Discussion of the Influence of CO and CH_4 in CO_2 Transport, Injection and Storage for CCS Technology

Sofía T. Blanco†, Clara Rivas†, Ramón Bravo‡, Javier Fernández†, Manuela Artal†, Inmaculada Velasco†*

†Departamento de Química Física, Facultad de Ciencias, Universidad de Zaragoza, 50009 Zaragoza, Spain.

‡Departamento de Física Aplicada, Facultad de Física, Universidad de Santiago de Compostela, 15782 Santiago de Compostela, Spain.

*E-mail: curra@unizar.es

ABSTRACT: This paper discusses the influence of the non-condensable impurities CO and CH_4 on Carbon Capture and Storage (CCS) technology. We calculated and drew conclusions about the impact of both impurities in the CO_2 on selected transport, injection, and storage parameters (pipeline pressure drop, storage capacity, etc.), whose analysis is necessary for the safe construction and operation of CO_2 pipelines and for the secure long-term geological storage of anthropogenic CO_2. To calculate these parameters, it is necessary to acquire data on the volumetric properties and the vapor-liquid equilibrium of the fluid being subjected to CCS. In addition to literature data, we used new experimental data, which are presented here and were obtained for five mixtures of CO_2+CO with compositions characteristic of the typical emissions of the EU and the USA. Temperatures and pressures are based on relevant CO_2 pipeline and geological storage site values. From our experimental results, Peng- Robinson, PC-SAFT and GERG Equations of State for CO_2+CO were validated under the conditions of CCS. We conclude that the concentration of both impurities

strongly affects the studied parameters, with CO being the most influential and problematic. The overall result of these negative effects is an increase in the difficulties, risks and overall costs of CCS.

1. INTRODUCTION

Carbon Capture and Storage (CCS) technology is one of the most effective climate change mitigation strategies in the medium term. In 2013, the Global CCS Institute identified 65 large-scale CCS projects in various stages of development, of which only 19 will be operational by 2016.[1] The capture and storage capacity of these 19 projects is approximately 38.5 megatons per year, while the storage forecasts are more than 7 gigatons per year in 2050.[2]

The goal of CCS is to avoid the release to the atmosphere of anthropogenic CO_2 generated by industrial and energy-related sources. CO_2 is captured in individual producer facilities and subsequently conditioned, transported and injected into an underground geological storage field.[3-5] CO_2 capture can be accomplished by different techniques: post-combustion, pre-combustion and oxy-combustion. Conditioning can be carried out by dehydration, separation of non-condensable gases and/or liquefaction, and compression/pumping. Transport is usually performed by pipeline, and the anthropogenic CO_2 is finally injected and stored in depleted oil and gas fields, deep saline formations or deep unmineable coal seams.

The source of the CO_2 as well as the capture and conditioning processes used will determine the composition of the transported and stored CO_2. High purification is technically possible but not economically viable.[4] In addition, recent literature focuses on the potential benefits and limitations of the combined capture (co-capture) and storage of multiple gases (CO_2 and at least one other gas).[6-9] The presence of impurities in the fluid and the wide ranges of temperature, T, and pressure, P, involved in CCS cause the physicochemical properties of the current anthropogenic CO_2 to vary significantly according to its origin and to change significantly throughout the process.[10-12]

CO_2QUEST[13] and Impacts[14] are two research projects of the 7th Framework Programme of the European Commission, among others, that are currently devoted to evaluating the impact of CO_2 quality on its transport and storage behavior. However, there is a shortage of experimental data on the mixtures of interest specific to this technology.[15,16]

This work is part of a study we are carrying out[17-20] on CO_2 systems containing non-condensable or condensable impurities, with the ultimate goal of validating equations of state, EoS, and obtaining interaction parameters, if necessary, from synthetic multicomponent mixtures with compositions representative of actual anthropogenic CO_2. The first objective of this work was to quantify fundamental properties, such as volumetric and phase behavior, of mixtures of CO_2 with a non-condensable impurity, CO, using our experimental installations. CO is a highly toxic impurity whose presence is especially important in pre-combustion capture processes.[11] We present new and accurate pressure-density-temperature-composition, $P\rho T x_{CO_2}$, and vapor-liquid equilibrium, VLE, experimental data for five mixtures of CO_2+CO whose compositions, temperatures and pressures are within the range of interest applicable to CCS conditions.[12,15,21-28]

There are experimental studies in the literature on the volumetric properties[20,29,30] and the vapor-liquid equilibrium[31] of CO_2+CO, but none cover the range of interest for CCS technology to the extent of this work. Due to the scarce experimental data on this and other impurities, most of the studies performed simulations to predict both the thermodynamic behavior and the values of the parameters associated with transport, injection and storage.[11,12,32-34]

Using experimental data from this work for the CO_2+CO system, and from literature for pure CO_2,[18] CO_2+CH_4,[19,20] and CO_2+CO,[20] we have quantified and compared the effect of the presence of CO and CH_4 (another non-condensable impurity), evaluating several selected transport, injection and storage parameters.[12,25,32] The analysis of these parameters is necessary for the safe and reliable design, construction and operation of CO_2 pipelines and injection equipment, as well as the secure long-term geological storage of CO_2.

In addition, we validate with our experimental data three equations of state: Peng-Robinson (PR) EoS, widely used in industry;[35] GERG EoS, developed for natural gas;[36] and PC-SAFT EoS, one of the most used in this technology for the calculation of thermodynamic properties.[37,38] Given that there remains no one

single equation whose characteristics are ideally suited for this technology, it is essential to have experimental data to draw realistic conclusions and to aid in the rational selection of the optimal equation.[11,15,39,40]

Because some impurities of anthropogenic CO_2 are toxic and CO_2 itself is directly toxic in air when inhaled at concentrations above approximately 5%, the safe operation of CO_2 pipelines is of paramount importance.[41] Due to the relatively high Joule-Thomson expansion coefficient of CO_2 and its triple point coordinates, the rapid expansion of an accidental release may lead to solids formation following a pipeline rupture or puncture. In this regard, several publications devoted to the prediction of phase equilibria involving solids, either validating existing EoS or proposing new ones, are found in the literature.[42-46]

In summary, this work provides new experimental volumetric and VLE data of the system CO_2+CO at compositions, pressures and temperatures of interest for CCS technology. Using these data, we validate several equations of state under CCS conditions.[35-38] From this work and literature experimental data,[18-20] we calculate and draw conclusions about the impact of both CO and CH_4 impurities in the CO_2 on selected engineering parameters related to the transport, injection and geological storage of the CO_2.[12,25,32]

2. EXPERIMENTAL SECTION

Materials. Carbon dioxide (wt % > 99.998) and carbon monoxide (wt % > 99.997) were obtained from Air Liquide and used without further purification.

The CO_2+CO mixtures with a CO_2 mole fraction, x_{CO_2}, from 0.9700 to 0.9960 were prepared by successive introduction of the components (in order of increasing volatility) into a variable-volume cell, which was weighed on a mass comparator with a precision of 0.0002 g.

Apparatus and Procedures. The experimental setup used in this work for the determination of $P\rho T$ data of CO_2+CO mixtures is the same as that described in a previous study.[18] Its main component is a vibrating tube densimeter Anton Paar HPM, which is connected to a MPDS 2000V3 evaluation unit. The use of two thermostatic baths at two different temperatures ($\Delta T \cong 0.3°$), one for the densimeter and the other one for the

rest of the installation, assures that the first drop of liquid (at dew pressure, P_{dew}) or the first vapor bubble (at bubble pressure, P_{bubble}) is formed inside the vibrating tube. Moreover, the quasi continuous acquisition of $P\rho T$ data (6000 points/isotherm evenly reduced to approximately 1000 points/isotherm for easier handling) allows the determination of the limits of VLE and the calculation of derivative properties, both with adequate accuracy. The temperature and pressure ranges are 253 to 423 K ± 0.006 K and from atmospheric pressure to 70 MPa, respectively, with a precision of 0.025% FS.

The uncertainty propagation law was used[47] to evaluate the precision in the density of our mixtures; the expanded (k=2) uncertainty obtained is $U(\rho) = 0.35$ - 0.80 kg.m^{-3}. On the other hand, the repeatability of the density measurements for mixtures, expressed as the relative mean standard deviation, is $\bar{S}_{\rho}^{r} = 0.13$ %.[18]

3. RESULTS AND DISCUSSION

$P\rho T x_{\mathrm{CO_2}}$ measurements for CO_2+CO mixtures ($x_{\mathrm{CO_2}}$= 0.9700, 0.9810, 0.9902, 0.9930 and 0.9960) at $T =$ 253.15, 263.15, 273.15, 283.15, 293.15, 323.15, 333.15 and 343.15 K were carried out in the pressure range from 0.1 to 20 MPa. The CO mole fractions of this work include the compositions of the typical emissions in the EU and the USA, whose values range approximately from 0.007 to 0.030 and from 0.011 to 0.016, respectively.[26,28] The experiments were performed at T and P relevant to those in CO_2 pipelines and in geologic storage sites (geothermic gradient = 25 K/km; hydrostatic pressure gradient = 10 MPa/km).[15,21,22]

In the Supporting Information, Table S1 contains a total of 40,000 $P\rho T x_{\mathrm{CO_2}}$ points. Figure 1 shows the experimental densities for the CO_2+CO mixture with $x_{\mathrm{CO_2}}$= 0.9700; analogous representations for the rest of the mixtures are included in the Supporting Information, Figure S1. In these figures, the density of the mixtures at supercritical temperatures is a continuous line whose slope diminishes as T increases, the maximum slope is at the critical conditions of the mixture. This is consistent with the fact that the isothermal compressibility of the mixtures is maximum at the critical point and diminishes as T increases away from the critical value. The mixtures studied in this work have critical temperatures between 302.6 and 303.9 K.[20] The subcritical isotherms show a discontinuity in the VLE region, which is limited by P_{dew} and P_{bubble}

(Figure 2); these values and those for the densities of the liquid and vapor phases in equilibrium, ρ_L and ρ_V, respectively, (Figure S2) are shown in Table S2 in the Supporting Information.

We have found studies in the literature on VLE[31] and the volumetric[20,29,30] behavior of CO_2+CO. The values taken from the VLE graphical representations of Kaminishi and Toriumi do not agree with our experimental values or with the values predicted by the EoS used in this work. Our volumetric experimental data are consistent with those from literature but cannot be directly compared because either the compositions[29, 30] or the temperatures[20] do not match.

The composition of the anthropogenic CO_2 and the temperature and pressure during its transport and storage will vary based on multiple factors: different regulations regarding quality requirements of the fluid, different emission sources and capture and conditioning processes, emission plants operating under variable external demands, operational depressurizations, and off-shore versus on-shore transport. Given the variability of the conditions involved in CCS technology, it becomes necessary to use a predictive tool, such as an EoS, to calculate the values of essential properties, such as density and phase equilibria, for the optimal design and operation of the facilities involved in CCS. However, none of the current EoS presents marked advantages over the others.[11,15,39,40] In this regard we have compared, in terms of relative mean deviation, MRD_X, our experimental data for density and VLE with those calculated using three different types of equations of state: PR EoS,[35] GERG EoS,[36] and PC-SAFT EoS.[37,38]

The parameters used for the pure components in PR and PC-SAFT EoS, as well as the binary interaction parameter, k_{ij}, included in the mixing rule of a van der Waals fluid are shown in Table S3. The MRD_X values are tabulated in the Supporting Information (Tables S4 and S5). The MRD_ρ values obtained for CO_2+CO mixtures with x_{CO_2}= 0.9810 and x_{CO_2}= 0.9930 at 253.15 K (subcritical *T*) and 343.15 K (supercritical *T*) are represented in Figure S3. From the results obtained, it can be concluded that (i) the PR EoS provides a reasonable prediction of the volumetric behavior and a good representation of VLE despite its simplicity ($MRD_\rho = 2.87\%$, $MRD_{P_{bubble}} = 1.89\%$, $MRD_{P_{dew}} = 0.47\%$); (ii) the GERG EoS is the

equation that best represents our experimental density and VLE data ($MRD_\rho = 0.73\%$, $MRD_{P_{\text{bubble}}} = 1.30\%$, $MRD_{P_{\text{dew}}} = 0.38\%$), although it requires substantial computation time[39] and its extension to mixtures containing compounds not included in its database is complex; and (iii) the PC-SAFT EoS adequately predicts $P\rho T$ and VLE ($MRD_\rho = 1.19\%$, $MRD_{P_{\text{bubble}}} = 1.58\%, MRD_{P_{\text{dew}}} = 1.45\%$) and can easily be extended to multicomponent mixtures.

Influence of impurities on transport. The presence of impurities in the anthropogenic CO_2 greatly affects both the phase and the volumetric behaviors of the fluid, thereby modifying the parameters utilized in the design and operation of transport by pipeline. Some of these parameters will be discussed in this section: the minimum operational pressure, P_{min}; the pressure profile along the pipeline, $P(d)$, where d is the distance; the maximum repressurization distance (maximum separation distance between boosters), L; the booster stations power, W; and the inner diameter of the pipeline, D. These, and other required parameters (Reynolds number, friction factor and pressure drop per meter), were calculated using the recommended equations[25, 32] shown in Table S6 (Supporting Information). When fixed values were assumed for certain parameters in the calculations of others, it is indicated in the text and in the figure captions. The results for CO_2+CO were compared with those calculated for CO_2+CH_4 mixtures and for pure CO_2 under the same conditions. We used the phase equilibria and volumetric experimental data obtained from this work and from the literature.[18-20] Viscosity values were calculated using REFPROP 9.0.[48]

Minimum operational pressure, P_{min}. Though the transport by pipeline of anthropogenic CO_2 in gaseous phase has been considered in several studies[49,50] and may be cost-effective for low mass flow rates and short distances,[50] it is most commonly transported in a supercritical or dense phase. In any case, it is important to avoid phase changes and two-phase flow during pipeline operation.

Transporting in a dense phase is achieved by setting P_{min} to always be higher than P_{bubble} of the transported fluid. The impurities accompanying the anthropogenic CO_2 significantly influence the characteristics and location of the two-phase region. Thus, for pure CO_2 transported at 283.15 K, the vapor

phase appears at the saturation pressure P_{sat}= 4.50 MPa (Table S2). However, if the fluid contains 3% by mole CH_4, the vapor will appear at P_{bubble} = 5.85 MPa, and it will coexist with the liquid until P_{dew}= 4.69 MPa, below which there will be a single-phase gas.[19] If the impurity is 3% by mole CO, the two-phase flow would take place from 6.57 to 4.72 MPa (P_{bubble} and P_{dew}, respectively) (Table S2, Figures 2 and S2).

Another issue to be considered when anthropogenic CO_2 is transported in the dense phase is the possible proximity of the operational conditions to the critical point of the fluid. Under these conditions, density values change significantly with small changes in *P*, *T* or x_{CO_2} (e.g., compressibility will be very high,$(\kappa_T)_{T_c,P_c} \to \infty$), which influences the transport parameters.

For the anthropogenic CO_2 transport pressure in a supercritical or dense phase, the literature provides ranges of 7.5-11 MPa for P_{min} and 9-30 MPa for the maximum pressure, P_{max}; minimum values assure dense or supercritical conditions for the fluid, and maximum values depend more on economic factors than technical ones.[51] Temperatures range from a lower limit, usually above -2ºC (271 K), set by winter surrounding temperatures, and an upper limit, 30-44ºC (303-317 K), determined by the compressor station discharge temperature and the external pipeline coating material. Both onshore and offshore references have been considered.[7,11,15,16,22,25,51-60]

Some previous studies propose, instead of pressure ranges, a reference value of 800 kg/m^3 as the minimum density of the fluid during the transport.[25,32] Table S7 presents the minimum operational pressure needed to assure this density value, P_{min}^{800}, if the transported fluid is pure CO_2 or for CO_2+CO mixtures with compositions x_{CO_2} = 0.9902 and $x_{CO_2} = 0.9700$. Again, the impurities are very important; considering the fluid to be pure CO_2 can introduce an error of up to 62% in P_{min}^{800} if the anthropogenic CO_2 is actually a mixture with 3 % by mole CO. The same amount of CH_4 would lead to an error of up to 27%.[19]

We calculated the remaining mentioned parameters for the transport of pure CO_2, CO_2+CO and CO_2+CH_4 systems, both with $x_{CO_2} \cong$ 0.99 and $x_{CO_2} \cong$ 0.97, between P_{max} = 20.0 MPa and P_{min} = 9.0 MPa (the average maximum and minimum literature values) and temperatures from 273.15 K to 308.15 K. In addition, we

calculated L and W required to maintain the density of the fluid above 800 kg/m^3 during transport. In this case, the transport is considered to be between P_{max} = 20.0 MPa and the corresponding P_{min}^{800} at each composition and transport temperature. The pressure profile, L and W, were all calculated for a mass flow, m, of 317 kg/s (10 Mt/year) in a D = 0.508 m (20 inch) pipeline with a roughness height, e, of 4.6×10^{-5} m (0.00015 ft.).[32,56]

Pressure profile along the pipeline, P(d). Figure S4 (Supporting Information) shows the influence of impurities on the pressure drop along a pipeline for these systems at various transport temperatures, T_{tr}, and a pipeline inlet pressure (P_{max}) of 20.0 MPa. The pressure drop increases with increasing temperature and (non-condensable) impurity concentration, due to the decrease in the density and the viscosity of the mixture (see Tables S1 and S6), and the presence of CO or CH_4 has a very similar influence on it. For example: in scenario of Figure S4, and for a distance, d, of 250 km, for pure CO_2 pressure drops from 20 MPa down to 12.7 MPa at 273.15 K, and to 11.2 MPa at 308.15 K; if the fluid is a mixture with $x_{CO_2}\cong0.97$, pressure drops down to 12.5 MPa at 273.15 K and to 10.6 MPa at 308.15 K.

Pressure drop, itself related to the diameter of the pipeline, the inlet pressure and the properties of the transported fluid, determines the placement and number of pumping (booster) stations, if needed. However, most techno-economic models do not take into account pumping stations, or they include them with a simplified approach, resulting in a large uncertainty in their costs and placement.[50,61] To choose the most cost-effective option, the tradeoffs between diameter, inlet pressure and pumping stations must be considered.

Maximum repressurization distance, L, and booster stations power, W. Figure 3 shows the maximum repressurization distance, L, versus the transport temperature, T_{tr}, for the fluid transported by pipeline. Two sets of lines are represented: set A shows L required to maintain the density of the fluid above 800 kg/m^3, and set B shows L required to maintain the pressure above 9.0 MPa. In both sets, L decreases as both T_{tr} and CO or CH_4 concentrations increase due to the increase in the pressure drop which in turn is due to the

decrease in the density and the viscosity (Figure S4). In set A, L varies approximately 470 km between the represented ranges of composition, pressure and temperature. Moreover, at low T_{tr}, both the type of impurity (CO or CH_4) and its concentration affect L strongly, whereas at high T_{tr}, only the concentration has an influence (CO_2+CO and CO_2+CH_4 systems exhibit a similar behavior). In set B, the variation of T_{tr} and CO or CH_4 concentration has a less pronounced effect on L (approximately 85 km).

Figure S5 shows an estimation of the booster power required to repressurize the fluid up to a booster outlet pressure $P_{out} = P_{max} = 20.0$ MPa, W_{20}, versus the transport temperature, T_{tr}. It was assumed that the fluid enters the booster at the inlet temperature, $T_{in} = T_{tr}$, and leaves it at the outlet temperature $T_{out} = 38$ºC (311 K).[11,25,51,54,60] The average in-out values for each fluid density were used. Set A presents W_{20} required when the booster inlet pressure, P_{in}, is P_{min}^{800} at T_{in}; set B presents W_{20} when $P_{in} = P_{min}$ is 9.0 MPa. In set A, the variation of W_{20} with both T_{tr} and composition is similar to that found for L in the same set in Figure 3, and W_{20} varies within the represented range of composition, T and P by approximately 6.9 MW. In set B, the variation is the opposite: the higher the temperature or the impurity concentration, the higher W_{20} becomes, with $\Delta W_{20} \cong 1.8$ MW.

Thus, at 283.15 K, a typical T_{tr}, one must repressurize at a maximum distance of ≅ 420-497 km (depending on the composition of the fluid) to keep the density above 800 kg/m^3, and the required booster power ranges from approximately 7.0 to 7.9 MW. However, to keep the pressure above 9.0 MPa, the repressurization distance varies from ≅ 346 to 359 km, and the booster power varies between ≅ 5.3 and 5.5 MW (Figures 3, S5, S6, and S7). The best operational options for a given network can be calculated. For instance, for a 400 km pipeline, no booster stations would be necessary to maintain the density above 800 kg/m^3; however, one booster would be required to maintain the pressure above 9.0 MPa.

Pipeline inner diameter, D. Figure S8 (Supporting Information) shows the inner diameter of a pipeline, D, versus its capacity (mass flow, m) for the studied systems at several values for T and P under the transport conditions. The represented range of capacity was chosen to be approximately 317 kg/s (10.0 Mt/year).

Diameters were iteratively calculated for each mass flow assuming an average pressure drop per meter of 33 Pa/m and a roughness height of the pipeline of 4.6×10^{-5} m.[32] The transported mass flow for a given diameter decreases as *P* decreases and as *T* increases or as impurity concentration rises. For identical mole fractions at low temperature and high pressure, the behaviors of the mixtures containing either CO or CH_4 are very similar. However, greater differences appear at high temperature, high concentration of impurities and at low pressure. Within the represented capacities, the largest difference between the pipeline diameter calculated for pure CO_2 and those for the studied mixtures is 27 mm (corresponding to CO_2+CO system with x_{CO_2} = 0.9700 at *T* = 308.15 K and *P* = 9.0 MPa, Figure S8e). The increase of 27 mm in the inner diameter means an increase of approximately 11 tons (approximately 5% of the total weight) of steel per km of pipeline (standard carbon steel pipeline, API 5L X70, inner diameter 536 mm, wall thickness 16.5 mm,[62] mass flow 317 kg/s).

Influence of impurities on storage and injection. In CO_2 storage, impurities have different effects depending on the type of reservoir and the interaction between the injected anthropogenic CO_2 and the substances present beforehand. The effects of CO on several parameters related to the storage and injection steps and the comparison with those of CH_4 are discussed below.

Solubility parameter, δ. Given the values of temperature and pressure inside the reservoirs, the fluid is in a supercritical state and therefore has one of the characteristic properties of this state, which is a large solvent capacity. The solubility parameter (Equation 1)[63] has been extensively used to predict in a semi-quantitative manner the behavior of liquid mixtures[64-67] and slightly polar supercritical fluids.[18,68] We utilized δ to study the interactions between the injected fluid (considered as the solvent) and other substances in the reservoir.

