31
1.301	21.34	1.306	23.51	1.322	24.20	1.331	24.14	1.415	28.99	1.360	24.99
1.281	20.98	1.286	23.14	1.302	23.84	1.311	23.74	1.393	28.52	1.340	24.56
1.261	20.65	1.266	22.73	1.282	23.43	1.291	23.34	1.370	27.98	1.320	24.21
1.241	20.33	1.246	22.32	1.262	23.08	1.271	22.95	1.348	27.46	1.300	23.81
1.221	19.94	1.226	21.98	1.242	22.64	1.251	22.56	1.326	26.93	1.280	23.38
1.201	19.63	1.206	21.61	1.223	22.30	1.231	22.19	1.303	26.49	1.261	23.02
1.181	19.30	1.186	21.22	1.203	21.91	1.211	21.77	1.281	25.94	1.241	22.61
1.161	18.93	1.166	20.84	1.183	21.55	1.190	21.44	1.259	25.52	1.221	22.24
1.141	18.56	1.146	20.43	1.163	21.18	1.170	21.00	1.236	24.97	1.201	21.84
1.121	18.21	1.126	20.07	1.143	20.81	1.150	20.65	1.214	24.56	1.181	21.51
1.101	17.92	1.106	19.71	1.123	20.48	1.130	20.25	1.192	23.99	1.161	21.09
1.081	17.54	1.086	19.35	1.103	20.10	1.110	19.86	1.169	23.50	1.141	20.66
1.061	17.23	1.066	19.00	1.083	19.64	1.090	19.49	1.147	23.05	1.121	20.32
1.041	16.89	1.045	18.61	1.063	19.23	1.070	19.12	1.125	22.57	1.101	19.88
1.021	16.58	1.025	18.23	1.043	18.88	1.049	18.77	1.102	22.07	1.081	19.56
1.001	16.22	1.005	17.84	1.024	18.64	1.029	18.39	1.080	21.55	1.061	19.19
0.981	15.87	0.985	17.52	1.004	18.25	1.009	18.00	1.058	21.11	1.041	18.80
0.961	15.53	0.965	17.14	0.984	17.79	0.989	17.60	1.035	20.64	1.021	18.41
0.941	15.21	0.945	16.77	0.964	17.32	0.969	17.21	1.013	20.16	1.001	18.05
0.921	14.86	0.925	16.36	0.944	17.05	0.949	16.85	0.991	19.66	0.981	17.71
0.901	14.53	0.905	16.02	0.924	16.71	0.929	16.50	0.968	19.20	0.961	17.30
0.881	14.20	0.885	15.66	0.904	16.34	0.909	16.11	0.946	18.77	0.941	16.94
0.861	13.90	0.865	15.24	0.884	15.97	0.888	15.72	0.924	18.28	0.921	16.54
0.841	13.55	0.845	14.90	0.864	15.60	0.868	15.40	0.901	17.79	0.901	16.17
0.821	13.22	0.825	14.57	0.845	15.23	0.848	15.01	0.879	17.38	0.881	15.79
0.801	12.88	0.805	14.22	0.825	14.81	0.828	14.64	0.857	16.87	0.861	15.39
0.781	12.52	0.785	13.83	0.805	14.40	0.808	14.30	0.834	16.41	0.841	15.04
0.761	12.22	0.764	13.45	0.785	14.10	0.788	13.95	0.812	15.93	0.821	14.66
0.741	11.86	0.744	13.12	0.765	13.74	0.768	13.59	0.790	15.54	0.801	14.28
0.721	11.55	0.724	12.73	0.745	13.36	0.748	13.20	0.767	15.03	0.781	13.97
0.701	11.23	0.704	12.41	0.725	12.96	0.727	12.81	0.745	14.61	0.761	13.56
0.681	10.92	0.684	12.02	0.705	12.61	0.707	12.41	0.723	14.20	0.741	13.16
0.661	10.58	0.664	11.65	0.685	12.27	0.687	12.10	0.700	13.76	0.721	12.86
0.641	10.26	0.644	11.28	0.665	11.86	0.667	11.71	0.678	13.25	0.701	12.48
0.621	9.91	0.624	10.93	0.646	11.53	0.647	11.31	0.656	12.82	0.681	12.08
0.601	9.58	0.604	10.55	0.626	11.18	0.627	11.00	0.633	12.36	0.661	11.71
0.581	9.24	0.584	10.21	0.606	10.84	0.607	10.58	0.611	11.91	0.641	11.37
0.561	8.91	0.564	9.84	0.586	10.46	0.587	10.22	0.589	11.43	0.621	10.98
0.541	8.62	0.544	9.55	0.566	10.13	0.566	9.90	0.566	11.01	0.601	10.63
0.521	8.30	0.524	9.17	0.546	9.76	0.546	9.50	0.544	10.55	0.581	10.31
0.501	7.93	0.504	8.89	0.526	9.40	0.526	9.12	0.522	10.15	0.561	9.93
0.481	7.62	0.484	8.45	0.506	9.09	0.506	8.80	0.499	9.68	0.541	9.61
0.461	7.29	0.463	8.10	0.486	8.69	0.486	8.41	0.477	9.26	0.521	9.21

0.441	6.98	0.443	7.80	0.467	8.34	0.466	8.06	0.455	8.81	0.501	8.89
0.421	6.62	0.423	7.39	0.447	8.01	0.446	7.70	0.432	8.35	0.481	8.52
0.401	6.31	0.403	7.05	0.427	7.71	0.426	7.36	0.410	7.97	0.461	8.17
0.381	6.02	0.383	6.74	0.407	7.34	0.405	6.99	0.387	7.49	0.441	7.85
0.361	5.66	0.363	6.37	0.387	7.02	0.385	6.64	0.365	7.08	0.421	7.52
0.341	5.34	0.343	5.99	0.367	6.66	0.365	6.28	0.343	6.61	0.401	7.14
0.321	5.03	0.323	5.66	0.347	6.31	0.345	5.95	0.320	6.20	0.381	6.78
0.301	4.71	0.303	5.27	0.327	5.95	0.325	5.58	0.298	5.81	0.361	6.46
0.281	4.40	0.283	4.96	0.307	5.63	0.305	5.21	0.276	5.32	0.341	5.95
0.261	4.08	0.263	4.64	0.287	5.26	0.285	4.90	0.253	4.97	0.321	5.68
0.240	3.77	0.243	4.24	0.268	4.90	0.264	4.56	0.231	4.49	0.301	5.36
0.220	3.46	0.223	3.93	0.248	4.58	0.244	4.18	0.209	4.05	0.281	4.99
0.200	3.22	0.203	3.61	0.228	4.24	0.224	3.85	0.186	3.64	0.261	4.62
0.180	2.81	0.182	3.28	0.208	3.97	0.204	3.46	0.164	3.15	0.241	4.23
0.160	2.51	0.162	2.91	0.188	3.56	0.184	3.14	0.142	2.76	0.221	3.90
0.140	2.14	0.142	2.52	0.168	3.25	0.164	2.75	0.119	2.31	0.201	3.55
0.120	1.87	0.122	2.20	0.148	2.84	0.144	2.43	0.097	1.89	0.181	3.21
0.100	1.73	0.102	1.89	0.128	2.51	0.124	2.12			0.161	2.83

**Table S1 (continued).**  $P\rho T$  experimental data for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures.

$T = 333.15$ K											
$x = 0.8525$		$x = 0.9719$		$x = 0.9809$		$x = 0.9902$		$x = 0.9932$		$x = 0.9961$	
$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )	$P$ (MPa)	$\rho$ (kg/m <sup>3</sup> )
20.095	552.04	20.165	688.87	20.117	702.85	20.029	711.24	20.206	928.79	20.081	721.72
20.075	551.65	20.145	688.68	20.097	702.64	20.009	710.91	20.186	928.71	20.061	721.44
20.055	551.23	20.125	688.41	20.077	702.38	19.989	710.72	20.165	928.63	20.041	721.24
20.035	550.82	20.105	688.08	20.058	702.10	19.969	710.46	20.145	928.54	20.021	720.95
20.015	550.43	20.084	687.79	20.038	701.78	19.949	710.18	20.125	928.46	20.001	720.65
19.995	550.04	20.064	687.50	20.018	701.51	19.929	709.87	20.104	928.38	19.981	720.36
19.975	549.62	20.044	687.20	19.998	701.20	19.909	709.55	20.084	928.22	19.961	720.08
19.955	549.21	20.024	686.94	19.978	700.93	19.889	709.23	20.063	928.14	19.941	719.80
19.935	548.84	20.004	686.62	19.958	700.63	19.869	708.94	20.043	928.02	19.921	719.54
19.915	548.40	19.984	686.23	19.938	700.27	19.849	708.65	20.023	927.89	19.901	719.23
19.895	547.98	19.964	685.93	19.918	699.95	19.829	708.35	20.002	927.81	19.881	718.89
19.875	547.57	19.944	685.60	19.898	699.67	19.810	708.01	19.982	927.69	19.861	718.55
19.855	547.16	19.924	685.32	19.878	699.37	19.790	707.67	19.961	927.56	19.841	718.28
19.835	546.82	19.904	684.98	19.858	699.01	19.770	707.42	19.941	927.48	19.821	717.99
19.815	546.37	19.884	684.65	19.838	698.70	19.750	707.06	19.920	927.32	19.801	717.65
19.795	545.95	19.864	684.30	19.818	698.40	19.730	706.79	19.900	927.24	19.781	717.30
19.775	545.51	19.844	683.97	19.798	698.07	19.710	706.45	19.880	927.07	19.761	717.00
19.755	545.15	19.823	683.64	19.778	697.82	19.690	706.13	19.859	926.99	19.741	716.70
19.735	544.73	19.803	683.32	19.758	697.45	19.670	705.85	19.839	926.88	19.721	716.40
19.715	544.28	19.783	682.99	19.738	697.15	19.650	705.50	19.818	926.75	19.701	716.03
19.695	543.89	19.763	682.66	19.718	696.86	19.630	705.14	19.798	926.67	19.681	715.74
19.675	543.49	19.743	682.31	19.698	696.47	19.610	704.85	19.778	926.52	19.661	715.41
19.655	543.04	19.723	681.96	19.678	696.15	19.590	704.46	19.757	926.42	19.641	715.01
19.635	542.61	19.703	681.60	19.658	695.80	19.570	704.16	19.737	926.26	19.621	714.66
19.615	542.17	19.683	681.25	19.638	695.49	19.550	703.82	19.716	926.16	19.601	714.33
19.595	541.74	19.663	680.89	19.618	695.16	19.530	703.45	19.696	926.01	19.581	713.95
19.575	541.33	19.643	680.56	19.598	694.79	19.510	703.10	19.676	925.94	19.561	713.60
19.555	540.94	19.623	680.23	19.579	694.48	19.490	702.77	19.655	925.78	19.541	713.29
19.535	540.47	19.603	679.87	19.559	694.09	19.471	702.45	19.635	925.71	19.521	712.95
19.515	540.07	19.583	679.49	19.539	693.83	19.451	702.13	19.614	925.57	19.501	712.58
19.495	539.65	19.562	679.11	19.519	693.40	19.431	701.75	19.594	925.45	19.481	712.22
19.475	539.20	19.542	678.76	19.499	693.03	19.411	701.42	19.574	925.36	19.461	711.83
19.455	538.77	19.522	678.39	19.479	692.72	19.391	701.03	19.553	925.20	19.441	711.47
19.435	538.42	19.502	678.06	19.459	692.34	19.371	700.66	19.533	925.12	19.421	711.19
19.415	537.98	19.482	677.69	19.439	691.98	19.351	700.35	19.512	925.03	19.401	710.89
19.395	537.53	19.462	677.34	19.419	691.65	19.331	700.02	19.492	924.88	19.381	710.54
19.375	537.12	19.442	676.96	19.399	691.33	19.311	699.68	19.472	924.80	19.361	710.22
19.355	536.63	19.422	676.58	19.379	690.98	19.291	699.28	19.451	924.65	19.341	709.92
19.335	536.23	19.402	676.17	19.359	690.56	19.271	698.96	19.431	924.54	19.321	709.55
19.315	535.81	19.382	675.83	19.339	690.21	19.251	698.55	19.410	924.43	19.301	709.21
19.295	535.34	19.362	675.44	19.319	689.86	19.231	698.20	19.390	924.26	19.281	708.92
19.275	534.88	19.342	675.05	19.299	689.50	19.211	697.86	19.370	924.19	19.261	708.53
19.255	534.50	19.321	674.65	19.279	689.11	19.191	697.46	19.349	924.04	19.241	708.22
19.235	534.03	19.301	674.35	19.259	688.78	19.171	697.12	19.329	923.89	19.221	707.90
19.215	533.60	19.281	673.93	19.239	688.42	19.151	696.77	19.308	923.80	19.201	707.57
19.195	533.11	19.261	673.57	19.219	688.04	19.131	696.40	19.288	923.65	19.181	707.25
19.175	532.67	19.241	673.21	19.199	687.64	19.112	696.05	19.267	923.58	19.161	706.88

19.155	532.22	19.221	672.88	19.179	687.31	19.092	695.66	19.247	923.42	19.141	706.53
19.135	531.77	19.201	672.47	19.159	686.95	19.072	695.33	19.227	923.34	19.121	706.22
19.115	531.34	19.181	672.11	19.139	686.56	19.052	694.92	19.206	923.18	19.101	705.80
19.095	530.91	19.161	671.75	19.119	686.23	19.032	694.58	19.186	923.10	19.081	705.49
19.075	530.45	19.141	671.42	19.100	685.80	19.012	694.21	19.165	922.99	19.061	705.06
19.055	529.97	19.121	670.98	19.080	685.43	18.992	693.88	19.145	922.84	19.041	704.76
19.035	529.54	19.101	670.63	19.060	685.09	18.972	693.46	19.125	922.74	19.021	704.37
19.015	529.12	19.081	670.24	19.040	684.69	18.952	693.06	19.104	922.59	19.001	704.05
18.995	528.64	19.060	669.83	19.020	684.31	18.932	692.71	19.084	922.50	18.981	703.68
18.975	528.19	19.040	669.43	19.000	683.93	18.912	692.30	19.063	922.33	18.961	703.28
18.955	527.74	19.020	669.08	18.980	683.55	18.892	691.96	19.043	922.25	18.941	702.96
18.934	527.30	19.000	668.70	18.960	683.17	18.872	691.53	19.023	922.08	18.921	702.61
18.914	526.86	18.980	668.34	18.940	682.80	18.852	691.18	19.002	921.99	18.901	702.20
18.894	526.37	18.960	667.94	18.920	682.42	18.832	690.82	18.982	921.84	18.881	701.84
18.874	525.92	18.940	667.56	18.900	682.01	18.812	690.40	18.961	921.74	18.861	701.51
18.854	525.44	18.920	667.17	18.880	681.65	18.792	690.05	18.941	921.60	18.841	701.17
18.834	524.97	18.900	666.74	18.860	681.27	18.773	689.68	18.921	921.47	18.821	700.72
18.814	524.49	18.880	666.36	18.840	680.90	18.753	689.27	18.900	921.35	18.801	700.39
18.794	524.02	18.860	665.96	18.820	680.48	18.733	688.91	18.880	921.20	18.781	699.96
18.774	523.57	18.840	665.55	18.800	680.10	18.713	688.51	18.859	921.11	18.761	699.60
18.754	523.07	18.819	665.10	18.780	679.73	18.693	688.11	18.839	920.95	18.741	699.20
18.734	522.61	18.799	664.74	18.760	679.32	18.673	687.76	18.819	920.84	18.721	698.87
18.714	522.16	18.779	664.35	18.740	678.91	18.653	687.29	18.798	920.69	18.701	698.47
18.694	521.71	18.759	663.94	18.720	678.49	18.633	686.96	18.778	920.59	18.681	698.07
18.674	521.20	18.739	663.53	18.700	678.15	18.613	686.56	18.757	920.45	18.661	697.67
18.654	520.74	18.719	663.10	18.680	677.73	18.593	686.18	18.737	920.32	18.641	697.31
18.634	520.28	18.699	662.71	18.660	677.34	18.573	685.75	18.716	920.18	18.621	696.91
18.614	519.78	18.679	662.35	18.640	676.95	18.553	685.40	18.696	920.09	18.601	696.57
18.594	519.30	18.659	661.94	18.621	676.55	18.533	684.94	18.676	919.94	18.581	696.18
18.574	518.86	18.639	661.52	18.601	676.16	18.513	684.54	18.655	919.85	18.561	695.81
18.554	518.32	18.619	661.06	18.581	675.78	18.493	684.22	18.635	919.67	18.541	695.38
18.534	517.86	18.599	660.64	18.561	675.39	18.473	683.78	18.614	919.56	18.521	694.98
18.514	517.38	18.579	660.25	18.541	674.94	18.453	683.40	18.594	919.46	18.501	694.61
18.494	516.91	18.558	659.86	18.521	674.56	18.433	683.00	18.574	919.28	18.481	694.24
18.474	516.43	18.538	659.45	18.501	674.15	18.414	682.61	18.553	919.17	18.461	693.81
18.454	515.92	18.518	659.03	18.481	673.71	18.394	682.14	18.533	919.08	18.441	693.41
18.434	515.45	18.498	658.56	18.461	673.32	18.374	681.74	18.512	918.90	18.421	692.99
18.414	514.92	18.478	658.12	18.441	672.90	18.354	681.32	18.492	918.81	18.401	692.58
18.394	514.45	18.458	657.73	18.421	672.44	18.334	680.90	18.472	918.68	18.381	692.17
18.374	513.96	18.438	657.28	18.401	672.01	18.314	680.54	18.451	918.51	18.361	691.82
18.354	513.50	18.418	656.85	18.381	671.58	18.294	680.12	18.431	918.37	18.341	691.38
18.334	512.97	18.398	656.42	18.361	671.24	18.274	679.71	18.410	918.25	18.321	690.96
18.314	512.51	18.378	656.03	18.341	670.74	18.254	679.28	18.390	918.13	18.301	690.60
18.294	512.03	18.358	655.62	18.321	670.37	18.234	678.87	18.370	918.02	18.281	690.20
18.274	511.47	18.338	655.16	18.301	669.95	18.214	678.46	18.349	917.85	18.261	689.80
18.254	510.99	18.318	654.75	18.281	669.50	18.194	678.05	18.329	917.76	18.241	689.37
18.234	510.47	18.297	654.34	18.261	669.08	18.174	677.60	18.308	917.59	18.221	688.95
18.214	509.97	18.277	653.88	18.241	668.67	18.154	677.16	18.288	917.46	18.201	688.55
18.194	509.49	18.257	653.43	18.221	668.18	18.134	676.75	18.268	917.37	18.181	688.17
18.174	509.00	18.237	652.98	18.201	667.78	18.114	676.32	18.247	917.17	18.161	687.77
18.154	508.51	18.217	652.53	18.181	667.36	18.094	675.91	18.227	917.05	18.141	687.35
18.134	507.96	18.197	652.08	18.161	666.96	18.075	675.52	18.206	916.94	18.121	686.94
18.114	507.48	18.177	651.70	18.141	666.50	18.055	675.07	18.186	916.83	18.101	686.44
18.094	507.00	18.157	651.25	18.122	666.06	18.035	674.63	18.165	916.67	18.081	686.03
18.074	506.45	18.137	650.78	18.102	665.64	18.015	674.20	18.145	916.54	18.061	685.65

18.054	505.97	18.117	650.41	18.082	665.15	17.995	673.77	18.125	916.44	18.041	685.19
18.034	505.48	18.097	649.95	18.062	664.77	17.975	673.39	18.104	916.32	18.021	684.83
18.014	504.92	18.077	649.50	18.042	664.26	17.955	672.89	18.084	916.12	18.001	684.38
17.994	504.42	18.056	649.04	18.022	663.90	17.935	672.45	18.063	916.01	17.981	683.96
17.974	503.90	18.036	648.57	18.002	663.42	17.915	672.02	18.043	915.90	17.961	683.56
17.954	503.38	18.016	648.09	17.982	663.01	17.895	671.56	18.023	915.71	17.941	683.11
17.934	502.87	17.996	647.63	17.962	662.52	17.875	671.20	18.002	915.61	17.921	682.72
17.914	502.29	17.976	647.19	17.942	662.10	17.855	670.73	17.982	915.48	17.901	682.23
17.894	501.79	17.956	646.72	17.922	661.60	17.835	670.32	17.961	915.37	17.881	681.82
17.874	501.26	17.936	646.27	17.902	661.20	17.815	669.85	17.941	915.22	17.861	681.34
17.854	500.80	17.916	645.77	17.882	660.75	17.795	669.36	17.921	915.05	17.841	680.94
17.834	500.21	17.896	645.36	17.862	660.30	17.775	668.93	17.900	914.95	17.821	680.51
17.814	499.70	17.876	644.86	17.842	659.78	17.755	668.50	17.880	914.80	17.801	680.04
17.794	499.20	17.856	644.44	17.822	659.37	17.735	668.03	17.859	914.69	17.781	679.58
17.774	498.67	17.836	643.98	17.802	658.89	17.716	667.60	17.839	914.57	17.761	679.19
17.754	498.15	17.816	643.46	17.782	658.47	17.696	667.14	17.819	914.38	17.741	678.79
17.734	497.60	17.795	643.01	17.762	658.00	17.676	666.71	17.798	914.24	17.721	678.33
17.714	497.09	17.775	642.54	17.742	657.56	17.656	666.23	17.778	914.12	17.701	677.88
17.694	496.47	17.755	642.01	17.722	657.06	17.636	665.75	17.757	914.00	17.681	677.47
17.674	495.99	17.735	641.59	17.702	656.61	17.616	665.26	17.737	913.86	17.661	677.05
17.654	495.44	17.715	641.12	17.682	656.16	17.596	664.88	17.717	913.73	17.641	676.60
17.634	494.91	17.695	640.59	17.662	655.66	17.576	664.40	17.696	913.59	17.621	676.13
17.614	494.37	17.675	640.16	17.643	655.23	17.556	663.93	17.676	913.42	17.601	675.64
17.594	493.80	17.655	639.69	17.623	654.76	17.536	663.47	17.655	913.28	17.581	675.20
17.574	493.25	17.635	639.20	17.603	654.27	17.516	663.01	17.635	913.16	17.561	674.74
17.554	492.72	17.615	638.74	17.583	653.77	17.496	662.49	17.614	913.01	17.541	674.31
17.534	492.17	17.595	638.24	17.563	653.33	17.476	662.08	17.594	912.85	17.521	673.81
17.514	491.62	17.575	637.69	17.543	652.82	17.456	661.61	17.574	912.72	17.501	673.42
17.494	491.04	17.555	637.25	17.523	652.36	17.436	661.09	17.553	912.58	17.481	672.95
17.473	490.47	17.534	636.74	17.503	651.91	17.416	660.58	17.533	912.45	17.461	672.47
17.453	489.91	17.514	636.25	17.483	651.39	17.396	660.13	17.512	912.31	17.441	672.00
17.433	489.37	17.494	635.78	17.463	650.97	17.377	659.63	17.492	912.19	17.421	671.53
17.413	488.85	17.474	635.24	17.443	650.45	17.357	659.21	17.472	912.06	17.401	671.07
17.393	488.27	17.454	634.79	17.423	650.03	17.337	658.68	17.451	911.94	17.381	670.60
17.373	487.74	17.434	634.29	17.403	649.52	17.317	658.20	17.431	911.79	17.361	670.11
17.353	487.15	17.414	633.85	17.383	649.02	17.297	657.74	17.410	911.62	17.341	669.60
17.333	486.59	17.394	633.27	17.363	648.47	17.277	657.23	17.390	911.47	17.321	669.16
17.313	486.07	17.374	632.77	17.343	648.04	17.257	656.71	17.370	911.34	17.301	668.68
17.293	485.46	17.354	632.29	17.323	647.52	17.237	656.24	17.349	911.21	17.281	668.21
17.273	484.92	17.334	631.79	17.303	647.06	17.217	655.73	17.329	911.05	17.261	667.72
17.253	484.35	17.314	631.26	17.283	646.55	17.197	655.31	17.308	910.92	17.241	667.28
17.233	483.74	17.293	630.80	17.263	646.11	17.177	654.76	17.288	910.79	17.221	666.80
17.213	483.17	17.273	630.27	17.243	645.58	17.157	654.35	17.268	910.65	17.201	666.29
17.193	482.63	17.253	629.79	17.223	645.08	17.137	653.82	17.247	910.50	17.181	665.82
17.173	482.03	17.233	629.26	17.203	644.54	17.117	653.27	17.227	910.42	17.161	665.29
17.153	481.48	17.213	628.73	17.183	643.99	17.097	652.76	17.206	910.22	17.141	664.86
17.133	480.89	17.193	628.23	17.164	643.50	17.077	652.27	17.186	910.07	17.121	664.30
17.113	480.30	17.173	627.70	17.144	643.01	17.057	651.73	17.166	909.94	17.101	663.85
17.093	479.72	17.153	627.16	17.124	642.53	17.037	651.28	17.145	909.81	17.081	663.38
17.073	479.17	17.133	626.67	17.104	642.06	17.018	650.75	17.125	909.66	17.061	662.87
17.053	478.55	17.113	626.13	17.084	641.53	16.998	650.23	17.104	909.52	17.041	662.39
17.033	477.94	17.093	625.61	17.064	641.02	16.978	649.74	17.084	909.36	17.021	661.88
17.013	477.39	17.073	625.10	17.044	640.49	16.958	649.19	17.063	909.23	17.001	661.44
16.993	476.78	17.053	624.62	17.024	639.95	16.938	648.67	17.043	909.11	16.981	660.92
16.973	476.24	17.032	624.11	17.004	639.43	16.918	648.13	17.023	908.99	16.961	660.37