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

where (-E/V) is the so called "cohesive energy density". In this work, we used the internal pressure, π, to estimate the solubility parameter, thus applying the approach made by Hansen[64] and neglecting the small dipole moment of CO (0.12 D):[69]

$$\delta = \pi^{1/2} \tag{2}$$

$$\pi = \left(\frac{\partial U}{\partial V}\right)_T = T\left(\frac{\partial P}{\partial T}\right)_V - P = T\,\frac{\alpha_P}{\kappa_T} - P \tag{3}$$

where α_P is the isobaric thermal expansivity and κ_T is the isothermal compressibility. We obtained values for α_P, κ_T and δ from the $P\rho T x_{CO_2}$ measurements (Table S8 in Supporting Information), with the following MRD_X values calculated in relation to values from the best EoS, the GERG EoS, to reproduce our experimental values:[36] $MRD_{\alpha_P} = 2.54\%$, $MRD_{\kappa_T} = 1.47\%$ and $MRD_\delta = 1.59\%$ (subcritical temperatures, 253.15 K $\leq T \leq$ 293.15 K) and $MRD_{\alpha_P} = 5.04\%$, $MRD_{\kappa_T} = 4.27\%$ and $MRD_\delta = 3.04\%$ (supercritical isotherms, 304.21 K $\leq T \leq$ 333.15 K).

Solubility parameters are represented in Figure S9 for pure CO_2 and CO_2+CO mixtures with x_{CO_2}= 0.9902 and x_{CO_2} = 0.9700 at 293.15 K, 308.15 K and 333.15 K. As seen, the presence of CO in the anthropogenic CO_2 causes δ to diminish compared to pure CO_2, reducing the solvent power of the fluid and consequently hindering fluid trapping. The same effect was already observed for the CO_2+CH_4 system.[19] On the other hand, for the studied conditions, the solubility parameter decreases as temperature increases and pressure decreases. Our values for the solubility parameter are consistent with those from the literature for CO_2+CO at 333.15 K,[30] but they are not directly comparable due to their different compositions.

Allada et al.[68] suggest that the solubility parameter is the key determinant of solubility in supercritical solvents, and they were able to unify diverse behaviors of solvents regardless of T, P and their nature. Moreover, different authors[18,30] note that density has the strongest influence on the solvent capacity of dense fluids. Figure 4 shows δ versus ρ for pure CO_2 and six CO_2+CO, CO_2+CH_4, CO_2+H_2 and CO_2+CO+H_2 mixtures from this work and other literature.[18-20,30] The graphic shows a good $\delta - \rho$ correlation within the

represented density range. This means that systems with different T and/or P, but with the same density, will have the same solubility parameter and, therefore, that the solubilization capacity of the injected CO_2 could be known from its density at storage conditions.

In the following, we compare the influence of two non-condensable impurities, CO or CH_4, on the storage capacity, M, the rising velocity of the plume inside deep saline aquifers, v, and the permeation flux during injection, $\dot{M}$. For this purpose, we use normalized parameters, X/X_0, where X is the value corresponding to the CO_2+CO or CO_2+CH_4 systems and X_0 corresponds to pure CO_2. The studied T and P ranges are 293.15 K – 343.15 K and 7 MPa – 20 MPa, respectively, and are within the temperature and pressure ranges of the operating reservoirs in different scenarios.[12,24] The equations used are:[12, 19]

$$\frac{M}{M_0} = \frac{\rho}{\rho_0\left[1 + \sum_i \left(\frac{m_i}{m_0}\right)\right]} \tag{4}$$

$$\frac{v}{v_0} = \frac{F/(\rho\eta)}{F_0/(\rho_0\eta_0)} = \frac{(\rho_{\mathrm{br}} - \rho)(\rho_0\eta_0)}{(\rho_{\mathrm{br}} - \rho_0)(\rho\eta)} \tag{5}$$

$$\frac{\dot{M}}{\dot{M}_0} = \frac{\rho\left(\frac{\eta_0}{\eta}\right)}{\rho_0\left[1 + \sum_i \left(\frac{m_i}{m_0}\right)\right]} \tag{6}$$

where m_i/m_0 is the ratio of the mass of impurity i to the mass of CO_2 in the mixture; (ρ, η, F) and (ρ_0, η_0, F_0) are the density, the viscosity and the buoyancy force of the mixture and the pure CO_2 stream, respectively; and ρ_{br} is the density of the brine.

Density values were taken from experimental $P\rho T x_{CO_2}$ data for pure CO_2,[18] CO_2+CO (this work and literature values[20]), and CO_2+CH_4.[19, 20] The values of 1,025 kg/m^3 and 1,250 kg/m^3, representative of dilute and highly concentrated brines,[70] were used for ρ_{br}. Viscosity data were calculated as previously described.[48]

Normalized storage capacity, M/M_0. This parameter is dependent on composition, T and P. Streams with high concentrations of non-condensable impurities reduce the storage capacity by a large amount if T and P

297 are near of the critical values of the mixture. For example, an impurity of 15% by mole CH_4 reduces M/M_0
298 to approximately 0.35 at 308.15 K and 8.5 MPa,[19] revealing that a relatively shallow site may not be
299 appropriate for storing high impurity streams. Figure 5 shows M/M_0 versus P at several T for the two
300 systems with $x_{CO_2} \cong$ 0.97, the highest impurity concentration in this work. The maximum decrease appears
301 near the critical point of anthropogenic CO_2 ($M/M_0 \cong$ 0.44 for CO_2+CO at 304.21 K and 7.5 MPa). An
302 increase in temperature shifts this maximum decrease to a higher pressure, and its magnitude decreases
303 ($M/M_0 \cong$ 0.89 at 343.15 K and 14.1 MPa). Likewise, as the depth of the geological formation increases, the
304 influence of the type of impurity on storage capacity decreases. It can be seen that CO affects the mass of
305 anthropogenic CO_2 that can be stored in a reservoir more negatively than CH_4 so that, for the same mass of
306 fluid, it would be necessary to confine the CO_2+CO system at higher pressure than CO_2+CH_4. Storage
307 efficiency can be improved if the injection pressure is well above the minimum values shown in these
308 representations. In the case of closed reservoirs, this value for pressure has to be within the allowable
309 overpressure range. For open formations, an option could be to increase the depth of storage, given that
310 overpressure may not be attainable.

311 *Normalized rising velocity, v/v_0.* If the reservoir is a saline aquifer, the stored fluid pushes up with a
312 buoyancy force, F, which is given by the difference between its density and that of brine (Equation 5). The
313 speed of the plume, v, is directly proportional to the buoyancy force and inversely proportional to its
314 viscosity. The presence of non-condensable impurities increases the rising velocity, although the values of
315 the normalized parameter depend on temperature and pressure. The v/v_0 relations, represented in Figure
316 S10 versus P at several T for the two systems with ρ_{br}= 1,025 kg/m^3, present maxima at $T \geq$ 304.21 K,
317 which are higher for the CO_2+CO mixtures than for CO_2+CH_4 (9.2 and 7.7 at 304.21 K, respectively). The
318 maxima for each temperature are found at pressures inside the depth range corresponding to a saline
319 aquifer.[24] The presence of CO or CH_4 leads to an increase in the rising velocity of the plume, which is
320 significant near the critical point of the fluid, resulting in the decrease of the CO_2–brine contact and

therefore the solvent effect. The lateral spreading of the plume also decreases, and as a consequence, the amount of trapped fluid in the rock's pores diminishes. These effects reduce the CO_2 storage security and become even more important near the cap rock, at a lower depth (low pressure range of the representation where the highest peaks are found), and the risk of leakage could increase. An increase in the density of the brine reduces F/F_0 and v/v_0 (Figures S10 and S11).

Normalized permeation flux, $\dot{M}/\dot{M}_0$. The relative injectivity of the impure CO_2 stream depends on the effect of impurities, *T* and *P* on both the density and the viscosity. $\dot{M}$ reduces as a result of the lower density of these mixtures in relation to CO_2; however, due to the compensation by increased viscosity, the reduction is smaller than that of the storage capacity discussed before. In the studied systems $\rho < \rho_0$ and $\eta < \eta_0$ and given the relative values of ρ/ρ_0 and η_0/η in Equation 6, the normalized permeation flux can be higher or lower than unity. Figure S12 shows that the largest differences from 1 appear in the vicinity of the critical point. At high pressures throughout the studied *T* range, the effect of temperature diminishes, and $\dot{M}/\dot{M}_0$ tends to values approaching unity. It can be seen that the influence of CO is greater than that of CH_4 on this parameter. Another effect of non-condensable impurities, such as CO or CH_4, on the injection step is the need to increase the headhole pressure as a consequence of the lower hydrostatic pressure of the injection well.[71]

From the obtained results for the three normalized storage and injection parameters, we verified the following trends with composition, *T* and *P*: i) a high impurity composition modifies these parameters by a large amount; ii) for the same composition, the highest deviations from pure CO_2 appear near the critical point of the mixture; iii) as pressure increases, the influence of temperature becomes less important; iv) as the pressure and temperature increase, the influence of the presence of impurities is attenuated; v) the parameter most affected by impurities is the rising velocity over the entire studied ranges of *T* and *P*; and vi) CO has a greater effect than CH_4 on all the studied normalized parameters and becomes the most problematic of the two impurities.

345 In summary, the presence of the studied impurities, CO and CH_4, leads to (i) a decrease in the interactions
346 that enable CO_2 to become trapped inside the storage area; (ii) the need for greater storage capacity
347 reservoirs and/or a larger number of sites to confine the same mass of fluid; (iii) an increased risk of leakage
348 in saline aquifers; (iv) the need to increase the injection pressure; and (v) a need to increase the number of
349 monitoring units to ensure a safe process. All these effects result in an increase in the overall cost of the
350 process. Similar observations have been found in literature for other non-condensable impurities.[12]

351 ACKNOWLEDGMENTS

352 The authors gratefully acknowledge financial support received from the Ministerio de Ciencia e
353 Innovación (CTQ2008-02037), Ministerio de Economía y Competitividad (CTQ2011-24875), Convenio La
354 Caixa - Gobierno de Aragón and Universidad de Zaragoza (UZ2012-CIE-13).

355 ASSOCIATED CONTENT

356 **Supporting Information**

357 Additional tables and figures regarding experimental data, derivative properties, EoS modeling and
358 transport and storage parameters are presented. This material is available free of charge via the Internet at
359 http://pubs.acs.org.

360 REFERENCES

361 (1) *The global status of CCS: 2013*; Global CCS Institute: Melbourne, Australia, 2013;
362 http://www.globalccsinstitute.com/publications/global-status-ccs-2013.

363 (2) *The global status of CCS: 2012*; Global CCS Institute: Canberra, Australia, 2012;
364 http://www.globalccsinstitute.com/publications/global-status-ccs-2012.

(3) *Geological Storage of Carbon Dioxide: Staying Safely Underground*; International Energy Agency, Greenhouse Gas R&D Programme, January 2008; http://www.co2crc.com.au/dls/external/geostoragesafe-IEA.pdf.

(4) Olajire, A. A. CO_2 capture and separation technologies for end-of-pipe applications – A review. *Energy* **2010**, *35* (6), 2610-2628; DOI 10.1016/j.energy.2010.02.030.

(5) Boot-Handford, M. E.; Abanades, J. C.; Anthony, E. J.; Blunt, M. J.; Brandani, S.; Mac Dowell, N.; Fernandez, J. R.; Ferrari, M. –C.; Gross, R.; Hallett, J. P.; Haszeldine, R. S.; Heptonstall, P.; Lyngfelt, A.; Makuch, Z.; Mangano, E.; Porter, R. T. J.; Pourkashanian, M.; Rochelle, G. T.; Shah, N.; Yao, J. G.; Fennell, P. S. Carbon capture and storage update. *Energy Environ. Sci.* **2014**, *7*, 130-189; DOI 10.1039/c3ee42350f.

(6) Xu, T.; Apps J. A.; Pruess, K.; Yamamoto, H. Numerical modeling of injection and mineral trapping of CO_2 with H_2S and SO_2 in a sandstone formation. *Chemical Geology* **2007**, *242*, 319-346; DOI 10.1016/j.chemgeo.2007.03.022.

(7) *Capture and storage of CO_2 with other air pollutants*; International Energy Agency, Clean Coal Centre, January 2010; http://www.uscsc.org/Files/Admin/Educational_Papers/IEA_Co-Sequestration_Paper.pdf.

(8) Misiak, K.; Sanchez Sanchez, C.; van Os, P.; Goetheer, E. Next generation post-combustion capture: Combined CO_2 and SO_2 removal. *Energy Procedia* **2013**, *37*, 1150-1159; DOI 10.1016/j.egypro.2013.05.212.

(9) Corvisier, J.; Bonvalot, A.-F.; Lagneau, V.; Chiquet, S. R.; Sterpenich, J.; Pironon, J. Impact of co-injected gases on CO_2 storage sites: geochemical modeling of experimental results. *Energy Procedia* **2013**, *37*, 3699-3710; DOI 10.1016/j.egypro.2013.06.264.

(10) Li. H.; Yan, J. Impacts of impurities in CO_2-fluids on CO_2 transport process. *Proceedings of GT200, ASME Turbo Expo 2006*, Barcelona, Spain, May 8-11, 2006; GT2006-90954.

(11) Seevam, P. N.; Race, J. M.; Downie, J. M.; Hopkins, P. Transporting the next generation of CO_2 for carbon, capture and storage: the impact of impurities on supercritical CO_2 pipelines. *Proceedings of IPC2008, 7th International Pipeline Conference*, Calgary, Alberta, Canada, September 29-October 3, 2008; IPC2008-64063.

(12) *Effects of impurities on geological storage of CO_2*; IEAGHG, Report: 2011/04, June 2011. http://cdn.globalccsinstitute.com/sites/default/files/publications/16876/effects-impurities-geological-storage-co2.pdf.

(13) *CO_2QUEST* Website; http://www.co2quest.eu/.

(14) *IMPACTS* Website; http://www.sintef.no/Projectweb/IMPACTS/

(15) Li, H.; Jakobsen, J. P.; Wilhelmsen, Ø.; Yan, J. PVTxy properties of CO_2 mixtures relevant for CO_2 capture, transport and storage: Review of available experimental data and theoretical models. *Appl. Energ.* **2011**, *88* (11), 3567-3579; DOI 10.1016/j.apenergy.2011.03.052.

(16) Løvseth, S. W.; Skaugen, G.; Stang, H. G. J.; Jakobsen, J. P.; Wilhelmsen, Ø.; Span, R.; Wegge, R. CO_2Mix Project: Experimental determination of thermo-physical properties of CO_2-rich mixtures. *Energy Procedia* **2013**, *37*, 2888-2896; DOI 10.1016/j.egypro.2013.06.174.

(17) Gil, L.; Otín, S. F.; Muñoz Embid, J.; Gallardo, M. A.; Blanco, S.; Artal, M.; Velasco, I. Experimental setup to measure critical properties of pure and binary mixtures and their densities at different pressures and temperatures. Determination of the precision and uncertainty in the results. *J. Sup. Fluids* **2008**, *44*, 123-138; DOI 10.1016/j.supflu.2007.11.003.

(18) Velasco, I.; Rivas, C.; Martínez-López, J. F.; Blanco, S. T.; Otín, S.; Artal, M. Accurate values of some thermodynamic properties for carbon dioxide, ethane, propane, and some binary mixtures. *J. Phys. Chem. B.* **2011**, *115* (25), 8216-8230; DOI 10.1021/jp202317n.

(19) Blanco, S. T.; Rivas, C.; Fernández, J.; Artal, M.; Velasco, I. Influence of methane in CO_2 transport and storage for CCS technology. *Environ. Sci. Technol.* **2012**, *46*, 13016–13023; DOI 10.1021/es3037737.

(20) Rivas, C.; Blanco, S. T.; Fernández, J.; Artal, M.; Velasco, I. Influence of methane and carbon monoxide in the volumetric behaviour of the anthropogenic CO_2: Experimental data and modelling in the critical region. *Int. J. Greenh. Gas Con.* **2013**, *18*, 264-276; DOI 10.1016/j.ijggc.2013.07.019.

(21) Bachu, S. Screening and ranking of sedimentary basins for sequestration of CO_2 in geological media in response to climate change. *Environ. Geol.* **2003**, *44* (3), 277-289; DOI 10.1007/s00254-003-0762-9.

(22) *Reference cases and guidelines for technology concepts*; ENCAP-WP1.1, Deliverable D1.1.1 & D1.1.2; Vattenfall A/S Report No.: 55431, Issue No. 4, February 2008; http://refman.et-model.com/publications/433

(23) *State-of-the-Art Overview of CO_2 Pipeline Transport with relevance to offshore pipelines*; POLYTEC, Report number POL-O-2007-138-A, 8 January 2008; https://www.researchgate.net/publication/228688545_State-of-the-Art_overview_of_CO2_pipeline_transport_with_relevance_to_offshore_pipelines

(24) Michael, K.; Golab, A.; Shulakova, V.; Ennis-King, J.; Allison, G.; Sharma, S.; Aiken, T. Geological storage of CO_2 in saline aquifers – A review of the experience from existing storage operations. *Int. J. Greenh. Gas Con.* **2010**, *4*, 659-667; DOI 10.1016/j.ijggc.2009.12.011.

(25) *CO_2 pipeline infrastructure: An analysis of global challenges and opportunities*; ElementEnergy for International Energy Agency, Greenhouse Gas Programme Final Report, April 2010; http://www.ccsassociation.org.uk/docs/2010/IEA%20Pipeline%20final%20report%20270410.pdf.

(26) *Annual European Union greenhouse gas inventory 1990–2011 and inventory report 2013*. Technical report No 8/2013. EEA (European Environment Agency), 2012; http://www.eea.europa.eu/publications/european-union-greenhouse-gas-inventory-2013.

(27) *CO_2 Pipeline Infrastructure*; IEAGHG, Report: 2013/18, December 2013; http://cdn.globalccsinstitute.com/sites/default/files/publications/16876/effects-impurities-geological-storage-co2.pdf.

(28) *Inventory of U.S. greenhouse gas emissions and sinks: 1990 – 2011*. EPA 430-R-13-001. U.S. Environmental Protection Agency, 2013; http://www.epa.gov/climatechange/ghgemissions/usinventoryreport/archive.html.

(29) Mallu, B. V.; Viswanath, D. S. Compression factors and second virial coefficients of hydrogen, methane and carbon dioxide mixtures $\{xCO_2 + (1 - x)H_2\}$,and $\{xCO_2 + (1 - x)CH_4\}$. *J. Chem. Thermodyn.* **1990**, *22*, 997-1006; DOI 10.1016/0021-9614(90)90189-W.

(30) Cipollina, A.; Anselmo, R.; Scialdone, O.; Filardo, G.; Galia, A. Experimental *P*-*T*-ρ Measurements of Supercritical Mixtures of Carbon Dioxide, Carbon Monoxide, and Hydrogen and Semiquantitative Estimation of Their Solvent Power Using the Solubility Parameter Concept. *J. Chem. Eng. Data* **2007**, *52*, 2291-2297; DOI 10.1021/je700307r.

(31) Kaminishi, G.; Toriumi, T. Vapor-liquid equilibria in the systems: CO_2-CO, CO_2-CO-H_2 and CO_2-CH_4. *Rev. Phys. Chem. Jpn.* **1968**, *38* (1), 79-84.

449 (32) Vandeginste, V.; Piessens, K. Pipeline design for a least-cost router application for CO_2 transport in
450 the CO_2 sequestration cycle. *Int. J. of Greenh. Gas Con.* **2008**, *2*, 571-58; DOI 10.1016/j.ijggc.2008.02.001.

451 (33) Munkenjord, S. T.; Bernstone, C.; Clausen, S.; de Koejir, G.; Mølnvik, J. Combining thermodynamic
452 and fluid modelling for CO_2 flow assurance. *Energy Procedia* **2013**, *37*, 2904-2913; DOI
453 10.1016/j.egypro.2013.06.176.

454 (34) Ziabakhsh-Ganji, Z.; Kooi, H. Sensitivity of Joule-Thomson cooling to impure CO2 injection in
455 depleted gas reservoirs. *Appl. Energ.* **2014**, *113*, 434-451; DOI 10.1016/j.apenergy.2013.07.059.

456 (35) Peng, D. Y.; Robinson, D. B. A new two-constant equation of state. *Ind. Eng. Chem. Fund.* **1976**, *15*,
457 59-64; DOI 10.1021/i160057a011.

458 (36) Kunz, O.; Klimeck, R.; Wagner, W.; Jaeschke, M. *GERG Technical Monograph*; Fortschr.-Ber.:
459 VDI, VDI-Verlag: Dusseldorf, Germany, 2006.

460 (37) Gross, J.; Sadowski, G. Perturbed-Chain SAFT: An Equation of State Based on a Perturbation
461 Theory for Chain Molecules. *Ind. Eng. Chem. Res.* **2001**, *40*, 1244-1260; DOI 10.1021/ie0003887.

462 (38) Gross, J.; Sadowski, G. Application of the Perturbed-Chain SAFT Equation of State to Associating
463 Systems. *Ind. Eng. Chem. Res.* **2002**, *41*, 5510-5515; DOI 10.1021/ie010954d.

464 (39) Wilhelmsen, Ø.; Skaugen, G.; Jørstad, O.; Li, H. Evaluation of SPUNG# and other Equations of State
465 for use in Carbon Capture and Storage modelling. *Energy Procedia* **2012**, *23*, 236-245; DOI
466 10.1016/j.egypro.2012.06.024.

467 (40) Diamantonis, N. I.; Boulougouris, G. C.; Tsangaris, D. M.; El Kadi, M.; Saadawi, H.; Economou, I.
468 G. Thermodynamic and transport property models for carbon capture and sequestration (CCS) processes
469 with emphasis on CO_2 transport. *Chem. Eng. Res. Des.* **2013**, *91*, 1793-1806; DOI
470 10.1016/j.cherd.2013.06.017.

(41) Wareing, C. J.; Woolley, R. M.; Fairweather, M.; Falle, S. A. G. E.; Cleaver, R. P. Large-Scale Validation of a Numerical Model of Accidental Releases from Buried CO_2 Pipelines. *Proceedings of the 23rd European Symposium on Computer Aided Process Engineering – ESCAPE 23*, Lappeenranta, Finland, June 9-12, 2013.

(42) Yokozeki A. Analytical Equation of State for Solid-Liquid-Vapor Phases. *Int. J. Thermophys.* **2003**, *24* (3), 589-620; DOI 10.1023/A:102401572909.