16.953	475.67	17.012	623.57	16.984	638.94	16.898	647.69	17.002	908.84	16.941	659.90
16.933	475.03	16.992	623.09	16.964	638.40	16.878	647.13	16.982	908.68	16.921	659.39
16.913	474.46	16.972	622.57	16.944	637.88	16.858	646.64	16.961	908.50	16.901	658.91
16.893	473.89	16.952	622.03	16.924	637.33	16.838	646.12	16.941	908.35	16.881	658.36
16.873	473.25	16.932	621.55	16.904	636.79	16.818	645.58	16.921	908.24	16.861	657.91
16.853	472.71	16.912	621.02	16.884	636.29	16.798	645.07	16.900	908.13	16.841	657.39
16.833	472.11	16.892	620.48	16.864	635.77	16.778	644.51	16.880	907.98	16.821	656.86
16.813	471.42	16.872	619.90	16.844	635.26	16.758	644.00	16.859	907.78	16.801	656.43
16.793	470.85	16.852	619.37	16.824	634.72	16.738	643.44	16.839	907.69	16.781	655.92
16.773	470.27	16.832	618.89	16.804	634.13	16.718	642.92	16.819	907.52	16.761	655.38
16.753	469.63	16.812	618.35	16.784	633.62	16.698	642.33	16.798	907.37	16.741	654.86
16.733	469.09	16.791	617.80	16.764	633.11	16.679	641.83	16.778	907.23	16.721	654.36
16.713	468.43	16.771	617.28	16.744	632.53	16.659	641.29	16.757	907.06	16.701	653.85
16.693	467.85	16.751	616.75	16.724	632.04	16.639	640.72	16.737	906.95	16.681	653.33
16.673	467.23	16.731	616.14	16.704	631.51	16.619	640.23	16.717	906.79	16.661	652.81
16.653	466.59	16.711	615.62	16.685	630.92	16.599	639.64	16.696	906.67	16.641	652.26
16.633	466.01	16.691	615.06	16.665	630.37	16.579	639.15	16.676	906.47	16.621	651.77
16.613	465.39	16.671	614.51	16.645	629.84	16.559	638.58	16.655	906.32	16.601	651.18
16.593	464.76	16.651	613.92	16.625	629.32	16.539	637.98	16.635	906.18	16.581	650.66
16.573	464.14	16.631	613.32	16.605	628.79	16.519	637.44	16.615	906.06	16.561	650.18
16.553	463.56	16.611	612.75	16.585	628.19	16.499	637.03	16.594	905.90	16.541	649.63
16.533	462.92	16.591	612.18	16.565	627.61	16.479	636.57	16.574	905.75	16.521	649.12
16.513	462.29	16.571	611.62	16.545	627.06	16.459	636.09	16.553	905.63	16.501	648.56
16.493	461.67	16.551	611.07	16.525	626.46	16.439	635.59	16.533	905.46	16.481	648.00
16.473	460.98	16.530	610.44	16.505	625.95	16.419	635.06	16.513	905.31	16.461	647.46
16.453	460.43	16.510	609.83	16.485	625.33	16.399	634.58	16.492	905.19	16.441	646.94
16.433	459.78	16.490	609.26	16.465	624.77	16.379	634.02	16.472	905.06	16.421	646.35
16.413	459.16	16.470	608.66	16.445	624.19	16.359	633.48	16.451	904.89	16.401	645.82
16.393	458.54	16.450	608.11	16.425	623.63	16.339	632.99	16.431	904.76	16.381	645.25
16.373	457.88	16.430	607.48	16.405	623.04	16.320	632.42	16.410	904.59	16.361	644.70
16.353	457.29	16.410	606.88	16.385	622.47	16.300	631.93	16.390	904.46	16.341	644.19
16.333	456.58	16.390	606.28	16.365	621.90	16.280	631.37	16.370	904.29	16.321	643.64
16.313	456.01	16.370	605.69	16.345	621.29	16.260	630.87	16.349	904.12	16.301	643.01
16.293	455.38	16.350	605.06	16.325	620.73	16.240	630.30	16.329	904.02	16.281	642.46
16.273	454.76	16.330	604.51	16.305	620.15	16.220	629.77	16.308	903.83	16.261	641.86
16.253	454.09	16.310	603.90	16.285	619.48	16.200	629.26	16.288	903.69	16.241	641.29
16.233	453.45	16.290	603.20	16.265	618.94	16.180	628.68	16.268	903.57	16.221	640.77
16.213	452.81	16.269	602.58	16.245	618.34	16.160	628.10	16.247	903.42	16.201	640.20
16.193	452.15	16.249	601.96	16.225	617.72	16.140	627.53	16.227	903.28	16.181	639.62
16.173	451.54	16.229	601.39	16.206	617.07	16.120	626.95	16.206	903.11	16.161	639.01
16.153	450.88	16.209	600.72	16.186	616.49	16.100	626.30	16.186	902.95	16.141	638.47
16.133	450.22	16.189	600.11	16.166	615.82	16.080	625.76	16.166	902.82	16.121	637.89
16.113	449.51	16.169	599.49	16.146	615.17	16.060	625.19	16.145	902.67	16.101	637.31
16.093	448.90	16.149	598.86	16.126	614.57	16.040	624.60	16.125	902.50	16.081	636.71
16.073	448.19	16.129	598.19	16.106	613.99	16.020	623.98	16.104	902.38	16.061	636.10
16.053	447.58	16.109	597.58	16.086	613.36	16.000	623.38	16.084	902.18	16.041	635.52
16.032	446.90	16.089	596.92	16.066	612.76	15.981	622.78	16.064	902.05	16.021	634.95
16.012	446.21	16.069	596.27	16.046	612.17	15.961	622.17	16.043	901.89	16.001	634.32
15.992	445.59	16.049	595.63	16.026	611.52	15.941	621.62	16.023	901.78	15.981	633.75
15.972	444.97	16.028	594.99	16.006	610.96	15.921	620.95	16.002	901.60	15.961	633.09
15.952	444.25	16.008	594.30	15.986	610.36	15.901	620.34	15.982	901.45	15.941	632.52
15.932	443.58	15.988	593.67	15.966	609.70	15.881	619.77	15.962	901.32	15.921	631.88
15.912	442.92	15.968	593.07	15.946	609.10	15.861	619.16	15.941	901.09	15.901	631.24
15.892	442.30	15.948	592.44	15.926	608.52	15.841	618.47	15.921	900.93	15.881	630.62
15.872	441.56	15.928	591.74	15.906	607.86	15.821	617.86	15.900	900.82	15.861	630.04

15.852	440.90	15.908	591.06	15.886	607.28	15.801	617.19	15.880	900.67	15.841	629.39
15.832	440.26	15.888	590.42	15.866	606.64	15.781	616.55	15.859	900.50	15.821	628.76
15.812	439.55	15.868	589.69	15.846	606.01	15.761	615.94	15.839	900.32	15.801	628.13
15.792	438.87	15.848	589.06	15.826	605.38	15.741	615.28	15.819	900.17	15.781	627.51
15.772	438.19	15.828	588.36	15.806	604.81	15.721	614.65	15.798	900.09	15.761	626.88
15.752	437.51	15.808	587.65	15.786	604.14	15.701	613.98	15.778	899.84	15.741	626.24
15.732	436.82	15.788	586.99	15.766	603.48	15.681	613.28	15.757	899.74	15.721	625.56
15.712	436.15	15.767	586.32	15.746	602.79	15.661	612.68	15.737	899.60	15.701	624.94
15.692	435.48	15.747	585.60	15.726	602.11	15.641	612.02	15.717	899.45	15.681	624.29
15.672	434.82	15.727	584.84	15.707	601.45	15.622	611.29	15.696	899.27	15.661	623.65
15.652	434.10	15.707	584.19	15.687	600.82	15.602	610.66	15.676	899.12	15.641	623.04
15.632	433.39	15.687	583.63	15.667	600.13	15.582	610.00	15.655	898.94	15.621	622.34
15.612	432.70	15.667	583.14	15.647	599.50	15.562	609.30	15.635	898.78	15.601	621.68
15.592	432.00	15.647	582.48	15.627	598.84	15.542	608.67	15.615	898.65	15.581	621.00
15.572	431.34	15.627	581.84	15.607	598.22	15.522	607.94	15.594	898.54	15.561	620.35
15.552	430.63	15.607	581.15	15.587	597.49	15.502	607.25	15.574	898.35	15.541	619.71
15.532	429.90	15.587	580.52	15.567	596.80	15.482	606.57	15.553	898.21	15.521	619.00
15.512	429.20	15.567	579.89	15.547	596.14	15.462	605.82	15.533	898.01	15.501	618.37
15.492	428.52	15.547	579.21	15.527	595.45	15.442	605.14	15.513	897.88	15.481	617.67
15.472	427.78	15.527	578.58	15.507	594.79	15.422	604.44	15.492	897.71	15.461	617.03
15.452	427.13	15.506	577.90	15.487	594.12	15.402	603.75	15.472	897.59	15.441	616.38
15.432	426.42	15.486	577.23	15.467	593.44	15.382	603.08	15.451	897.39	15.421	615.67
15.412	425.70	15.466	576.55	15.447	592.74	15.362	602.35	15.431	897.28	15.401	614.96
15.392	425.02	15.446	575.87	15.427	592.03	15.342	601.67	15.411	897.11	15.381	614.29
15.372	424.27	15.426	575.21	15.407	591.34	15.322	600.95	15.390	896.98	15.361	613.56
15.352	423.59	15.406	574.56	15.387	590.64	15.302	600.27	15.370	896.83	15.341	612.90
15.332	422.86	15.386	573.83	15.367	589.97	15.283	599.50	15.349	896.71	15.321	612.20
15.312	422.16	15.366	573.14	15.347	589.14	15.263	598.81	15.329	896.48	15.301	611.44
15.292	421.45	15.346	572.45	15.327	588.48	15.243	598.13	15.308	896.33	15.281	610.78
15.272	420.72	15.326	571.76	15.307	587.75	15.223	597.32	15.288	896.19	15.261	610.02
15.252	419.95	15.306	571.03	15.287	587.07	15.203	596.61	15.268	896.06	15.241	609.32
15.232	419.30	15.286	570.23	15.267	586.32	15.183	595.84	15.247	895.92	15.221	608.64
15.212	418.55	15.265	569.49	15.247	585.57	15.163	595.12	15.227	895.76	15.201	607.93
15.192	417.82	15.245	568.77	15.228	584.80	15.143	594.35	15.206	895.61	15.181	607.24
15.172	417.17	15.225	568.01	15.208	583.95	15.123	593.59	15.186	895.46	15.161	606.47
15.152	416.42	15.205	567.20	15.188	583.38	15.103	592.85	15.166	895.28	15.141	605.78
15.132	415.69	15.185	566.47	15.168	582.70	15.083	592.11	15.145	895.15	15.121	605.07
15.112	415.02	15.165	565.71	15.148	582.08	15.063	591.39	15.125	894.99	15.101	604.34
15.092	414.26	15.145	564.95	15.128	581.41	15.043	590.53	15.104	894.86	15.081	603.62
15.072	413.54	15.125	564.11	15.108	580.74	15.023	589.83	15.084	894.70	15.061	602.82
15.052	412.76	15.105	563.35	15.088	580.08	15.003	589.02	15.064	894.55	15.041	602.06
15.032	412.04	15.085	562.54	15.068	579.41	14.983	588.29	15.043	894.37	15.021	601.33
15.012	411.34	15.065	561.69	15.048	578.67	14.963	587.51	15.023	894.22	15.001	600.60
14.992	410.53	15.045	560.94	15.028	577.92	14.944	586.74	15.002	894.12	14.981	599.77
14.972	409.82	15.025	560.09	15.008	577.21	14.924	585.84	14.982	893.93	14.961	599.04
14.952	409.14	15.004	559.34	14.988	576.47	14.904	585.06	14.962	893.75	14.941	598.27
14.932	408.37	14.984	558.55	14.968	575.72	14.884	584.29	14.941	893.64	14.921	597.52
14.912	407.59	14.964	557.73	14.948	574.89	14.864	583.45	14.921	893.43	14.901	596.74
14.892	406.87	14.944	556.91	14.928	574.14	14.844	582.68	14.900	893.26	14.881	595.99
14.872	406.11	14.924	556.09	14.908	573.41	14.824	581.92	14.880	893.15	14.861	595.16
14.852	405.36	14.904	555.27	14.888	572.60	14.804	581.11	14.860	892.98	14.841	594.44
14.832	404.57	14.884	554.44	14.868	571.85	14.784	580.32	14.839	892.81	14.821	593.61
14.812	403.88	14.864	553.62	14.848	571.08	14.764	579.44	14.819	892.65	14.801	592.77
14.792	403.12	14.844	552.76	14.828	570.30	14.744	578.62	14.798	892.49	14.781	591.95
14.772	402.35	14.824	551.99	14.808	569.44	14.724	577.86	14.778	892.32	14.761	591.25

14.752	401.57	14.804	551.09	14.788	568.65	14.704	577.02	14.757	892.16	14.741	590.47
14.732	400.79	14.784	550.24	14.768	567.80	14.684	576.17	14.737	891.99	14.721	589.62
14.712	400.07	14.764	549.40	14.749	567.00	14.664	575.34	14.717	891.83	14.701	588.75
14.692	399.33	14.743	548.56	14.729	566.16	14.644	574.49	14.696	891.68	14.681	587.96
14.672	398.55	14.723	547.69	14.709	565.30	14.624	573.67	14.676	891.50	14.661	587.14
14.652	397.80	14.703	546.90	14.689	564.48	14.604	572.83	14.655	891.34	14.641	586.37
14.632	397.03	14.683	546.03	14.669	563.61	14.585	571.96	14.635	891.18	14.622	585.51
14.612	396.27	14.663	545.16	14.649	562.74	14.565	571.12	14.615	891.04	14.602	584.67
14.591	395.51	14.643	544.28	14.629	561.87	14.545	570.20	14.594	890.86	14.582	583.82
14.571	394.73	14.623	543.43	14.609	561.06	14.525	569.38	14.574	890.69	14.562	582.94
14.551	393.98	14.603	542.51	14.589	560.19	14.505	568.48	14.553	890.52	14.542	582.11
14.531	393.18	14.583	541.58	14.569	559.31	14.485	567.62	14.533	890.36	14.522	581.23
14.511	392.43	14.563	540.75	14.549	558.40	14.465	566.72	14.513	890.20	14.502	580.38
14.491	391.64	14.543	539.83	14.529	557.55	14.445	565.81	14.492	890.03	14.482	579.53
14.471	390.93	14.523	538.91	14.509	556.67	14.425	564.94	14.472	889.91	14.462	578.66
14.451	390.10	14.502	538.06	14.489	555.71	14.405	564.05	14.451	889.75	14.442	577.76
14.431	389.39	14.482	537.16	14.469	554.76	14.385	563.17	14.431	889.54	14.422	576.89
14.411	388.58	14.462	536.29	14.449	553.85	14.365	562.31	14.411	889.38	14.402	576.04
14.391	387.82	14.442	535.35	14.429	552.98	14.345	561.34	14.390	889.21	14.382	575.13
14.371	387.04	14.422	534.47	14.409	552.09	14.325	560.46	14.370	889.10	14.362	574.37
14.351	386.29	14.402	533.49	14.389	551.12	14.305	559.55	14.349	888.89	14.342	573.42
14.331	385.48	14.382	532.56	14.369	550.23	14.285	558.55	14.329	888.71	14.322	572.54
14.311	384.65	14.362	531.56	14.349	549.29	14.265	557.61	14.309	888.55	14.302	571.65
14.291	383.89	14.342	530.71	14.329	548.41	14.246	556.68	14.288	888.40	14.282	570.78
14.271	383.18	14.322	529.75	14.309	547.48	14.226	555.82	14.268	888.23	14.262	569.81
14.251	382.37	14.302	528.85	14.289	546.51	14.206	554.87	14.247	888.06	14.242	568.90
14.231	381.59	14.282	527.86	14.270	545.61	14.186	553.86	14.227	887.87	14.222	567.94
14.211	380.79	14.262	526.90	14.250	544.65	14.166	552.90	14.206	887.67	14.202	566.93
14.191	379.96	14.241	525.97	14.230	543.75	14.146	551.99	14.186	887.54	14.182	565.93
14.171	379.21	14.221	524.97	14.210	542.76	14.126	551.00	14.166	887.34	14.162	564.95
14.151	378.49	14.201	524.03	14.190	541.76	14.106	550.04	14.145	887.18	14.142	563.98
14.131	377.68	14.181	523.07	14.170	540.81	14.086	549.07	14.125	887.05	14.122	563.09
14.111	376.87	14.161	522.06	14.150	539.83	14.066	548.08	14.104	886.84	14.102	562.12
14.091	376.09	14.141	521.06	14.130	538.90	14.046	547.10	14.084	886.70	14.082	561.11
14.071	375.34	14.121	520.09	14.110	537.91	14.026	546.13	14.064	886.51	14.062	560.12
14.051	374.53	14.101	519.10	14.090	536.90	14.006	545.12	14.043	886.31	14.042	559.19
14.031	373.69	14.081	518.06	14.070	535.88	13.986	544.19	14.023	886.15	14.022	558.20
14.011	372.93	14.061	517.10	14.050	534.87	13.966	542.79	14.002	886.01	14.002	557.12
13.991	372.12	14.041	516.11	14.030	533.87	13.946	541.45	13.982	885.86	13.982	556.16
13.971	371.32	14.021	515.15	14.010	532.85	13.926	540.64	13.962	885.68	13.962	555.15
13.951	370.57	14.000	514.17	13.990	531.92	13.906	539.72	13.941	885.45	13.942	554.11
13.931	369.74	13.980	513.10	13.970	530.89	13.887	538.52	13.921	885.29	13.922	553.17
13.911	368.96	13.960	512.07	13.950	529.84	13.867	537.62	13.900	885.09	13.902	552.15
13.891	368.18	13.940	511.05	13.930	528.86	13.847	536.65	13.880	884.94	13.882	551.18
13.871	367.35	13.920	510.00	13.910	527.87	13.827	535.66	13.860	884.79	13.862	550.12
13.851	366.59	13.900	508.93	13.890	526.84	13.807	534.32	13.839	884.63	13.842	549.11
13.831	365.78	13.880	507.87	13.870	525.75	13.787	533.62	13.819	884.39	13.822	548.13
13.811	364.97	13.860	506.88	13.850	524.79	13.767	532.60	13.798	884.28	13.802	547.12
13.791	364.15	13.840	505.82	13.830	523.74	13.747	531.54	13.778	884.09	13.782	546.06
13.771	363.39	13.820	504.79	13.810	522.70	13.727	530.48	13.758	883.90	13.762	544.98
13.751	362.54	13.800	503.75	13.791	521.61	13.707	529.42	13.737	883.72	13.742	543.95
13.731	361.74	13.780	502.60	13.771	520.58	13.687	528.39	13.717	883.57	13.722	542.82
13.711	360.96	13.760	501.58	13.751	519.55	13.667	527.30	13.696	883.36	13.702	541.78
13.691	360.19	13.739	500.56	13.731	518.55	13.647	526.28	13.676	883.20	13.682	540.71
13.671	359.40	13.719	499.40	13.711	517.43	13.627	525.19	13.656	882.99	13.662	539.64

13.651	358.51	13.699	498.34	13.691	516.27	13.607	524.11	13.635	882.83	13.642	538.53
13.631	357.73	13.679	497.22	13.671	515.15	13.587	522.99	13.615	882.60	13.622	537.43
13.611	356.94	13.659	496.17	13.651	514.12	13.567	521.92	13.594	882.42	13.602	536.34
13.591	356.12	13.639	495.12	13.631	513.06	13.548	520.80	13.574	882.26	13.582	535.27
13.571	355.32	13.619	494.04	13.611	511.99	13.528	519.66	13.553	882.09	13.562	534.19
13.551	354.51	13.599	492.93	13.591	510.81	13.508	518.50	13.533	881.93	13.542	533.01
13.531	353.75	13.579	491.81	13.571	509.67	13.488	517.44	13.513	881.74	13.522	531.90
13.511	352.93	13.559	490.72	13.551	508.52	13.468	516.26	13.492	881.53	13.502	530.73
13.491	352.13	13.539	489.63	13.531	507.38	13.448	515.11	13.472	881.40	13.482	529.73
13.471	351.32	13.519	488.44	13.511	506.29	13.428	513.91	13.451	881.19	13.462	528.53
13.451	350.50	13.499	487.36	13.491	505.12	13.408	512.75	13.431	881.03	13.442	527.40
13.431	349.71	13.478	486.23	13.471	504.06	13.388	511.60	13.411	880.79	13.422	526.30
13.411	348.86	13.458	485.16	13.451	502.85	13.368	510.46	13.390	880.64	13.402	525.17
13.391	348.07	13.438	483.95	13.431	501.67	13.348	509.29	13.370	880.46	13.382	523.96
13.371	347.21	13.418	482.82	13.411	500.56	13.328	508.13	13.349	880.29	13.362	522.81
13.351	346.43	13.398	481.68	13.391	499.47	13.308	506.92	13.329	880.13	13.342	521.58
13.331	345.65	13.378	480.55	13.371	498.34	13.288	505.67	13.309	879.88	13.322	520.45
13.311	344.81	13.358	479.40	13.351	497.16	13.268	504.46	13.288	879.75	13.302	519.20
13.291	344.02	13.338	478.18	13.331	496.09	13.248	503.29	13.268	879.55	13.282	517.99
13.271	343.25	13.318	477.05	13.311	494.93	13.228	502.09	13.247	879.39	13.262	516.80
13.251	342.40	13.298	475.87	13.292	493.77	13.208	500.82	13.227	879.23	13.242	515.58
13.231	341.60	13.278	474.70	13.272	492.62	13.189	499.65	13.207	879.02	13.222	514.37
13.211	340.73	13.258	473.49	13.252	491.48	13.169	498.39	13.186	878.82	13.202	513.09
13.191	339.94	13.237	472.32	13.232	490.31	13.149	497.18	13.166	878.64	13.182	511.61
13.171	339.21	13.217	471.20	13.212	489.19	13.129	495.90	13.145	878.48	13.162	510.65
13.151	338.33	13.197	470.01	13.192	487.97	13.109	494.64	13.125	878.25	13.142	509.66
13.130	337.54	13.177	468.83	13.172	486.73	13.089	493.34	13.105	878.07	13.122	508.71
13.110	336.74	13.157	467.62	13.152	485.59	13.069	492.14	13.084	877.92	13.102	507.69
13.090	335.88	13.137	466.37	13.132	484.43	13.049	490.91	13.064	877.75	13.082	506.65
13.070	335.07	13.117	465.19	13.112	483.27	13.029	489.64	13.043	877.51	13.062	505.55
13.050	334.25	13.097	463.98	13.092	482.11	13.009	488.35	13.023	877.30	13.042	504.44
13.030	333.48	13.077	462.75	13.072	480.88	12.989	487.05	13.002	877.16	13.022	503.24
13.010	332.62	13.057	461.54	13.052	479.63	12.969	485.81	12.982	876.94	13.002	502.11
12.990	331.80	13.037	460.38	13.032	478.45	12.949	484.57	12.962	876.80	12.982	500.91
12.970	331.01	13.017	459.17	13.012	477.19	12.929	483.34	12.941	876.53	12.962	499.75
12.950	330.24	12.997	457.87	12.992	475.88	12.909	482.00	12.921	876.41	12.942	498.49
12.930	329.39	12.976	456.66	12.972	474.67	12.889	480.69	12.900	876.20	12.922	497.27
12.910	328.53	12.956	455.44	12.952	473.43	12.869	479.38	12.880	876.03	12.902	496.04
12.890	327.76	12.936	454.22	12.932	472.18	12.850	478.10	12.860	875.80	12.882	494.79
12.870	326.94	12.916	452.98	12.912	470.94	12.830	476.81	12.839	875.63	12.862	493.55
12.850	326.14	12.896	451.70	12.892	469.61	12.810	475.48	12.819	875.47	12.842	492.26
12.830	325.29	12.876	450.41	12.872	468.37	12.790	474.14	12.798	875.26	12.822	490.87
12.810	324.48	12.856	449.20	12.852	467.11	12.770	472.88	12.778	875.09	12.802	489.55
12.790	323.71	12.836	447.88	12.832	465.80	12.750	471.49	12.758	874.89	12.782	488.24
12.770	322.97	12.816	446.66	12.813	464.54	12.730	470.08	12.737	874.66	12.762	486.92
12.750	322.37	12.796	445.39	12.793	463.26	12.710	468.76	12.717	874.48	12.742	485.62
12.730	321.84	12.776	444.08	12.773	461.98	12.690	467.44	12.696	874.27	12.722	484.26
12.710	321.03	12.756	442.88	12.753	460.63	12.670	466.07	12.676	874.07	12.702	482.90
12.690	320.26	12.736	441.64	12.733	459.33	12.650	464.74	12.656	873.89	12.682	481.46
12.670	319.46	12.715	440.30	12.713	458.03	12.630	463.43	12.635	873.70	12.662	480.10
12.650	318.65	12.695	439.05	12.693	456.77	12.610	461.99	12.615	873.50	12.642	478.73
12.630	317.86	12.675	437.77	12.673	455.43	12.590	460.59	12.594	873.25	12.622	477.36
12.610	317.07	12.655	436.48	12.653	454.08	12.570	459.31	12.574	873.07	12.602	475.98
12.590	316.23	12.635	435.20	12.633	452.76	12.550	457.90	12.554	872.86	12.582	474.48
12.570	315.43	12.615	433.92	12.613	451.47	12.530	456.50	12.533	872.68	12.562	473.14