(43) Trusler, J. P. M. Equation of State for Solid Phase I of Carbon Dioxide Valid for Temperatures up to 800 K and Pressures up to 12 GPa. *J. Phys. Chem. Ref. Data* **2011**, *40*, 043105; DOI 10.1063/1.3664915.

(44) Trusler, J. P. M. Erratum: Equation of State for Solid Phase I of Carbon Dioxide Valid for Temperatures up to 800 K and Pressures up to 12 GPa [J. Phys. Chem. Ref. Data 40, 043105 (2011)]. *J. Phys. Chem. Ref. Data* **2012**, *41*, 039901. DOI 10.1063/1.4745598.

(45) Diamantonis, N.; Boulougouris, G.; Tsangaris, D. M.; Economou, I. Modelling Solid-Fluid Equilibria using the Yokozeki EoS. *CO_2QUEST Newsletter* **2013**, *Autumn*, 11-13.

(46) Jager, A.; Span, R. Equation of State for Solid Carbon Dioxide Based on the Gibbs Free Energy. *J. Chem. Eng. Data* **2012**, *57* (2), 590-597; DOI 10.1021/je2011677.

(47) *JCGM 100: 2008. Evaluation of measurement data – Guide to expression of uncertainty in measurement*; Joint Committee for Guides in Metrology, Serves Cedex, France, 2008; http://www.bipm.org/utils/common/documents/jcgm/JCGM_100_2008_E.pdf.

(48) Lemmon, E. W.; Huber, M. L.; McLinden, M. O. NIST Standard Reference Database 23: Reference Fluid Thermodynamic and Transport Properties-REFPROP, Version 9.0, National Institute of Standards and Technology, Standard Reference Data Program, Gaithersburg, 2010.

(49) West, J. M. Design and operation of a supercritical CO_2 pipeline-compression system, SACROC unit, Scurry County, Texas. *Society of Petroleum Engineers Permian Basin Oil and Gas Recovery Conference*, paper SPE 4804, 1974.

(50) Knoope, M. M. J.; Guijt, W.; Ramírez, A.; Faaij, A. P. C. Improved cost models for optimizing pipeline configuration for point-to-point pipelines and simple networks. *Int. J. Greenh. Gas Con.* **2014**, *22*, 25-46; DOI 10.1016/j.ijggc.2013.12.016.

(51) Farris, C. B. Usual Design Factors for Supercritical CO_2 Pipelines. *Energy Progress* **1983**, *3* (3), 150-158.

(52) McCollough, D. E. The Central Basin Pipeline: A CO_2 System in West Texas. *Energy Progress* **1986**, *6* (4), 230-234.

(53) Svensson, R.; Odenberger, M.; Johnsson, F.; Strömberg, L. Transportation infrastructure for CCS – Experiences and expected development. *Greenhouse Gas Control Technologies 7. Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, Volume II*, 2535-2539, Vancouver, Canada, September 5, 2004; DOI 10.1016/B978-008044704-9/50367-0.

(54) Mohitpour, M; Golshan, H.; Murray, A. *Pipeline Design & Construction: A Practical Approach*; Third Edition; The American Society of Mechanical Engineers: New York, 2007.

(55) Kaufmann, K.-D. Carbon dioxide transport in pipelines – Under special consideration of safety-related aspects. *Pipeline Technology Conference 2008*, Munich, Germany, 2008.

(56) *Technical and Economic Characteristics of a CO_2 Transmission Pipeline Infraestructure*. European Commission, JRC62502, 2011; DOI 10.2790/30861; http://publications.jrc.ec.europa.eu/repository/bitstream/111111111/16038/1/reqno_jrc62502_aspublished.pdf.

(57) Botnen H. A.; Omar, A. M.; Aavatsmark, G.; Alendal, G.; Johannessen, T. PVTx properties of two-phase CO_2 jet from ruptured pipeline. *Energy Procedia* **2013**, *37*, 3031-3038; DOI 10.1016/j.egypro.2013.06.189.

(58) Patchigolla, K.; Oakey, J. E. Design overview of high pressure dense phase CO_2 pipeline transport in flow mode. *Energy Procedia* **2013**, *37*, 3121-3130. DOI 10.1016/j.egypro.2013.06.198.

(59) Jung, J.-Y.; Huh C.; Kang S.-G.; Seo, Y.; Chang, D. CO_2 transport strategy and its cost estimation for the offshore CCS in Korea. *Appl. Energ.* **2013**, *111*, 1054-1060. DOI 10.1016/j.apenergy.2013.06.055.

(60) Witkowski A.; Rusin, A.; Majkut, M.; Rulik, S.; Stolecka K. Comprehensive analysis of pipeline transportation systems for CO_2 sequestration. Thermodynamics and safety problems. *Energy Convers. Manage.* **2013**, *76*, 665-673; DOI 10.1016/j.enconman.2013.07.087.

(61) Knoope, M. M. J; Ramírez, A.; Faaij, A. P. C. A state-of-the-art review of techno-economic models predicting the costs of CO_2 pipeline transport. *Int. J. Greenh. Gas Con.* **2013**, *16*, 241-270; DOI 10.1016/j.ijggc.2013.01.005.

(62) McCoy, S. T.; Rubin, E. S. An engineering-economic model of pipeline transport of CO_2 with application to carbon capture and storage. *Int. J. Greenh. Gas Con.* **2008**, *2*, 219-229; DOI 10.1016/S1750-5836(07)00119-3.

(63) Hildebrand, J. H.; Scott, R. L. *The Solubility of Nonelectrolytes*; Reinhold: New York, U.S.A., 1950.

(64) Hansen, C. M. The universality of the solubility parameter. *Ind. Eng. Chem. Prod. RD.* **1969**, *8* (1), 2-11; DOI 10.1021/i360029a002.

(65) Hansen, C. M. *Hansen Solubility Parameters – A User's Handbook*, CRC Press: Boca Raton, FL, U.S.A., 2000.

(66) Bagley, E. B.; Nelson, T. P.; Scigliano, J. M. Three-dimensional solubility parameters and their relationship to internal pressure measurements in polar and hydrogen bonding solvents. *J. Paint Technol.* **1971**, *43* (555), 35-42.

(67) Verdier, S.; Duong, D.; Andersen, S. I. Experimental determination of solubility parameters of oils as a function of pressure. *Energ. Fuels* **2005**, *19* (4), 1225-1229; DOI 10.1021/ef049827v.

(68) Allada, S. R. Solubility parameters of supercritical fluids. *Ind. Eng. Chem. Proc. DD.* **1984**, *23* (2), 344-348; DOI 10.1021/i200025a028.

(69) Williams, L. L.; Rubin, J. B.; Edwards, H. W. Calculation of Hansen Solubility Parameter Values for a Range of Pressure and Temperature Conditions, Including the Supercritical Fluid Region. *Ind. Eng. Chem. Res.* **2004**, *43*, 4967-4972; DOI 10.1021/ie0497543.

(70) Some Fundamentals of Mineralogy and Geochemistry. Deep-basins brines I: Density, TDS, and chloride; http://www.gly.uga.edu/railsback/Fundamentals/815BrinesDiagrams07IP.pdf.

(71) Sass, B. M.; Farzan, H.; Prabhakar, R.; Gerst, J.; Sminchak, J.; Bhargava, M.; Nestleroth, B.; Figueroa, J. Considerations for Treating Impurities in Oxy-Combustion Flue Gas Prior to Sequestration. *Energy Procedia* **2009**, *1*, 535-542; DOI 10.1016/j.egypro.2009.01.071.

(72) Laursen, T. VLXE ApS. Scion-DTU, Diplomvej, Denmark, 2012.

552 **Figure 1.** Experimental densities, ρ, for CO_2+CO mixtures with x_{CO_2}= 0.9700 at several temperatures and
553 pressures.

554 **Figure 2.** Vapor pressure of CO_2[48] and experimental phase envelopes for CO_2+CO mixtures with x_{CO_2}=
555 0.9700 (black), x_{CO_2}= 0.9810 (blue), x_{CO_2}= 0.9902 (red), x_{CO_2}= 0.9930 (green) and x_{CO_2}= 0.9960 (pink).

556 **Figure 3.** Maximum repressurization (pumping) distances, L, versus transport temperature, T_{tr}, for pure
557 CO_2, CO_2 + CO and CO_2 + CH_4 mixtures. Set A: L required to maintain the density of the fluid above 800
558 kg/m^3. Set B: L required to maintain the pressure above 9.0 MPa. Mass flow was taken to be m = 317 kg/s,
559 inner diameter of the pipeline D = 0.508 m, and roughness height e = 4.6×10^{-5} m. The pipeline inlet pressure
560 was set at 20.0 MPa.

561 **Figure 4.** Solubility parameter, δ, against density, ρ, for pure CO_2[18] (line); CO_2+CO mixtures with x_{CO_2}=
562 0.9700 (■), x_{CO_2}= 0.9902 (□) and x_{CO_2}= 0.9930 (★) at 273.15 K (blue), 304.21 K (red) and 323.15 K
563 (green); CO_2+CH_4 mixtures[19] with x_{CO_2}= 0.8525 (✳), x_{CO_2}= 0.9719 (⊕) and x_{CO_2}=0.9932 (⊞) at 273.15 K
564 (cyan) and 304.21 K (black); CO_2+CO (▲), CO_2+H_2 (●) and CO_2+CO+H_2 (★) mixtures[30] (yellow).

565 **Figure 5.** Normalized storage capacity, M/M_0, versus pressure at several temperatures for (a) CO_2+CO
566 (x_{CO_2}= 0.9700) and (b) CO_2+CH_4[19] (x_{CO_2}= 0.9719) mixtures.

567

Figure 1.

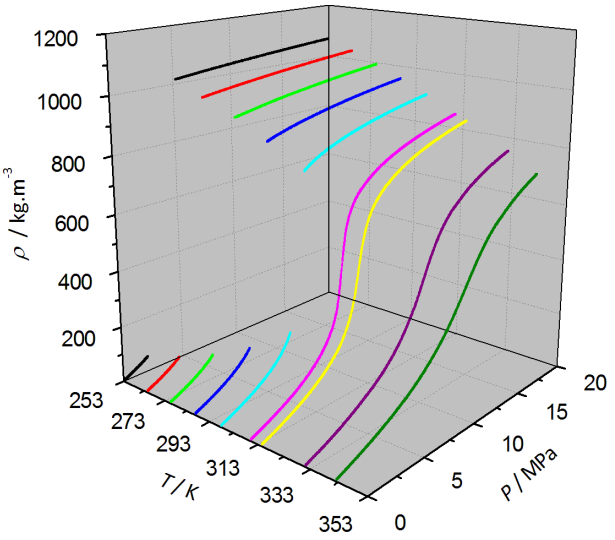

1200
1000
800
600
400
200
ρ / kg.m-3
253
273
293
313
333
353
T / K
0
5
10
15
20
P / MPa

Figure 2.

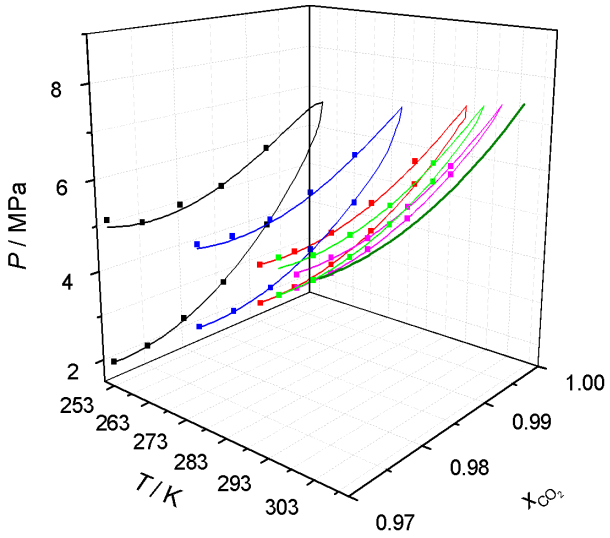


Figure 3.

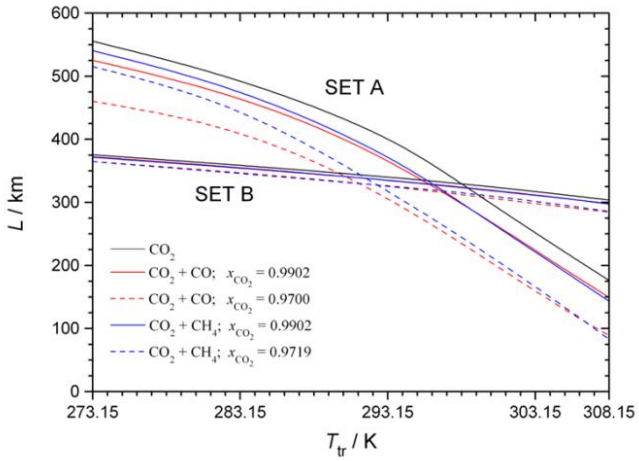
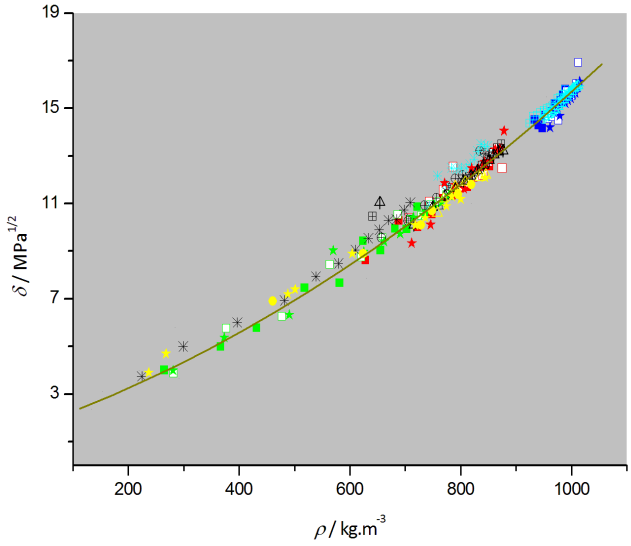
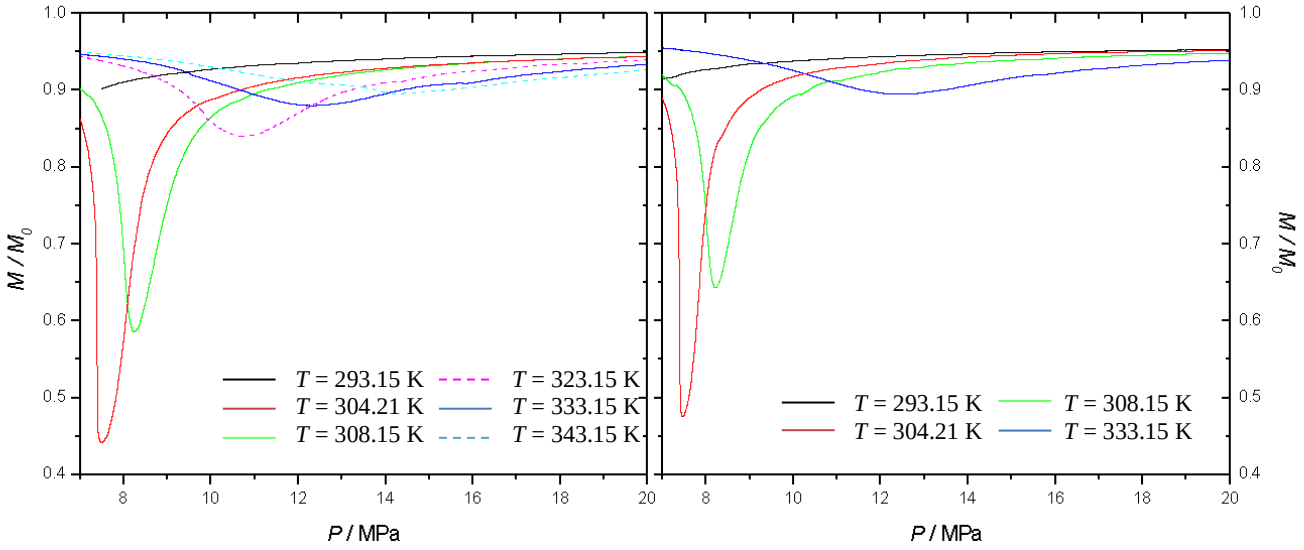

600
500
400
300
200
100
0
L / km
SET A
SET B
CO2
CO2 + CO; xCO2 = 0.9902
CO2 + CO; xCO2 = 0.9700
CO2 + CH4; xCO2 = 0.9902
CO2 + CH4; xCO2 = 0.9719
273.15
283.15
293.15
303.15
308.15
Ttr / K

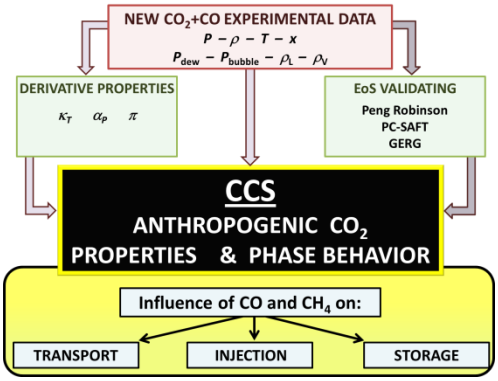
Figure 4.



584 **Figure 5.**
585



TOC


NEW CO_2+CO EXPERIMENTAL DATA
$P - \rho - T - x$
$P_{dew} - P_{bubble} - \rho_L - \rho_V$
DERIVATIVE PROPERTIES
κ_T α_p π
EoS VALIDATING
Peng Robinson
PC-SAFT
GERG
CCS
ANTHROPOGENIC CO_2
PROPERTIES & PHASE BEHAVIOR
Influence of CO and CH_4 on:
TRANSPORT
INJECTION
STORAGE

Discussion of the Influence of CO and CH_4 in CO_2 Transport, Injection and Storage for CCS Technology

Sofía T. Blanco†, Clara Rivas†, Ramón Bravo‡, Javier Fernández†, Manuela Artal†, Inmaculada Velasco†*[1]

†Departamento de Química Física, Facultad de Ciencias, Universidad de Zaragoza, 50009 Zaragoza, Spain.

‡Departamento de Física Aplicada, Facultad de Física, Universidad de Santiago de Compostela, 15782 Santiago de Compostela, Spain.

Supporting Information

213 pages, 8 tables (Table S1 to S8) and 12 figures (Figure S1 to S12)

[1] e-mail: curra@unizar.es

Table S1. $P\rho T x_{CO_2}$ experimental data for CO_2+CO mixtures.

T=253.15 K									
x_{CO_2} = 0.9700		x_{CO_2} = 0.9810		x_{CO_2} = 0.9902		x_{CO_2} = 0.9930		x_{CO_2} = 0.9960	
P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})
20.004	1068.78	20.000	1079.02	20.000	1087.36	20.000	1087.36	20.000	1092.79
19.987	1068.86	19.980	1078.99	19.980	1087.31	19.980	1087.31	19.979	1092.71
19.971	1068.87	19.960	1078.94	19.960	1087.23	19.960	1087.23	19.958	1092.67
19.955	1068.79	19.940	1078.85	19.940	1087.23	19.940	1087.23	19.938	1092.67
19.938	1068.73	19.920	1078.80	19.920	1087.15	19.920	1087.15	19.917	1092.56
19.922	1068.70	19.900	1078.77	19.900	1087.15	19.900	1087.15	19.896	1092.51
19.905	1068.67	19.880	1078.69	19.880	1087.07	19.880	1087.07	19.875	1092.51
19.889	1068.57	19.860	1078.68	19.860	1086.98	19.860	1086.98	19.854	1092.46
19.872	1068.54	19.840	1078.61	19.840	1086.98	19.840	1086.98	19.834	1092.40
19.856	1068.54	19.820	1078.53	19.820	1086.90	19.820	1086.90	19.813	1092.34
19.840	1068.46	19.800	1078.53	19.800	1086.82	19.800	1086.82	19.792	1092.26
19.823	1068.37	19.780	1078.45	19.779	1086.82	19.779	1086.82	19.771	1092.20
19.807	1068.38	19.760	1078.37	19.759	1086.74	19.759	1086.74	19.750	1092.17
19.790	1068.32	19.741	1078.35	19.739	1086.66	19.739	1086.66	19.729	1092.10
19.774	1068.29	19.721	1078.29	19.719	1086.63	19.719	1086.63	19.709	1092.04
19.758	1068.22	19.701	1078.20	19.699	1086.58	19.699	1086.58	19.688	1092.01
19.741	1068.21	19.681	1078.12	19.679	1086.54	19.679	1086.54	19.667	1091.92
19.725	1068.16	19.661	1078.12	19.659	1086.43	19.659	1086.43	19.646	1091.86
19.708	1068.09	19.641	1078.04	19.639	1086.41	19.639	1086.41	19.625	1091.81
19.692	1068.05	19.621	1077.96	19.619	1086.33	19.619	1086.33	19.605	1091.75
19.675	1068.05	19.601	1077.96	19.599	1086.28	19.599	1086.28	19.584	1091.69
19.659	1067.99	19.581	1077.88	19.579	1086.25	19.579	1086.25	19.563	1091.67
19.643	1067.97	19.561	1077.80	19.559	1086.20	19.559	1086.20	19.542	1091.61
19.626	1067.91	19.541	1077.77	19.539	1086.14	19.539	1086.14	19.521	1091.52
19.610	1067.85	19.521	1077.71	19.519	1086.09	19.519	1086.09	19.501	1091.47
19.593	1067.76	19.501	1077.63	19.499	1086.01	19.499	1086.01	19.480	1091.45
19.577	1067.72	19.481	1077.55	19.479	1086.00	19.479	1086.00	19.459	1091.39
19.561	1067.67	19.461	1077.55	19.459	1085.90	19.459	1085.90	19.438	1091.29
19.544	1067.64	19.441	1077.47	19.439	1085.84	19.439	1085.84	19.417	1091.24
19.528	1067.61	19.421	1077.39	19.419	1085.79	19.419	1085.79	19.396	1091.18
19.511	1067.54	19.401	1077.31	19.399	1085.76	19.399	1085.76	19.376	1091.12
19.495	1067.48	19.381	1077.31	19.379	1085.68	19.378	1085.68	19.355	1091.13
19.478	1067.45	19.361	1077.23	19.358	1085.60	19.358	1085.60	19.334	1091.04
19.462	1067.40	19.341	1077.14	19.338	1085.60	19.338	1085.60	19.313	1091.02
19.446	1067.37	19.321	1077.14	19.318	1085.52	19.318	1085.52	19.292	1090.96
19.429	1067.27	19.301	1077.06	19.298	1085.47	19.298	1085.47	19.272	1090.88