12.550	314.61	12.595	432.60	12.593	450.09	12.510	455.12	12.513	872.50	12.542	471.68
12.530	313.87	12.575	431.29	12.573	448.74	12.491	453.72	12.492	872.27	12.522	470.25
12.510	313.06	12.555	430.06	12.553	447.35	12.471	452.31	12.472	872.07	12.502	468.83
12.490	312.27	12.535	428.74	12.533	446.05	12.451	450.84	12.451	871.86	12.482	467.41
12.470	311.47	12.515	427.43	12.513	444.61	12.431	449.51	12.431	871.65	12.462	465.96
12.450	310.63	12.495	426.12	12.493	443.19	12.411	448.13	12.411	871.48	12.442	464.49
12.430	309.81	12.474	424.81	12.473	441.88	12.391	446.69	12.390	871.29	12.422	463.05
12.410	309.02	12.454	423.53	12.453	440.50	12.371	445.29	12.370	871.04	12.402	461.62
12.390	308.26	12.434	422.26	12.433	439.05	12.351	443.86	12.349	870.80	12.382	460.23
12.370	307.47	12.414	420.89	12.413	437.67	12.331	442.48	12.329	870.66	12.362	458.71
12.350	306.65	12.394	419.50	12.393	436.27	12.311	441.03	12.309	870.43	12.342	457.29
12.330	305.79	12.374	418.18	12.373	434.91	12.291	439.67	12.288	870.22	12.322	455.82
12.310	305.02	12.354	416.86	12.353	433.48	12.271	438.78	12.268	870.03	12.302	454.37
12.290	304.22	12.334	415.56	12.334	432.13	12.251	437.71	12.247	869.82	12.282	452.91
12.270	303.44	12.314	414.34	12.314	430.79	12.231	436.59	12.227	869.63	12.262	451.39
12.250	302.59	12.294	413.00	12.294	429.40	12.211	435.44	12.207	869.39	12.242	449.92
12.230	301.80	12.274	411.65	12.274	427.92	12.191	434.24	12.186	869.24	12.222	448.46
12.210	301.04	12.254	410.35	12.254	426.51	12.171	433.03	12.166	869.00	12.202	446.97
12.190	300.24	12.234	409.05	12.234	425.09	12.152	431.74	12.145	868.81	12.182	445.48
12.170	299.41	12.213	407.74	12.214	423.69	12.132	430.58	12.125	868.62	12.162	443.96
12.150	298.60	12.193	406.42	12.194	422.26	12.112	429.32	12.105	868.41	12.142	442.44
12.130	297.78	12.173	405.02	12.174	420.87	12.092	428.06	12.084	868.21	12.122	440.90
12.110	296.97	12.153	403.68	12.154	419.48	12.072	426.91	12.064	868.01	12.102	439.41
12.090	296.19	12.133	402.39	12.134	418.06	12.052	425.59	12.043	867.81	12.082	437.91
12.070	295.40	12.113	401.08	12.114	416.69	12.032	424.27	12.023	867.60	12.062	436.43
12.050	294.58	12.093	399.71	12.094	415.28	12.012	423.00	12.003	867.38	12.042	434.87
12.030	293.83	12.073	398.36	12.074	413.87	11.992	421.73	11.982	867.19	12.022	433.26
12.010	292.99	12.053	397.10	12.054	412.46	11.972	420.34	11.962	867.02	12.002	431.82
11.990	292.14	12.033	395.76	12.034	411.01	11.952	418.90	11.941	866.79	11.982	430.26
11.970	291.39	12.013	394.46	12.014	409.64	11.932	417.57	11.921	866.56	11.962	428.79
11.950	290.62	11.993	393.08	11.994	408.21	11.912	416.25	11.900	866.38	11.942	427.22
11.930	289.84	11.972	391.71	11.974	406.83	11.892	414.84	11.880	866.15	11.922	425.67
11.910	289.03	11.952	390.34	11.954	405.37	11.872	413.48	11.860	865.97	11.902	424.09
11.890	288.21	11.932	389.04	11.934	403.93	11.852	412.15	11.839	865.74	11.882	422.63
11.870	287.44	11.912	387.75	11.914	402.56	11.832	410.70	11.819	865.56	11.862	420.99
11.850	286.66	11.892	386.35	11.894	401.17	11.812	409.29	11.798	865.32	11.842	419.53
11.830	285.81	11.872	385.03	11.874	399.77	11.793	407.87	11.778	865.15	11.822	417.99
11.810	285.03	11.852	383.66	11.855	398.36	11.773	406.47	11.758	864.93	11.802	416.43
11.790	284.27	11.832	382.37	11.835	396.89	11.753	405.04	11.737	864.74	11.782	414.86
11.770	283.45	11.812	381.01	11.815	395.53	11.733	403.68	11.717	864.50	11.762	413.37
11.750	282.67	11.792	379.64	11.795	394.07	11.713	402.20	11.696	864.32	11.742	411.86
11.730	281.90	11.772	378.34	11.775	392.69	11.693	400.79	11.676	864.09	11.722	410.29
11.710	281.10	11.752	377.10	11.755	391.25	11.673	399.26	11.656	863.83	11.702	408.80
11.689	280.29	11.732	375.69	11.735	389.85	11.653	397.90	11.635	863.66	11.682	407.18
11.669	279.49	11.711	374.36	11.715	388.47	11.633	396.44	11.615	863.43	11.662	405.70
11.649	278.72	11.691	373.06	11.695	387.03	11.613	395.07	11.594	863.19	11.642	404.11
11.629	277.95	11.671	371.72	11.675	385.64	11.593	393.58	11.574	862.94	11.622	402.56
11.609	277.15	11.651	370.45	11.655	384.20	11.573	392.10	11.554	862.75	11.602	400.94
11.589	276.39	11.631	369.05	11.635	382.80	11.553	390.51	11.533	862.53	11.582	399.26
11.569	275.61	11.611	367.75	11.615	381.41	11.533	389.03	11.513	862.29	11.562	397.75
11.549	274.79	11.591	366.42	11.595	379.98	11.513	387.60	11.492	862.09	11.542	396.17
11.529	274.00	11.571	365.16	11.575	378.62	11.493	386.06	11.472	861.88	11.522	395.18
11.509	273.31	11.551	363.88	11.555	377.22	11.473	384.63	11.452	861.63	11.502	393.73
11.489	272.51	11.531	362.52	11.535	375.85	11.454	383.20	11.431	861.41	11.482	392.53
11.469	271.72	11.511	361.23	11.515	374.46	11.434	381.73	11.411	861.20	11.462	391.15

11.449	270.98	11.491	359.96	11.495	373.02	11.414	380.25	11.390	860.96	11.442	389.81
11.429	270.19	11.471	358.63	11.475	371.64	11.394	378.77	11.370	860.73	11.422	388.46
11.409	269.42	11.450	357.28	11.455	370.21	11.374	377.27	11.349	860.49	11.402	387.03
11.389	268.61	11.430	356.02	11.435	368.85	11.354	375.83	11.329	860.24	11.382	385.69
11.369	267.86	11.410	354.76	11.415	367.38	11.334	374.28	11.309	860.02	11.362	384.30
11.349	267.08	11.390	353.43	11.395	365.97	11.314	372.79	11.288	859.81	11.342	382.94
11.329	266.33	11.370	352.10	11.376	364.63	11.294	371.36	11.268	859.58	11.322	381.51
11.309	265.58	11.350	350.84	11.356	363.26	11.274	369.88	11.247	859.34	11.302	380.09
11.289	264.80	11.330	349.57	11.336	361.87	11.254	368.40	11.227	859.09	11.282	378.70
11.269	264.13	11.310	348.28	11.316	360.56	11.234	367.00	11.207	858.89	11.262	377.22
11.249	263.50	11.290	346.98	11.296	359.22	11.214	365.47	11.186	858.68	11.242	375.60
11.229	262.76	11.270	345.70	11.276	357.84	11.194	364.03	11.166	858.43	11.222	374.17
11.209	261.95	11.250	344.41	11.256	356.39	11.174	362.61	11.145	858.15	11.202	372.67
11.189	261.25	11.230	343.13	11.236	355.09	11.154	361.07	11.125	857.94	11.182	371.27
11.169	260.53	11.209	341.87	11.216	353.77	11.134	359.66	11.105	857.70	11.162	369.80
11.149	259.74	11.189	340.53	11.196	352.35	11.114	358.13	11.084	857.46	11.142	368.30
11.129	259.02	11.169	339.25	11.176	351.00	11.095	356.61	11.064	857.21	11.122	366.84
11.109	258.25	11.149	338.03	11.156	349.70	11.075	355.18	11.043	857.01	11.102	365.32
11.089	257.49	11.129	336.78	11.136	348.34	11.055	353.72	11.023	856.78	11.082	363.90
11.069	256.80	11.109	335.49	11.116	347.00	11.035	352.31	11.003	856.55	11.062	362.43
11.049	255.98	11.089	334.21	11.096	345.61	11.015	350.84	10.982	856.35	11.042	360.97
11.029	255.28	11.069	332.90	11.076	344.32	10.995	349.34	10.962	856.12	11.022	359.47
11.009	254.56	11.049	331.68	11.056	342.98	10.975	347.97	10.941	855.90	11.002	358.08
10.989	253.79	11.029	330.41	11.036	341.63	10.955	346.51	10.921	855.58	10.982	356.52
10.969	253.03	11.009	329.21	11.016	340.28	10.935	345.13	10.901	855.39	10.962	355.07
10.949	252.27	10.989	327.89	10.996	338.99	10.915	343.75	10.880	855.16	10.942	353.62
10.929	251.55	10.969	326.69	10.976	337.67	10.895	342.33	10.860	854.92	10.922	352.15
10.909	250.84	10.948	325.43	10.956	336.40	10.875	340.89	10.839	854.67	10.902	350.67
10.889	250.10	10.928	324.24	10.936	335.07	10.855	339.52	10.819	854.43	10.882	349.06
10.869	249.28	10.908	323.01	10.916	333.72	10.835	338.10	10.799	854.26	10.862	347.57
10.849	248.53	10.888	321.77	10.896	332.43	10.815	336.70	10.778	854.02	10.842	346.15
10.829	247.81	10.868	320.52	10.877	331.16	10.795	335.38	10.758	853.72	10.822	344.67
10.809	247.08	10.848	319.33	10.857	329.84	10.775	333.92	10.737	853.52	10.802	343.25
10.789	246.37	10.828	318.10	10.837	328.55	10.756	332.49	10.717	853.26	10.782	341.76
10.769	245.71	10.808	316.91	10.817	327.27	10.736	331.11	10.696	853.04	10.762	340.42
10.749	244.95	10.788	315.64	10.797	325.97	10.716	329.72	10.676	852.79	10.742	338.94
10.729	244.14	10.768	314.43	10.777	324.66	10.696	328.39	10.656	852.54	10.722	337.52
10.709	243.40	10.748	313.29	10.757	323.41	10.676	326.98	10.635	852.29	10.702	336.06
10.689	242.74	10.728	312.06	10.737	322.16	10.656	325.65	10.615	852.05	10.682	334.67
10.669	242.01	10.708	310.88	10.717	320.82	10.636	324.31	10.594	851.81	10.662	333.23
10.649	241.22	10.687	309.66	10.697	319.54	10.616	322.98	10.574	851.56	10.642	331.89
10.629	240.57	10.667	308.50	10.677	318.37	10.596	321.58	10.554	851.32	10.622	330.54
10.609	239.79	10.647	307.33	10.657	317.07	10.576	320.32	10.533	851.08	10.602	329.08
10.589	239.06	10.627	306.14	10.637	315.79	10.556	319.00	10.513	850.86	10.582	327.75
10.569	238.38	10.607	304.95	10.617	314.59	10.536	317.64	10.492	850.59	10.562	326.35
10.549	237.66	10.587	303.74	10.597	313.34	10.516	316.35	10.472	850.36	10.542	324.79
10.529	236.92	10.567	302.59	10.577	312.09	10.496	314.92	10.452	850.09	10.522	323.50
10.509	236.18	10.547	301.45	10.557	310.87	10.476	313.61	10.431	849.84	10.502	322.08
10.489	235.42	10.527	300.28	10.537	309.66	10.456	312.28	10.411	849.60	10.482	320.75
10.469	234.77	10.507	299.14	10.517	308.39	10.436	310.95	10.390	849.30	10.462	319.32
10.449	234.04	10.487	297.98	10.497	307.17	10.416	309.66	10.370	849.07	10.442	317.97
10.429	233.33	10.467	296.82	10.477	306.00	10.397	308.41	10.350	848.79	10.422	316.69
10.409	232.63	10.446	295.72	10.457	304.77	10.377	307.15	10.329	848.53	10.402	315.27
10.389	231.89	10.426	294.52	10.437	303.54	10.357	305.83	10.309	848.28	10.382	313.97
10.369	231.22	10.406	293.35	10.417	302.35	10.337	304.59	10.288	848.04	10.362	312.63

10.349	230.53	10.386	292.25	10.398	301.11	10.317	303.33	10.268	847.71	10.342	311.34
10.329	229.80	10.366	291.15	10.378	299.95	10.297	302.11	10.248	847.47	10.322	310.04
10.309	229.05	10.346	290.07	10.358	298.75	10.277	300.83	10.227	847.22	10.302	308.72
10.289	228.38	10.326	288.91	10.338	297.59	10.257	299.57	10.207	846.98	10.282	307.44
10.269	227.70	10.306	287.76	10.318	296.39	10.237	298.43	10.186	846.67	10.262	306.09
10.248	226.95	10.286	286.64	10.298	295.17	10.217	297.20	10.166	846.40	10.242	304.83
10.228	226.30	10.266	285.52	10.278	294.04	10.197	295.90	10.145	846.16	10.222	303.46
10.208	225.53	10.246	284.46	10.258	292.86	10.177	294.66	10.125	845.91	10.202	302.18
10.188	224.86	10.226	283.35	10.238	291.74	10.157	293.47	10.105	845.66	10.182	300.83
10.168	224.16	10.206	282.23	10.218	290.57	10.137	292.15	10.084	845.41	10.162	299.67
10.148	223.48	10.185	281.21	10.198	289.38	10.117	291.00	10.064	845.18	10.142	298.35
10.128	222.77	10.165	280.08	10.178	288.26	10.097	289.78	10.043	844.93	10.122	297.10
10.108	222.08	10.145	279.02	10.158	287.10	10.077	288.60	10.023	844.69	10.102	295.79
10.088	221.39	10.125	277.91	10.138	285.94	10.058	287.38	10.003	844.42	10.082	294.57
10.068	220.71	10.105	276.85	10.118	284.82	10.038	286.21	9.982	844.19	10.062	293.40
10.048	220.01	10.085	275.80	10.098	283.66	10.018	285.02	9.962	843.95	10.042	292.11
10.028	219.34	10.065	274.71	10.078	282.49	9.998	283.91	9.941	843.66	10.022	290.89
10.008	218.69	10.045	273.62	10.058	281.35	9.978	282.73	9.921	843.46	10.002	289.67
9.988	217.99	10.025	272.60	10.038	280.28	9.958	281.52	9.901	843.18	9.982	288.46
9.968	217.29	10.005	271.51	10.018	279.20	9.938	280.37	9.880	842.93	9.962	287.16
9.948	216.62	9.985	270.45	9.998	278.11	9.918	279.21	9.860	842.64	9.942	286.03
9.928	215.87	9.965	269.36	9.978	277.05	9.898	278.10	9.839	842.39	9.922	284.71
9.908	215.24	9.944	268.34	9.958	276.02	9.878	276.88	9.819	842.12	9.902	283.52
9.888	214.56	9.924	267.34	9.938	275.01	9.858	275.75	9.799	841.82	9.882	282.33
9.868	213.91	9.904	266.27	9.919	273.95	9.838	274.67	9.778	841.57	9.862	281.08
9.848	213.20	9.884	265.25	9.899	272.91	9.818	273.51	9.758	841.17	9.842	279.94
9.828	212.58	9.864	264.15	9.879	271.91	9.798	272.38	9.737	840.67	9.822	278.78
9.808	211.88	9.844	263.14	9.859	270.85	9.778	271.29	9.717	840.17	9.802	277.60
9.788	211.23	9.824	262.12	9.839	269.79	9.758	270.13	9.697	839.67	9.782	276.42
9.768	210.57	9.804	261.14	9.819	268.69	9.738	269.04	9.676	839.17	9.762	275.24
9.748	209.90	9.784	260.11	9.799	267.64	9.719	267.95	9.656	839.36	9.742	274.12
9.728	209.27	9.764	259.09	9.779	266.61	9.699	266.87	9.635	839.36	9.722	272.97
9.708	208.56	9.744	258.07	9.759	265.54	9.679	265.78	9.615	839.14	9.702	271.82
9.688	207.90	9.724	257.10	9.739	264.50	9.659	264.70	9.594	838.87	9.682	270.69
9.668	207.27	9.704	256.08	9.719	263.48	9.639	263.56	9.574	838.68	9.662	269.55
9.648	206.57	9.683	255.06	9.699	262.44	9.619	262.41	9.554	838.38	9.642	268.41
9.628	205.94	9.663	254.11	9.679	261.43	9.599	261.39	9.533	838.13	9.622	267.35
9.608	205.30	9.643	253.08	9.659	260.33	9.579	260.31	9.513	837.87	9.602	266.19
9.588	204.60	9.623	252.11	9.639	259.28	9.559	259.28	9.492	837.60	9.582	265.00
9.568	203.95	9.603	251.14	9.619	258.22	9.539	258.20	9.472	837.36	9.562	263.88
9.548	203.31	9.583	250.17	9.599	257.23	9.519	257.19	9.452	837.03	9.542	262.78
9.528	202.65	9.563	249.17	9.579	256.16	9.499	256.10	9.431	836.82	9.522	261.68
9.508	202.01	9.543	248.21	9.559	255.20	9.479	255.07	9.411	836.53	9.502	260.60
9.488	201.35	9.523	247.25	9.539	254.18	9.459	254.09	9.390	836.21	9.482	259.48
9.468	200.71	9.503	246.30	9.519	253.19	9.439	253.07	9.370	835.92	9.462	258.44
9.448	200.03	9.483	245.32	9.499	252.17	9.419	251.99	9.350	835.64	9.442	257.35
9.428	199.49	9.463	244.38	9.479	251.13	9.399	251.02	9.329	835.37	9.422	256.31
9.408	198.82	9.443	243.40	9.459	250.15	9.379	249.95	9.309	835.09	9.402	255.21
9.388	198.19	9.422	242.46	9.440	249.14	9.360	248.95	9.288	834.79	9.382	254.14
9.368	197.54	9.402	241.58	9.420	248.18	9.340	247.94	9.268	834.49	9.362	253.08
9.348	196.90	9.382	240.54	9.400	247.16	9.320	246.92	9.248	834.16	9.342	252.07
9.328	196.24	9.362	239.62	9.380	246.16	9.300	245.92	9.227	833.89	9.322	251.00
9.308	195.59	9.342	238.76	9.360	245.18	9.280	244.86	9.207	833.61	9.302	249.95
9.288	195.00	9.322	237.79	9.340	244.20	9.260	243.84	9.186	833.30	9.282	248.96
9.268	194.35	9.302	236.85	9.320	243.22	9.240	242.87	9.166	832.98	9.262	247.93

9.248	193.70	9.282	235.94	9.300	242.26	9.220	241.92	9.146	832.66	9.242	246.88
9.228	193.11	9.262	235.02	9.280	241.32	9.200	240.95	9.125	832.46	9.222	245.73
9.208	192.44	9.242	234.12	9.260	240.35	9.180	239.99	9.105	832.10	9.202	244.75
9.188	191.80	9.222	233.22	9.240	239.37	9.160	239.05	9.084	831.90	9.182	243.77
9.168	191.22	9.202	232.29	9.220	238.40	9.140	238.06	9.064	831.61	9.162	242.70
9.148	190.55	9.181	231.41	9.200	237.46	9.120	237.10	9.043	831.26	9.142	241.76
9.128	189.96	9.161	230.49	9.180	236.51	9.100	236.17	9.023	831.03	9.122	240.72
9.108	189.31	9.141	229.57	9.160	235.59	9.080	235.18	9.003	830.74	9.102	239.74
9.088	188.73	9.121	228.66	9.140	234.69	9.060	234.27	8.982	830.46	9.082	238.78
9.068	188.11	9.101	227.83	9.120	233.69	9.040	233.22	8.962	830.15	9.062	237.80
9.048	187.51	9.081	226.94	9.100	232.78	9.021	232.29	8.941	829.84	9.042	236.84
9.028	186.87	9.061	226.02	9.080	231.85	9.001	231.34	8.921	829.52	9.022	235.87
9.008	186.22	9.041	225.16	9.060	230.91	8.981	230.42	8.901	829.25	9.002	234.89
8.988	185.64	9.021	224.27	9.040	230.00	8.961	229.48	8.880	828.93	8.982	233.90
8.968	185.03	9.001	223.45	9.020	229.11	8.941	228.61	8.860	828.66	8.962	232.93
8.948	184.44	8.981	222.51	9.000	228.19	8.921	227.65	8.839	828.32	8.942	231.96
8.928	183.82	8.961	221.64	8.980	227.31	8.901	226.70	8.819	828.00	8.922	231.00
8.908	183.15	8.941	220.84	8.961	226.39	8.881	225.85	8.799	827.74	8.902	230.02
8.888	182.57	8.920	219.94	8.941	225.52	8.861	224.92	8.778	827.40	8.882	229.08
8.868	181.95	8.900	219.05	8.921	224.58	8.841	224.03	8.758	827.06	8.862	228.14
8.848	181.38	8.880	218.24	8.901	223.71	8.821	223.08	8.737	826.76	8.842	227.16
8.828	180.76	8.860	217.40	8.881	222.80	8.801	222.22	8.717	826.45	8.822	226.25
8.807	180.17	8.840	216.56	8.861	221.94	8.781	221.33	8.697	826.10	8.802	225.28
8.787	179.60	8.820	215.62	8.841	221.03	8.761	220.41	8.676	825.83	8.782	224.39
8.767	179.00	8.800	214.78	8.821	220.16	8.741	219.48	8.656	825.48	8.762	223.46
8.747	178.39	8.780	213.99	8.801	219.26	8.721	218.59	8.635	825.15	8.742	222.54
8.727	177.80	8.760	213.13	8.781	218.38	8.701	217.69	8.615	824.81	8.722	221.61
8.707	177.21	8.740	212.30	8.761	217.56	8.681	216.80	8.595	824.52	8.702	220.69
8.687	176.60	8.720	211.45	8.741	216.67	8.662	215.96	8.574	824.14	8.682	219.82
8.667	175.98	8.700	210.67	8.721	215.82	8.642	215.11	8.554	823.80	8.662	218.94
8.647	175.39	8.680	209.82	8.701	214.96	8.622	214.20	8.533	823.49	8.642	217.94
8.627	174.78	8.659	209.03	8.681	214.10	8.602	213.40	8.513	823.16	8.622	217.09
8.607	174.26	8.639	208.18	8.661	213.22	8.582	212.50	8.492	822.78	8.602	216.17
8.587	173.65	8.619	207.39	8.641	212.40	8.562	211.70	8.472	822.47	8.582	215.31
8.567	173.03	8.599	206.55	8.621	211.54	8.542	210.78	8.452	822.08	8.562	214.42
8.547	172.44	8.579	205.83	8.601	210.77	8.522	209.92	8.431	821.76	8.542	213.57
8.527	171.86	8.559	204.96	8.581	209.87	8.502	209.11	8.411	821.43	8.522	212.68
8.507	171.31	8.539	204.17	8.561	209.04	8.482	208.26	8.390	821.03	8.502	211.78
8.487	170.70	8.519	203.40	8.541	208.23	8.462	207.41	8.370	820.70	8.482	210.94
8.467	170.11	8.499	202.58	8.521	207.38	8.442	206.59	8.350	820.37	8.462	210.09
8.447	169.56	8.479	201.79	8.501	206.55	8.422	205.73	8.329	820.00	8.442	209.23
8.427	168.99	8.459	201.01	8.482	205.75	8.402	204.92	8.309	819.63	8.422	208.32
8.407	168.41	8.439	200.23	8.462	204.96	8.382	204.10	8.288	819.30	8.402	207.45
8.387	167.87	8.418	199.41	8.442	204.12	8.362	203.27	8.268	818.96	8.382	206.63
8.367	167.25	8.398	198.62	8.422	203.32	8.342	202.47	8.248	818.59	8.362	205.77
8.347	166.66	8.378	197.89	8.402	202.47	8.323	201.66	8.227	818.22	8.342	204.90
8.327	166.10	8.358	197.12	8.382	201.68	8.303	200.77	8.207	817.83	8.322	204.10
8.307	165.51	8.338	196.29	8.362	200.89	8.283	199.98	8.186	817.50	8.302	203.31
8.287	164.95	8.318	195.53	8.342	200.12	8.263	199.18	8.166	817.16	8.282	202.42
8.267	164.41	8.298	194.75	8.322	199.31	8.243	198.37	8.146	816.76	8.262	201.62
8.247	163.82	8.278	194.02	8.302	198.51	8.223	197.58	8.125	816.44	8.242	200.81
8.227	163.29	8.258	193.24	8.282	197.73	8.203	196.80	8.105	816.04	8.222	200.00
8.207	162.69	8.238	192.49	8.262	196.91	8.183	195.98	8.084	815.66	8.202	199.11
8.187	162.13	8.218	191.72	8.242	196.09	8.163	195.17	8.064	815.27	8.182	198.30
8.167	161.60	8.198	190.97	8.222	195.34	8.143	194.40	8.044	814.95	8.162	197.49



8.147	160.98	8.178	190.19	8.202	194.58	8.123	193.61	8.023	814.54	8.142	196.65
8.127	160.46	8.157	189.49	8.182	193.79	8.103	192.78	8.003	814.16	8.122	195.81
8.107	159.91	8.137	188.70	8.162	193.05	8.083	192.03	7.982	813.78	8.102	195.07
8.087	159.35	8.117	187.96	8.142	192.29	8.063	191.29	7.962	813.39	8.082	194.25
8.067	158.74	8.097	187.22	8.122	191.52	8.043	190.45	7.942	813.00	8.062	193.44
8.047	158.18	8.077	186.51	8.102	190.75	8.023	189.68	7.921	812.62	8.042	192.64
8.027	157.64	8.057	185.78	8.082	189.99	8.003	188.91	7.901	812.26	8.022	191.87
8.007	157.10	8.037	185.00	8.062	189.19	7.983	188.15	7.880	811.89	8.002	191.10
7.987	156.57	8.017	184.30	8.042	188.47	7.964	187.44	7.860	811.50	7.982	190.33
7.967	156.01	7.997	183.54	8.022	187.67	7.944	186.66	7.839	811.12	7.962	189.51
7.947	155.45	7.977	182.87	8.002	186.95	7.924	185.95	7.819	810.72	7.942	188.68
7.927	154.90	7.957	182.11	7.983	186.20	7.904	185.09	7.799	810.30	7.922	187.95
7.907	154.36	7.937	181.38	7.963	185.41	7.884	184.39	7.778	809.91	7.902	187.15
7.887	153.81	7.917	180.65	7.943	184.70	7.864	183.59	7.758	809.53	7.882	186.41
7.867	153.28	7.896	179.99	7.923	183.96	7.844	182.89	7.737	809.13	7.862	185.67
7.847	152.71	7.876	179.23	7.903	183.22	7.824	182.17	7.717	808.66	7.842	184.87
7.827	152.14	7.856	178.51	7.883	182.46	7.804	181.38	7.697	808.32	7.822	184.12
7.807	151.63	7.836	177.80	7.863	181.74	7.784	180.64	7.676	807.87	7.802	183.37
7.787	151.09	7.816	177.09	7.843	181.00	7.764	179.97	7.656	807.47	7.782	182.62
7.767	150.53	7.796	176.35	7.823	180.26	7.744	179.17	7.635	807.08	7.762	181.86
7.747	149.96	7.776	175.67	7.803	179.55	7.724	178.44	7.615	806.65	7.742	181.09
7.727	149.48	7.756	174.95	7.783	178.78	7.704	177.69	7.595	806.21	7.722	180.31
7.707	148.93	7.736	174.28	7.763	178.12	7.684	177.00	7.574	805.81	7.702	179.55
7.687	148.44	7.716	173.53	7.743	177.39	7.664	176.26	7.554	805.42	7.682	178.81
7.667	147.89	7.696	172.90	7.723	176.64	7.644	175.55	7.533	804.99	7.662	178.09
7.647	147.29	7.676	172.18	7.703	175.95	7.625	174.82	7.513	804.55	7.642	177.39
7.627	146.82	7.655	171.47	7.683	175.23	7.605	174.10	7.493	804.10	7.622	176.67
7.607	146.25	7.635	170.85	7.663	174.55	7.585	173.44	7.472	803.69	7.602	175.90
7.587	145.78	7.615	170.12	7.643	173.82	7.565	172.71	7.452	803.27	7.582	175.15
7.567	145.19	7.595	169.42	7.623	173.09	7.545	172.03	7.431	802.86	7.562	174.44
7.547	144.69	7.575	168.75	7.603	172.41	7.525	171.28	7.411	802.44	7.542	173.72
7.527	144.12	7.555	168.10	7.583	171.74	7.505	170.55	7.391	801.96	7.522	172.99
7.507	143.62	7.535	167.41	7.563	171.00	7.485	169.84	7.370	801.54	7.502	172.24
7.487	143.13	7.515	166.73	7.543	170.33	7.465	169.16	7.350	801.11	7.482	171.56
7.467	142.56	7.495	166.06	7.523	169.66	7.445	168.49	7.329	800.64	7.462	170.80
7.447	142.04	7.475	165.41	7.504	169.03	7.425	167.77	7.309	800.15	7.442	170.12
7.427	141.55	7.455	164.75	7.484	168.31	7.405	167.09	7.288	799.74	7.422	169.42
7.407	140.99	7.435	164.05	7.464	167.58	7.385	166.44	7.268	799.22	7.402	168.71
7.387	140.47	7.415	163.37	7.444	166.88	7.365	165.74	7.248	798.74	7.382	167.98
7.367	139.97	7.394	162.74	7.424	166.22	7.345	165.04	7.227	798.27	7.362	167.35
7.346	139.47	7.374	162.07	7.404	165.57	7.325	164.39	7.207	797.79	7.342	166.63
7.326	138.97	7.354	161.39	7.384	164.87	7.305	163.65	7.186	797.33	7.322	165.93
7.306	138.47	7.334	160.72	7.364	164.22	7.285	163.02	7.166	796.89	7.302	165.19
7.286	137.95	7.314	160.09	7.344	163.56	7.266	162.31	7.146	796.32	7.282	164.54
7.266	137.40	7.294	159.46	7.324	162.83	7.246	161.66	7.125	795.89	7.262	163.80
7.246	136.90	7.274	158.82	7.304	162.21	7.226	160.99	7.105	795.38	7.242	163.13
7.226	136.39	7.254	158.11	7.284	161.55	7.206	160.32	7.084	794.93	7.222	162.45
7.206	135.87	7.234	157.48	7.264	160.90	7.186	159.63	7.064	794.42	7.202	161.83
7.186	135.36	7.214	156.85	7.244	160.23	7.166	159.02	7.044	793.93	7.182	161.12
7.166	134.88	7.194	156.22	7.224	159.58	7.146	158.33	7.023	793.39	7.162	160.42
7.146	134.39	7.174	155.54	7.204	158.90	7.126	157.68	7.003	792.84	7.142	159.79
7.126	133.86	7.153	154.93	7.184	158.23	7.106	157.02	6.982	792.37	7.122	159.07
7.106	133.34	7.133	154.32	7.164	157.63	7.086	156.34	6.962	791.84	7.102	158.41
7.086	132.85	7.113	153.65	7.144	156.97	7.066	155.72	6.942	791.30	7.082	157.73
7.066	132.34	7.093	152.98	7.124	156.30	7.046	155.08	6.921	790.80	7.062	157.10

7.046	131.82	7.073	152.36	7.104	155.63	7.026	154.42	6.901	790.25	7.042	156.41
7.026	131.33	7.053	151.71	7.084	155.00	7.006	153.76	6.880	789.67	7.022	155.79
7.006	130.85	7.033	151.09	7.064	154.33	6.986	153.14	6.860	789.14	7.002	155.15
6.986	130.36	7.013	150.50	7.044	153.66	6.966	152.45	6.840	788.61	6.982	154.44
6.966	129.83	6.993	149.87	7.025	153.09	6.946	151.81	6.819	788.05	6.962	153.77
6.946	129.34	6.973	149.23	7.005	152.45	6.927	151.21	6.799	787.49	6.942	153.12
6.926	128.87	6.953	148.65	6.985	151.75	6.907	150.55	6.778	786.97	6.922	152.51
6.906	128.35	6.933	148.00	6.965	151.16	6.887	149.90	6.758	786.48	6.902	151.84
6.886	127.86	6.913	147.43	6.945	150.53	6.867	149.27	6.737	785.91	6.882	151.19
6.866	127.38	6.892	146.83	6.925	149.87	6.847	148.64	6.717	785.34	6.862	150.58
6.846	126.88	6.872	146.23	6.905	149.20	6.827	148.02	6.697	784.77	6.842	149.97
6.826	126.40	6.852	145.62	6.885	148.60	6.807	147.45	6.676	784.19	6.822	149.26
6.806	125.90	6.832	144.97	6.865	147.96	6.787	146.78	6.656	783.62	6.802	148.61
6.786	125.42	6.812	144.37	6.845	147.37	6.767	146.18	6.635	783.05	6.782	147.96
6.766	124.94	6.792	143.72	6.825	146.77	6.747	145.56	6.615	782.47	6.762	147.39
6.746	124.44	6.772	143.11	6.805	146.29	6.727	144.91	6.595	781.74	6.742	146.71
6.726	123.95	6.752	142.49	6.785	145.57	6.707	144.30	6.574	781.41	6.722	146.11
6.706	123.48	6.732	141.95	6.765	145.01	6.687	143.66	6.554	780.67	6.702	145.47
6.686	122.99	6.712	141.36	6.745	144.40	6.667	143.09	6.533	780.08	6.682	144.71
6.666	122.50	6.692	140.71	6.725	143.69	6.647	142.48	6.513	779.61	6.662	144.22
6.646	121.98	6.672	140.18	6.705	143.02	6.627	141.85	6.493	779.13	6.642	143.56
6.626	121.57	6.652	139.55	6.685	142.48	6.607	141.27	6.472	778.64	6.622	142.93
6.606	121.06	6.631	138.98	6.665	141.89	6.587	140.66	6.452	778.11	6.602	142.31
6.586	120.54	6.611	138.39	6.645	141.23	6.568	140.05	6.431	777.62	6.582	141.67
6.566	120.06	6.591	137.84	6.625	140.64	6.548	139.49	6.411	777.01	6.562	141.10
6.546	119.64	6.571	137.23	6.605	140.02	6.528	138.88	6.391	776.45	6.542	140.47
6.526	119.12	6.551	136.62	6.585	139.44	6.508	138.28	6.370	775.84	6.522	139.90
6.506	118.69	6.531	136.09	6.565	138.87	6.488	137.66	6.350	775.22	6.502	139.32
6.486	118.16	6.511	135.51	6.546	138.32	6.468	137.07	6.329	774.60	6.482	138.65
6.466	117.74	6.491	134.83	6.526	137.72	6.448	136.48	6.309	774.09	6.462	138.06
6.446	117.22	6.471	134.29	6.506	137.12	6.428	135.86	6.289	773.59	6.442	137.42
6.426	116.76	6.451	133.72	6.486	136.51	6.408	135.30	6.268	773.04	6.422	136.80
6.406	116.32	6.431	133.15	6.466	135.93	6.388	134.69	6.248	772.49	6.402	136.25
6.386	115.84	6.411	132.60	6.446	135.34	6.368	134.11	6.227	771.92	6.382	135.66
6.366	115.32	6.390	132.01	6.426	134.76	6.348	133.48	6.207	771.37	6.362	135.06
6.346	114.87	6.370	131.41	6.406	134.17	6.328	132.97	6.186	770.73	6.342	134.46
6.326	114.42	6.350	130.88	6.386	133.61	6.308	132.38	6.166	770.09	6.322	133.86
6.306	113.97	6.330	130.32	6.366	133.08	6.288	131.82	6.146	768.81	6.302	133.25
6.286	113.50	6.310	129.76	6.346	132.49	6.268	131.27	6.125	768.46	6.282	132.70
6.266	113.00	6.290	129.22	6.326	131.89	6.248	130.69	6.105	767.54	6.262	132.13
6.246	112.53	6.270	128.60	6.306	131.31	6.229	130.10	6.084	767.01	6.242	131.50
6.226	112.08	6.250	127.99	6.286	130.73	6.209	129.53	6.064	765.86	6.222	130.96
6.206	111.63	6.230	127.45	6.266	130.14	6.189	128.95	6.044	762.98	6.202	130.33
6.186	111.17	6.210	126.88	6.246	129.61	6.169	128.37	6.023	762.04	6.182	129.81
6.166	110.70	6.190	126.31	6.226	129.04	6.149	127.82	6.003	761.51	6.162	129.17
6.146	110.21	6.170	125.82	6.206	128.45	6.129	127.25	5.982	761.00	6.142	128.58
6.126	109.75	6.150	125.23	6.186	127.88	6.109	126.67	5.962	759.16	6.122	128.02
6.106	109.37	6.129	124.70	6.166	127.34	6.089	126.14	5.942	757.36	6.102	127.48
6.086	108.89	6.109	124.13	6.146	126.82	6.069	125.54	5.803	196.04	6.082	126.88
6.066	108.44	6.089	123.61	6.126	126.31	6.049	125.00	5.784	193.90	6.062	126.30
6.046	107.98	6.069	123.04	6.106	125.73	6.029	124.47	5.765	191.92	6.042	125.75
6.026	107.53	6.049	122.53	6.086	125.16	6.009	123.92	5.746	190.03	6.022	125.19
6.006	107.06	6.029	122.00	6.067	124.60	5.989	123.29	5.727	188.13	6.002	124.60
5.986	106.59	6.009	121.41	6.047	124.05	5.969	122.77	5.708	186.34	5.982	124.06
5.966	106.10	5.989	120.89	6.027	123.53	5.949	122.24	5.689	184.58	5.962	123.49

5.946	105.71	5.969	120.36	6.007	123.03	5.929	121.65	5.670	182.89	5.942	122.92
5.926	105.26	5.949	119.79	5.987	122.47	5.909	121.09	5.651	181.23	5.922	122.37
5.905	104.78	5.929	119.27	5.967	121.91	5.889	120.54	5.632	179.53	5.902	121.84
5.885	104.38	5.909	118.74	5.947	121.35	5.870	119.97	5.613	177.95	5.882	121.31
5.865	103.88	5.889	118.15	5.927	120.81	5.850	119.49	5.594	176.42	5.862	120.73
5.845	103.47	5.868	117.68	5.907	120.26	5.830	118.89	5.575	174.90	5.842	120.15
5.825	103.06	5.848	117.09	5.887	119.72	5.810	118.35	5.556	173.45	5.822	119.68
5.805	102.60	5.828	116.59	5.867	119.17	5.790	117.83	5.537	172.03	5.802	119.00
5.785	102.35	5.808	116.09	5.847	118.63	5.770	117.25	5.518	170.55	5.782	118.43
5.765	101.91	5.788	115.53	5.827	118.11	5.750	116.74	5.499	169.14	5.762	117.92
5.745	101.51	5.768	115.05	5.807	117.55	5.730	116.22	5.480	167.79	5.742	117.37
5.725	101.09	5.748	114.46	5.787	116.95	5.710	115.72	5.461	166.38	5.722	116.85
5.705	100.65	5.728	113.96	5.767	116.35	5.690	115.14	5.442	165.05	5.702	116.25
5.685	100.21	5.708	113.48	5.747	115.76	5.670	114.56	5.423	163.75	5.682	115.74
5.665	99.76	5.688	112.89	5.727	115.24	5.650	114.06	5.404	162.51	5.662	115.17
5.645	99.31	5.668	112.39	5.707	114.76	5.630	113.54	5.385	161.24	5.642	114.65
5.625	98.89	5.648	111.78	5.687	114.22	5.610	113.05	5.366	160.02	5.622	114.09
5.605	98.46	5.627	111.28	5.667	113.59	5.590	112.46	5.348	158.81	5.602	113.56
5.585	98.03	5.607	110.72	5.647	112.99	5.570	111.96	5.329	157.62	5.582	113.03
5.565	97.55	5.587	110.24	5.627	112.49	5.550	111.47	5.310	156.37	5.562	112.48
5.545	97.16	5.567	109.69	5.607	111.99	5.531	110.92	5.291	155.16	5.543	111.97
5.525	96.70	5.547	109.18	5.587	111.50	5.511	110.37	5.272	154.04	5.523	111.40
5.505	96.26	5.527	108.71	5.568	110.97	5.491	109.87	5.253	152.85	5.503	110.89
5.485	95.86	5.507	108.15	5.548	110.44	5.471	109.36	5.234	151.72	5.483	110.34
5.465	95.42	5.487	107.66	5.528	109.91	5.451	108.86	5.215	150.55	5.463	109.80
5.445	95.00	5.467	107.17	5.508	109.38	5.431	108.29	5.196	149.48	5.443	109.29
5.425	94.54	5.447	106.64	5.488	108.87	5.411	107.77	5.177	148.37	5.423	108.81
5.405	94.13	5.427	106.13	5.468	108.42	5.391	107.27	5.158	147.30	5.403	108.31
5.385	93.70	5.407	105.66	5.448	107.93	5.371	106.75	5.139	146.20	5.383	107.79
5.365	93.27	5.387	105.17	5.428	107.44	5.351	106.25	5.120	145.17	5.363	107.23
5.345	92.83	5.366	104.69	5.408	106.94	5.331	105.74	5.101	144.08	5.343	106.72
5.325	92.40	5.346	104.14	5.388	106.44	5.311	105.22	5.082	143.07	5.323	106.18
5.305	92.01	5.326	103.66	5.368	106.00	5.291	104.72	5.063	142.06	5.303	105.75
5.285	91.60	5.306	103.14	5.348	105.48	5.271	104.21	5.044	141.04	5.283	105.20
5.265	91.16	5.286	102.68	5.328	104.95	5.251	103.69	5.025	140.03	5.263	104.64
5.245	90.71	5.266	102.19	5.308	104.54	5.231	103.18	5.006	139.08	5.243	104.13
5.225	90.34	5.246	101.70	5.288	103.97	5.211	102.64	4.987	138.06	5.223	103.70
5.205	89.88	5.226	101.17	5.268	103.54	5.191	102.16	4.968	137.09	5.203	103.11
5.185	89.46	5.206	100.67	5.248	102.99	5.172	101.63	4.949	136.09	5.183	102.55
5.165	89.02	5.186	100.18	5.228	102.44	5.152	101.19	4.930	135.17	5.163	102.04
5.145	88.63	5.166	99.69	5.208	101.97	5.132	100.68	4.911	134.25	5.143	101.57
5.125	88.23	5.146	99.19	5.188	101.50	5.112	100.16	4.892	133.27	5.123	101.05
5.105	87.82	5.125	98.73	5.168	101.02	5.092	99.70	4.874	132.36	5.103	100.52
5.085	87.38	5.105	98.26	5.148	100.50	5.072	99.17	4.855	131.47	5.083	100.05
5.065	86.98	5.085	97.77	5.128	99.98	5.052	98.64	4.836	130.56	5.063	99.54
5.045	86.56	5.065	97.29	5.108	99.53	5.032	98.20	4.817	129.67	5.043	99.07
5.025	86.13	5.045	96.73	5.089	99.04	5.012	97.69	4.798	128.79	5.023	98.50
5.005	85.70	5.025	96.25	5.069	98.56	4.992	97.21	4.779	127.90	5.003	98.06
4.985	85.31	5.005	95.72	5.049	98.08	4.972	96.67	4.760	126.96	4.983	97.55
4.965	84.91	4.985	95.26	5.029	97.55	4.952	96.22	4.741	126.13	4.963	97.07
4.945	84.52	4.965	94.79	5.009	97.11	4.932	95.72	4.722	125.24	4.943	96.58
4.925	84.07	4.945	94.29	4.989	96.60	4.912	95.22	4.703	124.42	4.923	96.04
4.905	83.68	4.925	93.90	4.969	96.13	4.892	94.75	4.684	123.54	4.903	95.60
4.885	83.28	4.905	93.38	4.949	95.64	4.872	94.28	4.665	122.71	4.883	95.12
4.865	82.89	4.885	92.92	4.929	95.12	4.852	93.74	4.646	121.91	4.863	94.63

4.845	82.43	4.864	92.39	4.909	94.61	4.833	93.29	4.627	121.09	4.843	94.13
4.825	82.02	4.844	91.99	4.889	94.15	4.813	92.81	4.608	120.23	4.823	93.66
4.805	81.63	4.824	91.52	4.869	93.69	4.793	92.34	4.589	119.41	4.803	93.17
4.785	81.22	4.804	91.00	4.849	93.17	4.773	91.86	4.570	118.64	4.783	92.68
4.765	80.81	4.784	90.61	4.829	92.76	4.753	91.38	4.551	117.86	4.763	92.19
4.745	80.40	4.764	90.10	4.809	92.26	4.733	90.91	4.532	117.05	4.743	91.68
4.725	80.03	4.744	89.61	4.789	91.80	4.713	90.41	4.513	116.20	4.723	91.19
4.705	79.61	4.724	89.19	4.769	91.31	4.693	89.93	4.494	115.42	4.703	90.78
4.685	79.20	4.704	88.69	4.749	90.82	4.673	89.50	4.475	114.70	4.683	90.28
4.665	78.84	4.684	88.27	4.729	90.37	4.653	89.03	4.456	113.96	4.663	89.77
4.645	78.42	4.664	87.75	4.709	89.95	4.633	88.52	4.437	113.14	4.643	89.28
4.625	78.02	4.644	87.35	4.689	89.45	4.613	88.08	4.418	112.38	4.623	88.79
4.605	77.60	4.624	86.85	4.669	88.95	4.593	87.59	4.399	111.61	4.603	88.29
4.585	77.24	4.603	86.41	4.649	88.45	4.573	87.09	4.381	110.87	4.583	87.83
4.565	76.79	4.583	85.82	4.629	88.02	4.553	86.65	4.362	110.08	4.563	87.37
4.545	76.42	4.563	85.41	4.610	87.55	4.533	86.19	4.343	109.37	4.543	86.86
4.525	76.04	4.543	84.96	4.590	87.04	4.513	85.72	4.324	108.59	4.523	86.42
4.505	75.63	4.523	84.51	4.570	86.62	4.494	85.25	4.305	107.84	4.503	85.93
4.485	75.24	4.503	84.05	4.550	86.16	4.474	84.81	4.286	107.14	4.483	85.47
4.464	74.86	4.483	83.58	4.530	85.72	4.454	84.36	4.267	106.39	4.463	85.01
4.444	74.42	4.463	83.15	4.510	85.21	4.434	83.90	4.248	105.64	4.443	84.49
4.424	74.05	4.443	82.73	4.490	84.80	4.414	83.44	4.229	104.96	4.423	84.08
4.404	73.69	4.423	82.26	4.470	84.38	4.394	82.97	4.210	104.26	4.403	83.63
4.384	73.26	4.403	81.80	4.450	83.85	4.374	82.49	4.191	103.58	4.383	83.18
4.364	72.89	4.383	81.31	4.430	83.46	4.354	82.04	4.172	102.87	4.363	82.66
4.344	72.44	4.362	80.94	4.410	82.95	4.334	81.57	4.153	102.13	4.343	82.20
4.324	72.06	4.342	80.47	4.390	82.47	4.314	81.16	4.134	101.44	4.323	81.77
4.304	71.70	4.322	80.02	4.370	82.04	4.294	80.68	4.115	100.78	4.303	81.33
4.284	71.32	4.302	79.58	4.350	81.63	4.274	80.21	4.096	100.00	4.283	80.85
4.264	70.94	4.282	79.10	4.330	81.14	4.254	79.79	4.077	99.40	4.263	80.42
4.244	70.55	4.262	78.71	4.310	80.72	4.234	79.35	4.058	98.74	4.243	79.96
4.224	70.17	4.242	78.22	4.290	80.26	4.214	78.90	4.039	98.04	4.223	79.50
4.204	69.73	4.222	77.82	4.270	79.79	4.194	78.45	4.020	97.38	4.203	79.04
4.184	69.40	4.202	77.33	4.250	79.37	4.174	78.01	4.001	96.72	4.183	78.60
4.164	69.00	4.182	76.93	4.230	78.92	4.154	77.60	3.982	96.09	4.163	78.11
4.144	68.62	4.162	76.48	4.210	78.47	4.135	77.14	3.963	95.42	4.143	77.73
4.124	68.22	4.142	76.03	4.190	78.02	4.115	76.67	3.944	94.77	4.123	77.27
4.104	67.81	4.122	75.62	4.170	77.57	4.095	76.20	3.925	94.14	4.103	76.79
4.084	67.42	4.101	75.18	4.150	77.16	4.075	75.81	3.906	93.45	4.083	76.39
4.064	67.09	4.081	74.70	4.131	76.67	4.055	75.34	3.888	92.80	4.063	75.91
4.044	66.67	4.061	74.28	4.111	76.24	4.035	74.87	3.869	92.13	4.043	75.45
4.024	66.28	4.041	73.84	4.091	75.83	4.015	74.47	3.850	91.49	4.023	75.00
4.004	65.94	4.021	73.36	4.071	75.37	3.995	74.00	3.831	90.86	4.003	74.48
3.984	65.56	4.001	72.95	4.051	74.95	3.975	73.53	3.812	90.22	3.983	74.07
3.964	65.18	3.981	72.52	4.031	74.53	3.955	73.10	3.793	89.56	3.963	73.68
3.944	64.82	3.961	72.08	4.011	74.08	3.935	72.68	3.774	88.94	3.943	73.19
3.924	64.42	3.941	71.66	3.991	73.65	3.915	72.26	3.755	88.31	3.923	72.75
3.904	64.03	3.921	71.24	3.971	73.18	3.895	71.82	3.736	87.70	3.903	72.33
3.884	63.67	3.901	70.80	3.951	72.79	3.875	71.39	3.717	87.09	3.883	71.91
3.864	63.26	3.881	70.35	3.931	72.31	3.855	70.93	3.698	86.40	3.863	71.46
3.844	62.92	3.861	69.92	3.911	71.92	3.835	70.49	3.679	85.82	3.843	71.04
3.824	62.48	3.840	69.53	3.891	71.49	3.815	70.04	3.660	85.21	3.823	70.54
3.804	62.10	3.820	69.11	3.871	71.04	3.796	69.59	3.641	84.61	3.803	70.12
3.784	61.76	3.800	68.65	3.851	70.60	3.776	69.19	3.622	83.95	3.783	69.70
3.764	61.35	3.780	68.22	3.831	70.18	3.756	68.73	3.603	83.38	3.763	69.32

3.744	61.01	3.760	67.83	3.811	69.72	3.736	68.34	3.584	82.79	3.743	68.84
3.724	60.62	3.740	67.39	3.791	69.28	3.716	67.90	3.565	82.23	3.723	68.41
3.704	60.23	3.720	67.02	3.771	68.92	3.696	67.47	3.546	81.59	3.703	67.98
3.684	59.92	3.700	66.54	3.751	68.47	3.676	67.08	3.527	81.03	3.683	67.59
3.664	59.51	3.680	66.17	3.731	68.02	3.656	66.66	3.508	80.46	3.663	67.13
3.644	59.17	3.660	65.72	3.711	67.60	3.636	66.21	3.489	79.91	3.643	66.68
3.624	58.74	3.640	65.33	3.691	67.20	3.616	65.82	3.470	79.36	3.623	66.29
3.604	58.40	3.620	64.91	3.671	66.74	3.596	65.35	3.451	78.76	3.603	65.86
3.584	58.00	3.599	64.38	3.652	66.35	3.576	64.96	3.432	78.17	3.583	65.41
3.564	57.71	3.579	64.00	3.632	65.90	3.556	64.52	3.413	77.64	3.563	65.02
3.544	57.34	3.559	63.61	3.612	65.52	3.536	64.13	3.395	77.03	3.543	64.59
3.524	56.90	3.539	63.18	3.592	65.13	3.516	63.70	3.376	76.49	3.523	64.20
3.504	56.61	3.519	62.79	3.572	64.68	3.496	63.31	3.357	75.94	3.503	63.75
3.484	56.22	3.499	62.38	3.552	64.21	3.476	62.84	3.338	75.38	3.483	63.31
3.464	55.84	3.479	61.98	3.532	63.81	3.456	62.41	3.319	74.85	3.463	62.88
3.444	55.46	3.459	61.56	3.512	63.41	3.437	61.99	3.300	74.32	3.443	62.45
3.424	55.14	3.439	61.13	3.492	63.02	3.417	61.56	3.281	73.71	3.423	62.07
3.404	54.78	3.419	60.77	3.472	62.62	3.397	61.14	3.262	73.17	3.403	61.59
3.384	54.39	3.399	60.36	3.452	62.21	3.377	60.71	3.243	72.63	3.383	61.18
3.364	54.00	3.379	59.93	3.432	61.81	3.357	60.29	3.224	72.09	3.363	60.78
3.344	53.68	3.359	59.53	3.412	61.32	3.337	59.86	3.205	71.57	3.343	60.38
3.324	53.28	3.338	59.10	3.392	60.92	3.317	59.44	3.186	70.98	3.323	59.97
3.304	52.95	3.318	58.73	3.372	60.50	3.297	59.01	3.167	70.47	3.303	59.58
3.284	52.62	3.298	58.33	3.352	60.16	3.277	58.61	3.148	69.93	3.283	59.15
3.264	52.21	3.278	57.90	3.332	59.73	3.257	58.28	3.129	69.50	3.263	58.74
3.244	51.88	3.258	57.48	3.312	59.32	3.237	57.88	3.110	68.98	3.243	58.30
3.224	51.54	3.238	57.12	3.292	58.89	3.217	57.48	3.091	68.43	3.223	57.92
3.204	51.12	3.218	56.68	3.272	58.54	3.197	57.08	3.072	67.88	3.203	57.53
3.184	50.77	3.198	56.35	3.252	58.11	3.177	56.67	3.053	67.37	3.183	57.10
3.164	50.44	3.178	55.89	3.232	57.68	3.157	56.27	3.034	66.80	3.163	56.66
3.144	50.08	3.158	55.46	3.212	57.25	3.137	55.86	3.015	66.33	3.143	56.31
3.124	49.72	3.138	55.09	3.192	56.87	3.117	55.45	2.996	65.80	3.123	55.90
3.104	49.36	3.118	54.63	3.172	56.49	3.098	55.02	2.977	65.25	3.103	55.51
3.084	49.01	3.097	54.27	3.153	56.05	3.078	54.67	2.958	64.81	3.083	55.11
3.064	48.64	3.077	53.89	3.133	55.67	3.058	54.24	2.939	64.29	3.063	54.68
3.044	48.26	3.057	53.51	3.113	55.21	3.038	53.88	2.920	63.71	3.043	54.22
3.024	47.96	3.037	53.07	3.093	54.84	3.018	53.45	2.902	63.22	3.023	53.84
3.003	47.60	3.017	52.68	3.073	54.39	2.998	53.07	2.883	62.72	3.003	53.45
2.983	47.21	2.997	52.28	3.053	53.98	2.978	52.63	2.864	62.22	2.983	53.04
2.963	46.90	2.977	51.90	3.033	53.60	2.958	52.27	2.845	61.72	2.963	52.64
2.943	46.50	2.957	51.50	3.013	53.20	2.938	51.88	2.826	61.16	2.943	52.25
2.923	46.16	2.937	51.11	2.993	52.81	2.918	51.44	2.807	60.67	2.923	51.84
2.903	45.79	2.917	50.77	2.973	52.40	2.898	51.01	2.788	60.13	2.903	51.48
2.883	45.45	2.897	50.36	2.953	51.99	2.878	50.66	2.769	59.74	2.883	51.07
2.863	45.12	2.877	49.96	2.933	51.59	2.858	50.26	2.750	59.16	2.863	50.65
2.843	44.75	2.857	49.56	2.913	51.17	2.838	49.91	2.731	58.66	2.843	50.27
2.823	44.44	2.836	49.18	2.893	50.74	2.818	49.51	2.712	58.16	2.823	49.86
2.803	44.10	2.816	48.79	2.873	50.41	2.798	49.10	2.693	57.69	2.803	49.49
2.783	43.73	2.796	48.38	2.853	49.98	2.778	48.69	2.674	57.18	2.783	49.11
2.763	43.40	2.776	48.03	2.833	49.59	2.758	48.34	2.655	56.73	2.763	48.67
2.743	43.03	2.756	47.59	2.813	49.18	2.739	47.91	2.636	56.24	2.743	48.29
2.723	42.67	2.736	47.24	2.793	48.80	2.719	47.54	2.617	55.76	2.723	47.87
2.703	42.37	2.716	46.85	2.773	48.37	2.699	47.18	2.598	55.26	2.703	47.48
2.683	41.99	2.696	46.47	2.753	47.99	2.679	46.73	2.579	54.78	2.683	47.10
2.663	41.69	2.676	46.08	2.733	47.61	2.659	46.35	2.560	54.27	2.663	46.68