19.413	1067.24	19.281	1076.98	19.278	1085.44	19.278	1085.44	19.251	1090.85
19.396	1067.23	19.262	1076.98	19.258	1085.35	19.258	1085.35	19.230	1090.79
19.380	1067.15	19.242	1076.90	19.238	1085.33	19.238	1085.33	19.209	1090.74
19.363	1067.14	19.222	1076.82	19.218	1085.23	19.218	1085.23	19.188	1090.68
19.347	1067.07	19.202	1076.78	19.198	1085.19	19.198	1085.19	19.168	1090.63
19.331	1066.99	19.182	1076.74	19.178	1085.13	19.178	1085.13	19.147	1090.57
19.314	1066.99	19.162	1076.66	19.158	1085.11	19.158	1085.11	19.126	1090.51
19.298	1066.91	19.142	1076.65	19.138	1085.03	19.138	1085.03	19.105	1090.43
19.281	1066.90	19.122	1076.57	19.118	1085.01	19.118	1085.01	19.084	1090.39
19.265	1066.84	19.102	1076.49	19.098	1084.92	19.098	1084.92	19.064	1090.31
19.249	1066.78	19.082	1076.44	19.078	1084.87	19.078	1084.87	19.043	1090.28
19.232	1066.75	19.062	1076.41	19.058	1084.85	19.058	1084.85	19.022	1090.22
19.216	1066.73	19.042	1076.33	19.038	1084.75	19.038	1084.74	19.001	1090.17
19.199	1066.65	19.022	1076.25	19.018	1084.70	19.018	1084.70	18.980	1090.11
19.183	1066.58	19.002	1076.25	18.998	1084.62	18.998	1084.62	18.959	1090.05
19.166	1066.54	18.982	1076.17	18.978	1084.62	18.977	1084.62	18.939	1089.99
19.150	1066.50	18.962	1076.16	18.958	1084.54	18.957	1084.54	18.918	1089.90
19.134	1066.47	18.942	1076.09	18.938	1084.46	18.937	1084.46	18.897	1089.83
19.117	1066.38	18.922	1076.00	18.917	1084.38	18.917	1084.38	18.876	1089.80
19.101	1066.34	18.902	1075.92	18.897	1084.38	18.897	1084.38	18.855	1089.74
19.084	1066.28	18.882	1075.92	18.877	1084.30	18.877	1084.30	18.835	1089.68
19.068	1066.26	18.862	1075.84	18.857	1084.21	18.857	1084.21	18.814	1089.62
19.052	1066.26	18.842	1075.76	18.837	1084.21	18.837	1084.21	18.793	1089.56
19.035	1066.20	18.822	1075.71	18.817	1084.13	18.817	1084.13	18.772	1089.50
19.019	1066.09	18.802	1075.68	18.797	1084.07	18.797	1084.07	18.751	1089.45
19.002	1066.02	18.783	1075.60	18.777	1084.05	18.777	1084.05	18.731	1089.42
18.986	1066.01	18.763	1075.52	18.757	1083.95	18.757	1083.95	18.710	1089.35
18.969	1065.93	18.743	1075.46	18.737	1083.89	18.737	1083.89	18.689	1089.29
18.953	1065.93	18.723	1075.43	18.717	1083.81	18.717	1083.81	18.668	1089.23
18.937	1065.87	18.703	1075.35	18.697	1083.81	18.697	1083.81	18.647	1089.17
18.920	1065.81	18.683	1075.33	18.677	1083.73	18.677	1083.73	18.627	1089.11
18.904	1065.74	18.663	1075.27	18.657	1083.71	18.657	1083.71	18.606	1089.05
18.887	1065.69	18.643	1075.19	18.637	1083.61	18.637	1083.61	18.585	1088.97
18.871	1065.68	18.623	1075.11	18.617	1083.55	18.617	1083.55	18.564	1088.93
18.855	1065.61	18.603	1075.07	18.597	1083.48	18.597	1083.48	18.543	1088.91
18.838	1065.55	18.583	1075.03	18.577	1083.40	18.576	1083.40	18.522	1088.84
18.822	1065.52	18.563	1074.94	18.557	1083.36	18.556	1083.36	18.502	1088.73
18.805	1065.49	18.543	1074.86	18.537	1083.32	18.536	1083.32	18.481	1088.68
18.789	1065.42	18.523	1074.86	18.517	1083.24	18.516	1083.24	18.460	1088.63
18.772	1065.36	18.503	1074.78	18.496	1083.24	18.496	1083.24	18.439	1088.59
18.756	1065.33	18.483	1074.70	18.476	1083.15	18.476	1083.15	18.418	1088.53
18.740	1065.27	18.463	1074.63	18.456	1083.07	18.456	1083.07	18.398	1088.46
18.723	1065.20	18.443	1074.62	18.436	1082.99	18.436	1082.99	18.377	1088.36
18.707	1065.14	18.423	1074.54	18.416	1082.99	18.416	1082.99	18.356	1088.31
18.690	1065.12	18.403	1074.50	18.396	1082.91	18.396	1082.91	18.335	1088.27

18.674	1065.04	18.383	1074.46	18.376	1082.83	18.376	1082.83	18.314	1088.19
18.658	1065.04	18.363	1074.37	18.356	1082.83	18.356	1082.83	18.294	1088.14
18.641	1064.95	18.343	1074.29	18.336	1082.75	18.336	1082.75	18.273	1088.11
18.625	1064.95	18.323	1074.21	18.316	1082.66	18.316	1082.66	18.252	1088.03
18.608	1064.87	18.304	1074.18	18.296	1082.58	18.296	1082.58	18.231	1088.03
18.592	1064.79	18.284	1074.13	18.276	1082.58	18.276	1082.58	18.210	1087.90
18.575	1064.78	18.264	1074.05	18.256	1082.50	18.256	1082.50	18.189	1087.87
18.559	1064.71	18.244	1074.05	18.236	1082.42	18.236	1082.42	18.169	1087.84
18.543	1064.65	18.224	1073.96	18.216	1082.37	18.216	1082.37	18.148	1087.75
18.526	1064.63	18.204	1073.88	18.196	1082.34	18.196	1082.34	18.127	1087.70
18.510	1064.54	18.184	1073.81	18.176	1082.26	18.175	1082.26	18.106	1087.62
18.493	1064.54	18.164	1073.80	18.156	1082.19	18.155	1082.19	18.085	1087.54
18.477	1064.46	18.144	1073.71	18.136	1082.17	18.135	1082.16	18.065	1087.51
18.460	1064.40	18.124	1073.64	18.116	1082.09	18.115	1082.09	18.044	1087.44
18.444	1064.38	18.104	1073.56	18.096	1082.01	18.095	1082.01	18.023	1087.38
18.428	1064.30	18.084	1073.53	18.075	1081.97	18.075	1081.97	18.002	1087.31
18.411	1064.28	18.064	1073.48	18.055	1081.93	18.055	1081.93	17.981	1087.28
18.395	1064.22	18.044	1073.39	18.035	1081.85	18.035	1081.85	17.961	1087.14
18.378	1064.14	18.024	1073.36	18.015	1081.78	18.015	1081.78	17.940	1087.11
18.362	1064.14	18.004	1073.31	17.995	1081.76	17.995	1081.75	17.919	1087.05
18.346	1064.06	17.984	1073.23	17.975	1081.69	17.975	1081.69	17.898	1087.05
18.329	1064.04	17.964	1073.15	17.955	1081.60	17.955	1081.60	17.877	1086.97
18.313	1063.97	17.944	1073.08	17.935	1081.54	17.935	1081.53	17.857	1086.89
18.296	1063.92	17.924	1073.03	17.915	1081.52	17.915	1081.52	17.836	1086.82
18.280	1063.86	17.904	1072.99	17.895	1081.44	17.895	1081.44	17.815	1086.74
18.263	1063.81	17.884	1072.91	17.875	1081.41	17.875	1081.40	17.794	1086.73
18.247	1063.73	17.864	1072.87	17.855	1081.34	17.855	1081.34	17.773	1086.64
18.231	1063.73	17.844	1072.82	17.835	1081.28	17.835	1081.28	17.752	1086.58
18.214	1063.65	17.825	1072.74	17.815	1081.20	17.815	1081.20	17.732	1086.54
18.198	1063.62	17.805	1072.67	17.795	1081.12	17.795	1081.12	17.711	1086.48
18.181	1063.56	17.785	1072.65	17.775	1081.10	17.774	1081.10	17.690	1086.41
18.165	1063.48	17.765	1072.56	17.755	1081.03	17.754	1081.03	17.669	1086.34
18.149	1063.49	17.745	1072.50	17.735	1080.95	17.734	1080.95	17.648	1086.32
18.132	1063.40	17.725	1072.42	17.715	1080.87	17.714	1080.87	17.628	1086.24
18.116	1063.35	17.705	1072.39	17.695	1080.87	17.694	1080.87	17.607	1086.17
18.099	1063.32	17.685	1072.33	17.675	1080.79	17.674	1080.79	17.586	1086.10
18.083	1063.26	17.665	1072.25	17.654	1080.71	17.654	1080.71	17.565	1086.07
18.066	1063.23	17.645	1072.23	17.634	1080.66	17.634	1080.66	17.544	1085.99
18.050	1063.16	17.625	1072.17	17.614	1080.63	17.614	1080.63	17.524	1085.91
18.034	1063.12	17.605	1072.09	17.594	1080.54	17.594	1080.54	17.503	1085.84
18.017	1063.00	17.585	1072.01	17.574	1080.51	17.574	1080.50	17.482	1085.80
18.001	1062.99	17.565	1071.96	17.554	1080.40	17.554	1080.39	17.461	1085.73
17.984	1062.97	17.545	1071.93	17.534	1080.38	17.534	1080.38	17.440	1085.66
17.968	1062.88	17.525	1071.84	17.514	1080.30	17.514	1080.30	17.420	1085.61
17.952	1062.83	17.505	1071.76	17.494	1080.29	17.494	1080.29	17.399	1085.55

17.935	1062.79	17.485	1071.72	17.474	1080.18	17.474	1080.17	17.378	1085.50
17.919	1062.73	17.465	1071.67	17.454	1080.14	17.454	1080.14	17.357	1085.43
17.902	1062.67	17.445	1071.60	17.434	1080.06	17.434	1080.06	17.336	1085.40
17.886	1062.61	17.425	1071.52	17.414	1080.01	17.414	1080.01	17.315	1085.34
17.869	1062.59	17.405	1071.46	17.394	1079.95	17.394	1079.95	17.295	1085.26
17.853	1062.53	17.385	1071.39	17.374	1079.89	17.373	1079.89	17.274	1085.22
17.837	1062.48	17.365	1071.36	17.354	1079.81	17.353	1079.81	17.253	1085.15
17.820	1062.42	17.346	1071.27	17.334	1079.75	17.333	1079.75	17.232	1085.09
17.804	1062.42	17.326	1071.19	17.314	1079.73	17.313	1079.73	17.211	1084.98
17.787	1062.34	17.306	1071.18	17.294	1079.65	17.293	1079.65	17.191	1084.93
17.771	1062.26	17.286	1071.11	17.274	1079.60	17.273	1079.60	17.170	1084.92
17.755	1062.23	17.266	1071.03	17.254	1079.57	17.253	1079.57	17.149	1084.84
17.738	1062.18	17.246	1070.96	17.233	1079.48	17.233	1079.48	17.128	1084.78
17.722	1062.16	17.226	1070.95	17.213	1079.40	17.213	1079.40	17.107	1084.69
17.705	1062.08	17.206	1070.87	17.193	1079.32	17.193	1079.32	17.087	1084.67
17.689	1062.02	17.186	1070.78	17.173	1079.31	17.173	1079.31	17.066	1084.59
17.672	1062.00	17.166	1070.79	17.153	1079.24	17.153	1079.24	17.045	1084.48
17.656	1061.93	17.146	1070.70	17.133	1079.16	17.133	1079.16	17.024	1084.44
17.640	1061.85	17.126	1070.62	17.113	1079.08	17.113	1079.08	17.003	1084.40
17.623	1061.80	17.106	1070.54	17.093	1079.04	17.093	1079.04	16.982	1084.34
17.607	1061.77	17.086	1070.46	17.073	1078.99	17.073	1078.99	16.962	1084.28
17.590	1061.69	17.066	1070.46	17.053	1078.93	17.053	1078.93	16.941	1084.21
17.574	1061.61	17.046	1070.38	17.033	1078.88	17.033	1078.88	16.920	1084.13
17.557	1061.61	17.026	1070.29	17.013	1078.83	17.013	1078.83	16.899	1084.05
17.541	1061.52	17.006	1070.21	16.993	1078.75	16.993	1078.75	16.878	1083.99
17.525	1061.52	16.986	1070.21	16.973	1078.67	16.972	1078.67	16.858	1083.95
17.508	1061.44	16.966	1070.13	16.953	1078.65	16.952	1078.65	16.837	1083.88
17.492	1061.39	16.946	1070.05	16.933	1078.59	16.932	1078.59	16.816	1083.87
17.475	1061.36	16.926	1069.97	16.913	1078.50	16.912	1078.50	16.795	1083.77
17.459	1061.30	16.906	1069.96	16.893	1078.42	16.892	1078.42	16.774	1083.70
17.443	1061.23	16.886	1069.89	16.873	1078.34	16.872	1078.34	16.754	1083.62
17.426	1061.20	16.867	1069.80	16.853	1078.34	16.852	1078.34	16.733	1083.63
17.410	1061.12	16.847	1069.75	16.833	1078.26	16.832	1078.26	16.712	1083.56
17.393	1061.06	16.827	1069.70	16.813	1078.18	16.812	1078.18	16.691	1083.46
17.377	1061.04	16.807	1069.64	16.792	1078.12	16.792	1078.11	16.670	1083.41
17.360	1060.99	16.787	1069.56	16.772	1078.10	16.772	1078.10	16.650	1083.37
17.344	1060.90	16.767	1069.48	16.752	1078.03	16.752	1078.03	16.629	1083.30
17.328	1060.87	16.747	1069.42	16.732	1077.94	16.732	1077.94	16.608	1083.22
17.311	1060.79	16.727	1069.40	16.712	1077.89	16.712	1077.89	16.587	1083.15
17.295	1060.79	16.707	1069.31	16.692	1077.85	16.692	1077.85	16.566	1083.07
17.278	1060.71	16.687	1069.23	16.672	1077.77	16.672	1077.77	16.545	1083.03
17.262	1060.70	16.667	1069.18	16.652	1077.73	16.652	1077.73	16.525	1082.95
17.246	1060.61	16.647	1069.13	16.632	1077.69	16.632	1077.69	16.504	1082.89
17.229	1060.54	16.627	1069.07	16.612	1077.59	16.612	1077.59	16.483	1082.81
17.213	1060.52	16.607	1068.99	16.592	1077.53	16.592	1077.53	16.462	1082.80

17.196	1060.46	16.587	1068.98	16.572	1077.44	16.572	1077.44	16.441	1082.72
17.180	1060.38	16.567	1068.91	16.552	1077.45	16.551	1077.45	16.421	1082.65
17.163	1060.34	16.547	1068.82	16.532	1077.34	16.531	1077.33	16.400	1082.58
17.147	1060.30	16.527	1068.75	16.512	1077.28	16.511	1077.28	16.379	1082.50
17.131	1060.23	16.507	1068.69	16.492	1077.20	16.491	1077.20	16.358	1082.45
17.114	1060.22	16.487	1068.60	16.472	1077.20	16.471	1077.20	16.337	1082.40
17.098	1060.14	16.467	1068.58	16.452	1077.12	16.451	1077.12	16.317	1082.34
17.081	1060.13	16.447	1068.50	16.432	1077.04	16.431	1077.04	16.296	1082.26
17.065	1060.06	16.427	1068.42	16.412	1076.95	16.411	1076.95	16.275	1082.18
17.049	1059.97	16.407	1068.34	16.392	1076.93	16.391	1076.92	16.254	1082.16
17.032	1059.93	16.388	1068.34	16.371	1076.87	16.371	1076.87	16.233	1082.07
17.016	1059.89	16.368	1068.25	16.351	1076.79	16.351	1076.79	16.213	1082.02
16.999	1059.81	16.348	1068.17	16.331	1076.74	16.331	1076.73	16.192	1081.94
16.983	1059.77	16.328	1068.09	16.311	1076.71	16.311	1076.71	16.171	1081.91
16.966	1059.73	16.308	1068.09	16.291	1076.63	16.291	1076.63	16.150	1081.83
16.950	1059.66	16.288	1068.01	16.271	1076.55	16.271	1076.55	16.129	1081.74
16.934	1059.57	16.268	1067.93	16.251	1076.47	16.251	1076.47	16.108	1081.67
16.917	1059.57	16.248	1067.93	16.231	1076.47	16.231	1076.47	16.088	1081.66
16.901	1059.48	16.228	1067.85	16.211	1076.37	16.211	1076.37	16.067	1081.58
16.884	1059.46	16.208	1067.76	16.191	1076.30	16.191	1076.30	16.046	1081.50
16.868	1059.40	16.188	1067.68	16.171	1076.25	16.171	1076.24	16.025	1081.49
16.852	1059.33	16.168	1067.63	16.151	1076.19	16.150	1076.19	16.004	1081.34
16.835	1059.32	16.148	1067.57	16.131	1076.14	16.130	1076.14	15.984	1081.34
16.819	1059.25	16.128	1067.52	16.111	1076.06	16.110	1076.06	15.963	1081.26
16.802	1059.16	16.108	1067.44	16.091	1075.99	16.090	1075.98	15.942	1081.18
16.786	1059.14	16.088	1067.37	16.071	1075.89	16.070	1075.89	15.921	1081.12
16.769	1059.07	16.068	1067.28	16.051	1075.87	16.050	1075.87	15.900	1081.10
16.753	1059.04	16.048	1067.27	16.031	1075.81	16.030	1075.81	15.880	1081.05
16.737	1058.99	16.028	1067.19	16.011	1075.73	16.010	1075.73	15.859	1080.93
16.720	1058.94	16.008	1067.11	15.991	1075.68	15.990	1075.68	15.838	1080.88
16.704	1058.91	15.988	1067.05	15.971	1075.65	15.970	1075.65	15.817	1080.84
16.687	1058.83	15.968	1067.03	15.950	1075.57	15.950	1075.57	15.796	1080.77
16.671	1058.79	15.948	1066.95	15.930	1075.51	15.930	1075.51	15.775	1080.69
16.655	1058.71	15.928	1066.87	15.910	1075.41	15.910	1075.40	15.755	1080.65
16.638	1058.67	15.909	1066.86	15.890	1075.40	15.890	1075.40	15.734	1080.54
16.622	1058.58	15.889	1066.75	15.870	1075.32	15.870	1075.32	15.713	1080.52
16.605	1058.58	15.869	1066.70	15.850	1075.24	15.850	1075.24	15.692	1080.44
16.589	1058.50	15.849	1066.62	15.830	1075.17	15.830	1075.17	15.671	1080.37
16.572	1058.44	15.829	1066.54	15.810	1075.11	15.810	1075.11	15.651	1080.28
16.556	1058.42	15.809	1066.54	15.790	1075.08	15.790	1075.08	15.630	1080.26
16.540	1058.35	15.789	1066.46	15.770	1074.99	15.770	1074.99	15.609	1080.17
16.523	1058.33	15.769	1066.38	15.750	1074.92	15.749	1074.92	15.588	1080.11
16.507	1058.25	15.749	1066.29	15.730	1074.86	15.729	1074.85	15.567	1080.03
16.490	1058.18	15.729	1066.24	15.710	1074.83	15.709	1074.83	15.547	1079.98
16.474	1058.15	15.709	1066.16	15.690	1074.75	15.689	1074.75	15.526	1079.93

16.457	1058.06	15.689	1066.13	15.670	1074.70	15.669	1074.70	15.505	1079.87
16.441	1058.01	15.669	1066.05	15.650	1074.61	15.649	1074.60	15.484	1079.79
16.425	1057.99	15.649	1065.97	15.630	1074.59	15.629	1074.59	15.463	1079.76
16.408	1057.93	15.629	1065.90	15.610	1074.50	15.609	1074.50	15.443	1079.62
16.392	1057.87	15.609	1065.89	15.590	1074.45	15.589	1074.45	15.422	1079.61
16.375	1057.85	15.589	1065.80	15.570	1074.39	15.569	1074.38	15.401	1079.54
16.359	1057.77	15.569	1065.72	15.550	1074.33	15.549	1074.32	15.380	1079.52
16.343	1057.75	15.549	1065.64	15.529	1074.26	15.529	1074.26	15.359	1079.40
16.326	1057.69	15.529	1065.64	15.509	1074.18	15.509	1074.18	15.338	1079.38
16.310	1057.61	15.509	1065.56	15.489	1074.12	15.489	1074.11	15.318	1079.30
16.293	1057.54	15.489	1065.48	15.469	1074.08	15.469	1074.08	15.297	1079.22
16.277	1057.52	15.469	1065.47	15.449	1074.01	15.449	1074.01	15.276	1079.17
16.260	1057.45	15.449	1065.34	15.429	1073.93	15.429	1073.93	15.255	1079.07
16.244	1057.44	15.430	1065.30	15.409	1073.90	15.409	1073.90	15.234	1079.05
16.228	1057.35	15.410	1065.23	15.389	1073.82	15.389	1073.81	15.214	1078.97
16.211	1057.28	15.390	1065.15	15.369	1073.77	15.369	1073.77	15.193	1078.89
16.195	1057.25	15.370	1065.10	15.349	1073.69	15.348	1073.69	15.172	1078.83
16.178	1057.20	15.350	1065.06	15.329	1073.61	15.328	1073.61	15.151	1078.81
16.162	1057.18	15.330	1064.99	15.309	1073.55	15.308	1073.54	15.130	1078.74
16.146	1057.14	15.310	1064.91	15.289	1073.52	15.288	1073.51	15.110	1078.65
16.129	1057.07	15.290	1064.85	15.269	1073.44	15.268	1073.44	15.089	1078.56
16.113	1056.97	15.270	1064.75	15.249	1073.37	15.248	1073.36	15.068	1078.48
16.096	1056.95	15.250	1064.74	15.229	1073.31	15.228	1073.30	15.047	1078.48
16.080	1056.91	15.230	1064.66	15.209	1073.27	15.208	1073.27	15.026	1078.36
16.063	1056.86	15.210	1064.58	15.189	1073.20	15.188	1073.20	15.006	1078.32
16.047	1056.79	15.190	1064.51	15.169	1073.12	15.168	1073.12	14.985	1078.26
16.031	1056.76	15.170	1064.44	15.149	1073.08	15.148	1073.08	14.964	1078.17
16.014	1056.66	15.150	1064.42	15.129	1072.99	15.128	1072.98	14.943	1078.16
15.998	1056.59	15.130	1064.33	15.109	1072.95	15.108	1072.95	14.922	1078.06
15.981	1056.55	15.110	1064.25	15.088	1072.87	15.088	1072.87	14.901	1077.97
15.965	1056.50	15.090	1064.17	15.068	1072.79	15.068	1072.79	14.881	1077.91
15.949	1056.45	15.070	1064.14	15.048	1072.79	15.048	1072.79	14.860	1077.91
15.932	1056.41	15.050	1064.09	15.028	1072.71	15.028	1072.71	14.839	1077.79
15.916	1056.36	15.030	1064.01	15.008	1072.63	15.008	1072.63	14.818	1077.75
15.899	1056.31	15.010	1063.92	14.988	1072.54	14.988	1072.54	14.797	1077.66
15.883	1056.26	14.990	1063.84	14.968	1072.46	14.968	1072.46	14.777	1077.58
15.866	1056.20	14.970	1063.78	14.948	1072.46	14.947	1072.46	14.756	1077.55
15.850	1056.13	14.951	1063.76	14.928	1072.38	14.927	1072.38	14.735	1077.50
15.834	1056.09	14.931	1063.68	14.908	1072.30	14.907	1072.30	14.714	1077.42
15.817	1056.05	14.911	1063.60	14.888	1072.22	14.887	1072.22	14.693	1077.34
15.801	1055.97	14.891	1063.58	14.868	1072.18	14.867	1072.17	14.673	1077.26
15.784	1055.92	14.871	1063.46	14.848	1072.09	14.847	1072.08	14.652	1077.22
15.768	1055.89	14.851	1063.43	14.828	1072.05	14.827	1072.05	14.631	1077.18
15.752	1055.86	14.831	1063.35	14.808	1071.97	14.807	1071.97	14.610	1077.08
15.735	1055.81	14.811	1063.27	14.788	1071.89	14.787	1071.89	14.589	1077.01