2.643	41.29	2.656	45.71	2.713	47.21	2.639	46.02	2.541	53.80	2.643	46.32
2.623	40.97	2.636	45.33	2.693	46.84	2.619	45.63	2.522	53.32	2.623	45.96
2.603	40.59	2.616	44.93	2.674	46.45	2.599	45.24	2.503	52.82	2.603	45.52
2.583	40.28	2.596	44.57	2.654	46.04	2.579	44.85	2.484	52.33	2.583	45.13
2.563	39.89	2.575	44.17	2.634	45.64	2.559	44.45	2.465	51.96	2.563	44.75
2.543	39.57	2.555	43.77	2.614	45.24	2.539	44.11	2.446	51.45	2.543	44.37
2.523	39.26	2.535	43.44	2.594	44.91	2.519	43.69	2.428	50.95	2.523	43.98
2.503	38.91	2.515	43.05	2.574	44.47	2.499	43.31	2.409	50.49	2.503	43.61
2.483	38.55	2.495	42.65	2.554	44.13	2.479	42.95	2.390	50.00	2.483	43.21
2.463	38.24	2.475	42.30	2.534	43.72	2.459	42.54	2.371	49.61	2.463	42.88
2.443	37.90	2.455	41.91	2.514	43.32	2.439	42.18	2.352	49.06	2.443	42.48
2.423	37.56	2.435	41.53	2.494	42.95	2.419	41.81	2.333	48.63	2.423	42.08
2.403	37.22	2.415	41.16	2.474	42.57	2.400	41.42	2.314	48.15	2.403	41.67
2.383	36.84	2.395	40.80	2.454	42.18	2.380	41.08	2.295	47.73	2.383	41.33
2.363	36.52	2.375	40.41	2.434	41.79	2.360	40.69	2.276	47.25	2.363	40.92
2.343	36.18	2.355	40.06	2.414	41.43	2.340	40.29	2.257	46.81	2.343	40.57
2.323	35.86	2.334	39.64	2.394	41.07	2.320	39.90	2.238	46.35	2.323	40.22
2.303	35.49	2.314	39.29	2.374	40.63	2.300	39.54	2.219	45.88	2.303	39.78
2.283	35.17	2.294	38.94	2.354	40.28	2.280	39.16	2.200	45.43	2.283	39.43
2.263	34.84	2.274	38.57	2.334	39.91	2.260	38.78	2.181	44.95	2.263	39.06
2.243	34.52	2.254	38.19	2.314	39.59	2.240	38.41	2.162	44.52	2.243	38.69
2.223	34.16	2.234	37.85	2.294	39.19	2.220	38.07	2.143	44.06	2.223	38.25
2.203	33.87	2.214	37.49	2.274	38.84	2.200	37.63	2.124	43.61	2.203	37.93
2.183	33.52	2.194	37.08	2.254	38.49	2.180	37.30	2.105	43.18	2.183	37.54
2.163	33.18	2.174	36.74	2.234	38.13	2.160	36.92	2.086	42.73	2.163	37.14
2.143	32.83	2.154	36.37	2.214	37.75	2.140	36.53	2.067	42.29	2.143	36.76
2.123	32.47	2.134	35.98	2.195	37.43	2.120	36.20	2.048	41.85	2.123	36.41
2.103	32.13	2.114	35.60	2.175	37.07	2.100	35.82	2.029	41.38	2.103	36.08
2.083	31.85	2.094	35.22	2.155	36.68	2.080	35.42	2.010	40.93	2.083	35.65
2.063	31.48	2.073	34.90	2.135	36.33	2.060	35.14	1.991	40.50	2.063	35.31
2.043	31.18	2.053	34.50	2.115	35.98	2.041	34.77	1.972	40.13	2.043	34.96
2.023	30.86	2.033	34.16	2.095	35.58	2.021	34.36	1.953	39.63	2.023	34.56
2.003	30.52	2.013	33.82	2.075	35.27	2.001	33.97	1.935	39.18	2.003	34.17
1.983	30.20	1.993	33.41	2.055	34.95	1.981	33.61	1.916	38.79	1.983	33.85
1.963	29.89	1.973	33.07	2.035	34.56	1.961	33.25	1.897	38.38	1.963	33.46
1.943	29.50	1.953	32.73	2.015	34.21	1.941	32.84	1.878	37.92	1.943	33.06
1.923	29.17	1.933	32.34	1.995	33.86	1.921	32.46	1.859	37.53	1.923	32.73
1.903	28.92	1.913	31.94	1.975	33.48	1.901	32.09	1.840	37.06	1.903	32.33
1.883	28.57	1.893	31.58	1.955	33.13	1.881	31.73	1.821	36.59	1.883	31.99
1.863	28.24	1.873	31.24	1.935	32.74	1.861	31.35	1.802	36.25	1.863	31.63
1.843	27.89	1.853	30.91	1.915	32.37	1.841	31.02	1.783	35.82	1.843	31.26
1.823	27.60	1.833	30.53	1.895	32.05	1.821	30.64	1.764	35.31	1.823	30.90
1.803	27.24	1.812	30.17	1.875	31.69	1.801	30.30	1.745	34.94	1.803	30.52
1.783	26.95	1.792	29.83	1.855	31.33	1.781	29.95	1.726	34.49	1.783	30.17
1.763	26.64	1.772	29.51	1.835	30.95	1.761	29.58	1.707	34.09	1.763	29.81
1.743	26.33	1.752	29.10	1.815	30.65	1.741	29.20	1.688	33.66	1.743	29.47
1.723	26.01	1.732	28.78	1.795	30.27	1.721	28.84	1.669	33.24	1.723	29.12
1.703	25.69	1.712	28.42	1.775	29.88	1.702	28.47	1.650	32.90	1.703	28.75
1.683	25.35	1.692	28.05	1.755	29.56	1.682	28.11	1.631	32.41	1.683	28.38
1.663	25.04	1.672	27.71	1.735	29.17	1.662	27.78	1.612	31.97	1.663	28.02
1.643	24.74	1.652	27.35	1.716	28.84	1.642	27.44	1.593	31.57	1.643	27.66
1.623	24.44	1.632	26.97	1.696	28.52	1.622	27.06	1.574	31.16	1.623	27.33
1.603	24.08	1.612	26.65	1.676	28.13	1.602	26.70	1.555	30.78	1.603	26.98
1.583	23.77	1.592	26.33	1.656	27.84	1.582	26.37	1.536	30.31	1.583	26.60
1.562	23.45	1.571	25.95	1.636	27.40	1.562	25.97	1.517	29.88	1.563	26.24

1.542	23.18	1.551	25.60	1.616	27.05	1.542	25.63	1.498	29.49	1.543	25.91
1.522	22.86	1.531	25.26	1.596	26.69	1.522	25.29	1.479	29.08	1.523	25.54
1.502	22.50	1.511	24.91	1.576	26.37	1.502	24.92	1.460	28.67	1.503	25.15
1.482	22.21	1.491	24.53	1.556	26.02	1.482	24.57	1.442	28.25	1.483	24.84
1.462	21.91	1.471	24.21	1.536	25.71	1.462	24.24	1.423	27.95	1.463	24.45
1.442	21.58	1.451	23.83	1.516	25.36	1.442	23.92	1.404	27.48	1.443	24.09
1.422	21.27	1.431	23.50	1.496	25.03	1.422	23.53	1.385	27.10	1.423	23.74
1.402	20.98	1.411	23.15	1.476	24.62	1.402	23.18	1.366	26.64	1.403	23.43
1.382	20.68	1.391	22.80	1.456	24.28	1.382	22.81	1.347	26.24	1.383	23.04
1.362	20.36	1.371	22.46	1.436	23.94	1.362	22.49	1.328	25.82	1.363	22.66
1.342	20.05	1.351	22.14	1.416	23.59	1.343	22.17	1.309	25.45	1.343	22.33
1.322	19.77	1.331	21.75	1.396	23.22	1.323	21.79	1.290	25.12	1.323	22.02
1.302	19.45	1.310	21.41	1.376	22.90	1.303	21.41	1.271	24.70	1.303	21.69
1.282	19.10	1.290	21.07	1.356	22.58	1.283	21.03	1.252	24.26	1.283	21.29
1.262	18.81	1.270	20.76	1.336	22.22	1.263	20.68	1.233	23.92	1.263	20.94
1.242	18.51	1.250	20.38	1.316	21.87	1.243	20.39	1.214	23.54	1.243	20.60
1.222	18.19	1.230	20.05	1.296	21.54	1.223	19.99	1.195	23.11	1.223	20.29
1.202	17.90	1.210	19.70	1.276	21.16	1.203	19.67	1.176	22.72	1.203	19.90
1.182	17.56	1.190	19.35	1.256	20.84	1.183	19.35	1.157	22.31	1.183	19.59
1.162	17.23	1.170	19.05	1.237	20.52	1.163	19.03	1.138	21.88	1.163	19.20
1.142	16.94	1.150	18.72	1.217	20.20	1.143	18.65	1.119	21.50	1.143	18.88
1.122	16.64	1.130	18.41	1.197	19.87	1.123	18.28	1.100	21.17	1.123	18.53
1.102	16.34	1.110	18.07	1.177	19.51	1.103	17.97	1.081	20.71	1.103	18.17
1.082	16.00	1.090	17.70	1.157	19.13	1.083	17.65	1.062	20.34	1.083	17.86
1.062	15.67	1.070	17.39	1.137	18.80	1.063	17.33	1.043	19.95	1.063	17.53
1.042	15.43	1.049	17.06	1.117	18.50	1.043	16.97	1.024	19.57	1.043	17.16
1.022	15.11	1.029	16.71	1.097	18.09	1.023	16.64	1.005	19.21	1.023	16.84
1.002	14.78	1.009	16.37	1.077	17.76	1.004	16.36	0.986	18.78	1.003	16.52
0.982	14.49	0.989	16.06	1.057	17.41	0.984	15.99	0.967	18.43	0.983	16.14
0.962	14.17	0.969	15.69	1.037	17.08	0.964	15.67	0.949	18.04	0.963	15.82
0.942	13.87	0.949	15.35	1.017	16.72	0.944	15.34	0.930	17.66	0.943	15.51
0.922	13.55	0.929	15.04	0.997	16.43	0.924	14.98	0.911	17.28	0.923	15.12
0.902	13.23	0.909	14.73	0.977	16.04	0.904	14.67	0.892	16.94	0.903	14.80
0.882	12.95	0.889	14.36	0.957	15.75	0.884	14.30	0.873	16.57	0.883	14.49
0.862	12.61	0.869	14.02	0.937	15.42	0.864	13.95	0.854	16.15	0.863	14.10
0.842	12.33	0.849	13.71	0.917	15.09	0.844	13.62	0.835	15.85	0.843	13.79
0.822	11.98	0.829	13.39	0.897	14.74	0.824	13.33	0.816	15.49	0.823	13.47
0.802	11.74	0.808	13.06	0.877	14.39	0.804	12.97	0.797	15.04	0.803	13.15
0.782	11.43	0.788	12.69	0.857	14.10	0.784	12.62	0.778	14.63	0.783	12.77
0.762	11.12	0.768	12.37	0.837	13.71	0.764	12.33	0.759	14.24	0.763	12.45
0.742	10.80	0.748	11.98	0.817	13.39	0.744	11.93	0.740	13.96	0.743	12.09
0.722	10.49	0.728	11.67	0.797	13.08	0.724	11.60	0.721	13.58	0.723	11.75
0.702	10.19	0.708	11.36	0.777	12.75	0.704	11.35	0.702	13.18	0.703	11.44
0.682	9.93	0.688	11.04	0.758	12.44	0.684	10.99	0.683	12.88	0.683	11.12
0.662	9.60	0.668	10.73	0.738	12.12	0.664	10.69	0.664	12.44	0.663	10.78
0.642	9.34	0.648	10.42	0.718	11.77	0.645	10.36	0.645	12.04	0.643	10.42
0.622	9.02	0.628	10.05	0.698	11.45	0.625	10.01	0.626	11.71	0.623	10.10
0.602	8.76	0.608	9.71	0.678	11.12	0.605	9.71	0.607	11.32	0.603	9.79
0.582	8.41	0.588	9.40	0.658	10.77	0.585	9.32	0.588	11.00	0.583	9.40
0.562	8.15	0.568	9.07	0.638	10.47	0.565	9.01	0.569	10.61	0.563	9.05
0.542	7.86	0.547	8.76	0.618	10.10	0.545	8.69	0.550	10.21	0.543	8.69
0.522	7.54	0.527	8.41	0.598	9.79	0.525	8.41	0.531	9.87	0.523	8.38
0.502	7.23	0.507	8.07	0.578	9.48	0.505	8.06	0.512	9.53	0.503	8.07
0.482	6.93	0.487	7.75	0.558	9.16	0.485	7.74	0.493	9.17	0.483	7.71
0.462	6.61	0.467	7.39	0.538	8.84	0.465	7.44	0.475	8.80	0.463	7.44

0.442	6.33	0.447	7.11	0.518	8.46	0.445	7.09	0.456	8.47	0.443	7.07
0.422	6.02	0.427	6.76	0.498	8.16	0.425	6.79	0.437	8.06	0.423	6.73
0.402	5.69	0.407	6.45	0.478	7.83	0.405	6.42	0.418	7.73	0.403	6.42
0.382	5.41	0.387	6.13	0.458	7.52	0.385	6.19	0.399	7.46	0.383	6.11
0.362	5.14	0.367	5.80	0.438	7.20	0.365	5.79	0.380	7.01	0.363	5.79
0.342	4.85	0.347	5.48	0.418	6.89	0.345	5.48	0.361	6.62	0.343	5.48
0.322	4.54	0.327	5.17	0.398	6.58	0.325	5.22	0.342	6.25	0.323	5.11
0.302	4.26	0.306	4.85	0.378	6.19	0.306	4.89	0.323	6.01	0.303	4.78
0.282	3.98	0.286	4.54	0.358	5.93	0.286	4.51	0.304	5.59	0.283	4.54
0.262	3.68	0.266	4.23	0.338	5.57	0.266	4.19	0.285	5.17	0.263	4.15
0.242	3.37	0.246	3.92	0.318	5.25	0.246	3.88	0.266	4.83	0.243	3.84
0.222	3.13	0.226	3.60	0.298	4.93	0.226	3.52	0.247	4.51	0.223	3.52
0.202	2.82	0.206	3.29	0.278	4.62	0.206	3.21	0.228	4.15	0.203	3.21
0.182	2.50	0.186	2.98	0.259	4.31	0.186	2.90	0.209	3.80	0.183	2.90
0.162	2.19	0.166	2.66	0.239	3.99	0.166	2.58	0.190	3.41	0.163	2.60
0.142	1.97	0.146	2.35	0.219	3.68	0.146	2.27	0.171	3.13	0.143	2.24
0.121	1.69	0.126	2.04	0.199	3.37	0.126	1.96	0.152	2.72	0.123	1.91
0.101	1.33	0.106	1.72	0.179	3.05	0.106	1.64	0.133	2.36	0.103	1.57



**Table S2.** Experimental dew and bubble pressures,  $P_{\text{dew}}$  and  $P_{\text{bubble}}$ , and densities of the phases in the VLE,  $\rho_{\text{sat}}$  ( $\rho_{\text{L}}$ , liquid;  $\rho_{\text{V}}$ , vapor), for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures.

$T$ (K)	$P_{\text{dew}}$ (MPa)	$P_{\text{bubble}}$ (MPa)	$\rho_{\text{L}}$ (kg.m <sup>-3</sup> )	$\rho_{\text{V}}$ (kg.m <sup>-3</sup> )	$P_{\text{dew}}$ (MPa)	$P_{\text{bubble}}$ (MPa)	$\rho_{\text{L}}$ (kg.m <sup>-3</sup> )	$\rho_{\text{V}}$ (kg.m <sup>-3</sup> )
<b><math>x = 0.8525</math></b>					<b><math>x = 0.9719</math></b>			
253.15	2.399	5.232	839.14	57.51	2.040	2.704	994.47	52.78
263.15	3.259	6.031	179.00	78.79	2.755	3.399	946.19	72.78
273.15	4.351	7.000	704.70	114.48	3.630	4.230	891.29	106.68
283.15	5.780	7.741	617.28	171.11	4.694	5.249	821.23	139.71
293.15					6.041	6.421	717.25	204.30
298.15					6.770	7.100	648.52	259.59
<b><math>x = 0.9809</math></b>					<b><math>x = 0.9902</math></b>			
253.15	2.040	2.468	1005.69	52.70	2.000	2.227	1018.63	51.66
263.15	2.724	3.150	958.23	71.66	2.679	2.922	969.90	71.42
273.15	3.581	3.983	901.56	99.51	3.535	3.749	913.01	98.56
283.15	4.627	5.005	836.82	137.72	4.574	4.800	845.25	136.61
293.15	5.915	6.210	735.41	201.93	5.818	6.008	753.51	194.37
298.15	6.663	6.901	664.92	252.40	6.663	6.901	693.70	246.09
<b><math>x = 0.9932</math></b>					<b><math>x = 0.9961</math></b>			
253.15	1.980	2.153	1022.93	51.82	1.977	2.073	1026.58	51.66
263.15	2.680	2.845	973.32	71.58	2.661	2.753	977.41	71.50
273.15	3.494	3.682	916.82	99.04	3.509	3.622	922.46	98.08
283.15	4.542	4.709	849.13	135.81	4.524	4.608	855.90	135.26
293.15	5.803	5.920	757.36	196.04	5.776	5.827	762.20	194.77
298.15	6.519	6.606	697.91	247.53	6.455	6.532	702.09	242.11

**Table S3.** Isothermal Compressibility,  $\kappa_T$ , Isobaric Thermal Expansivity,  $\alpha_p$ , and Internal Pressure,  $\pi$ , for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures at several temperatures and pressures.

$x = 0.8525$									
$P$ (MPa)	$T = 253.15$ K			$T = 263.15$ K			$T = 273.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	7.33x10 <sup>-3</sup>	6.4x10 <sup>-3</sup>	212	1.09x10 <sup>-2</sup>	7.9x10 <sup>-3</sup>	181	2.12x10 <sup>-2</sup>	9.8x10 <sup>-3</sup>	119
9	6.76x10 <sup>-3</sup>	6.5x10 <sup>-3</sup>	187	1.01x10 <sup>-2</sup>	7.3x10 <sup>-3</sup>	182	1.71x10 <sup>-2</sup>	9.8x10 <sup>-3</sup>	148
10	6.19x10 <sup>-3</sup>	6.2x10 <sup>-3</sup>	201	8.87x10 <sup>-3</sup>	6.7x10 <sup>-3</sup>	189	1.42x10 <sup>-2</sup>	7.8x10 <sup>-3</sup>	139
11	5.79x10 <sup>-3</sup>	6.0x10 <sup>-3</sup>	216	8.54x10 <sup>-3</sup>	6.3x10 <sup>-3</sup>	184	1.26x10 <sup>-2</sup>	7.7x10 <sup>-3</sup>	156
12	5.58x10 <sup>-3</sup>	5.7x10 <sup>-3</sup>	198	7.93x10 <sup>-3</sup>	6.0x10 <sup>-3</sup>	188	1.15x10 <sup>-2</sup>	7.1x10 <sup>-3</sup>	155
13	5.37x10 <sup>-3</sup>	5.5x10 <sup>-3</sup>	207	7.37x10 <sup>-3</sup>	5.7x10 <sup>-3</sup>	183	1.07x10 <sup>-2</sup>	6.6x10 <sup>-3</sup>	156
14	5.17x10 <sup>-3</sup>	5.3x10 <sup>-3</sup>	210	6.90x10 <sup>-3</sup>	5.5x10 <sup>-3</sup>	196	9.89x10 <sup>-3</sup>	6.2x10 <sup>-3</sup>	156
15	4.97x10 <sup>-3</sup>	5.2x10 <sup>-3</sup>	213	6.49x10 <sup>-3</sup>	5.3x10 <sup>-3</sup>	199	9.09x10 <sup>-3</sup>	5.8x10 <sup>-3</sup>	160
16	4.77x10 <sup>-3</sup>	5.0x10 <sup>-3</sup>	219	6.15x10 <sup>-3</sup>	5.1x10 <sup>-3</sup>	202	8.27x10 <sup>-3</sup>	5.5x10 <sup>-3</sup>	166
17	4.58x10 <sup>-3</sup>	4.9x10 <sup>-3</sup>	224	5.84x10 <sup>-3</sup>	4.9x10 <sup>-3</sup>	205	7.48x10 <sup>-3</sup>	5.2x10 <sup>-3</sup>	174
18	4.38x10 <sup>-3</sup>	4.8x10 <sup>-3</sup>	231	5.56x10 <sup>-3</sup>	4.8x10 <sup>-3</sup>	209	6.86x10 <sup>-3</sup>	5.0x10 <sup>-3</sup>	182
19	4.19x10 <sup>-3</sup>	4.7x10 <sup>-3</sup>	237	5.28x10 <sup>-3</sup>	4.7x10 <sup>-3</sup>	214	6.61x10 <sup>-3</sup>	4.8x10 <sup>-3</sup>	180
20	4.01x10 <sup>-3</sup>	4.6x10 <sup>-3</sup>	242	4.99x10 <sup>-3</sup>	4.6x10 <sup>-3</sup>	220	6.32x10 <sup>-3</sup>	4.6x10 <sup>-3</sup>	180
$P$	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$
8	5.57x10 <sup>-2</sup>	1.8x10 <sup>-2</sup>	84	5.30x10 <sup>-1</sup>	8.5x10 <sup>-2</sup>	39	3.59x10 <sup>-1</sup>	3.1x10 <sup>-2</sup>	17
9	4.07x10 <sup>-2</sup>	1.9x10 <sup>-2</sup>	122	2.39x10 <sup>-1</sup>	4.1x10 <sup>-2</sup>	41	3.55x10 <sup>-1</sup>	5.1x10 <sup>-2</sup>	34
10	3.07x10 <sup>-2</sup>	1.3x10 <sup>-2</sup>	113	8.90x10 <sup>-2</sup>	2.2x10 <sup>-2</sup>	61	1.74x10 <sup>-1</sup>	3.9x10 <sup>-2</sup>	57
11	2.41x10 <sup>-2</sup>	1.1x10 <sup>-2</sup>	120	4.98x10 <sup>-2</sup>	1.7x10 <sup>-2</sup>	87	8.72x10 <sup>-2</sup>	2.3x10 <sup>-2</sup>	67
12	1.95x10 <sup>-2</sup>	9.5x10 <sup>-3</sup>	125	4.04x10 <sup>-2</sup>	1.3x10 <sup>-2</sup>	84	5.56x10 <sup>-2</sup>	1.7x10 <sup>-2</sup>	80
13	1.65x10 <sup>-2</sup>	8.4x10 <sup>-3</sup>	132	2.78x10 <sup>-2</sup>	1.1x10 <sup>-2</sup>	104	3.76x10 <sup>-2</sup>	1.4x10 <sup>-2</sup>	96
14	1.45x10 <sup>-2</sup>	7.8x10 <sup>-3</sup>	138	2.20x10 <sup>-2</sup>	9.8x10 <sup>-3</sup>	117	3.00x10 <sup>-2</sup>	1.1x10 <sup>-2</sup>	99
15	1.30x10 <sup>-2</sup>	7.2x10 <sup>-3</sup>	142	1.97x10 <sup>-2</sup>	8.7x10 <sup>-3</sup>	115	2.55x10 <sup>-2</sup>	9.8x10 <sup>-3</sup>	100
16	1.19x10 <sup>-2</sup>	6.7x10 <sup>-3</sup>	143	1.77x10 <sup>-2</sup>	8.0x10 <sup>-3</sup>	117	2.14x10 <sup>-2</sup>	8.8x10 <sup>-3</sup>	107
17	1.10x10 <sup>-2</sup>	6.3x10 <sup>-3</sup>	144	1.57x10 <sup>-2</sup>	7.4x10 <sup>-3</sup>	122	1.80x10 <sup>-2</sup>	8.1x10 <sup>-3</sup>	116
18	1.02x10 <sup>-2</sup>	5.9x10 <sup>-3</sup>	147	1.37x10 <sup>-2</sup>	7.0x10 <sup>-3</sup>	133	1.61x10 <sup>-2</sup>	7.5x10 <sup>-3</sup>	121
19	9.12x10 <sup>-3</sup>	5.6x10 <sup>-3</sup>	155	1.16x10 <sup>-2</sup>	6.6x10 <sup>-3</sup>	148	1.42x10 <sup>-2</sup>	6.9x10 <sup>-3</sup>	126
20	8.16x10 <sup>-3</sup>	5.4x10 <sup>-3</sup>	168	9.87x10 <sup>-3</sup>	6.2x10 <sup>-3</sup>	163	1.31x10 <sup>-2</sup>	6.4x10 <sup>-3</sup>	125
$P$ (MPa)	$T = 304.15$ K			$T = 308.15$ K			$T = 333.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	2.72x10 <sup>-1</sup>	2.0x10 <sup>-2</sup>	14	2.44x10 <sup>-1</sup>	1.6x10 <sup>-2</sup>	13	1.76x10 <sup>-1</sup>	5.00x10 <sup>-3</sup>	1
9	3.02x10 <sup>-1</sup>	3.3x10 <sup>-2</sup>	25	2.55x10 <sup>-1</sup>	2.2x10 <sup>-2</sup>	17	1.64x10 <sup>-1</sup>	7.20x10 <sup>-3</sup>	6
10	2.47x10 <sup>-1</sup>	3.7x10 <sup>-2</sup>	36	2.44x10 <sup>-1</sup>	3.4x10 <sup>-2</sup>	32	1.56x10 <sup>-1</sup>	8.80x10 <sup>-3</sup>	9
11	1.50x10 <sup>-1</sup>	2.9x10 <sup>-2</sup>	48	1.74x10 <sup>-1</sup>	3.3x10 <sup>-2</sup>	48	1.46x10 <sup>-1</sup>	1.00x10 <sup>-2</sup>	12
12	8.70x10 <sup>-2</sup>	2.2x10 <sup>-2</sup>	63	1.15x10 <sup>-1</sup>	2.3x10 <sup>-2</sup>	50	1.35x10 <sup>-1</sup>	1.5x10 <sup>-2</sup>	26
13	5.99x10 <sup>-2</sup>	1.7x10 <sup>-2</sup>	72	7.54x10 <sup>-2</sup>	1.9x10 <sup>-2</sup>	63	1.21x10 <sup>-1</sup>	2.0x10 <sup>-2</sup>	42
14	4.36x10 <sup>-2</sup>	1.4x10 <sup>-2</sup>	82	5.35x10 <sup>-2</sup>	1.6x10 <sup>-2</sup>	76	1.06x10 <sup>-1</sup>	1.9x10 <sup>-2</sup>	46
15	3.37x10 <sup>-2</sup>	1.2x10 <sup>-2</sup>	91	4.11x10 <sup>-2</sup>	1.3x10 <sup>-2</sup>	83	9.01x10 <sup>-2</sup>	1.8x10 <sup>-2</sup>	50
16	2.77x10 <sup>-2</sup>	1.0x10 <sup>-2</sup>	98	3.28x10 <sup>-2</sup>	1.2x10 <sup>-2</sup>	94	7.43x10 <sup>-2</sup>	1.5x10 <sup>-2</sup>	53
17	2.30x10 <sup>-2</sup>	9.3x10 <sup>-3</sup>	106	2.78x10 <sup>-2</sup>	1.0x10 <sup>-2</sup>	99	6.16x10 <sup>-2</sup>	1.4x10 <sup>-2</sup>	58
18	2.04x10 <sup>-2</sup>	8.4x10 <sup>-3</sup>	107	2.37x10 <sup>-2</sup>	9.4x10 <sup>-3</sup>	104	5.12x10 <sup>-2</sup>	1.2x10 <sup>-2</sup>	62
19	1.76x10 <sup>-2</sup>	7.7x10 <sup>-3</sup>	115	2.00x10 <sup>-2</sup>	8.7x10 <sup>-3</sup>	115	4.29x10 <sup>-2</sup>	1.1x10 <sup>-2</sup>	66
20	1.54x10 <sup>-2</sup>	7.2x10 <sup>-3</sup>	122	1.82x10 <sup>-2</sup>	8.1x10 <sup>-3</sup>	116	3.67x10 <sup>-2</sup>	1.0x10 <sup>-2</sup>	70

**Table S3 (continued).** Isothermal Compressibility,  $\kappa_T$ , Isobaric Thermal Expansivity,  $\alpha_p$ , and Internal Pressure,  $\pi$ , for  $x \text{ CO}_2 + (1-x) \text{ CH}_4$  mixtures at several temperatures and pressures.