15.719	1055.73	14.791	1063.23	14.768	1071.86	14.767	1071.86	14.568	1076.93
15.702	1055.68	14.771	1063.19	14.748	1071.81	14.747	1071.81	14.548	1076.92
15.686	1055.65	14.751	1063.11	14.728	1071.73	14.727	1071.73	14.527	1076.85
15.669	1055.56	14.731	1063.03	14.708	1071.65	14.707	1071.65	14.506	1076.77
15.653	1055.53	14.711	1062.94	14.688	1071.62	14.687	1071.61	14.485	1076.69
15.637	1055.46	14.691	1062.86	14.667	1071.57	14.667	1071.57	14.464	1076.60
15.620	1055.41	14.671	1062.86	14.647	1071.48	14.647	1071.48	14.444	1076.53
15.604	1055.35	14.651	1062.78	14.627	1071.40	14.627	1071.40	14.423	1076.51
15.587	1055.29	14.631	1062.70	14.607	1071.32	14.607	1071.32	14.402	1076.44
15.571	1055.24	14.611	1062.62	14.587	1071.26	14.587	1071.25	14.381	1076.36
15.554	1055.15	14.591	1062.53	14.567	1071.24	14.567	1071.24	14.360	1076.28
15.538	1055.15	14.571	1062.54	14.547	1071.16	14.546	1071.16	14.340	1076.26
15.522	1055.09	14.551	1062.45	14.527	1071.07	14.526	1071.07	14.319	1076.16
15.505	1055.04	14.531	1062.37	14.507	1071.00	14.506	1070.99	14.298	1076.11
15.489	1054.98	14.511	1062.29	14.487	1070.98	14.486	1070.97	14.277	1076.04
15.472	1054.94	14.491	1062.21	14.467	1070.91	14.466	1070.91	14.256	1076.01
15.456	1054.88	14.472	1062.21	14.447	1070.83	14.446	1070.83	14.236	1075.90
15.440	1054.82	14.452	1062.13	14.427	1070.75	14.426	1070.75	14.215	1075.83
15.423	1054.75	14.432	1062.04	14.407	1070.66	14.406	1070.66	14.194	1075.79
15.407	1054.72	14.412	1061.96	14.387	1070.64	14.386	1070.63	14.173	1075.70
15.390	1054.67	14.392	1061.88	14.367	1070.58	14.366	1070.58	14.152	1075.64
15.374	1054.64	14.372	1061.80	14.347	1070.50	14.346	1070.50	14.131	1075.61
15.357	1054.58	14.352	1061.80	14.327	1070.42	14.326	1070.42	14.111	1075.54
15.341	1054.51	14.332	1061.72	14.307	1070.35	14.306	1070.34	14.090	1075.46
15.325	1054.45	14.312	1061.64	14.287	1070.34	14.286	1070.34	14.069	1075.39
15.308	1054.36	14.292	1061.55	14.267	1070.26	14.266	1070.26	14.048	1075.30
15.292	1054.34	14.272	1061.53	14.246	1070.17	14.246	1070.17	14.027	1075.21
15.275	1054.32	14.252	1061.47	14.226	1070.17	14.226	1070.16	14.007	1075.19
15.259	1054.24	14.232	1061.39	14.206	1070.06	14.206	1070.05	13.986	1075.12
15.243	1054.18	14.212	1061.31	14.186	1069.99	14.186	1069.98	13.965	1075.05
15.226	1054.16	14.192	1061.23	14.166	1069.93	14.166	1069.93	13.944	1075.03
15.210	1054.09	14.172	1061.21	14.146	1069.85	14.145	1069.85	13.923	1074.89
15.193	1054.05	14.152	1061.15	14.126	1069.77	14.125	1069.77	13.903	1074.82
15.177	1053.99	14.132	1061.06	14.106	1069.75	14.105	1069.73	13.882	1074.81
15.160	1053.93	14.112	1060.98	14.086	1069.68	14.085	1069.67	13.861	1074.72
15.144	1053.86	14.092	1060.90	14.066	1069.60	14.065	1069.60	13.840	1074.66
15.128	1053.82	14.072	1060.83	14.046	1069.52	14.045	1069.52	13.819	1074.63
15.111	1053.77	14.052	1060.82	14.026	1069.46	14.025	1069.46	13.799	1074.52
15.095	1053.68	14.032	1060.74	14.006	1069.44	14.005	1069.44	13.778	1074.48
15.078	1053.65	14.012	1060.66	13.986	1069.36	13.985	1069.36	13.757	1074.40
15.062	1053.60	13.993	1060.57	13.966	1069.28	13.965	1069.28	13.736	1074.32
15.046	1053.55	13.973	1060.49	13.946	1069.19	13.945	1069.19	13.715	1074.23
15.029	1053.47	13.953	1060.49	13.926	1069.11	13.925	1069.11	13.694	1074.21
15.013	1053.44	13.933	1060.41	13.906	1069.11	13.905	1069.11	13.674	1074.15
14.996	1053.36	13.913	1060.33	13.886	1069.03	13.885	1069.03	13.653	1074.07

14.980	1053.33	13.893	1060.25	13.866	1068.95	13.865	1068.95	13.632	1073.99
14.963	1053.27	13.873	1060.16	13.846	1068.87	13.845	1068.87	13.611	1073.91
14.947	1053.22	13.853	1060.08	13.825	1068.84	13.825	1068.83	13.590	1073.83
14.931	1053.11	13.833	1060.08	13.805	1068.78	13.805	1068.77	13.570	1073.77
14.914	1053.09	13.813	1060.00	13.785	1068.70	13.785	1068.70	13.549	1073.72
14.898	1053.04	13.793	1059.92	13.765	1068.62	13.765	1068.62	13.528	1073.65
14.881	1052.95	13.773	1059.84	13.745	1068.54	13.744	1068.54	13.507	1073.58
14.865	1052.95	13.753	1059.76	13.725	1068.53	13.724	1068.52	13.486	1073.51
14.849	1052.90	13.733	1059.74	13.705	1068.46	13.704	1068.46	13.466	1073.47
14.832	1052.84	13.713	1059.67	13.685	1068.38	13.684	1068.38	13.445	1073.37
14.816	1052.77	13.693	1059.59	13.665	1068.30	13.664	1068.30	13.424	1073.32
14.799	1052.70	13.673	1059.51	13.645	1068.21	13.644	1068.21	13.403	1073.21
14.783	1052.62	13.653	1059.43	13.625	1068.13	13.624	1068.13	13.382	1073.17
14.766	1052.59	13.633	1059.35	13.605	1068.13	13.604	1068.13	13.361	1073.10
14.750	1052.54	13.613	1059.35	13.585	1068.05	13.584	1068.05	13.341	1073.05
14.734	1052.51	13.593	1059.22	13.565	1067.97	13.564	1067.97	13.320	1072.98
14.717	1052.45	13.573	1059.18	13.545	1067.89	13.544	1067.89	13.299	1072.93
14.701	1052.35	13.553	1059.10	13.525	1067.81	13.524	1067.80	13.278	1072.85
14.684	1052.29	13.533	1059.02	13.505	1067.81	13.504	1067.81	13.257	1072.76
14.668	1052.22	13.514	1058.94	13.485	1067.72	13.484	1067.72	13.237	1072.69
14.651	1052.16	13.494	1058.94	13.465	1067.64	13.464	1067.64	13.216	1072.64
14.635	1052.13	13.474	1058.86	13.445	1067.56	13.444	1067.56	13.195	1072.60
14.619	1052.04	13.454	1058.77	13.425	1067.50	13.424	1067.48	13.174	1072.52
14.602	1051.98	13.434	1058.69	13.404	1067.44	13.404	1067.43	13.153	1072.44
14.586	1051.95	13.414	1058.61	13.384	1067.40	13.384	1067.40	13.133	1072.35
14.569	1051.89	13.394	1058.54	13.364	1067.31	13.364	1067.31	13.112	1072.27
14.553	1051.82	13.374	1058.53	13.344	1067.23	13.343	1067.23	13.091	1072.19
14.537	1051.76	13.354	1058.45	13.324	1067.18	13.323	1067.17	13.070	1072.19
14.520	1051.72	13.334	1058.37	13.304	1067.13	13.303	1067.11	13.049	1072.11
14.504	1051.64	13.314	1058.28	13.284	1067.06	13.283	1067.05	13.029	1072.03
14.487	1051.62	13.294	1058.22	13.264	1066.99	13.263	1066.99	13.008	1071.95
14.471	1051.56	13.274	1058.16	13.244	1066.91	13.243	1066.91	12.987	1071.87
14.454	1051.54	13.254	1058.12	13.224	1066.84	13.223	1066.83	12.966	1071.78
14.438	1051.48	13.234	1058.04	13.204	1066.76	13.203	1066.75	12.945	1071.78
14.422	1051.41	13.214	1057.96	13.184	1066.74	13.183	1066.74	12.924	1071.70
14.405	1051.35	13.194	1057.87	13.164	1066.66	13.163	1066.66	12.904	1071.62
14.389	1051.27	13.174	1057.79	13.144	1066.58	13.143	1066.58	12.883	1071.54
14.372	1051.23	13.154	1057.71	13.124	1066.52	13.123	1066.51	12.862	1071.45
14.356	1051.23	13.134	1057.68	13.104	1066.41	13.103	1066.41	12.841	1071.45
14.340	1051.18	13.114	1057.63	13.084	1066.38	13.083	1066.37	12.820	1071.37
14.323	1051.09	13.094	1057.55	13.064	1066.33	13.063	1066.33	12.800	1071.29
14.307	1050.99	13.074	1057.47	13.044	1066.25	13.043	1066.25	12.779	1071.21
14.290	1050.99	13.054	1057.38	13.024	1066.17	13.023	1066.17	12.758	1071.13
14.274	1050.93	13.035	1057.34	13.004	1066.09	13.003	1066.09	12.737	1071.06
14.257	1050.81	13.015	1057.30	12.984	1066.03	12.983	1066.01	12.716	1071.05

14.241	1050.75	12.995	1057.22	12.963	1066.01	12.963	1066.01	12.696	1070.97
14.225	1050.69	12.975	1057.14	12.943	1065.92	12.943	1065.92	12.675	1070.88
14.208	1050.63	12.955	1057.06	12.923	1065.84	12.922	1065.84	12.654	1070.80
14.192	1050.58	12.935	1056.99	12.903	1065.81	12.902	1065.79	12.633	1070.75
14.175	1050.58	12.915	1056.89	12.883	1065.70	12.882	1065.69	12.612	1070.64
14.159	1050.50	12.895	1056.87	12.863	1065.68	12.862	1065.67	12.592	1070.61
14.143	1050.42	12.875	1056.81	12.843	1065.60	12.842	1065.60	12.571	1070.56
14.126	1050.36	12.855	1056.73	12.823	1065.52	12.822	1065.52	12.550	1070.47
14.110	1050.32	12.835	1056.65	12.803	1065.43	12.802	1065.43	12.529	1070.39
14.093	1050.26	12.815	1056.57	12.783	1065.40	12.782	1065.37	12.508	1070.31
14.077	1050.23	12.795	1056.48	12.763	1065.32	12.762	1065.31	12.487	1070.23
14.060	1050.17	12.775	1056.48	12.743	1065.27	12.742	1065.27	12.467	1070.23
14.044	1050.09	12.755	1056.40	12.723	1065.19	12.722	1065.19	12.446	1070.07
14.028	1050.04	12.735	1056.32	12.703	1065.11	12.702	1065.11	12.425	1070.07
14.011	1050.01	12.715	1056.24	12.683	1065.02	12.682	1065.03	12.404	1069.98
13.995	1049.94	12.695	1056.16	12.663	1064.98	12.662	1064.95	12.383	1069.90
13.978	1049.84	12.675	1056.13	12.643	1064.94	12.642	1064.94	12.363	1069.82
13.962	1049.78	12.655	1056.04	12.623	1064.86	12.622	1064.86	12.342	1069.75
13.946	1049.76	12.635	1055.99	12.603	1064.78	12.602	1064.78	12.321	1069.73
13.929	1049.67	12.615	1055.91	12.583	1064.70	12.582	1064.70	12.300	1069.66
13.913	1049.61	12.595	1055.83	12.563	1064.64	12.562	1064.62	12.279	1069.53
13.896	1049.60	12.575	1055.75	12.542	1064.62	12.542	1064.62	12.259	1069.49
13.880	1049.51	12.555	1055.67	12.522	1064.54	12.521	1064.54	12.238	1069.43
13.863	1049.45	12.536	1055.63	12.502	1064.45	12.501	1064.45	12.217	1069.34
13.847	1049.43	12.516	1055.59	12.482	1064.37	12.481	1064.37	12.196	1069.32
13.831	1049.35	12.496	1055.50	12.462	1064.29	12.461	1064.29	12.175	1069.20
13.814	1049.28	12.476	1055.42	12.442	1064.27	12.441	1064.26	12.154	1069.17
13.798	1049.24	12.456	1055.34	12.422	1064.21	12.421	1064.21	12.134	1069.08
13.781	1049.19	12.436	1055.26	12.402	1064.13	12.401	1064.13	12.113	1069.00
13.765	1049.13	12.416	1055.19	12.382	1064.04	12.381	1064.04	12.092	1068.92
13.748	1049.07	12.396	1055.18	12.362	1063.96	12.361	1063.96	12.071	1068.90
13.732	1049.02	12.376	1055.09	12.342	1063.88	12.341	1063.88	12.050	1068.76
13.716	1048.95	12.356	1055.01	12.322	1063.88	12.321	1063.87	12.030	1068.76
13.699	1048.88	12.336	1054.93	12.302	1063.80	12.301	1063.80	12.009	1068.67
13.683	1048.85	12.316	1054.85	12.282	1063.72	12.281	1063.72	11.988	1068.59
13.666	1048.78	12.296	1054.77	12.262	1063.64	12.261	1063.64	11.967	1068.51
13.650	1048.70	12.276	1054.68	12.242	1063.55	12.241	1063.55	11.946	1068.47
13.634	1048.65	12.256	1054.67	12.222	1063.47	12.221	1063.47	11.926	1068.36
13.617	1048.61	12.236	1054.60	12.202	1063.39	12.201	1063.39	11.905	1068.31
13.601	1048.53	12.216	1054.52	12.182	1063.39	12.181	1063.39	11.884	1068.25
13.584	1048.52	12.196	1054.44	12.162	1063.31	12.161	1063.31	11.863	1068.18
13.568	1048.45	12.176	1054.36	12.142	1063.23	12.141	1063.23	11.842	1068.10
13.551	1048.38	12.156	1054.27	12.121	1063.14	12.120	1063.14	11.822	1068.02
13.535	1048.31	12.136	1054.19	12.101	1063.06	12.100	1063.06	11.801	1067.94
13.519	1048.24	12.116	1054.19	12.081	1062.98	12.080	1062.98	11.780	1067.86

13.502	1048.16	12.096	1054.10	12.061	1062.98	12.060	1062.98	11.759	1067.81
13.486	1048.12	12.076	1054.03	12.041	1062.90	12.040	1062.90	11.738	1067.75
13.469	1048.08	12.057	1053.95	12.021	1062.82	12.020	1062.82	11.717	1067.69
13.453	1048.01	12.037	1053.87	12.001	1062.74	12.000	1062.74	11.697	1067.61
13.437	1047.96	12.017	1053.78	11.981	1062.65	11.980	1062.65	11.676	1067.53
13.420	1047.90	11.997	1053.70	11.961	1062.60	11.960	1062.58	11.655	1067.45
13.404	1047.88	11.977	1053.62	11.941	1062.57	11.940	1062.57	11.634	1067.37
13.387	1047.80	11.957	1053.54	11.921	1062.49	11.920	1062.49	11.613	1067.30
13.371	1047.71	11.937	1053.54	11.901	1062.41	11.900	1062.41	11.593	1067.26
13.354	1047.71	11.917	1053.46	11.881	1062.33	11.880	1062.33	11.572	1067.19
13.338	1047.63	11.897	1053.37	11.861	1062.24	11.860	1062.24	11.551	1067.12
13.322	1047.60	11.877	1053.29	11.841	1062.16	11.840	1062.16	11.530	1067.04
13.305	1047.53	11.857	1053.21	11.821	1062.13	11.820	1062.11	11.509	1066.96
13.289	1047.45	11.837	1053.13	11.801	1062.08	11.800	1062.08	11.489	1066.87
13.272	1047.39	11.817	1053.05	11.781	1062.00	11.780	1062.00	11.468	1066.82
13.256	1047.30	11.797	1053.04	11.761	1061.92	11.760	1061.92	11.447	1066.74
13.240	1047.26	11.777	1052.97	11.741	1061.83	11.740	1061.83	11.426	1066.71
13.223	1047.22	11.757	1052.88	11.721	1061.75	11.719	1061.75	11.405	1066.63
13.207	1047.15	11.737	1052.80	11.700	1061.73	11.699	1061.72	11.385	1066.55
13.190	1047.07	11.717	1052.72	11.680	1061.67	11.679	1061.66	11.364	1066.47
13.174	1047.00	11.697	1052.64	11.660	1061.59	11.659	1061.59	11.343	1066.38
13.157	1046.98	11.677	1052.63	11.640	1061.51	11.639	1061.51	11.322	1066.30
13.141	1046.90	11.657	1052.47	11.620	1061.43	11.619	1061.43	11.301	1066.24
13.125	1046.90	11.637	1052.47	11.600	1061.34	11.599	1061.34	11.280	1066.18
13.108	1046.81	11.617	1052.39	11.580	1061.26	11.579	1061.26	11.260	1066.09
13.092	1046.73	11.597	1052.31	11.560	1061.20	11.559	1061.18	11.239	1066.06
13.075	1046.65	11.578	1052.23	11.540	1061.18	11.539	1061.18	11.218	1065.97
13.059	1046.62	11.558	1052.15	11.520	1061.10	11.519	1061.10	11.197	1065.89
13.043	1046.57	11.538	1052.06	11.500	1061.02	11.499	1061.02	11.176	1065.81
13.026	1046.51	11.518	1051.98	11.480	1060.93	11.479	1060.93	11.156	1065.73
13.010	1046.45	11.498	1051.98	11.460	1060.85	11.459	1060.85	11.135	1065.66
12.993	1046.36	11.478	1051.90	11.440	1060.78	11.439	1060.77	11.114	1065.64
12.977	1046.32	11.458	1051.82	11.420	1060.75	11.419	1060.73	11.093	1065.56
12.960	1046.24	11.438	1051.74	11.400	1060.69	11.399	1060.69	11.072	1065.48
12.944	1046.16	11.418	1051.66	11.380	1060.61	11.379	1060.61	11.052	1065.40
12.928	1046.16	11.398	1051.57	11.360	1060.53	11.359	1060.53	11.031	1065.32
12.911	1046.08	11.378	1051.49	11.340	1060.44	11.339	1060.44	11.010	1065.24
12.895	1046.02	11.358	1051.41	11.320	1060.36	11.318	1060.36	10.989	1065.16
12.878	1046.00	11.338	1051.33	11.300	1060.28	11.298	1060.28	10.968	1065.12
12.862	1045.92	11.318	1051.33	11.280	1060.22	11.278	1060.25	10.947	1065.04
12.845	1045.83	11.298	1051.24	11.259	1060.20	11.258	1060.20	10.927	1064.99
12.829	1045.81	11.278	1051.16	11.239	1060.12	11.238	1060.12	10.906	1064.91
12.813	1045.73	11.258	1051.08	11.219	1060.03	11.218	1060.03	10.885	1064.83
12.796	1045.67	11.238	1051.00	11.199	1059.95	11.198	1059.95	10.864	1064.75
12.780	1045.59	11.218	1050.92	11.179	1059.87	11.178	1059.87	10.843	1064.66

12.763	1045.50	11.198	1050.84	11.159	1059.79	11.158	1059.79	10.823	1064.60
12.747	1045.51	11.178	1050.75	11.139	1059.74	11.138	1059.72	10.802	1064.50
12.731	1045.42	11.158	1050.76	11.119	1059.71	11.118	1059.71	10.781	1064.45
12.714	1045.34	11.138	1050.64	11.099	1059.63	11.098	1059.63	10.760	1064.42
12.698	1045.29	11.118	1050.59	11.079	1059.54	11.078	1059.54	10.739	1064.32
12.681	1045.26	11.099	1050.51	11.059	1059.46	11.058	1059.46	10.719	1064.26
12.665	1045.19	11.079	1050.43	11.039	1059.38	11.038	1059.38	10.698	1064.17
12.648	1045.09	11.059	1050.35	11.019	1059.30	11.018	1059.30	10.677	1064.09
12.632	1045.09	11.039	1050.26	10.999	1059.23	10.998	1059.21	10.656	1064.01
12.616	1044.98	11.019	1050.21	10.979	1059.22	10.978	1059.20	10.635	1063.93
12.599	1044.93	10.999	1050.12	10.959	1059.13	10.958	1059.13	10.615	1063.85
12.583	1044.91	10.979	1050.10	10.939	1059.05	10.938	1059.05	10.594	1063.79
12.566	1044.85	10.959	1050.02	10.919	1058.97	10.917	1058.97	10.573	1063.77
12.550	1044.77	10.939	1049.94	10.899	1058.89	10.897	1058.89	10.552	1063.68
12.534	1044.69	10.919	1049.85	10.879	1058.81	10.877	1058.81	10.531	1063.60
12.517	1044.66	10.899	1049.77	10.859	1058.72	10.857	1058.72	10.510	1063.52
12.501	1044.60	10.879	1049.69	10.838	1058.71	10.837	1058.67	10.490	1063.44
12.484	1044.52	10.859	1049.61	10.818	1058.64	10.817	1058.64	10.469	1063.36
12.468	1044.48	10.839	1049.53	10.798	1058.56	10.797	1058.55	10.448	1063.27
12.451	1044.44	10.819	1049.44	10.778	1058.48	10.777	1058.48	10.427	1063.20
12.435	1044.36	10.799	1049.40	10.758	1058.40	10.757	1058.40	10.406	1063.16
12.419	1044.28	10.779	1049.30	10.738	1058.31	10.737	1058.31	10.386	1063.06
12.402	1044.21	10.759	1049.28	10.718	1058.23	10.717	1058.23	10.365	1063.03
12.386	1044.20	10.739	1049.20	10.698	1058.17	10.697	1058.15	10.344	1062.95
12.369	1044.10	10.719	1049.12	10.678	1058.11	10.677	1058.07	10.323	1062.86
12.353	1044.03	10.699	1049.04	10.658	1058.07	10.657	1058.07	10.302	1062.78
12.337	1044.00	10.679	1048.95	10.638	1057.99	10.637	1057.97	10.282	1062.70
12.320	1043.95	10.659	1048.87	10.618	1057.91	10.617	1057.91	10.261	1062.63
12.304	1043.90	10.639	1048.79	10.598	1057.82	10.597	1057.82	10.240	1062.54
12.287	1043.85	10.620	1048.79	10.578	1057.74	10.577	1057.74	10.219	1062.45
12.271	1043.76	10.600	1048.62	10.558	1057.66	10.557	1057.66	10.198	1062.43
12.254	1043.70	10.580	1048.63	10.538	1057.58	10.537	1057.58	10.178	1062.30
12.238	1043.65	10.560	1048.54	10.518	1057.51	10.516	1057.53	10.157	1062.24
12.222	1043.58	10.540	1048.46	10.498	1057.50	10.496	1057.47	10.136	1062.21
12.205	1043.54	10.520	1048.38	10.478	1057.41	10.476	1057.41	10.115	1062.13
12.189	1043.46	10.500	1048.30	10.458	1057.33	10.456	1057.33	10.094	1062.05
12.172	1043.44	10.480	1048.22	10.438	1057.25	10.436	1057.25	10.073	1061.96
12.156	1043.33	10.460	1048.13	10.417	1057.17	10.416	1057.17	10.053	1061.88
12.140	1043.23	10.440	1048.05	10.397	1057.09	10.396	1057.09	10.032	1061.80
12.123	1043.21	10.420	1047.97	10.377	1057.00	10.376	1057.00	10.011	1061.72
12.107	1043.15	10.400	1047.93	10.357	1056.98	10.356	1057.00	9.990	1061.63
12.090	1043.13	10.380	1047.89	10.337	1056.92	10.336	1056.90	9.969	1061.55
12.074	1043.05	10.360	1047.81	10.317	1056.84	10.316	1056.84	9.949	1061.55
12.057	1042.97	10.340	1047.72	10.297	1056.76	10.296	1056.76	9.928	1061.47
12.041	1042.88	10.320	1047.64	10.277	1056.68	10.276	1056.68	9.907	1061.37

12.025	1042.81	10.300	1047.56	10.257	1056.60	10.256	1056.60	9.886	1061.31
12.008	1042.79	10.280	1047.48	10.237	1056.51	10.236	1056.51	9.865	1061.23
11.992	1042.72	10.260	1047.40	10.217	1056.43	10.216	1056.43	9.845	1061.14
11.975	1042.70	10.240	1047.31	10.197	1056.35	10.196	1056.35	9.824	1061.06
11.959	1042.60	10.220	1047.23	10.177	1056.35	10.176	1056.31	9.803	1060.98
11.942	1042.56	10.200	1047.15	10.157	1056.27	10.156	1056.27	9.782	1060.90
11.926	1042.47	10.180	1047.07	10.137	1056.19	10.136	1056.19	9.761	1060.85
11.910	1042.46	10.160	1047.00	10.117	1056.10	10.115	1056.10	9.740	1060.76
11.893	1042.39	10.141	1046.90	10.097	1056.02	10.095	1056.02	9.720	1060.72
11.877	1042.31	10.121	1046.85	10.077	1055.94	10.075	1055.94	9.699	1060.65
11.860	1042.23	10.101	1046.82	10.057	1055.86	10.055	1055.86	9.678	1060.57
11.844	1042.19	10.081	1046.74	10.037	1055.81	10.035	1055.79	9.657	1060.49
11.828	1042.08	10.061	1046.66	10.017	1055.78	10.015	1055.78	9.636	1060.41
11.811	1042.07	10.041	1046.58	9.996	1055.70	9.995	1055.70	9.616	1060.33
11.795	1041.98	10.021	1046.50	9.976	1055.61	9.975	1055.61	9.595	1060.24
11.778	1041.90	10.001	1046.41	9.956	1055.53	9.955	1055.53	9.574	1060.16
11.762	1041.90	9.981	1046.33	9.936	1055.45	9.935	1055.45	9.553	1060.08
11.745	1041.82	9.961	1046.25	9.916	1055.37	9.915	1055.37	9.532	1060.00
11.729	1041.74	9.941	1046.17	9.896	1055.28	9.895	1055.28	9.512	1059.98
11.713	1041.71	9.921	1046.08	9.876	1055.20	9.875	1055.20	9.491	1059.92
11.696	1041.62	9.901	1046.02	9.856	1055.12	9.855	1055.12	9.470	1059.80
11.680	1041.57	9.881	1045.98	9.836	1055.04	9.835	1055.04	9.449	1059.75
11.663	1041.49	9.861	1045.92	9.816	1054.96	9.815	1054.96	9.428	1059.67
11.647	1041.41	9.841	1045.84	9.796	1054.90	9.795	1054.87	9.408	1059.59
11.631	1041.40	9.821	1045.76	9.776	1054.88	9.775	1054.88	9.387	1059.51
11.614	1041.33	9.801	1045.68	9.756	1054.79	9.755	1054.79	9.366	1059.42
11.598	1041.25	9.781	1045.59	9.736	1054.71	9.735	1054.71	9.345	1059.34
11.581	1041.16	9.761	1045.51	9.716	1054.63	9.715	1054.63	9.324	1059.26
11.565	1041.12	9.741	1045.43	9.696	1054.55	9.694	1054.55	9.303	1059.18
11.548	1041.08	9.721	1045.35	9.676	1054.47	9.674	1054.47	9.283	1059.15
11.532	1041.00	9.701	1045.27	9.656	1054.38	9.654	1054.38	9.262	1059.07
11.516	1040.92	9.681	1045.18	9.636	1054.30	9.634	1054.30	9.241	1058.98
11.499	1040.92	9.662	1045.10	9.616	1054.22	9.614	1054.22	9.220	1058.93
11.483	1040.81	9.642	1045.08	9.596	1054.14	9.594	1054.14	9.199	1058.85
11.466	1040.76	9.622	1045.02	9.576	1054.12	9.574	1054.09	9.179	1058.77
11.450	1040.70	9.602	1044.94	9.555	1054.06	9.554	1054.06	9.158	1058.69
11.434	1040.66	9.582	1044.86	9.535	1053.97	9.534	1053.97	9.137	1058.61
11.417	1040.59	9.562	1044.77	9.515	1053.89	9.514	1053.89	9.116	1058.52
11.401	1040.51	9.542	1044.69	9.495	1053.81	9.494	1053.81	9.095	1058.44
11.384	1040.44	9.522	1044.61	9.475	1053.73	9.474	1053.73	9.075	1058.36
11.368	1040.38	9.502	1044.53	9.455	1053.65	9.454	1053.65	9.054	1058.28
11.351	1040.33	9.482	1044.45	9.435	1053.56	9.434	1053.56	9.033	1058.20
11.335	1040.26	9.462	1044.36	9.415	1053.48	9.414	1053.48	9.012	1058.11
11.319	1040.18	9.442	1044.28	9.395	1053.45	9.394	1053.41	8.991	1058.07
11.302	1040.10	9.422	1044.20	9.375	1053.33	9.374	1053.32	8.971	1057.96

11.286	1040.10	9.402	1044.12	9.355	1053.32	9.354	1053.32	8.950	1057.92
11.269	1040.02	9.382	1044.12	9.335	1053.24	9.334	1053.24	8.929	1057.87
11.253	1039.94	9.362	1043.95	9.315	1053.15	9.314	1053.15	8.908	1057.79
11.237	1039.85	9.342	1043.96	9.295	1053.07	9.293	1053.07	8.887	1057.70
11.220	1039.81	9.322	1043.87	9.275	1052.99	9.273	1052.99	8.866	1057.62
11.204	1039.76	9.302	1043.79	9.255	1052.91	9.253	1052.91	8.846	1057.54
11.187	1039.69	9.282	1043.71	9.235	1052.83	9.233	1052.83	8.825	1057.46
11.171	1039.61	9.262	1043.63	9.215	1052.74	9.213	1052.74	8.804	1057.38
11.154	1039.56	9.242	1043.55	9.195	1052.66	9.193	1052.66	8.783	1057.29
11.138	1039.53	9.222	1043.46	9.175	1052.58	9.173	1052.58	8.762	1057.21
11.122	1039.44	9.202	1043.38	9.155	1052.56	9.153	1052.53	8.742	1057.13
11.105	1039.36	9.183	1043.30	9.134	1052.50	9.133	1052.47	8.721	1057.05
11.089	1039.33	9.163	1043.22	9.114	1052.42	9.113	1052.42	8.700	1056.99
11.072	1039.28	9.143	1043.14	9.094	1052.34	9.093	1052.34	8.679	1056.91
11.056	1039.20	9.123	1043.05	9.074	1052.25	9.073	1052.25	8.658	1056.87
11.040	1039.12	9.103	1042.97	9.054	1052.17	9.053	1052.17	8.638	1056.80
11.023	1039.07	9.083	1042.89	9.034	1052.09	9.033	1052.09	8.617	1056.72
11.007	1039.04	9.063	1042.87	9.014	1052.01	9.013	1052.01	8.596	1056.64
10.990	1038.95	9.043	1042.80	8.994	1051.93	8.993	1051.93	8.575	1056.56
10.974	1038.87	9.023	1042.73	8.974	1051.84	8.973	1051.84	8.554	1056.48
10.957	1038.82	9.003	1042.64	8.954	1051.76	8.953	1051.76	8.533	1056.39
10.941	1038.79	8.983	1042.56	8.934	1051.68	8.933	1051.68	8.513	1056.31
10.925	1038.69	8.963	1042.48	8.914	1051.60	8.913	1051.60	8.492	1056.23
10.908	1038.63	8.943	1042.40	8.894	1051.51	8.892	1051.51	8.471	1056.15
10.892	1038.54	8.923	1042.32	8.874	1051.52	8.872	1051.49	8.450	1056.07
10.875	1038.48	8.903	1042.26	8.854	1051.43	8.852	1051.43	8.429	1055.98
10.859	1038.46	8.883	1042.15	8.834	1051.35	8.832	1051.35	8.409	1055.90
10.842	1038.38	8.863	1042.14	8.814	1051.27	8.812	1051.27	8.388	1055.82
10.826	1038.32	8.843	1042.07	8.794	1051.19	8.792	1051.19	8.367	1055.74
10.810	1038.23	8.823	1041.96	8.774	1051.11	8.772	1051.11	8.346	1055.66
10.793	1038.22	8.803	1041.91	8.754	1051.02	8.752	1051.02	8.325	1055.57
10.777	1038.13	8.783	1041.82	8.734	1050.94	8.732	1050.94	8.305	1055.49
10.760	1038.05	8.763	1041.74	8.713	1050.86	8.712	1050.86	8.284	1055.41
10.744	1037.99	8.743	1041.66	8.693	1050.78	8.692	1050.78	8.263	1055.35
10.728	1037.97	8.723	1041.58	8.673	1050.74	8.672	1050.70	8.242	1055.29
10.711	1037.88	8.704	1041.51	8.653	1050.67	8.652	1050.62	8.221	1055.25
10.695	1037.82	8.684	1041.41	8.633	1050.61	8.632	1050.57	8.201	1055.16
10.678	1037.76	8.664	1041.33	8.613	1050.53	8.612	1050.53	8.180	1055.08
10.662	1037.69	8.644	1041.25	8.593	1050.45	8.592	1050.45	8.159	1055.00
10.645	1037.62	8.624	1041.18	8.573	1050.37	8.572	1050.37	8.138	1054.92
10.629	1037.63	8.604	1041.09	8.553	1050.29	8.552	1050.29	8.117	1054.84
10.613	1037.55	8.584	1041.02	8.533	1050.20	8.532	1050.20	8.096	1054.75
10.596	1037.47	8.564	1040.94	8.513	1050.12	8.512	1050.12	8.076	1054.67
10.580	1037.39	8.544	1040.87	8.493	1050.04	8.491	1050.04	8.055	1054.59
10.563	1037.31	8.524	1040.81	8.473	1049.96	8.471	1049.96	8.034	1054.51

10.547	1037.24	8.504	1040.71	8.453	1049.88	8.451	1049.88	8.013	1054.43
10.531	1037.19	8.484	1040.68	8.433	1049.79	8.431	1049.79	7.992	1054.34
10.514	1037.14	8.464	1040.57	8.413	1049.71	8.411	1049.71	7.972	1054.26
10.498	1037.07	8.444	1040.47	8.393	1049.63	8.391	1049.63	7.951	1054.18
10.481	1037.02	8.424	1040.43	8.373	1049.62	8.371	1049.59	7.930	1054.10
10.465	1036.90	8.404	1040.35	8.353	1049.55	8.351	1049.55	7.909	1054.02
10.448	1036.88	8.384	1040.25	8.333	1049.47	8.331	1049.46	7.888	1053.93
10.432	1036.81	8.364	1040.14	8.313	1049.38	8.311	1049.38	7.868	1053.85
10.416	1036.74	8.344	1040.03	8.292	1049.30	8.291	1049.30	7.847	1053.77
10.399	1036.72	8.324	1040.02	8.272	1049.23	8.271	1049.22	7.826	1053.69
10.383	1036.62	8.304	1039.90	8.252	1049.14	8.251	1049.14	7.805	1053.61
10.366	1036.58	8.284	1039.84	8.232	1049.06	8.231	1049.06	7.784	1053.52
10.350	1036.47	8.264	1039.77	8.212	1048.99	8.211	1048.97	7.764	1053.44
10.334	1036.41	8.244	1039.67	8.192	1048.98	8.191	1048.98	7.743	1053.40
10.317	1036.36	8.225	1039.59	8.172	1048.86	8.171	1048.85	7.722	1053.28
10.301	1036.33	8.205	1039.44	8.152	1048.81	8.151	1048.81	7.701	1053.27
10.284	1036.25	8.185	1039.36	8.132	1048.71	8.131	1048.70	7.680	1053.20
10.268	1036.20	8.165	1039.30	8.112	1048.65	8.111	1048.65	7.659	1053.11
10.251	1036.08	8.145	1039.22	8.092	1048.57	8.090	1048.57	7.639	1053.03
10.235	1036.09	8.125	1039.19	8.072	1048.51	8.070	1048.50	7.618	1052.91
10.219	1036.01	8.105	1039.09	8.052	1048.43	8.050	1048.42	7.597	1052.87
10.202	1035.95	8.085	1039.01	8.032	1048.32	8.030	1048.32	7.576	1052.79
10.186	1035.85	8.065	1038.92	8.012	1048.26	8.010	1048.25	7.555	1052.71
10.169	1035.78	8.045	1038.82	7.992	1048.18	7.990	1048.16	7.535	1052.62
10.153	1035.75	8.025	1038.70	7.972	1048.11	7.970	1048.10	7.514	1052.54
10.137	1035.66	8.005	1038.65	7.952	1048.02	7.950	1048.01	7.493	1052.46
10.120	1035.59	7.985	1038.55	7.932	1047.97	7.930	1047.96	7.472	1052.38
10.104	1035.58	7.965	1038.46	7.912	1047.91	7.910	1047.91	7.451	1052.30
10.087	1035.51	7.945	1038.38	7.892	1047.83	7.890	1047.83	7.431	1052.21
10.071	1035.47	7.925	1038.29	7.871	1047.75	7.870	1047.75	7.410	1052.13
10.054	1035.39	7.905	1038.25	7.851	1047.67	7.850	1047.66	7.389	1052.05
10.038	1035.31	7.885	1038.15	7.831	1047.58	7.830	1047.58	7.368	1051.97
10.022	1035.22	7.865	1038.08	7.811	1047.50	7.810	1047.50	7.347	1051.88
10.005	1035.18	7.845	1037.97	7.791	1047.42	7.790	1047.42	7.326	1051.80
9.989	1035.10	7.825	1037.88	7.771	1047.34	7.770	1047.34	7.306	1051.72
9.972	1035.02	7.805	1037.80	7.751	1047.25	7.750	1047.25	7.285	1051.64
9.956	1034.97	7.785	1037.72	7.731	1047.17	7.730	1047.17	7.264	1051.56
9.939	1034.88	7.765	1037.64	7.711	1047.10	7.710	1047.09	7.243	1051.47
9.923	1034.86	7.746	1037.56	7.691	1047.03	7.689	1047.02	7.222	1051.39
9.907	1034.77	7.726	1037.47	7.671	1046.93	7.669	1046.93	7.202	1051.31
9.890	1034.72	7.706	1037.39	7.651	1046.89	7.649	1046.88	7.181	1051.23
9.874	1034.63	7.686	1037.31	7.631	1046.77	7.629	1046.76	7.160	1051.15
9.857	1034.61	7.666	1037.23	7.611	1046.72	7.609	1046.70	7.139	1051.06
9.841	1034.53	7.646	1037.15	7.591	1046.62	7.589	1046.61	7.118	1050.98
9.825	1034.48	7.626	1037.06	7.571	1046.58	7.569	1046.55	7.098	1050.90

9.808	1034.37	7.606	1036.98	7.551	1046.52	7.549	1046.52	7.077	1050.82
9.792	1034.36	7.586	1036.90	7.531	1046.40	7.529	1046.38	7.056	1050.74
9.775	1034.28	7.566	1036.82	7.511	1046.33	7.509	1046.32	7.035	1050.65
9.759	1034.22	7.546	1036.74	7.491	1046.27	7.489	1046.27	7.014	1050.57
9.742	1034.12	7.526	1036.65	7.471	1046.19	7.469	1046.19	6.994	1050.49
9.726	1034.11	7.506	1036.57	7.451	1046.11	7.449	1046.11	6.973	1050.41
9.710	1034.01	7.486	1036.49	7.430	1046.02	7.429	1046.02	6.952	1050.33
9.693	1033.92	7.466	1036.41	7.410	1045.94	7.409	1045.94	6.931	1050.24
9.677	1033.85	7.446	1036.32	7.390	1045.86	7.389	1045.86	6.910	1050.16
9.660	1033.82	7.426	1036.24	7.370	1045.78	7.369	1045.78	6.889	1050.08
9.644	1033.74	7.406	1036.16	7.350	1045.70	7.349	1045.70	6.869	1050.00
9.628	1033.71	7.386	1036.06	7.330	1045.61	7.329	1045.61	6.848	1049.92
9.611	1033.63	7.366	1036.00	7.310	1045.53	7.309	1045.53	6.827	1049.83
9.595	1033.57	7.346	1035.91	7.290	1045.45	7.288	1045.45	6.806	1049.75
9.578	1033.47	7.326	1035.83	7.270	1045.37	7.268	1045.37	6.785	1049.67
9.562	1033.39	7.306	1035.76	7.250	1045.29	7.248	1045.29	6.765	1049.59
9.545	1033.35	7.286	1035.67	7.230	1045.20	7.228	1045.20	6.744	1049.51
9.529	1033.27	7.267	1035.59	7.210	1045.12	7.208	1045.12	6.723	1049.42
9.513	1033.22	7.247	1035.50	7.190	1045.04	7.188	1045.04	6.702	1049.34
9.496	1033.13	7.227	1035.42	7.170	1044.96	7.168	1044.96	6.681	1049.28
9.480	1033.11	7.207	1035.34	7.150	1044.88	7.148	1044.88	6.661	1049.22
9.463	1033.03	7.187	1035.26	7.130	1044.79	7.128	1044.79	6.640	1049.18
9.447	1032.95	7.167	1035.18	7.110	1044.71	7.108	1044.71	6.619	1049.10
9.431	1032.89	7.147	1035.09	7.090	1044.63	7.088	1044.63	6.598	1049.09
9.414	1032.81	7.127	1035.01	7.070	1044.55	7.068	1044.55	6.577	1048.99
9.398	1032.73	7.107	1034.93	7.050	1044.46	7.048	1044.46	6.557	1048.91
9.381	1032.72	7.087	1034.85	7.030	1044.38	7.028	1044.38	6.536	1048.85
9.365	1032.65	7.067	1034.77	7.009	1044.30	7.008	1044.30	6.515	1048.77
9.348	1032.56	7.047	1034.68	6.989	1044.22	6.988	1044.22	6.494	1048.69
9.332	1032.52	7.027	1034.60	6.969	1044.14	6.968	1044.14	6.473	1048.61
9.316	1032.44	7.007	1034.52	6.949	1044.05	6.948	1044.05	6.452	1048.53
9.299	1032.35	6.987	1034.44	6.929	1043.97	6.928	1043.97	6.432	1048.44
9.283	1032.29	6.967	1034.36	6.909	1043.89	6.908	1043.89	6.411	1048.36
9.266	1032.23	6.947	1034.27	6.889	1043.81	6.887	1043.81	6.390	1048.28
9.250	1032.15	6.927	1034.19	6.869	1043.73	6.867	1043.73	6.369	1048.21
9.234	1032.11	6.907	1034.11	6.849	1043.64	6.847	1043.64	6.348	1048.12
9.217	1032.01	6.887	1033.99	6.829	1043.56	6.827	1043.56	6.328	1048.03
9.201	1031.99	6.867	1033.95	6.809	1043.48	6.807	1043.47	6.307	1048.01
9.184	1031.90	6.847	1033.86	6.789	1043.40	6.787	1043.40	6.286	1047.91
9.168	1031.82	6.827	1033.61	6.769	1043.32	6.767	1043.32	6.265	1047.86
9.151	1031.74	6.807	1033.53	6.749	1043.23	6.747	1043.23	6.244	1047.73
9.135	1031.70	6.788	1033.47	6.729	1043.15	6.727	1043.13	6.224	1047.69
9.119	1031.66	6.768	1033.37	6.709	1043.07	6.707	1043.07	6.203	1047.58
9.102	1031.57	6.748	1033.31	6.689	1042.99	6.687	1042.99	6.182	1047.54
9.086	1031.49	6.728	1033.20	6.669	1042.83	6.667	1042.82	6.161	1047.46