$x = 0.9719$									
$P$ (MPa)	$T = 253.15$ K			$T = 263.15$ K			$T = 273.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	4,06x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	261	5,55x10 <sup>-3</sup>	4,9x10 <sup>-3</sup>	226	7,83x10 <sup>-3</sup>	6,2x10 <sup>-3</sup>	207
9	3,79x10 <sup>-3</sup>	4,2x10 <sup>-3</sup>	272	5,22x10 <sup>-3</sup>	4,8x10 <sup>-3</sup>	232	7,28x10 <sup>-3</sup>	6,0x10 <sup>-3</sup>	215
10	3,78x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	263	4,94x10 <sup>-3</sup>	4,6x10 <sup>-3</sup>	235	6,80x10 <sup>-3</sup>	5,6x10 <sup>-3</sup>	216
11	3,58x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	267	4,69x10 <sup>-3</sup>	4,4x10 <sup>-3</sup>	238	6,40x10 <sup>-3</sup>	5,4x10 <sup>-3</sup>	220
12	3,41x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	272	4,48x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	241	6,05x10 <sup>-3</sup>	5,2x10 <sup>-3</sup>	222
13	3,30x10 <sup>-3</sup>	3,7x10 <sup>-3</sup>	273	4,29x10 <sup>-3</sup>	4,2x10 <sup>-3</sup>	243	5,75x10 <sup>-3</sup>	5,0x10 <sup>-3</sup>	224
14	3,21x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	273	4,12x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	246	5,47x10 <sup>-3</sup>	4,8x10 <sup>-3</sup>	226
15	3,11x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	276	3,96x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	248	5,21x10 <sup>-3</sup>	4,6x10 <sup>-3</sup>	228
16	3,02x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	277	3,81x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	251	4,96x10 <sup>-3</sup>	4,5x10 <sup>-3</sup>	231
17	2,92x10 <sup>-3</sup>	3,4x10 <sup>-3</sup>	278	3,64x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	256	4,69x10 <sup>-3</sup>	4,4x10 <sup>-3</sup>	237
18	2,86x10 <sup>-3</sup>	3,3x10 <sup>-3</sup>	277	3,47x10 <sup>-3</sup>	3,7x10 <sup>-3</sup>	262	4,53x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	239
19	2,81x10 <sup>-3</sup>	3,3x10 <sup>-3</sup>	277	3,28x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	271	4,31x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	243
20	2,67x10 <sup>-3</sup>	3,2x10 <sup>-3</sup>	287	3,08x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	284	4,10x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	249
$P$ (MPa)	$T = 283.15$ K			$T = 293.15$ K			$T = 298.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	1,30x10 <sup>-2</sup>	8,7x10 <sup>-3</sup>	181	3,01x10 <sup>-2</sup>	1,4x10 <sup>-2</sup>	128	6,18x10 <sup>-2</sup>	1,9x10 <sup>-2</sup>	82
9	1,15x10 <sup>-2</sup>	7,7x10 <sup>-3</sup>	181	2,24x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	134	3,74x10 <sup>-2</sup>	1,6x10 <sup>-2</sup>	120
10	1,09x10 <sup>-2</sup>	7,1x10 <sup>-3</sup>	175	1,83x10 <sup>-2</sup>	9,2x10 <sup>-3</sup>	138	2,68x10 <sup>-2</sup>	1,2x10 <sup>-2</sup>	126
11	9,22x10 <sup>-3</sup>	6,7x10 <sup>-3</sup>	193	1,55x10 <sup>-2</sup>	8,1x10 <sup>-3</sup>	143	2,19x10 <sup>-2</sup>	1,0x10 <sup>-2</sup>	128
12	8,79x10 <sup>-3</sup>	6,3x10 <sup>-3</sup>	190	1,36x10 <sup>-2</sup>	7,5x10 <sup>-3</sup>	150	1,74x10 <sup>-2</sup>	9,0x10 <sup>-3</sup>	143
13	8,26x10 <sup>-3</sup>	5,9x10 <sup>-3</sup>	190	1,20x10 <sup>-2</sup>	7,2x10 <sup>-3</sup>	163	1,53x10 <sup>-2</sup>	8,6x10 <sup>-3</sup>	155
14	7,68x10 <sup>-3</sup>	5,6x10 <sup>-3</sup>	194	1,08x10 <sup>-2</sup>	6,7x10 <sup>-3</sup>	168	1,35x10 <sup>-2</sup>	7,8x10 <sup>-3</sup>	158
15	7,10x10 <sup>-3</sup>	5,4x10 <sup>-3</sup>	200	9,78x10 <sup>-3</sup>	6,1x10 <sup>-3</sup>	167	1,21x10 <sup>-2</sup>	7,0x10 <sup>-3</sup>	157
16	6,57x10 <sup>-3</sup>	5,2x10 <sup>-3</sup>	207	8,98x10 <sup>-3</sup>	5,9x10 <sup>-3</sup>	177	1,08x10 <sup>-2</sup>	6,4x10 <sup>-3</sup>	161
17	6,12x10 <sup>-3</sup>	5,0x10 <sup>-3</sup>	214	8,31x10 <sup>-3</sup>	5,6x10 <sup>-3</sup>	181	9,86x10 <sup>-3</sup>	6,0x10 <sup>-3</sup>	166
18	5,77x10 <sup>-3</sup>	4,5x10 <sup>-3</sup>	202	7,73x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	183	9,05x10 <sup>-3</sup>	5,9x10 <sup>-3</sup>	178
19	5,53x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	220	7,19x10 <sup>-3</sup>	5,2x10 <sup>-3</sup>	192	8,33x10 <sup>-3</sup>	5,5x10 <sup>-3</sup>	177
20	5,42x10 <sup>-3</sup>	4,5x10 <sup>-3</sup>	216	6,63x10 <sup>-3</sup>	5,0x10 <sup>-3</sup>	199	7,62x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	186
$P$ (MPa)	$T = 308.15$ K			$T = 333.15$ K					
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)			
8	5,54x10 <sup>-1</sup>	9,0x10 <sup>-2</sup>	42	4,98x10 <sup>-1</sup>	2,8x10 <sup>-2</sup>	11			
9	2,80x10 <sup>-1</sup>	5,8x10 <sup>-2</sup>	55	1,94x10 <sup>-1</sup>	1,8x10 <sup>-2</sup>	22			
10	8,68x10 <sup>-2</sup>	2,8x10 <sup>-2</sup>	88	1,94x10 <sup>-1</sup>	2,3x10 <sup>-2</sup>	29			
11	5,14x10 <sup>-2</sup>	1,8x10 <sup>-2</sup>	99	1,89x10 <sup>-1</sup>	3,4x10 <sup>-2</sup>	49			
12	3,60x10 <sup>-2</sup>	1,4x10 <sup>-2</sup>	108	1,69x10 <sup>-1</sup>	3,3x10 <sup>-2</sup>	53			
13	2,79x10 <sup>-2</sup>	1,2x10 <sup>-2</sup>	120	1,33x10 <sup>-1</sup>	2,5x10 <sup>-2</sup>	48			
14	2,26x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	129	9,74x10 <sup>-2</sup>	2,2x10 <sup>-2</sup>	61			
15	1,90x10 <sup>-2</sup>	9,2x10 <sup>-3</sup>	134	7,10x10 <sup>-2</sup>	1,7x10 <sup>-2</sup>	64			
16	1,65x10 <sup>-2</sup>	8,6x10 <sup>-3</sup>	144	5,40x10 <sup>-2</sup>	1,5x10 <sup>-2</sup>	75			
17	1,45x10 <sup>-2</sup>	7,9x10 <sup>-3</sup>	150	4,25x10 <sup>-2</sup>	1,3x10 <sup>-2</sup>	82			
18	1,30x10 <sup>-2</sup>	7,3x10 <sup>-3</sup>	156	3,46x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	88			
19	1,17x10 <sup>-2</sup>	6,7x10 <sup>-3</sup>	157	2,90x10 <sup>-2</sup>	1,0x10 <sup>-2</sup>	96			
20	1,07x10 <sup>-2</sup>	6,0x10 <sup>-3</sup>	154	2,49x10 <sup>-2</sup>	8,8x10 <sup>-3</sup>	98			

**Table S3 (continued).** Isothermal Compressibility,  $\kappa_T$ , Isobaric Thermal Expansivity,  $\alpha_p$ , and Internal Pressure,  $\pi$ , for  $x \text{ CO}_2 + (1-x) \text{ CH}_4$  mixtures at several temperatures and pressures.

$x = 0.9809$									
$P$ (MPa)	$T = 253.15$ K			$T = 263.15$ K			$T = 273.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	3,96x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	267	5,23x10 <sup>-3</sup>	4,9x10 <sup>-3</sup>	236	7,47x10 <sup>-3</sup>	5,9x10 <sup>-3</sup>	206
9	3,79x10 <sup>-3</sup>	4,2x10 <sup>-3</sup>	269	4,95x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	240	6,99x10 <sup>-3</sup>	5,6x10 <sup>-3</sup>	210
10	3,62x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	274	4,69x10 <sup>-3</sup>	4,5x10 <sup>-3</sup>	244	6,55x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	213
11	3,45x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	280	4,47x10 <sup>-3</sup>	4,4x10 <sup>-3</sup>	247	6,16x10 <sup>-3</sup>	5,1x10 <sup>-3</sup>	215
12	3,30x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	287	4,24x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	253	5,80x10 <sup>-3</sup>	4,9x10 <sup>-3</sup>	219
13	3,17x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	291	4,03x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	258	5,47x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	223
14	3,07x10 <sup>-3</sup>	3,7x10 <sup>-3</sup>	293	3,86x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	261	5,17x10 <sup>-3</sup>	4,6x10 <sup>-3</sup>	228
15	3,01x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	291	3,70x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	265	4,92x10 <sup>-3</sup>	4,4x10 <sup>-3</sup>	232
16	2,95x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	287	3,59x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	266	4,69x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	233
17	2,90x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	290	3,48x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	268	4,49x10 <sup>-3</sup>	4,2x10 <sup>-3</sup>	237
18	2,84x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	290	3,40x10 <sup>-3</sup>	3,7x10 <sup>-3</sup>	267	4,32x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	240
19	2,74x10 <sup>-3</sup>	3,4x10 <sup>-3</sup>	296	3,35x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	265	4,18x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	241
20	2,60x10 <sup>-3</sup>	3,3x10 <sup>-3</sup>	306	3,34x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	259	4,06x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	248
$P$ (MPa)	$T = 283.15$ K			$T = 293.15$ K			$T = 298.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	1,19x10 <sup>-2</sup>	7,9x10 <sup>-3</sup>	179	2,80x10 <sup>-2</sup>	1,3x10 <sup>-2</sup>	123	5,12x10 <sup>-2</sup>	1,7x10 <sup>-2</sup>	89
9	1,06x10 <sup>-2</sup>	7,5x10 <sup>-3</sup>	190	2,10x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	139	3,27x10 <sup>-2</sup>	1,5x10 <sup>-2</sup>	129
10	9,60x10 <sup>-3</sup>	6,9x10 <sup>-3</sup>	193	1,66x10 <sup>-2</sup>	9,2x10 <sup>-3</sup>	153	2,45x10 <sup>-2</sup>	1,2x10 <sup>-2</sup>	135
11	8,74x10 <sup>-3</sup>	6,4x10 <sup>-3</sup>	198	1,40x10 <sup>-2</sup>	8,3x10 <sup>-3</sup>	164	1,89x10 <sup>-2</sup>	1,0x10 <sup>-2</sup>	148
12	8,01x10 <sup>-3</sup>	6,1x10 <sup>-3</sup>	204	1,24x10 <sup>-2</sup>	7,7x10 <sup>-3</sup>	170	1,63x10 <sup>-2</sup>	8,8x10 <sup>-3</sup>	150
13	7,42x10 <sup>-3</sup>	5,8x10 <sup>-3</sup>	209	1,12x10 <sup>-2</sup>	7,1x10 <sup>-3</sup>	172	1,44x10 <sup>-2</sup>	8,0x10 <sup>-3</sup>	154
14	6,91x10 <sup>-3</sup>	5,5x10 <sup>-3</sup>	213	1,03x10 <sup>-2</sup>	6,6x10 <sup>-3</sup>	174	1,28x10 <sup>-2</sup>	7,4x10 <sup>-3</sup>	158
15	6,47x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	217	9,57x10 <sup>-3</sup>	6,2x10 <sup>-3</sup>	176	1,13x10 <sup>-2</sup>	6,9x10 <sup>-3</sup>	167
16	6,09x10 <sup>-3</sup>	5,1x10 <sup>-3</sup>	221	8,87x10 <sup>-3</sup>	6,0x10 <sup>-3</sup>	181	9,97x10 <sup>-3</sup>	6,5x10 <sup>-3</sup>	178
17	5,76x10 <sup>-3</sup>	4,9x10 <sup>-3</sup>	224	8,16x10 <sup>-3</sup>	5,7x10 <sup>-3</sup>	189	9,21x10 <sup>-3</sup>	6,1x10 <sup>-3</sup>	181
18	5,46x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	227	7,42x10 <sup>-3</sup>	5,5x10 <sup>-3</sup>	200	8,64x10 <sup>-3</sup>	5,9x10 <sup>-3</sup>	184
19	5,22x10 <sup>-3</sup>	4,6x10 <sup>-3</sup>	230	6,68x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	213	8,11x10 <sup>-3</sup>	5,6x10 <sup>-3</sup>	186
20	5,06x10 <sup>-3</sup>	4,5x10 <sup>-3</sup>	232	6,03x10 <sup>-3</sup>	5,0x10 <sup>-3</sup>	221	7,39x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	192
$P$ (MPa)	$T = 308.15$ K			$T = 333.15$ K					
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)			
8	6,30x10 <sup>-1</sup>	1,1x10 <sup>-1</sup>	44	2,00x10 <sup>-1</sup>	1,3x10 <sup>-2</sup>	14			
9	2,11x10 <sup>-1</sup>	4,5x10 <sup>-2</sup>	57	1,98x10 <sup>-1</sup>	1,8x10 <sup>-2</sup>	22			
10	7,46x10 <sup>-2</sup>	2,3x10 <sup>-2</sup>	86	1,99x10 <sup>-1</sup>	2,7x10 <sup>-2</sup>	35			
11	4,45x10 <sup>-2</sup>	1,6x10 <sup>-2</sup>	100	1,96x10 <sup>-1</sup>	3,4x10 <sup>-2</sup>	47			
12	3,24x10 <sup>-2</sup>	1,3x10 <sup>-2</sup>	112	1,74x10 <sup>-1</sup>	3,2x10 <sup>-2</sup>	49			
13	2,54x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	120	1,31x10 <sup>-1</sup>	2,3x10 <sup>-2</sup>	47			
14	2,11x10 <sup>-2</sup>	9,9x10 <sup>-3</sup>	131	9,27x10 <sup>-2</sup>	2,2x10 <sup>-2</sup>	64			
15	1,78x10 <sup>-2</sup>	8,6x10 <sup>-3</sup>	134	6,69x10 <sup>-2</sup>	1,7x10 <sup>-2</sup>	71			
16	1,53x10 <sup>-2</sup>	7,7x10 <sup>-3</sup>	138	5,14x10 <sup>-2</sup>	1,5x10 <sup>-2</sup>	80			
17	1,35x10 <sup>-2</sup>	7,0x10 <sup>-3</sup>	144	4,07x10 <sup>-2</sup>	1,3x10 <sup>-2</sup>	88			
18	1,21x10 <sup>-2</sup>	7,0x10 <sup>-3</sup>	161	3,31x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	96			
19	1,10x10 <sup>-2</sup>	6,6x10 <sup>-3</sup>	165	2,76x10 <sup>-2</sup>	1,0x10 <sup>-2</sup>	102			
20	1,04x10 <sup>-2</sup>	6,6x10 <sup>-3</sup>	177	2,36x10 <sup>-2</sup>	7,8x10 <sup>-3</sup>	91			

**Table S3 (continued).** Isothermal Compressibility,  $\kappa_T$ , Isobaric Thermal Expansivity,  $\alpha_p$ , and Internal Pressure,  $\pi$ , for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures at several temperatures and pressures.

$x = 0.9902$									
$P$ (MPa)	$T = 253.15$ K			$T = 263.15$ K			$T = 273.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	3,70x10 <sup>-3</sup>	4,2x10 <sup>-3</sup>	282	4,93x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	244	7,25x10 <sup>-3</sup>	5,8x10 <sup>-3</sup>	211
9	3,57x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	283	4,70x10 <sup>-3</sup>	4,6x10 <sup>-3</sup>	246	6,71x10 <sup>-3</sup>	5,5x10 <sup>-3</sup>	216
10	3,44x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	286	4,49x10 <sup>-3</sup>	4,4x10 <sup>-3</sup>	249	6,27x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	220
11	3,33x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	287	4,29x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	251	5,87x10 <sup>-3</sup>	5,0x10 <sup>-3</sup>	224
12	3,22x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	290	4,09x10 <sup>-3</sup>	4,2x10 <sup>-3</sup>	256	5,52x10 <sup>-3</sup>	4,9x10 <sup>-3</sup>	229
13	3,11x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	292	3,91x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	260	5,22x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	233
14	3,01x10 <sup>-3</sup>	3,7x10 <sup>-3</sup>	294	3,75x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	263	4,94x10 <sup>-3</sup>	4,5x10 <sup>-3</sup>	236
15	2,92x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	300	3,61x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	267	4,70x10 <sup>-3</sup>	4,4x10 <sup>-3</sup>	239
16	2,83x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	304	3,48x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	270	4,48x10 <sup>-3</sup>	4,2x10 <sup>-3</sup>	243
17	2,74x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	307	3,36x10 <sup>-3</sup>	3,7x10 <sup>-3</sup>	272	4,29x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	246
18	2,66x10 <sup>-3</sup>	3,4x10 <sup>-3</sup>	308	3,26x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	274	4,11x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	249
19	2,59x10 <sup>-3</sup>	3,4x10 <sup>-3</sup>	310	3,18x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	274	3,95x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	252
20	2,52x10 <sup>-3</sup>	3,3x10 <sup>-3</sup>	314	3,12x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	275	3,82x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	251
$P$ (MPa)	$T = 283.15$ K			$T = 293.15$ K			$T = 298.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	1,15x10 <sup>-2</sup>	7,8x10 <sup>-3</sup>	184	2,31x10 <sup>-2</sup>	1,2x10 <sup>-2</sup>	141	4,24x10 <sup>-2</sup>	1,9x10 <sup>-2</sup>	128
9	1,02x10 <sup>-2</sup>	7,1x10 <sup>-3</sup>	189	1,83x10 <sup>-2</sup>	9,9x10 <sup>-3</sup>	150	2,82x10 <sup>-2</sup>	1,4x10 <sup>-2</sup>	135
10	9,22x10 <sup>-3</sup>	6,6x10 <sup>-3</sup>	194	1,53x10 <sup>-2</sup>	8,7x10 <sup>-3</sup>	157	2,17x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	141
11	8,11x10 <sup>-3</sup>	6,3x10 <sup>-3</sup>	208	1,34x10 <sup>-2</sup>	7,8x10 <sup>-3</sup>	160	1,77x10 <sup>-2</sup>	9,5x10 <sup>-3</sup>	149
12	7,81x10 <sup>-3</sup>	5,9x10 <sup>-3</sup>	203	1,19x10 <sup>-2</sup>	7,3x10 <sup>-3</sup>	167	1,52x10 <sup>-2</sup>	8,5x10 <sup>-3</sup>	155
13	7,25x10 <sup>-3</sup>	5,7x10 <sup>-3</sup>	208	1,07x10 <sup>-2</sup>	6,8x10 <sup>-3</sup>	173	1,34x10 <sup>-2</sup>	7,7x10 <sup>-3</sup>	159
14	6,78x10 <sup>-3</sup>	5,4x10 <sup>-3</sup>	211	9,83x10 <sup>-3</sup>	6,4x10 <sup>-3</sup>	178	1,20x10 <sup>-2</sup>	7,2x10 <sup>-3</sup>	165
15	6,41x10 <sup>-3</sup>	5,2x10 <sup>-3</sup>	214	9,07x10 <sup>-3</sup>	6,1x10 <sup>-3</sup>	182	1,08x10 <sup>-2</sup>	6,7x10 <sup>-3</sup>	170
16	6,07x10 <sup>-3</sup>	5,0x10 <sup>-3</sup>	216	8,34x10 <sup>-3</sup>	5,8x10 <sup>-3</sup>	187	9,81x10 <sup>-3</sup>	6,3x10 <sup>-3</sup>	174
17	5,76x10 <sup>-3</sup>	4,8x10 <sup>-3</sup>	218	7,75x10 <sup>-3</sup>	5,5x10 <sup>-3</sup>	192	9,02x10 <sup>-3</sup>	5,9x10 <sup>-3</sup>	180
18	5,49x10 <sup>-3</sup>	4,6x10 <sup>-3</sup>	221	7,17x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	200	8,36x10 <sup>-3</sup>	5,7x10 <sup>-3</sup>	184
19	5,25x10 <sup>-3</sup>	4,5x10 <sup>-3</sup>	223	6,83x10 <sup>-3</sup>	5,1x10 <sup>-3</sup>	201	7,79x10 <sup>-3</sup>	5,4x10 <sup>-3</sup>	188
20	5,01x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	225	6,49x10 <sup>-3</sup>	5,0x10 <sup>-3</sup>	207	7,33x10 <sup>-3</sup>	5,2x10 <sup>-3</sup>	191
$P$ (MPa)	$T = 308.15$ K			$T = 333.15$ K					
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)			
8	8,40x10 <sup>-1</sup>	1,2x10 <sup>-1</sup>	34	2,04x10 <sup>-1</sup>	1,9x10 <sup>-2</sup>	23			
9	1,40x10 <sup>-1</sup>	3,9x10 <sup>-2</sup>	76	2,05x10 <sup>-1</sup>	2,8x10 <sup>-2</sup>	37			
10	6,00x10 <sup>-2</sup>	2,2x10 <sup>-2</sup>	101	2,07x10 <sup>-1</sup>	2,5x10 <sup>-2</sup>	32			
11	4,01x10 <sup>-2</sup>	1,4x10 <sup>-2</sup>	100	1,98x10 <sup>-1</sup>	4,0x10 <sup>-2</sup>	57			
12	2,97x10 <sup>-2</sup>	1,3x10 <sup>-2</sup>	126	1,69x10 <sup>-1</sup>	3,8x10 <sup>-2</sup>	63			
13	2,36x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	135	1,30x10 <sup>-1</sup>	2,8x10 <sup>-2</sup>	59			
14	1,96x10 <sup>-2</sup>	9,6x10 <sup>-3</sup>	137	9,15x10 <sup>-2</sup>	2,1x10 <sup>-2</sup>	62			
15	1,69x10 <sup>-2</sup>	8,6x10 <sup>-3</sup>	142	6,55x10 <sup>-2</sup>	1,7x10 <sup>-2</sup>	72			
16	1,47x10 <sup>-2</sup>	7,8x10 <sup>-3</sup>	148	4,90x10 <sup>-2</sup>	1,4x10 <sup>-2</sup>	80			
17	1,30x10 <sup>-2</sup>	7,3x10 <sup>-3</sup>	155	3,90x10 <sup>-2</sup>	1,2x10 <sup>-2</sup>	88			
18	1,17x10 <sup>-2</sup>	6,8x10 <sup>-3</sup>	160	3,16x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	95			
19	1,06x10 <sup>-2</sup>	6,3x10 <sup>-3</sup>	165	2,65x10 <sup>-2</sup>	9,6x10 <sup>-3</sup>	102			
20	9,70x10 <sup>-3</sup>	6,0x10 <sup>-3</sup>	170	2,27x10 <sup>-2</sup>	8,8x10 <sup>-3</sup>	109			

**Table S3 (continued).** Isothermal Compressibility,  $\kappa_T$ , Isobaric Thermal Expansivity,  $\alpha_p$ , and Internal Pressure,  $\pi$ , for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures at several temperatures and pressures.

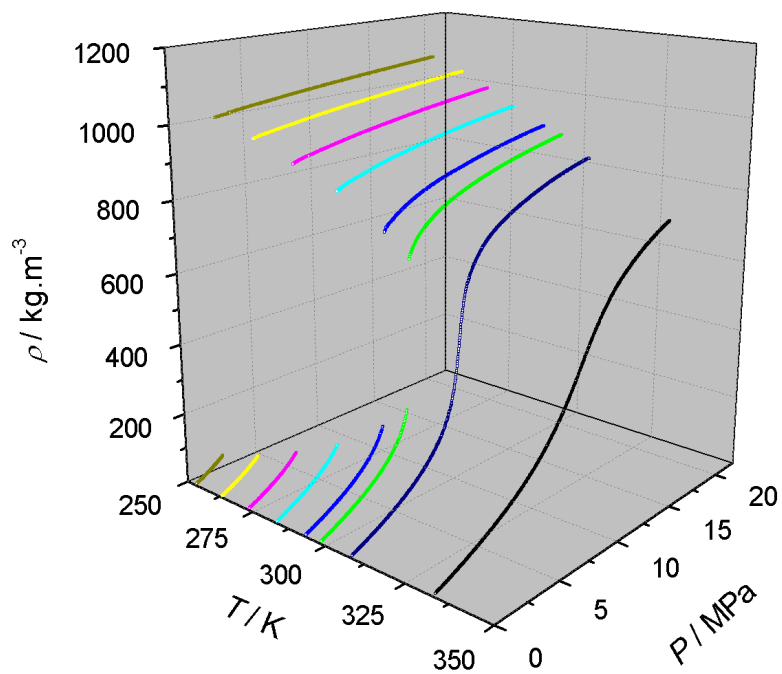
$x = 0.9932$									
$P$ (MPa)	$T = 253.15$ K			$T = 263.15$ K			$T = 273.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	3,63x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	276	4,90x10 <sup>-3</sup>	4,8x10 <sup>-3</sup>	248	7,06x10 <sup>-3</sup>	5,7x10 <sup>-3</sup>	214
9	3,50x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	278	4,66x10 <sup>-3</sup>	4,6x10 <sup>-3</sup>	251	6,59x10 <sup>-3</sup>	5,5x10 <sup>-3</sup>	217
10	3,39x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	282	4,45x10 <sup>-3</sup>	4,5x10 <sup>-3</sup>	254	6,19x10 <sup>-3</sup>	5,2x10 <sup>-3</sup>	221
11	3,27x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	286	4,26x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	257	5,83x10 <sup>-3</sup>	5,0x10 <sup>-3</sup>	223
12	3,17x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	288	4,08x10 <sup>-3</sup>	4,2x10 <sup>-3</sup>	260	5,50x10 <sup>-3</sup>	4,8x10 <sup>-3</sup>	227
13	3,07x10 <sup>-3</sup>	3,7x10 <sup>-3</sup>	293	3,92x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	263	5,20x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	231
14	2,98x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	294	3,77x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	266	4,94x10 <sup>-3</sup>	4,5x10 <sup>-3</sup>	236
15	2,89x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	298	3,63x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	269	4,69x10 <sup>-3</sup>	4,4x10 <sup>-3</sup>	240
16	2,81x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	300	3,51x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	272	4,48x10 <sup>-3</sup>	4,2x10 <sup>-3</sup>	243
17	2,73x10 <sup>-3</sup>	3,4x10 <sup>-3</sup>	302	3,39x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	275	4,29x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	247
18	2,65x10 <sup>-3</sup>	3,4x10 <sup>-3</sup>	303	3,28x10 <sup>-3</sup>	3,7x10 <sup>-3</sup>	277	4,11x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	251
19	2,58x10 <sup>-3</sup>	3,3x10 <sup>-3</sup>	308	3,18x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	280	3,96x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	253
20	2,52x10 <sup>-3</sup>	3,3x10 <sup>-3</sup>	312	3,10x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	281	3,83x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	254
$P$ (MPa)	$T = 283.15$ K			$T = 293.15$ K			$T = 298.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	1,13x10 <sup>-2</sup>	7,7x10 <sup>-3</sup>	185	2,25x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	141	3,81x10 <sup>-2</sup>	1,8x10 <sup>-2</sup>	132
9	1,01x10 <sup>-2</sup>	7,1x10 <sup>-3</sup>	190	1,81x10 <sup>-2</sup>	9,7x10 <sup>-3</sup>	147	2,69x10 <sup>-2</sup>	1,3x10 <sup>-2</sup>	135
10	9,11x10 <sup>-3</sup>	6,6x10 <sup>-3</sup>	195	1,53x10 <sup>-2</sup>	8,5x10 <sup>-3</sup>	153	2,10x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	140
11	8,30x10 <sup>-3</sup>	6,2x10 <sup>-3</sup>	200	1,33x10 <sup>-2</sup>	7,6x10 <sup>-3</sup>	158	1,73x10 <sup>-2</sup>	9,2x10 <sup>-3</sup>	147
12	7,64x10 <sup>-3</sup>	5,9x10 <sup>-3</sup>	205	1,17x10 <sup>-2</sup>	7,0x10 <sup>-3</sup>	163	1,48x10 <sup>-2</sup>	8,3x10 <sup>-3</sup>	156
13	7,11x10 <sup>-3</sup>	5,6x10 <sup>-3</sup>	209	1,06x10 <sup>-2</sup>	6,6x10 <sup>-3</sup>	169	1,30x10 <sup>-2</sup>	7,6x10 <sup>-3</sup>	161
14	6,63x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	214	9,60x10 <sup>-3</sup>	6,2x10 <sup>-3</sup>	174	1,17x10 <sup>-2</sup>	7,1x10 <sup>-3</sup>	166
15	6,22x10 <sup>-3</sup>	5,1x10 <sup>-3</sup>	218	8,81x10 <sup>-3</sup>	5,8x10 <sup>-3</sup>	179	1,06x10 <sup>-2</sup>	6,6x10 <sup>-3</sup>	170
16	5,87x10 <sup>-3</sup>	4,9x10 <sup>-3</sup>	222	8,16x10 <sup>-3</sup>	5,5x10 <sup>-3</sup>	183	9,62x10 <sup>-3</sup>	6,2x10 <sup>-3</sup>	175
17	5,56x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	225	7,58x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	187	8,89x10 <sup>-3</sup>	5,8x10 <sup>-3</sup>	179
18	5,30x10 <sup>-3</sup>	4,6x10 <sup>-3</sup>	228	7,08x10 <sup>-3</sup>	5,1x10 <sup>-3</sup>	191	8,25x10 <sup>-3</sup>	5,6x10 <sup>-3</sup>	184
19	5,05x10 <sup>-3</sup>	4,4x10 <sup>-3</sup>	230	6,64x10 <sup>-3</sup>	4,9x10 <sup>-3</sup>	197	7,72x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	187
20	4,85x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	232	6,28x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	199	7,25x10 <sup>-3</sup>	5,1x10 <sup>-3</sup>	190
$P$ (MPa)	$T = 308.15$ K			$T = 333.15$ K					
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)			
8	1,16	1,0x10 <sup>-1</sup>	20	2,04x10 <sup>-1</sup>	1,4x10 <sup>-2</sup>	15			
9	1,19x10 <sup>-1</sup>	3,1x10 <sup>-2</sup>	70	2,06x10 <sup>-1</sup>	2,0x10 <sup>-2</sup>	23			
10	5,70x10 <sup>-2</sup>	2,0x10 <sup>-2</sup>	97	2,11x10 <sup>-1</sup>	3,0x10 <sup>-2</sup>	37			
11	3,76x10 <sup>-2</sup>	1,5x10 <sup>-2</sup>	111	2,07x10 <sup>-1</sup>	3,7x10 <sup>-2</sup>	49			
12	2,84x10 <sup>-2</sup>	1,2x10 <sup>-2</sup>	120	1,70x10 <sup>-1</sup>	3,2x10 <sup>-2</sup>	51			
13	2,28x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	129	1,22x10 <sup>-1</sup>	2,8x10 <sup>-2</sup>	62			
14	1,90x10 <sup>-2</sup>	9,5x10 <sup>-3</sup>	140	8,76x10 <sup>-2</sup>	2,1x10 <sup>-2</sup>	66			
15	1,64x10 <sup>-2</sup>	8,5x10 <sup>-3</sup>	145	6,44x10 <sup>-2</sup>	1,7x10 <sup>-2</sup>	72			
16	1,44x10 <sup>-2</sup>	7,8x10 <sup>-3</sup>	151	4,89x10 <sup>-2</sup>	1,4x10 <sup>-2</sup>	78			
17	1,29x10 <sup>-2</sup>	7,2x10 <sup>-3</sup>	155	3,85x10 <sup>-2</sup>	1,2x10 <sup>-2</sup>	86			
18	1,16x10 <sup>-2</sup>	6,7x10 <sup>-3</sup>	160	3,11x10 <sup>-2</sup>	1,0x10 <sup>-2</sup>	94			
19	1,06x10 <sup>-2</sup>	6,3x10 <sup>-3</sup>	164	2,58x10 <sup>-2</sup>	9,4x10 <sup>-3</sup>	103			
20	9,74x10 <sup>-3</sup>	6,0x10 <sup>-3</sup>	169	2,21x10 <sup>-2</sup>	8,5x10 <sup>-3</sup>	109			

**Table S3 (continued).** Isothermal Compressibility,  $\kappa_T$ , Isobaric Thermal Expansivity,  $\alpha_p$ , and Internal Pressure,  $\pi$ , for  $x$  CO<sub>2</sub> + (1- $x$ ) CH<sub>4</sub> mixtures at several temperatures and pressures.

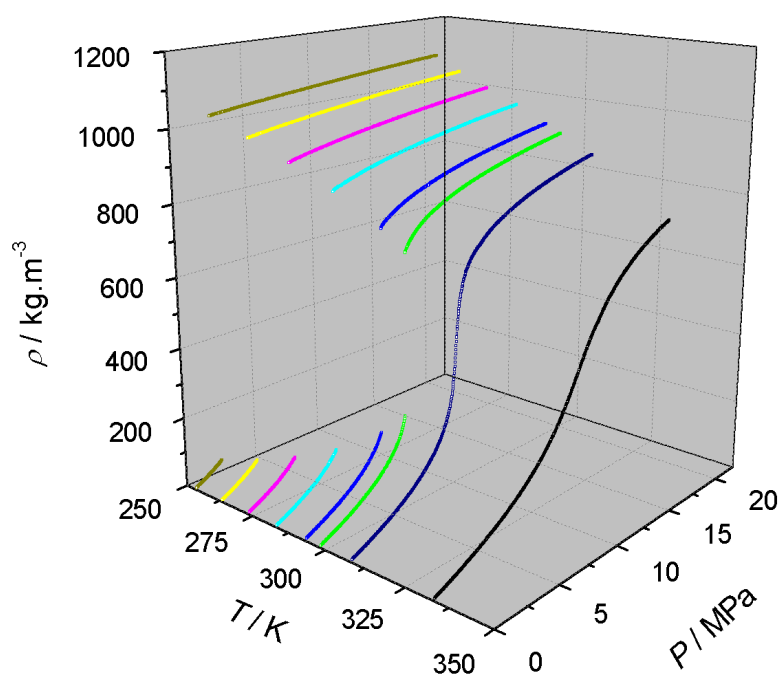
$x = 0.9961$									
$P$ (MPa)	$T = 253.15$ K			$T = 263.15$ K			$T = 273.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	3,58x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	272	4,75x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	253	6,88x10 <sup>-3</sup>	5,6x10 <sup>-3</sup>	213
9	3,46x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	279	4,55x10 <sup>-3</sup>	4,6x10 <sup>-3</sup>	255	6,42x10 <sup>-3</sup>	5,4x10 <sup>-3</sup>	223
10	3,34x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	283	4,36x10 <sup>-3</sup>	4,4x10 <sup>-3</sup>	257	6,02x10 <sup>-3</sup>	5,2x10 <sup>-3</sup>	226
11	3,23x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	287	4,19x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	258	5,67x10 <sup>-3</sup>	5,0x10 <sup>-3</sup>	229
12	3,12x10 <sup>-3</sup>	3,7x10 <sup>-3</sup>	290	4,03x10 <sup>-3</sup>	4,2x10 <sup>-3</sup>	260	5,36x10 <sup>-3</sup>	4,8x10 <sup>-3</sup>	233
13	3,02x10 <sup>-3</sup>	3,7x10 <sup>-3</sup>	298	3,87x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	261	5,10x10 <sup>-3</sup>	4,6x10 <sup>-3</sup>	234
14	2,93x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	301	3,73x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	264	4,85x10 <sup>-3</sup>	4,5x10 <sup>-3</sup>	237
15	2,84x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	299	3,59x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	269	4,63x10 <sup>-3</sup>	4,4x10 <sup>-3</sup>	242
16	2,76x10 <sup>-3</sup>	3,4x10 <sup>-3</sup>	300	3,47x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	271	4,43x10 <sup>-3</sup>	4,2x10 <sup>-3</sup>	246
17	2,69x10 <sup>-3</sup>	3,4x10 <sup>-3</sup>	300	3,36x10 <sup>-3</sup>	3,7x10 <sup>-3</sup>	273	4,25x10 <sup>-3</sup>	4,1x10 <sup>-3</sup>	248
18	2,62x10 <sup>-3</sup>	3,3x10 <sup>-3</sup>	303	3,26x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	276	4,08x10 <sup>-3</sup>	4,0x10 <sup>-3</sup>	251
19	2,56x10 <sup>-3</sup>	3,3x10 <sup>-3</sup>	308	3,16x10 <sup>-3</sup>	3,6x10 <sup>-3</sup>	278	3,93x10 <sup>-3</sup>	3,9x10 <sup>-3</sup>	254
20	2,52x10 <sup>-3</sup>	3,3x10 <sup>-3</sup>	310	3,08x10 <sup>-3</sup>	3,5x10 <sup>-3</sup>	279	3,81x10 <sup>-3</sup>	3,8x10 <sup>-3</sup>	256
$P$ (MPa)	$T = 283.15$ K			$T = 293.15$ K			$T = 298.15$ K		
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)
8	1,12x10 <sup>-2</sup>	7,6x10 <sup>-3</sup>	185	2,19x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	133	3,71x10 <sup>-2</sup>	1,7x10 <sup>-2</sup>	131
9	9,94x10 <sup>-3</sup>	7,0x10 <sup>-3</sup>	191	1,78x10 <sup>-2</sup>	9,7x10 <sup>-3</sup>	151	2,63x10 <sup>-2</sup>	1,3x10 <sup>-2</sup>	134
10	8,94x10 <sup>-3</sup>	6,3x10 <sup>-3</sup>	191	1,50x10 <sup>-2</sup>	8,5x10 <sup>-3</sup>	157	2,09x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	141
11	8,17x10 <sup>-3</sup>	6,1x10 <sup>-3</sup>	202	1,29x10 <sup>-2</sup>	7,7x10 <sup>-3</sup>	165	1,74x10 <sup>-2</sup>	9,2x10 <sup>-3</sup>	147
12	7,61x10 <sup>-3</sup>	5,8x10 <sup>-3</sup>	204	1,14x10 <sup>-2</sup>	6,9x10 <sup>-3</sup>	167	1,48x10 <sup>-2</sup>	8,3x10 <sup>-3</sup>	156
13	7,13x10 <sup>-3</sup>	5,5x10 <sup>-3</sup>	206	1,02x10 <sup>-2</sup>	6,6x10 <sup>-3</sup>	176	1,29x10 <sup>-2</sup>	7,8x10 <sup>-3</sup>	167
14	6,70x10 <sup>-3</sup>	5,1x10 <sup>-3</sup>	202	9,33x10 <sup>-3</sup>	6,3x10 <sup>-3</sup>	184	1,14x10 <sup>-2</sup>	7,1x10 <sup>-3</sup>	172
15	6,20x10 <sup>-3</sup>	5,1x10 <sup>-3</sup>	217	8,63x10 <sup>-3</sup>	5,8x10 <sup>-3</sup>	182	1,02x10 <sup>-2</sup>	6,5x10 <sup>-3</sup>	174
16	5,85x10 <sup>-3</sup>	4,9x10 <sup>-3</sup>	222	8,05x10 <sup>-3</sup>	5,5x10 <sup>-3</sup>	184	9,29x10 <sup>-3</sup>	6,1x10 <sup>-3</sup>	179
17	5,58x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	223	7,53x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	190	8,59x10 <sup>-3</sup>	5,8x10 <sup>-3</sup>	183
18	5,29x10 <sup>-3</sup>	4,6x10 <sup>-3</sup>	227	7,05x10 <sup>-3</sup>	5,1x10 <sup>-3</sup>	194	8,04x10 <sup>-3</sup>	5,5x10 <sup>-3</sup>	186
19	4,96x10 <sup>-3</sup>	4,4x10 <sup>-3</sup>	235	6,60x10 <sup>-3</sup>	4,9x10 <sup>-3</sup>	199	7,61x10 <sup>-3</sup>	5,3x10 <sup>-3</sup>	187
20	4,73x10 <sup>-3</sup>	4,3x10 <sup>-3</sup>	237	6,17x10 <sup>-3</sup>	4,7x10 <sup>-3</sup>	204	7,32x10 <sup>-3</sup>	5,1x10 <sup>-3</sup>	186
$P$ (MPa)	$T = 308.15$ K			$T = 333.15$ K					
	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)	$\kappa_T$ (MPa <sup>-1</sup> )	$\alpha_p$ (K <sup>-1</sup> )	$\pi$ (MPa)			
8	1,42	2,1x10 <sup>-1</sup>	37	2,07x10 <sup>-1</sup>	1,4x10 <sup>-2</sup>	14			
9	1,18x10 <sup>-1</sup>	3,0x10 <sup>-2</sup>	71	2,07x10 <sup>-1</sup>	2,0x10 <sup>-2</sup>	23			
10	5,57x10 <sup>-2</sup>	2,0x10 <sup>-2</sup>	103	2,11x10 <sup>-1</sup>	3,0x10 <sup>-2</sup>	37			
11	3,63x10 <sup>-2</sup>	1,4x10 <sup>-2</sup>	109	2,04x10 <sup>-1</sup>	3,8x10 <sup>-2</sup>	50			
12	2,73x10 <sup>-2</sup>	1,2x10 <sup>-2</sup>	127	1,73x10 <sup>-1</sup>	3,3x10 <sup>-2</sup>	52			
13	2,20x10 <sup>-2</sup>	1,0x10 <sup>-2</sup>	130	1,25x10 <sup>-1</sup>	2,5x10 <sup>-2</sup>	54			
14	1,84x10 <sup>-2</sup>	9,0x10 <sup>-3</sup>	137	8,78x10 <sup>-2</sup>	2,1x10 <sup>-2</sup>	68			
15	1,59x10 <sup>-2</sup>	8,2x10 <sup>-3</sup>	144	6,32x10 <sup>-2</sup>	1,7x10 <sup>-2</sup>	74			
16	1,40x10 <sup>-2</sup>	7,4x10 <sup>-3</sup>	148	4,77x10 <sup>-2</sup>	1,4x10 <sup>-2</sup>	83			
17	1,25x10 <sup>-2</sup>	7,0x10 <sup>-3</sup>	155	3,76x10 <sup>-2</sup>	1,2x10 <sup>-2</sup>	90			
18	1,14x10 <sup>-2</sup>	6,5x10 <sup>-3</sup>	159	3,06x10 <sup>-2</sup>	1,1x10 <sup>-2</sup>	97			
19	1,04x10 <sup>-2</sup>	6,2x10 <sup>-3</sup>	163	2,55x10 <sup>-2</sup>	9,5x10 <sup>-3</sup>	105			
20	9,66x10 <sup>-3</sup>	5,9x10 <sup>-3</sup>	167	2,19x10 <sup>-2</sup>	8,6x10 <sup>-3</sup>	111			

**FIGURE S1.** Experimental densities,  $\rho$ , for CO<sub>2</sub>+CH<sub>4</sub> mixtures with (a)  $x_{\text{CO}_2} = 0.9809$  and (b)  $x_{\text{CO}_2} = 0.9932$  at several temperatures and pressures.

(S1.a)

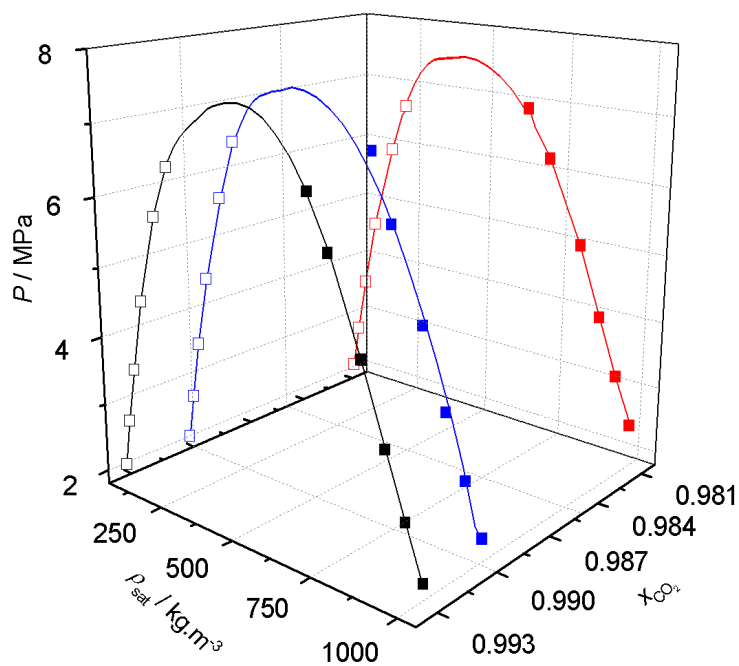


(S1.b)

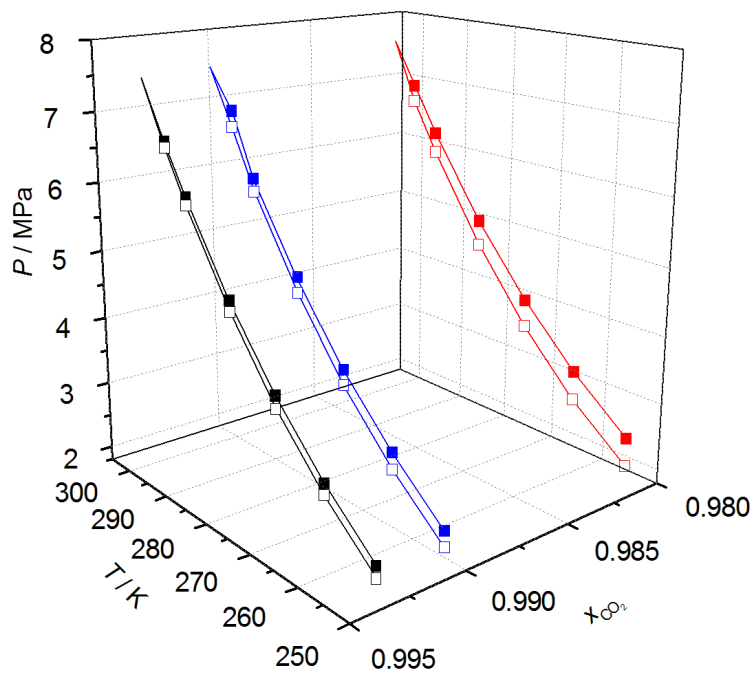




**FIGURE S2.** Experimental dew (blank symbols) and bubble (solid symbols) pressures,  $P_{\text{dew}}$  and  $P_{\text{bubble}}$ , and saturation densities,  $\rho_{\text{sat}}$ , of the phases in equilibrium for  $\text{CO}_2+\text{CH}_4$  mixtures with  $x_{\text{CO}_2} = 0.9809$  (red);  $x_{\text{CO}_2} = 0.9902$  (blue) and  $x_{\text{CO}_2} = 0.9932$  (black).

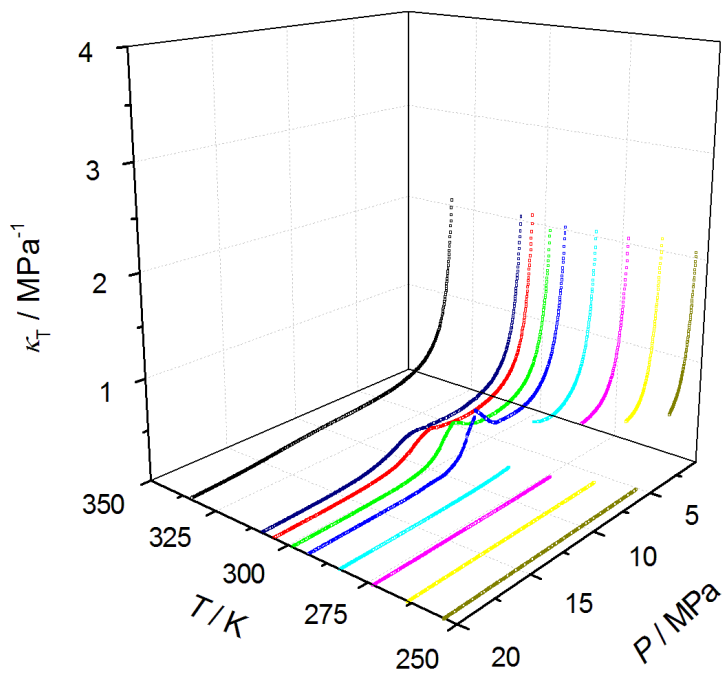


**FIGURE S3.** Phase envelopes for CO<sub>2</sub>+CH<sub>4</sub> mixtures with  $x_{\text{CO}_2} = 0.9809$  (red);  $x_{\text{CO}_2} = 0.9902$  (blue) and  $x_{\text{CO}_2} = 0.9932$  (black). Blank symbols, dew pressures,  $P_{\text{dew}}$ ; solid symbols, bubble pressures,  $P_{\text{bubble}}$ .

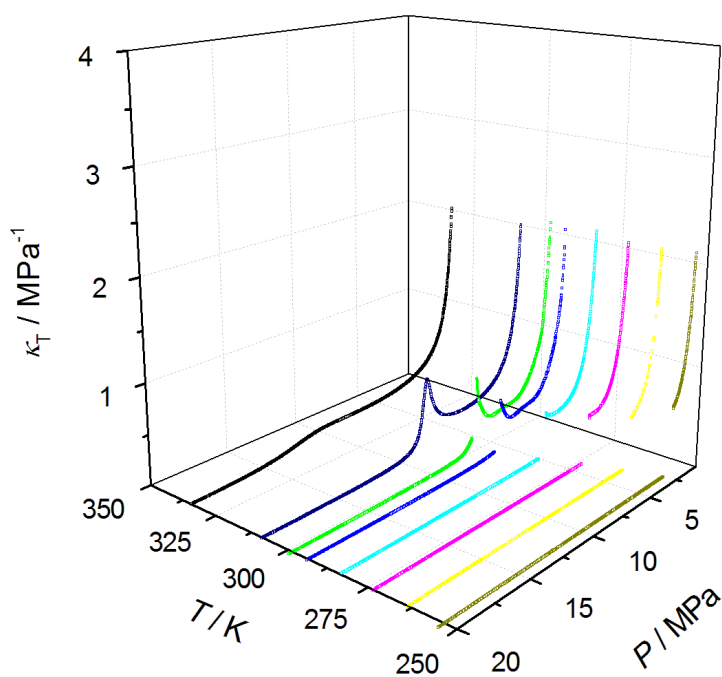


**FIGURE S4.**  $\kappa_T$ - $T$ - $P$  representations for CO<sub>2</sub>+CH<sub>4</sub> mixtures with (a)  $x_{\text{CO}_2}$ = 0.8525; (b)  $x_{\text{CO}_2}$ = 0.9719; (c)  $x_{\text{CO}_2}$ = 0.9809; (d)  $x_{\text{CO}_2}$ = 0.9902; (e)  $x_{\text{CO}_2}$ = 0.9932; (f)  $x_{\text{CO}_2}$ = 0.9961 at several temperatures and pressures.