9.069	1031.46	6.708	1033.12	6.649	1042.74	6.647	1042.74	6.140	1047.37
9.053	1031.33	6.688	1033.09	6.629	1042.66	6.627	1042.66	6.119	1047.29
9.036	1031.32	6.668	1032.98	6.609	1042.58	6.607	1042.58	6.099	1047.20
9.020	1031.23	6.648	1032.96	6.588	1042.49	6.587	1042.49	6.078	1047.09
9.004	1031.16	6.628	1032.85	6.568	1042.41	6.567	1042.41	6.057	1047.02
8.987	1031.08	6.608	1032.76	6.548	1042.33	6.547	1042.33	6.036	1046.94
8.971	1031.00	6.588	1032.69	6.528	1042.25	6.527	1042.25	6.015	1046.89
8.954	1031.00	6.568	1032.62	6.508	1042.17	6.507	1042.17	5.995	1046.81
8.938	1030.93	6.548	1032.55	6.488	1042.08	6.486	1042.08	5.974	1046.73
8.922	1030.83	6.528	1032.47	6.468	1042.00	6.466	1042.00	5.953	1046.63
8.905	1030.76	6.508	1032.39	6.448	1041.92	6.446	1041.92	5.932	1046.57
8.889	1030.75	6.488	1032.30	6.428	1041.84	6.426	1041.84	5.911	1046.52
8.872	1030.66	6.468	1032.22	6.408	1041.75	6.406	1041.76	5.891	1046.46
8.856	1030.57	6.448	1032.14	6.388	1041.67	6.386	1041.67	5.870	1046.35
8.839	1030.51	6.428	1032.06	6.368	1041.59	6.366	1041.59	5.849	1046.28
8.823	1030.48	6.408	1031.97	6.348	1041.51	6.346	1041.51	5.828	1046.23
8.807	1030.39	6.388	1031.86	6.328	1041.49	6.326	1041.48	5.807	1046.16
8.790	1030.30	6.368	1031.81	6.308	1041.38	6.306	1041.35	5.787	1046.07
8.774	1030.26	6.348	1031.69	6.288	1041.35	6.286	1041.35	5.766	1045.97
8.757	1030.19	6.328	1031.64	6.268	1041.26	6.266	1041.25	5.745	1045.89
8.741	1030.10	6.309	1031.53	6.248	1041.18	6.246	1041.18	5.724	1045.81
8.725	1030.09	6.289	1031.48	6.228	1041.10	6.226	1041.10	5.703	1045.71
8.708	1029.99	6.269	1031.40	6.208	1041.03	6.206	1041.02	5.682	1045.64
8.692	1029.94	6.249	1031.31	6.188	1040.95	6.186	1040.94	5.662	1045.56
8.675	1029.89	6.229	1031.24	6.167	1040.85	6.166	1040.85	5.641	1045.48
8.659	1029.79	6.209	1031.18	6.147	1040.82	6.146	1040.81	5.620	1045.40
8.642	1029.77	6.189	1031.07	6.127	1040.69	6.126	1040.69	5.599	1045.31
8.626	1029.68	6.169	1030.99	6.107	1040.66	6.106	1040.64	5.578	1045.25
8.610	1029.61	6.149	1030.92	6.087	1040.56	6.086	1040.54	5.558	1045.18
8.593	1029.57	6.129	1030.84	6.067	1040.53	6.065	1040.53	5.537	1045.13
8.577	1029.47	6.109	1030.70	6.047	1040.36	6.045	1040.36	5.516	1045.06
8.560	1029.44	6.089	1030.62	6.027	1040.35	6.025	1040.35	5.495	1044.95
8.544	1029.34	6.069	1030.58	6.007	1040.26	6.005	1040.24	5.474	1044.85
8.528	1029.28	6.049	1030.52	5.987	1040.20	5.985	1040.20	5.454	1044.76
8.511	1029.22	6.029	1030.42	5.967	1040.12	5.965	1040.12	5.433	1044.70
8.495	1029.20	6.009	1030.33	5.947	1040.01	5.945	1040.00	5.412	1044.64
8.478	1029.10	5.989	1030.25	5.927	1039.94	5.925	1039.94	5.391	1044.57
8.462	1029.03	5.969	1030.19	5.907	1039.88	5.905	1039.87	5.370	1044.48
8.445	1028.96	5.949	1030.09	5.887	1039.82	5.885	1039.81	5.350	1044.39
8.429	1028.87	5.929	1030.04	5.867	1039.75	5.865	1039.74	5.329	1044.31
8.413	1028.84	5.909	1029.96	5.847	1039.66	5.845	1039.65	5.308	1044.26
8.396	1028.73	5.889	1029.86	5.827	1039.55	5.825	1039.54	5.287	1044.20
8.380	1028.66	5.869	1029.76	5.807	1039.51	5.805	1039.50	5.266	1044.10
8.363	1028.62	5.849	1029.71	5.787	1039.41	5.785	1039.40	5.245	1044.00
8.347	1028.55	5.830	1029.64	5.767	1039.34	5.765	1039.32	5.225	1043.90

8.331	1028.46	5.810	1029.55	5.747	1039.21	5.745	1039.22	5.204	1043.80
8.314	1028.41	5.790	1029.42	5.726	1039.17	5.725	1039.16	5.183	1043.71
8.298	1028.38	5.770	1029.37	5.706	1039.05	5.705	1039.05	5.162	1043.65
8.281	1028.26	5.750	1029.27	5.686	1039.04	5.685	1039.04	5.141	1043.58
8.265	1028.21	5.730	1029.21	5.666	1038.97	5.664	1038.96	5.121	1043.52
8.248	1028.13	5.710	1029.11	5.646	1038.86	5.644	1038.85	5.100	1043.46
8.232	1028.07	5.690	1029.02	5.626	1038.76	5.624	1038.75	5.079	1043.37
8.216	1028.02	5.670	1028.93	5.606	1038.72	5.604	1038.72	5.058	1043.28
8.199	1027.94	5.650	1028.85	5.586	1038.69	5.584	1038.68	5.037	1043.18
8.183	1027.87	5.630	1028.79	5.566	1038.61	5.564	1038.60	5.017	1043.08
8.166	1027.81	5.610	1028.69	5.546	1038.49	5.544	1038.48	4.996	1042.98
8.150	1027.69	5.590	1028.64	5.526	1038.41	5.524	1038.40	4.975	1042.91
8.133	1027.64	5.570	1028.57	5.506	1038.33	5.504	1038.32	4.954	1042.85
8.117	1027.56	5.550	1028.45	5.486	1038.22	5.484	1038.21	4.933	1042.79
8.101	1027.48	5.530	1028.37	5.466	1038.12	5.464	1038.11	4.912	1042.64
8.084	1027.43	5.510	1028.26	5.446	1038.04	5.444	1038.04	4.892	1042.56
8.068	1027.39	5.490	1028.20	5.426	1037.99	5.424	1037.99	4.871	1042.46
8.051	1027.32	5.470	1028.18	5.406	1037.95	5.404	1037.94	4.850	1042.38
8.035	1027.22	5.450	1028.05	5.386	1037.86	5.384	1037.85	4.829	1042.21
8.019	1027.15	5.430	1027.95	5.366	1037.74	5.364	1037.74	4.808	1041.88
8.002	1027.13	5.410	1027.92	5.346	1037.66	5.344	1037.66	4.788	1041.64
7.986	1027.06	5.390	1027.84	5.326	1037.49	5.324	1037.49	4.767	1041.55
7.969	1026.98	5.370	1027.75	5.305	1037.41	5.304	1037.41	4.746	1041.49
7.953	1026.92	5.350	1027.63	5.285	1037.24	5.284	1037.24	4.725	1041.43
7.936	1026.85	5.331	1027.52	5.265	1037.16	5.263	1037.16	4.704	1041.39
7.920	1026.75	5.311	1027.45	5.245	1037.08	5.243	1037.04	4.684	1041.29
7.904	1026.63	5.291	1027.38	5.225	1037.00	5.223	1036.96	4.663	1041.21
7.887	1026.57	5.271	1027.31	5.205	1036.91	5.203	1036.89	4.642	1041.11
7.871	1026.49	5.251	1027.24	5.185	1036.81	5.183	1036.79	4.621	1041.00
7.854	1026.49	5.231	1027.16	5.165	1036.73	5.163	1036.70	4.600	1040.97
7.838	1026.36	5.211	1027.09	5.145	1036.67	5.143	1036.66	4.580	1040.87
7.822	1026.33	5.191	1027.00	5.125	1036.54	5.123	1036.52	4.559	1040.76
7.805	1026.27	5.171	1026.91	5.105	1036.46	5.103	1036.43	4.538	1040.73
7.789	1026.19	5.151	1026.75	5.085	1036.42	5.083	1036.40	4.517	1040.64
7.772	1026.11	5.131	1026.66	5.065	1036.29	5.063	1036.27	4.496	1040.57
7.756	1026.00	5.111	1026.58	5.045	1036.26	5.043	1036.26	4.475	1040.48
7.739	1025.92	5.091	1026.51	5.025	1036.09	5.023	1036.09	4.455	1040.38
7.723	1025.92	5.071	1026.44	5.005	1036.06	5.003	1036.03	4.434	1040.27
7.707	1025.83	5.051	1026.35	4.985	1035.94	4.983	1035.93	4.413	1040.23
7.690	1025.71	5.031	1026.27	4.965	1035.88	4.963	1035.86	4.392	1040.11
7.674	1025.67	5.011	1026.20	4.945	1035.81	4.943	1035.78	4.371	1040.07
7.657	1025.63	4.991	1026.10	4.925	1035.74	4.923	1035.72	4.351	1039.94
7.641	1025.49	4.971	1025.99	4.905	1035.60	4.903	1035.60	4.330	1039.90
7.625	1025.42	4.951	1025.96	4.884	1035.52	4.883	1035.52	4.309	1039.76
7.608	1025.40	4.931	1025.81	4.864	1035.46	4.862	1035.45	4.288	1039.66

7.592	1025.31	4.911	1025.74	4.844	1035.42	4.842	1035.40	4.267	1039.58
7.575	1025.25	4.891	1025.67	4.824	1035.29	4.822	1035.27	4.247	1039.50
7.559	1025.16	4.871	1025.59	4.804	1035.23	4.802	1035.21	4.226	1039.42
7.542	1025.06	4.852	1025.50	4.784	1035.13	4.782	1035.12	4.205	1039.33
7.526	1025.01	4.832	1025.43	4.764	1035.03	4.762	1035.03	4.184	1039.26
7.510	1024.94	4.812	1025.30	4.744	1034.96	4.742	1034.94	4.163	1039.17
7.493	1024.85	4.792	1025.19	4.724	1034.86	4.722	1034.86	4.143	1039.09
7.477	1024.76	4.772	1025.10	4.704	1034.78	4.702	1034.78	4.122	1038.99
7.460	1024.68	4.752	1025.03	4.684	1034.70	4.682	1034.70	4.101	1038.86
7.444	1024.61	4.732	1024.96	4.664	1034.62	4.662	1034.62	4.080	1038.81
7.428	1024.57	4.712	1024.88	4.644	1034.54	4.642	1034.53	4.059	1038.74
7.411	1024.52	4.692	1024.79	4.624	1034.44	4.622	1034.43	4.038	1038.59
7.395	1024.44	4.672	1024.71	4.604	1034.37	4.602	1034.37	4.018	1038.51
7.378	1024.35	4.652	1024.63	4.584	1034.24	4.582	1034.23	3.997	1038.43
7.362	1024.27	4.632	1024.55	4.564	1034.21	4.562	1034.21	3.976	1038.35
7.345	1024.18	4.612	1024.42	4.544	1034.12	4.542	1034.11	3.955	1038.26
7.329	1024.11	4.592	1024.30	4.524	1034.02	4.522	1034.00	3.934	1038.18
7.313	1024.03	4.572	1024.22	4.504	1033.88	4.502	1033.88	3.914	1038.07
7.296	1023.96	4.552	1024.18	4.484	1033.80	4.482	1033.80	3.893	1037.77
7.280	1023.86	4.532	1024.12	4.463	1033.71	4.461	1033.71	3.872	1037.67
7.263	1023.78	4.512	1023.96	4.443	1033.63	4.441	1033.63	3.851	1037.52
7.247	1023.74	4.492	1023.86	4.423	1033.55	4.421	1033.55	3.830	1037.65
7.230	1023.70	4.472	1023.77	4.403	1033.49	4.401	1033.47	3.810	1037.53
7.214	1023.60	4.452	1023.67	4.383	1033.39	4.381	1033.39	3.789	1037.45
7.198	1023.49	4.432	1023.58	4.363	1033.29	4.361	1033.28	3.768	1037.36
7.181	1023.45	4.412	1023.50	4.343	1033.22	4.341	1033.22	3.747	1037.28
7.165	1023.36	4.392	1023.44	4.323	1033.14	4.321	1033.14	3.726	1037.20
7.148	1023.27	4.373	1023.39	4.303	1033.06	4.301	1033.04	3.705	1037.12
7.132	1023.20	4.353	1023.30	4.283	1032.98	4.281	1032.98	3.685	1037.03
7.116	1023.12	4.333	1023.20	4.263	1032.84	4.261	1032.82	3.664	1036.95
7.099	1023.04	4.313	1023.09	4.243	1032.73	4.241	1032.73	3.643	1036.87
7.083	1022.96	4.293	1022.99	4.223	1032.65	4.221	1032.65	3.622	1036.79
7.066	1022.88	4.273	1022.87	4.203	1032.56	4.201	1032.56	3.601	1036.71
7.050	1022.77	4.253	1022.78	4.183	1032.48	4.181	1032.48	3.581	1036.56
7.033	1022.71	4.233	1022.70	4.163	1032.40	4.161	1032.38	3.560	1036.53
7.017	1022.63	4.213	1022.56	4.143	1032.32	4.141	1032.32	3.539	1036.44
7.001	1022.55	4.193	1022.52	4.123	1032.24	4.121	1032.24	3.518	1036.37
6.984	1022.46	4.173	1022.39	4.103	1032.09	4.101	1032.07	3.497	1036.24
6.968	1022.38	4.153	1022.33	4.083	1032.07	4.081	1032.04	3.477	1036.18
6.951	1022.30	4.133	1022.19	4.063	1031.91	4.060	1031.91	3.456	1036.13
6.935	1022.22	4.113	1022.12	4.042	1031.82	4.040	1031.82	3.435	1036.05
6.919	1022.13	4.093	1022.00	4.022	1031.74	4.020	1031.74	3.414	1035.95
6.902	1022.05	4.073	1021.91	4.002	1031.66	4.000	1031.66	3.393	1035.84
6.886	1021.97	4.053	1021.80	3.982	1031.58	3.980	1031.58	3.373	1035.77
6.869	1021.89	2.013	53.66	3.962	1031.50	3.960	1031.50	3.352	1035.64

6.853	1021.81	2.003	53.10	3.942	1031.41	3.940	1031.40	3.331	1035.59
6.836	1021.72	1.993	52.77	3.922	1031.33	3.920	1031.30	3.310	1035.50
6.820	1021.67	1.984	52.49	3.902	1031.17	3.900	1031.17	3.289	1035.39
6.804	1021.63	1.974	52.15	3.882	1031.04	3.880	1031.03	3.268	1035.31
6.787	1021.54	1.964	51.81	3.862	1031.00	3.860	1031.00	3.248	1035.25
6.771	1021.46	1.955	51.49	3.842	1030.79	3.840	1030.89	3.227	1035.15
6.754	1021.40	1.945	51.17	3.822	1030.79	3.820	1030.75	3.206	1035.06
6.738	1021.31	1.936	50.84	3.802	1030.75	3.800	1030.70	3.185	1034.98
6.722	1021.23	1.926	50.47	3.782	1030.66	3.780	1030.59	3.164	1034.90
6.705	1021.18	1.916	50.09	3.762	1030.54	3.760	1030.54	3.144	1034.76
6.689	1021.07	1.907	49.78	3.742	1030.43	3.740	1030.34	3.123	1034.73
6.672	1020.99	1.897	49.47	3.722	1030.34	3.720	1030.34	3.102	1034.57
6.656	1020.90	1.888	49.16	3.702	1030.26	3.700	1030.19	3.081	1034.49
6.639	1020.90	1.878	48.85	3.682	1030.18	3.680	1030.18	3.060	1034.35
6.623	1020.82	1.868	48.54	3.662	1030.10	3.659	1030.10	3.040	1034.32
6.607	1020.74	1.859	48.19	3.642	1030.02	3.639	1030.02	3.019	1034.16
6.590	1020.66	1.849	47.84	3.622	1029.93	3.619	1029.93	2.998	1034.08
6.574	1020.60	1.840	47.54	3.601	1029.85	3.599	1029.85	2.977	1033.99
6.557	1020.49	1.830	47.23	3.581	1029.77	3.579	1029.77	2.956	1033.88
6.541	1020.41	1.820	46.92	3.561	1029.62	3.559	1029.60	2.936	1033.76
6.525	1020.37	1.811	46.61	3.541	1029.59	3.539	1029.56	2.915	1033.67
6.508	1020.33	1.801	46.31	3.521	1029.46	3.519	1029.44	2.894	1033.58
6.492	1020.25	1.791	46.05	3.501	1029.42	3.499	1029.41	2.873	1033.50
6.475	1020.16	1.782	45.74	3.481	1029.32	3.479	1029.31	2.852	1033.42
6.459	1020.12	1.772	45.39	3.461	1029.24	3.459	1029.23	2.831	1033.34
6.442	1020.06	1.763	45.09	3.441	1029.15	3.439	1029.14	2.811	1033.25
6.426	1019.93	1.753	44.79	3.421	1029.06	3.419	1029.05	2.790	1033.16
6.410	1019.83	1.743	44.49	3.401	1028.95	3.399	1028.95	2.769	1033.08
6.393	1019.84	1.734	44.21	3.381	1028.85	3.379	1028.84	2.748	1033.00
6.377	1019.74	1.724	43.95	3.361	1028.77	3.359	1028.75	2.727	1032.93
6.360	1019.67	1.715	43.61	3.341	1028.68	3.339	1028.67	2.707	1032.85
6.344	1019.61	1.705	43.28	3.321	1028.57	3.319	1028.56	2.686	1032.68
6.327	1019.55	1.695	42.98	3.301	1028.52	3.299	1028.51	2.665	1032.60
6.311	1019.49	1.686	42.73	3.281	1028.39	3.279	1028.37	2.644	1032.52
6.295	1019.42	1.676	42.48	3.261	1028.29	3.258	1028.29	2.623	1032.43
6.278	1019.34	1.667	42.18	3.241	1028.25	3.238	1028.24	2.603	1032.35
6.262	1019.26	1.657	41.88	3.221	1028.17	3.218	1028.16	2.582	1032.27
6.245	1019.18	1.647	41.56	3.201	1028.06	3.198	1028.04	2.561	1032.19
6.229	1019.14	1.638	41.25	3.180	1027.93	3.178	1027.90	2.540	1032.10
6.213	1019.01	1.628	40.96	3.160	1027.88	3.158	1027.84	2.519	1031.94
6.196	1018.94	1.618	40.67	3.140	1027.79	3.138	1027.78	2.498	1031.87
6.180	1018.89	1.609	40.38	3.120	1027.63	3.118	1027.63	2.478	1031.78
6.163	1018.84	1.599	40.10	3.100	1027.55	3.098	1027.54	2.457	1031.69
6.147	1018.77	1.590	39.82	3.080	1027.47	3.078	1027.47	2.436	1031.55
6.130	1018.70	1.580	39.58	3.060	1027.36	3.058	1027.33	2.415	1031.45