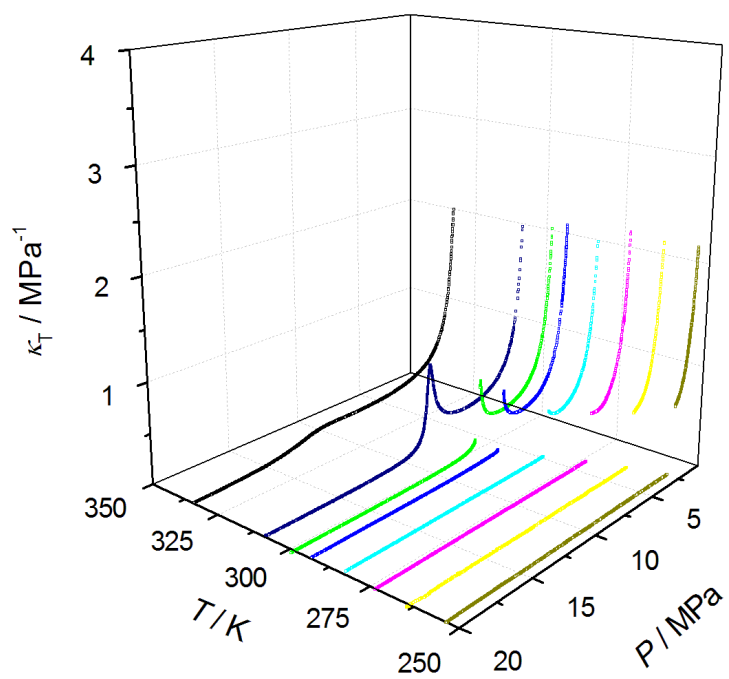
(S4.a)



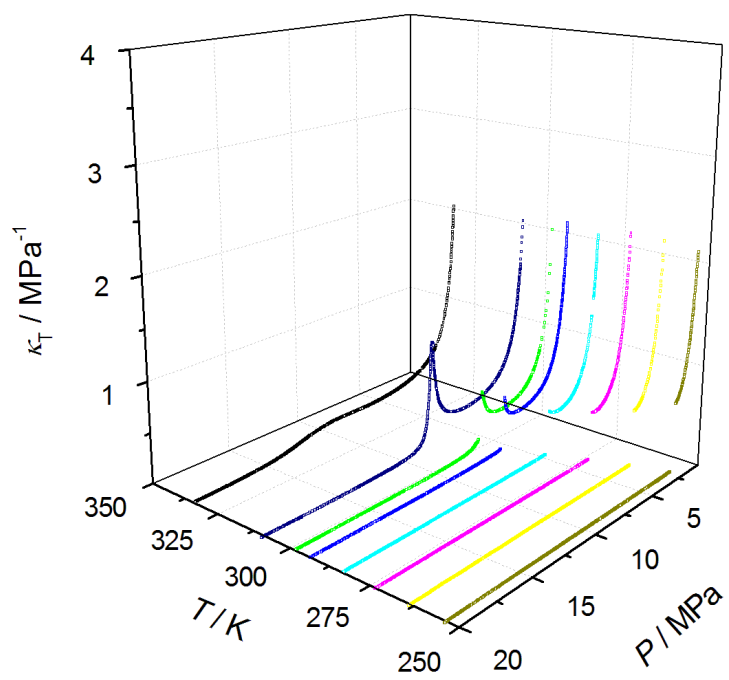
(S4.b)



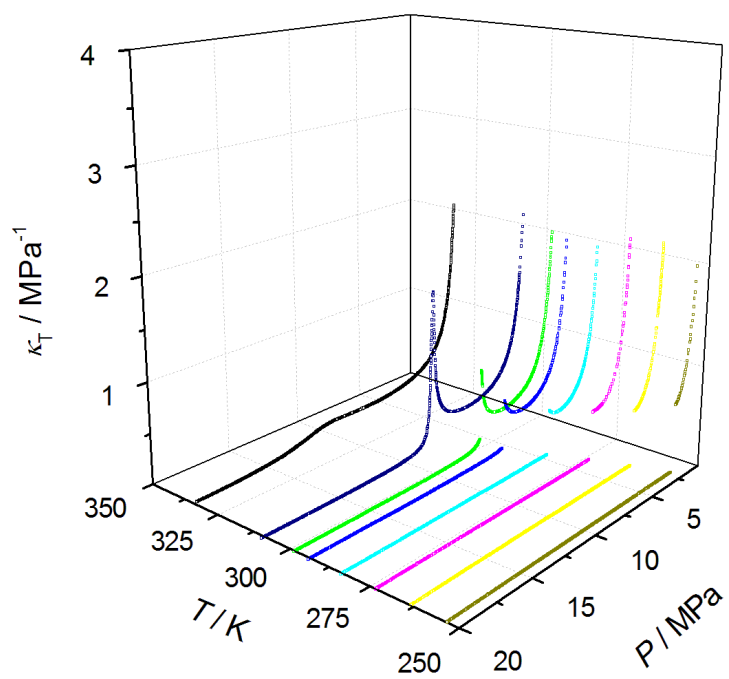
(S4.c)



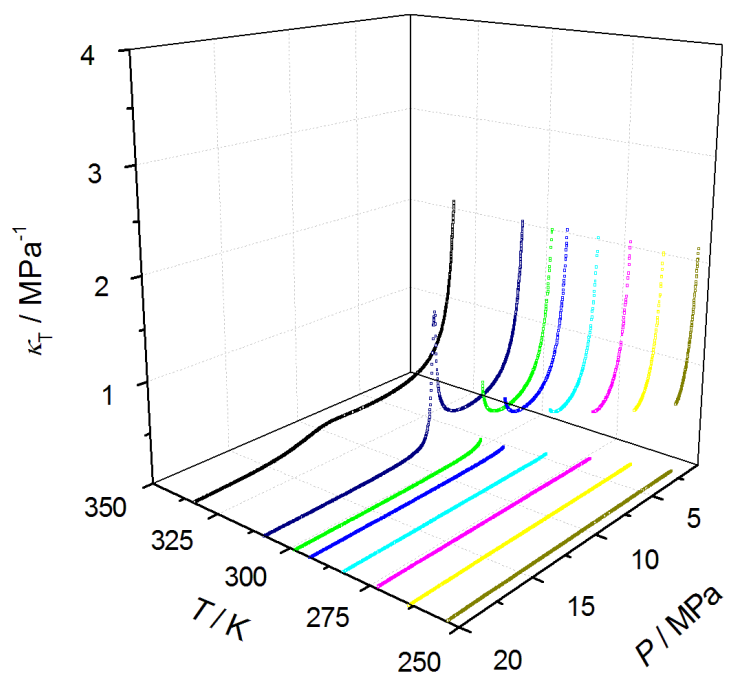
(S4.d)



(S4.e)

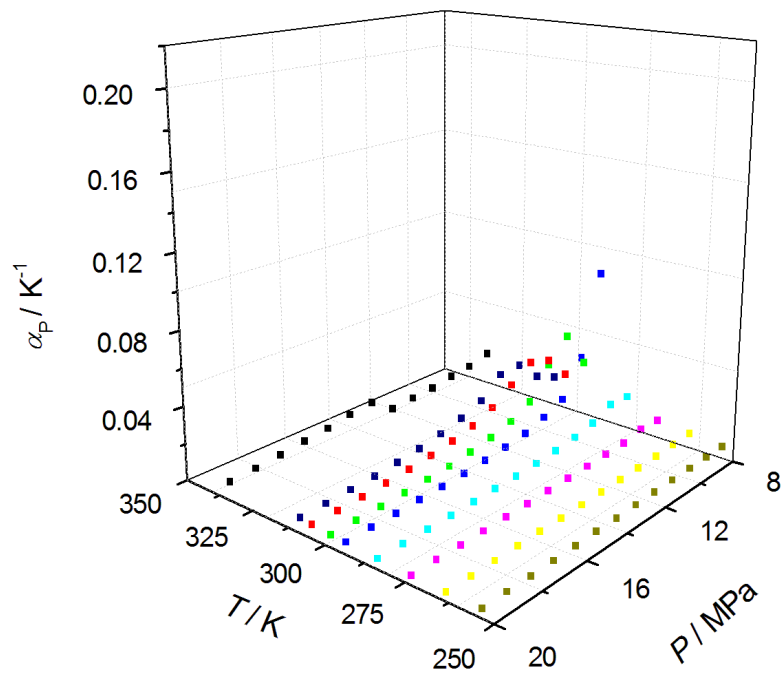


(S4.f)

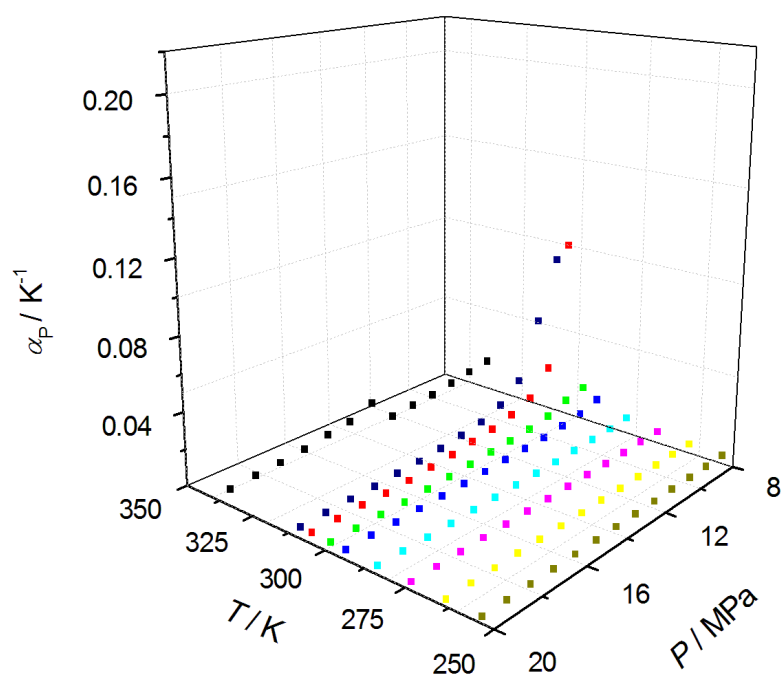


**FIGURE S5.**  $\alpha_p$ - $T$ - $P$  representations for CO<sub>2</sub>+CH<sub>4</sub> mixtures with (a)  $x_{\text{CO}_2} = 0.8525$ ; (b)  $x_{\text{CO}_2} = 0.9719$ ; (c)  $x_{\text{CO}_2} = 0.9809$ ; (d)  $x_{\text{CO}_2} = 0.9902$ ; (e)  $x_{\text{CO}_2} = 0.9932$ ; (f)  $x_{\text{CO}_2} = 0.9961$  at several temperatures and pressures.

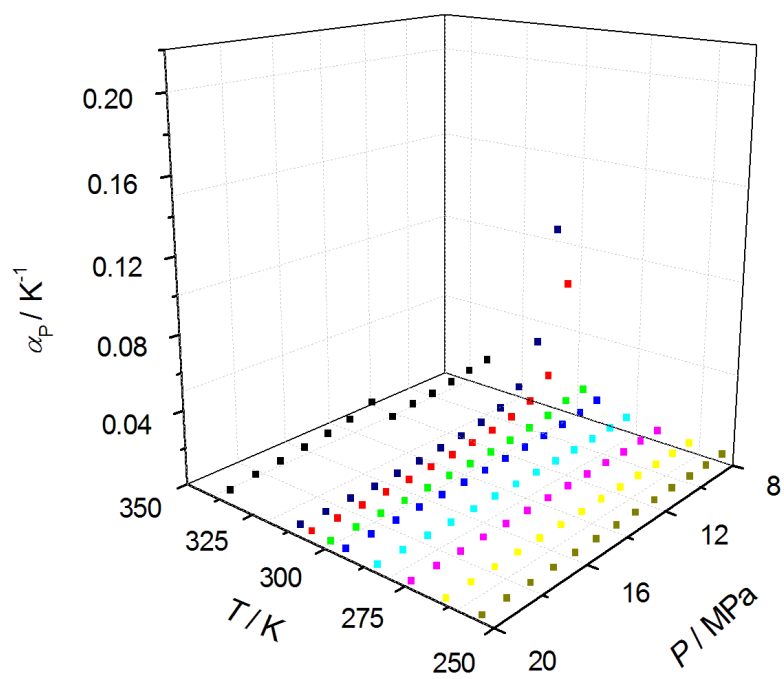
(S5.a)



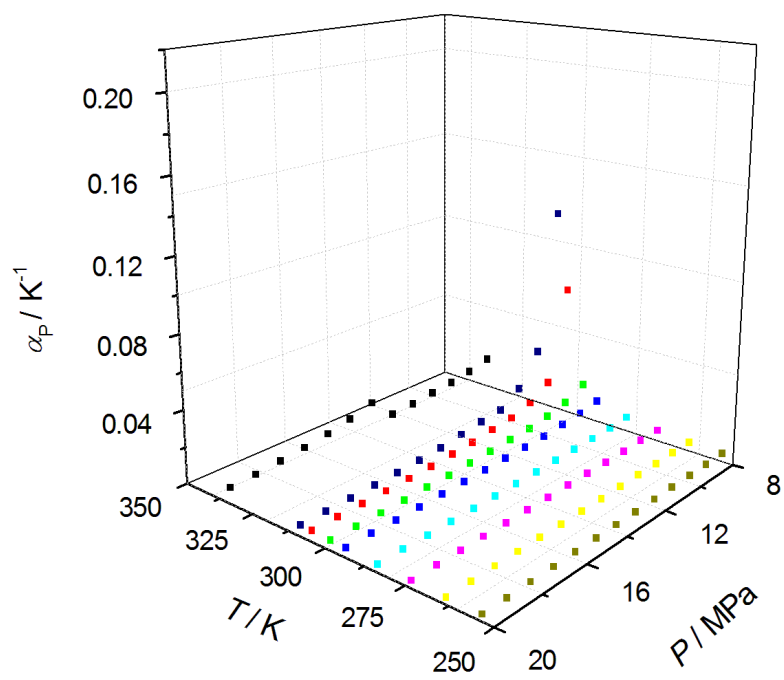
(S5.b)



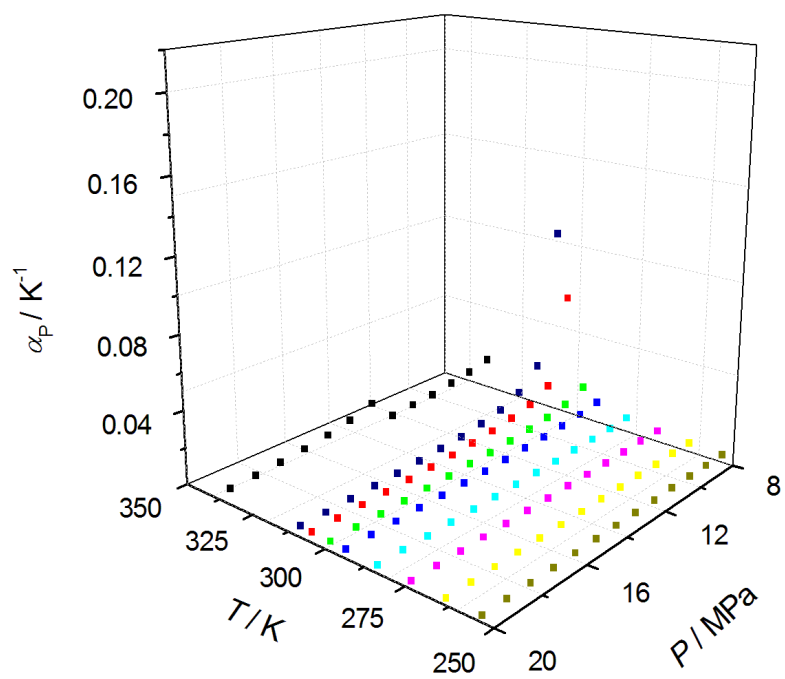
(S5.c)



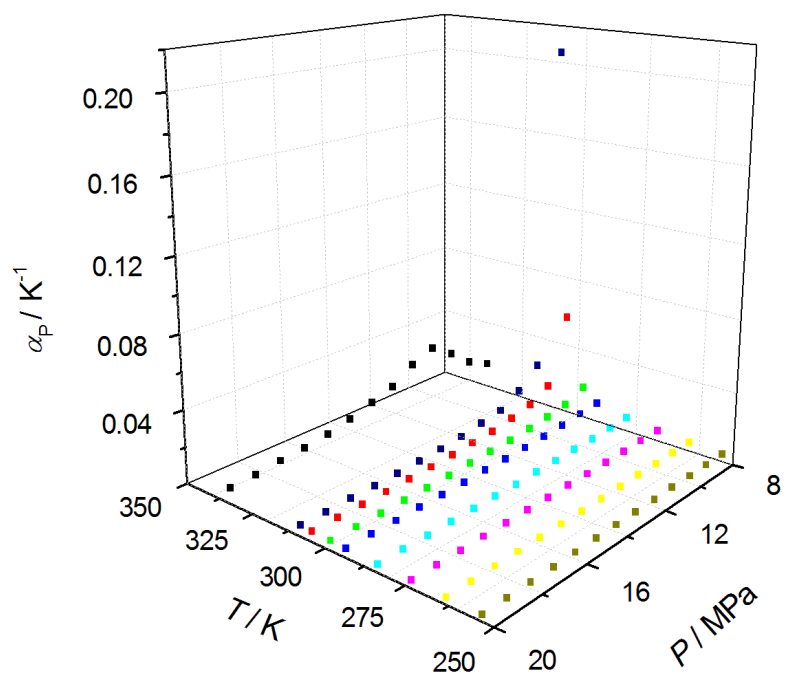
(S5.d)



(S5.e)



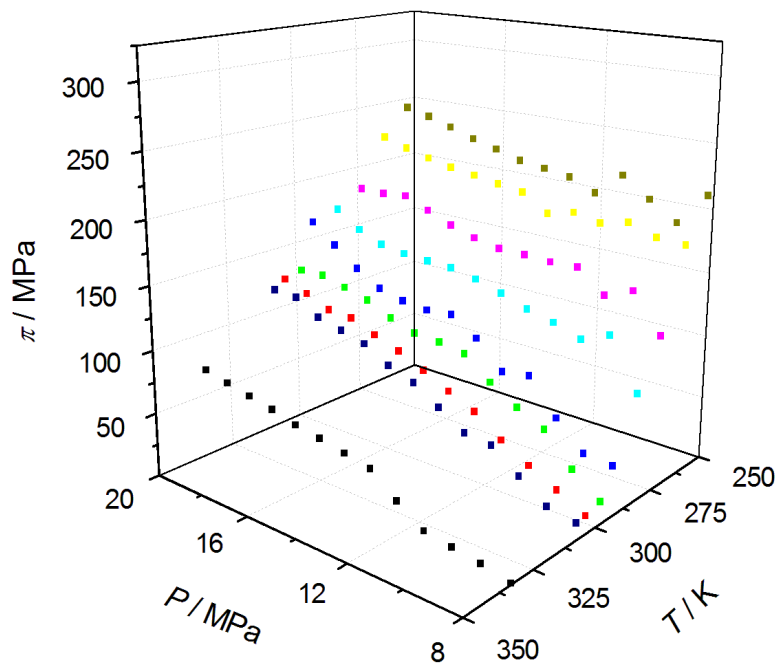
(S5.f)



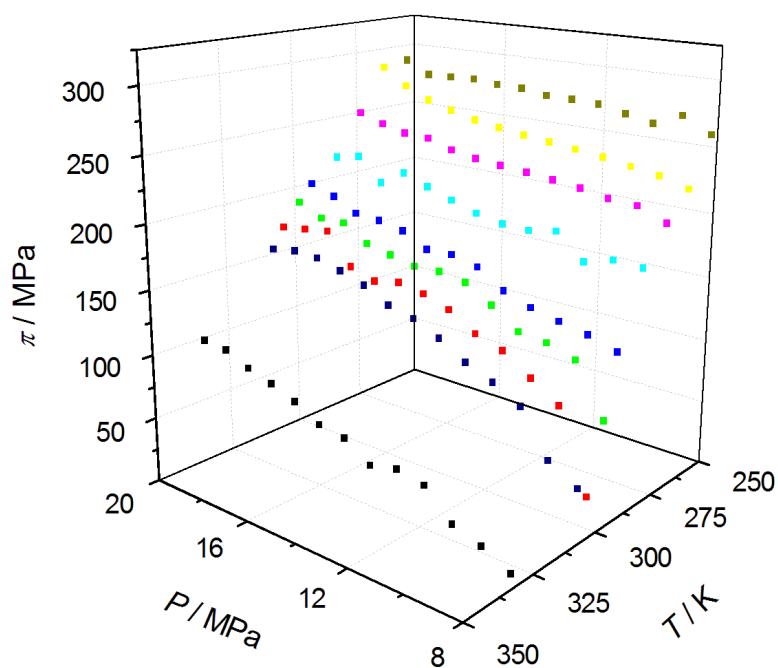


**FIGURE S6.**  $\pi$ - $T$ - $P$  representations for CO<sub>2</sub>+CH<sub>4</sub> mixtures with (a)  $x_{\text{CO}_2} = 0.8525$ ; (b)  $x_{\text{CO}_2} = 0.9719$ ; (c)  $x_{\text{CO}_2} = 0.9809$ ; (d)  $x_{\text{CO}_2} = 0.9902$ ; (e)  $x_{\text{CO}_2} = 0.9932$ ; (f)  $x_{\text{CO}_2} = 0.9961$  at several temperatures and pressures.

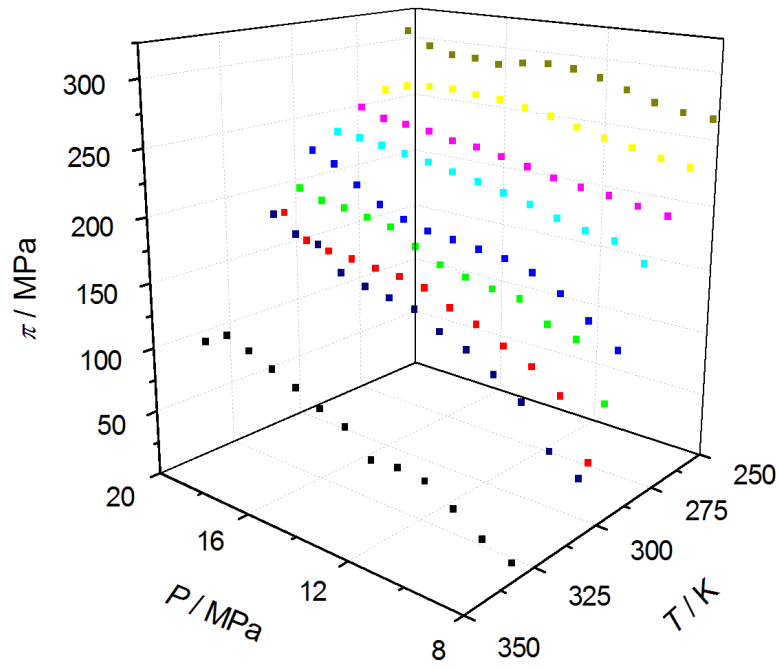
(S6.a)



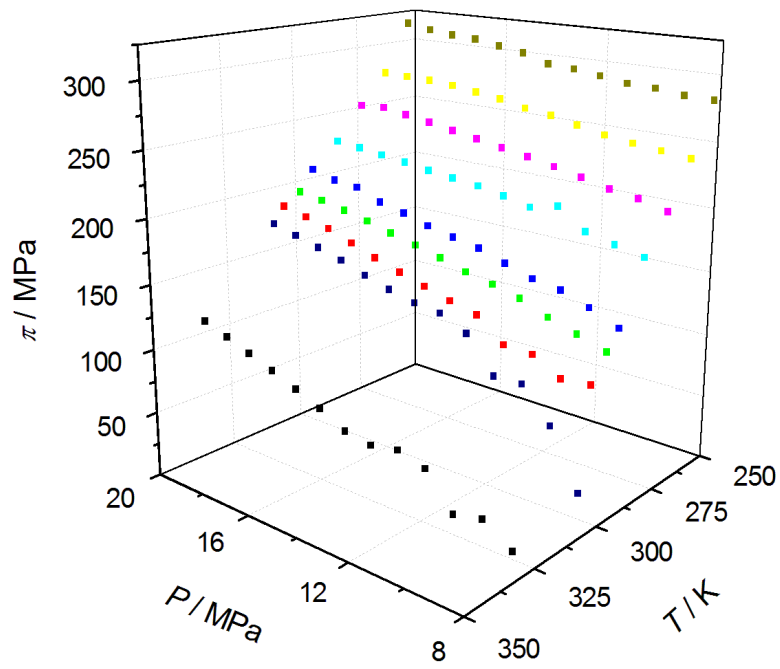
(S6.b)



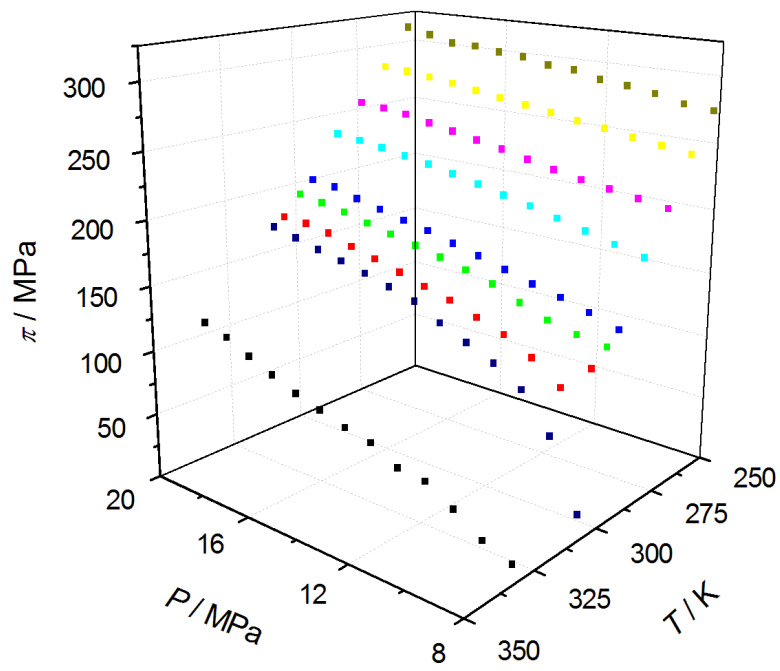
(S6.c)



(S6.d)



(S6.e)



(S6.f)