6.114	1018.60	1.570	39.31	3.040	1027.23	3.038	1027.22	2.394	1031.36
6.098	1018.56	1.561	38.97	3.020	1027.14	3.018	1027.14	2.374	1031.28
6.081	1018.50	1.551	38.67	3.000	1026.96	2.998	1026.91	2.353	1031.18
6.065	1018.45	1.542	38.40	2.980	1026.86	2.978	1026.89	2.332	1031.12
6.048	1018.36	1.532	38.14	1.980	52.54	1.980	52.54	1.972	52.46
6.032	1018.28	1.522	37.90	1.967	52.04	1.967	52.04	1.959	52.01
6.016	1018.24	1.513	37.58	1.954	51.63	1.954	51.63	1.947	51.54
5.999	1018.13	1.503	37.26	1.942	51.25	1.942	51.25	1.934	51.28
5.983	1018.08	1.494	36.97	1.929	50.80	1.929	50.80	1.921	50.77
5.966	1018.03	1.484	36.72	1.917	50.42	1.917	50.42	1.909	50.28
5.950	1017.94	1.474	36.53	1.904	49.95	1.904	49.95	1.896	49.89
5.933	1017.86	1.465	36.27	1.891	49.54	1.891	49.54	1.884	49.41
5.917	1017.81	1.455	35.97	1.879	49.11	1.879	49.11	1.871	49.05
5.901	1017.75	1.445	35.67	1.866	48.70	1.866	48.70	1.859	48.76
5.884	1017.66	1.436	35.36	1.854	48.31	1.854	48.31	1.846	48.27
5.868	1017.58	1.426	35.10	1.841	47.85	1.841	47.85	1.834	47.83
5.851	1017.50	1.417	34.84	1.828	47.48	1.828	47.48	1.821	47.36
5.835	1017.41	1.407	34.57	1.816	47.01	1.816	47.01	1.808	46.93
5.819	1017.35	1.397	34.29	1.803	46.66	1.803	46.66	1.796	46.54
5.802	1017.30	1.388	34.05	1.790	46.22	1.790	46.22	1.783	46.13
5.786	1017.23	1.378	33.82	1.778	45.80	1.778	45.80	1.771	45.73
5.769	1017.15	1.369	33.54	1.765	45.39	1.765	45.39	1.758	45.36
5.753	1017.06	1.359	33.27	1.753	44.99	1.753	44.99	1.746	44.95
5.736	1016.97	1.349	33.00	1.740	44.60	1.740	44.60	1.733	44.54
5.720	1016.89	1.340	32.74	1.727	44.20	1.727	44.20	1.720	44.13
5.704	1016.85	1.330	32.49	1.715	43.84	1.715	43.84	1.708	43.74
5.687	1016.81	1.321	32.19	1.702	43.45	1.702	43.45	1.695	43.38
5.671	1016.73	1.311	31.89	1.690	43.03	1.690	43.03	1.683	42.97
5.654	1016.65	1.301	31.62	1.677	42.65	1.677	42.65	1.670	42.55
5.638	1016.58	1.292	31.34	1.664	42.27	1.664	42.27	1.658	42.17
5.622	1016.47	1.282	31.07	1.652	41.87	1.652	41.87	1.645	41.82
5.605	1016.30	1.272	30.81	1.639	41.50	1.639	41.50	1.633	41.41
5.589	1016.22	1.263	30.54	1.626	41.12	1.626	41.12	1.620	41.01
5.572	1016.19	1.253	30.27	1.614	40.73	1.614	40.73	1.607	40.67
5.556	1016.06	1.244	30.05	1.601	40.36	1.601	40.36	1.595	40.33
5.539	1015.99	1.234	29.83	1.589	40.01	1.589	40.01	1.582	39.94
5.523	1015.89	1.224	29.62	1.576	39.59	1.576	39.59	1.570	39.53
5.507	1015.82	1.215	29.38	1.563	39.22	1.563	39.22	1.557	39.19
5.490	1015.73	1.205	29.10	1.551	38.92	1.551	38.92	1.545	38.84
5.474	1015.70	1.196	28.83	1.538	38.48	1.538	38.48	1.532	38.43
5.457	1015.60	1.186	28.58	1.526	38.11	1.526	38.11	1.519	38.04
5.441	1015.57	1.176	28.33	1.513	37.73	1.513	37.73	1.507	37.66
5.424	1015.44	1.167	28.08	1.500	37.43	1.500	37.43	1.494	37.28
5.408	1015.35	1.157	27.77	1.488	37.06	1.488	37.06	1.482	36.94
5.392	1015.32	1.148	27.46	1.475	36.62	1.475	36.62	1.469	36.63

5.375	1015.26	1.138	27.29	1.462	36.32	1.462	36.32	1.457	36.27
5.359	1015.15	1.128	27.08	1.450	35.99	1.450	35.99	1.444	35.85
5.342	1015.10	1.119	26.76	1.437	35.53	1.437	35.53	1.432	35.49
5.326	1015.01	1.109	26.48	1.425	35.16	1.425	35.16	1.419	35.16
5.310	1014.91	1.099	26.23	1.412	34.90	1.412	34.90	1.406	34.80
5.293	1014.80	1.090	25.99	1.399	34.44	1.399	34.44	1.394	34.43
5.277	1014.74	1.080	25.76	1.387	34.08	1.387	34.08	1.381	34.13
5.260	1014.67	1.071	25.51	1.374	33.73	1.374	33.73	1.369	33.78
5.244	1014.58	1.061	25.25	1.362	33.46	1.362	33.46	1.356	33.40
2.040	53.25	1.051	25.00	1.349	33.10	1.349	33.10	1.344	33.03
2.021	52.47	1.042	24.74	1.336	32.66	1.336	32.66	1.331	32.68
2.001	51.91	1.032	24.50	1.324	32.38	1.324	32.38	1.318	32.35
1.981	51.19	1.023	24.29	1.311	32.03	1.311	32.03	1.306	32.01
1.962	50.60	1.013	24.07	1.298	31.68	1.298	31.68	1.293	31.66
1.942	49.90	1.003	23.85	1.286	31.33	1.286	31.33	1.281	31.32
1.923	49.23	0.994	23.56	1.273	30.99	1.273	30.99	1.268	30.96
1.903	48.60	0.984	23.27	1.261	30.64	1.261	30.64	1.256	30.65
1.883	48.07	0.975	23.02	1.248	30.28	1.248	30.28	1.243	30.31
1.864	47.35	0.965	22.77	1.235	29.96	1.235	29.96	1.231	29.98
1.844	46.80	0.955	22.54	1.223	29.61	1.223	29.61	1.218	29.61
1.825	46.15	0.946	22.31	1.210	29.35	1.210	29.35	1.205	29.24
1.805	45.52	0.936	22.06	1.198	28.93	1.198	28.93	1.193	28.87
1.785	44.94	0.927	21.81	1.185	28.58	1.185	28.58	1.180	28.54
1.766	44.36	0.917	21.56	1.172	28.26	1.172	28.26	1.168	28.34
1.746	43.78	0.907	21.32	1.160	27.93	1.160	27.93	1.155	27.96
1.727	43.17	0.898	21.09	1.147	27.57	1.147	27.57	1.143	27.57
1.707	42.52	0.888	20.90	1.134	27.24	1.134	27.24	1.130	27.18
1.688	42.00	0.878	20.70	1.122	26.89	1.122	26.89	1.118	26.82
1.668	41.39	0.869	20.47	1.109	26.59	1.109	26.59	1.105	26.47
1.648	40.84	0.859	20.24	1.097	26.28	1.097	26.28	1.092	26.13
1.629	40.27	0.850	19.94	1.084	25.94	1.084	25.94	1.080	25.84
1.609	39.68	0.840	19.67	1.071	25.57	1.071	25.57	1.067	25.65
1.590	39.09	0.830	19.51	1.059	25.27	1.059	25.27	1.055	25.26
1.570	38.54	0.821	19.34	1.046	24.99	1.046	24.99	1.042	24.89
1.550	38.00	0.811	19.04	1.034	24.65	1.034	24.65	1.030	24.53
1.531	37.56	0.802	18.74	1.021	24.33	1.021	24.33	1.017	24.27
1.511	36.89	0.792	18.49	1.008	24.00	1.008	24.00	1.004	24.03
1.492	36.29	0.782	18.25	0.996	23.68	0.996	23.68	0.992	23.72
1.472	35.71	0.773	18.02	0.983	23.36	0.983	23.36	0.979	23.34
1.452	35.32	0.763	17.79	0.970	23.03	0.970	23.03	0.967	23.09
1.433	34.78	0.754	17.57	0.958	22.70	0.958	22.70	0.954	22.76
1.413	34.20	0.744	17.35	0.945	22.37	0.945	22.37	0.942	22.34
1.394	33.62	0.734	17.13	0.933	22.14	0.933	22.14	0.929	21.96
1.374	33.08	0.725	16.90	0.920	21.74	0.920	21.74	0.917	21.68
1.355	32.48	0.715	16.67	0.907	21.43	0.907	21.43	0.904	21.40

1.335	31.95	0.705	16.45	0.895	21.10	0.895	21.10	0.891	21.08
1.315	31.44	0.696	16.23	0.882	20.80	0.882	20.80	0.879	20.75
1.296	30.92	0.686	16.01	0.870	20.47	0.870	20.47	0.866	20.42
1.276	30.37	0.677	15.78	0.857	20.22	0.857	20.22	0.854	20.09
1.257	29.82	0.667	15.56	0.844	19.91	0.844	19.91	0.841	19.76
1.237	29.34	0.657	15.38	0.832	19.58	0.832	19.58	0.829	19.47
1.217	28.87	0.648	15.21	0.819	19.29	0.819	19.29	0.816	19.18
1.198	28.41	0.638	14.98	0.806	18.97	0.806	18.97	0.803	18.88
1.178	27.96	0.629	14.74	0.794	18.75	0.794	18.75	0.791	18.56
1.159	27.30	0.619	14.47	0.781	18.34	0.781	18.34	0.778	18.26
1.139	26.77	0.609	14.20	0.769	18.03	0.769	18.03	0.766	17.95
1.120	26.39	0.600	13.94	0.756	17.72	0.756	17.72	0.753	17.68
1.100	25.77	0.590	13.72	0.743	17.41	0.743	17.41	0.741	17.42
1.080	25.19	0.581	13.49	0.731	17.10	0.731	17.10	0.728	17.16
1.061	24.68	0.571	13.26	0.718	16.78	0.718	16.78	0.716	16.77
1.041	24.36	0.561	13.04	0.706	16.56	0.706	16.56	0.703	16.45
1.022	23.82	0.552	12.84	0.693	16.27	0.693	16.27	0.690	16.13
1.002	23.31	0.542	12.65	0.680	15.96	0.680	15.96	0.678	15.83
0.982	22.76	0.532	12.42	0.668	15.64	0.668	15.64	0.665	15.53
0.963	22.22	0.523	12.20	0.655	15.35	0.655	15.35	0.653	15.25
0.943	21.71	0.513	11.99	0.642	15.05	0.642	15.05	0.640	14.93
0.924	21.23	0.504	11.78	0.630	14.76	0.630	14.76	0.628	14.62
0.904	20.71	0.494	11.55	0.617	14.45	0.617	14.45	0.615	14.32
0.884	20.26	0.484	11.31	0.605	14.13	0.605	14.13	0.602	14.02
0.865	19.78	0.475	11.08	0.592	13.83	0.592	13.83	0.590	13.72
0.845	19.28	0.465	10.85	0.579	13.63	0.579	13.63	0.577	13.47
0.826	18.84	0.456	10.68	0.567	13.26	0.567	13.26	0.565	13.22
0.806	18.40	0.446	10.52	0.554	12.95	0.554	12.95	0.552	12.87
0.787	17.91	0.436	10.27	0.542	12.66	0.542	12.66	0.540	12.58
0.767	17.41	0.427	10.00	0.529	12.36	0.529	12.36	0.527	12.32
0.747	17.04	0.417	9.77	0.516	12.13	0.516	12.13	0.515	12.03
0.728	16.46	0.408	9.56	0.504	11.85	0.504	11.85	0.502	11.69
0.708	16.03	0.398	9.35	0.491	11.55	0.491	11.55	0.489	11.41
0.689	15.56	0.388	9.14	0.478	11.26	0.478	11.26	0.477	11.14
0.669	15.11	0.379	8.88	0.466	10.97	0.466	10.97	0.464	10.86
0.649	14.67	0.369	8.64	0.453	10.69	0.453	10.69	0.452	10.54
0.630	14.24	0.359	8.48	0.441	10.39	0.441	10.39	0.439	10.25
0.610	13.71	0.350	8.31	0.428	10.12	0.428	10.12	0.427	9.98
0.591	13.25	0.340	8.11	0.415	9.81	0.415	9.81	0.414	9.71
0.571	12.82	0.331	7.89	0.403	9.57	0.403	9.57	0.401	9.39
0.551	12.42	0.321	7.65	0.390	9.24	0.390	9.24	0.389	9.10
0.532	11.91	0.311	7.40	0.378	8.97	0.378	8.97	0.376	8.83
0.512	11.46	0.302	7.17	0.365	8.68	0.365	8.68	0.364	8.58
0.493	11.01	0.292	7.00	0.352	8.39	0.352	8.39	0.351	8.32
0.473	10.75	0.283	6.82	0.340	8.10	0.340	8.10	0.339	8.03

0.454	10.24	0.273	6.64	0.327	7.82	0.327	7.82	0.326	7.73
0.434	9.75	0.263	6.40	0.314	7.54	0.314	7.54	0.314	7.45
0.414	9.25	0.254	6.13	0.302	7.32	0.302	7.32	0.301	7.18
0.395	8.78	0.244	5.91	0.289	6.98	0.289	6.98	0.288	6.92
0.375	8.35	0.235	5.70	0.277	6.72	0.277	6.72	0.276	6.65
0.356	7.89	0.225	5.52	0.264	6.42	0.264	6.42	0.263	6.35
0.336	7.46	0.215	5.32	0.251	6.14	0.251	6.14	0.251	6.06
0.316	7.10	0.206	5.08	0.239	5.91	0.239	5.91	0.238	5.80
0.297	6.63	0.196	4.86	0.226	5.60	0.226	5.60	0.226	5.53
0.277	6.17	0.186	4.67	0.214	5.32	0.214	5.32	0.213	5.25
0.258	5.74	0.177	4.48	0.201	5.04	0.201	5.04	0.200	4.96
0.238	5.32	0.167	4.28	0.188	4.81	0.188	4.81	0.188	4.70
0.219	4.91	0.158	4.03	0.176	4.51	0.176	4.51	0.175	4.44
0.199	4.48	0.148	3.83	0.163	4.18	0.163	4.18	0.163	4.19
0.179	4.08	0.138	3.66	0.150	3.95	0.150	3.95	0.150	3.93
0.160	3.61	0.129	3.47	0.138	3.67	0.138	3.67	0.138	3.62
0.140	3.19	0.119	3.24	0.125	3.45	0.125	3.45	0.125	3.28
0.121	2.88	0.110	3.03	0.113	3.16	0.113	3.16	0.113	3.00
0.101	2.38	0.100	2.82	0.100	2.92	0.100	2.92	0.100	2.74

Table S1 (continued). $P\rho T x_{CO_2}$ experimental data for CO_2+CO mixtures.

T=263.15 K									
x_{CO_2} = 0.9700		x_{CO_2} = 0.9810		x_{CO_2} = 0.9902		x_{CO_2} = 0.9930		x_{CO_2} = 0.9960	
P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})
20.095	1033.80	20.000	1040.75	20.000	1050.01	20.000	1052.32	20.000	1054.66
20.076	1033.72	19.981	1040.70	19.979	1049.92	19.980	1052.24	19.980	1054.58
20.058	1033.64	19.961	1040.65	19.959	1049.90	19.961	1052.16	19.960	1054.50
20.040	1033.64	19.942	1040.57	19.938	1049.82	19.941	1052.08	19.940	1054.49
20.021	1033.56	19.923	1040.49	19.918	1049.74	19.921	1052.08	19.920	1054.39
20.003	1033.48	19.903	1040.43	19.897	1049.72	19.902	1052.00	19.900	1054.34
19.984	1033.48	19.884	1040.38	19.877	1049.64	19.882	1051.91	19.880	1054.26
19.966	1033.40	19.864	1040.33	19.856	1049.57	19.862	1051.83	19.860	1054.17
19.948	1033.31	19.845	1040.24	19.836	1049.52	19.843	1051.77	19.840	1054.12
19.929	1033.25	19.826	1040.16	19.815	1049.46	19.823	1051.75	19.820	1054.09
19.911	1033.23	19.806	1040.15	19.794	1049.37	19.803	1051.67	19.800	1054.01
19.893	1033.15	19.787	1040.05	19.774	1049.27	19.784	1051.59	19.780	1053.93
19.874	1033.13	19.768	1040.00	19.753	1049.25	19.764	1051.51	19.760	1053.91
19.856	1033.07	19.748	1039.93	19.733	1049.16	19.744	1051.46	19.741	1053.85
19.837	1032.99	19.729	1039.87	19.712	1049.09	19.725	1051.39	19.721	1053.77
19.819	1032.91	19.710	1039.81	19.692	1049.05	19.705	1051.35	19.701	1053.69
19.801	1032.90	19.690	1039.75	19.671	1048.96	19.685	1051.26	19.681	1053.61
19.782	1032.83	19.671	1039.68	19.651	1048.93	19.666	1051.24	19.661	1053.61
19.764	1032.75	19.652	1039.61	19.630	1048.85	19.646	1051.18	19.641	1053.53
19.746	1032.67	19.632	1039.55	19.610	1048.83	19.626	1051.10	19.621	1053.44
19.727	1032.61	19.613	1039.48	19.589	1048.74	19.607	1051.02	19.601	1053.36
19.709	1032.59	19.593	1039.41	19.568	1048.69	19.587	1050.94	19.581	1053.31
19.690	1032.50	19.574	1039.31	19.548	1048.62	19.567	1050.87	19.561	1053.26
19.672	1032.42	19.555	1039.27	19.527	1048.52	19.548	1050.80	19.541	1053.20
19.654	1032.34	19.535	1039.23	19.507	1048.44	19.528	1050.78	19.521	1053.12
19.635	1032.28	19.516	1039.16	19.486	1048.41	19.508	1050.70	19.501	1053.04
19.617	1032.26	19.497	1039.09	19.466	1048.31	19.489	1050.67	19.481	1052.98
19.599	1032.18	19.477	1039.03	19.445	1048.28	19.469	1050.53	19.461	1052.96
19.580	1032.10	19.458	1038.96	19.425	1048.20	19.449	1050.53	19.441	1052.88
19.562	1032.01	19.439	1038.89	19.404	1048.12	19.429	1050.45	19.421	1052.79
19.543	1032.02	19.419	1038.83	19.383	1048.08	19.410	1050.37	19.401	1052.71
19.525	1031.93	19.400	1038.76	19.363	1047.98	19.390	1050.29	19.381	1052.63
19.507	1031.85	19.380	1038.70	19.342	1047.96	19.370	1050.21	19.361	1052.63
19.488	1031.77	19.361	1038.62	19.322	1047.86	19.351	1050.21	19.341	1052.55
19.470	1031.69	19.342	1038.54	19.301	1047.77	19.331	1050.13	19.321	1052.47
19.452	1031.69	19.322	1038.51	19.281	1047.71	19.311	1050.04	19.301	1052.39

19.433	1031.61	19.303	1038.42	19.260	1047.65	19.292	1049.96	19.281	1052.34
19.415	1031.53	19.284	1038.36	19.240	1047.55	19.272	1049.88	19.261	1052.28
19.396	1031.45	19.264	1038.29	19.219	1047.53	19.252	1049.83	19.242	1052.22
19.378	1031.38	19.245	1038.24	19.199	1047.47	19.233	1049.80	19.222	1052.14
19.360	1031.37	19.226	1038.18	19.178	1047.41	19.213	1049.72	19.202	1052.06
19.341	1031.28	19.206	1038.12	19.157	1047.30	19.193	1049.64	19.182	1051.98
19.323	1031.20	19.187	1038.05	19.137	1047.27	19.174	1049.56	19.162	1051.90
19.305	1031.12	19.167	1037.97	19.116	1047.16	19.154	1049.50	19.142	1051.89
19.286	1031.04	19.148	1037.89	19.096	1047.14	19.134	1049.48	19.122	1051.82
19.268	1031.04	19.129	1037.80	19.075	1047.03	19.115	1049.39	19.102	1051.74
19.249	1030.96	19.109	1037.77	19.055	1046.98	19.095	1049.31	19.082	1051.66
19.231	1030.88	19.090	1037.70	19.034	1046.90	19.075	1049.23	19.062	1051.60
19.213	1030.79	19.071	1037.63	19.014	1046.87	19.056	1049.20	19.042	1051.52
19.194	1030.71	19.051	1037.56	18.993	1046.75	19.036	1049.15	19.022	1051.49
19.176	1030.67	19.032	1037.48	18.972	1046.73	19.016	1049.07	19.002	1051.41
19.158	1030.63	19.013	1037.42	18.952	1046.62	18.997	1048.99	18.982	1051.33
19.139	1030.56	18.993	1037.37	18.931	1046.57	18.977	1048.91	18.962	1051.25
19.121	1030.55	18.974	1037.31	18.911	1046.49	18.957	1048.88	18.942	1051.17
19.102	1030.46	18.955	1037.24	18.890	1046.41	18.938	1048.83	18.922	1051.17
19.084	1030.39	18.935	1037.15	18.870	1046.34	18.918	1048.74	18.902	1051.09
19.066	1030.35	18.916	1037.07	18.849	1046.32	18.898	1048.66	18.882	1051.00
19.047	1030.26	18.896	1037.02	18.829	1046.21	18.879	1048.58	18.862	1050.92
19.029	1030.23	18.877	1036.96	18.808	1046.17	18.859	1048.50	18.842	1050.92
19.011	1030.16	18.858	1036.89	18.788	1046.05	18.839	1048.48	18.822	1050.84
18.992	1030.07	18.838	1036.81	18.767	1046.00	18.820	1048.42	18.802	1050.76
18.974	1030.06	18.819	1036.75	18.746	1045.92	18.800	1048.34	18.782	1050.68
18.955	1029.96	18.800	1036.67	18.726	1045.87	18.780	1048.26	18.762	1050.60
18.937	1029.90	18.780	1036.58	18.705	1045.84	18.761	1048.23	18.743	1050.52
18.919	1029.85	18.761	1036.50	18.685	1045.73	18.741	1048.18	18.723	1050.44
18.900	1029.75	18.742	1036.50	18.664	1045.68	18.721	1048.18	18.703	1050.39
18.882	1029.74	18.722	1036.41	18.644	1045.60	18.702	1048.07	18.683	1050.36
18.864	1029.65	18.703	1036.33	18.623	1045.55	18.682	1047.93	18.663	1050.27
18.845	1029.58	18.683	1036.26	18.603	1045.43	18.662	1047.85	18.643	1050.19
18.827	1029.54	18.664	1036.18	18.582	1045.39	18.643	1047.77	18.623	1050.11
18.808	1029.50	18.645	1036.15	18.561	1045.32	18.623	1047.75	18.603	1050.03
18.790	1029.41	18.625	1036.05	18.541	1045.26	18.603	1047.69	18.583	1050.00
18.772	1029.33	18.606	1035.96	18.520	1045.14	18.584	1047.61	18.563	1049.95
18.753	1029.30	18.587	1035.93	18.500	1045.11	18.564	1047.52	18.543	1049.87
18.735	1029.19	18.567	1035.85	18.479	1045.03	18.544	1047.53	18.523	1049.78
18.717	1029.17	18.548	1035.77	18.459	1044.96	18.525	1047.39	18.503	1049.70
18.698	1029.08	18.529	1035.69	18.438	1044.86	18.505	1047.36	18.483	1049.71
18.680	1029.01	18.509	1035.61	18.418	1044.79	18.485	1047.31	18.463	1049.62
18.662	1028.96	18.490	1035.59	18.397	1044.75	18.466	1047.28	18.443	1049.54
18.643	1028.93	18.471	1035.53	18.376	1044.70	18.446	1047.22	18.423	1049.46
18.625	1028.84	18.451	1035.45	18.356	1044.59	18.426	1047.12	18.403	1049.38

18.606	1028.76	18.432	1035.36	18.335	1044.54	18.407	1047.10	18.383	1049.30
18.588	1028.72	18.412	1035.30	18.315	1044.46	18.387	1046.99	18.363	1049.23
18.570	1028.61	18.393	1035.20	18.294	1044.39	18.367	1046.96	18.343	1049.20
18.551	1028.59	18.374	1035.19	18.274	1044.28	18.347	1046.85	18.323	1049.13
18.533	1028.52	18.354	1035.10	18.253	1044.22	18.328	1046.79	18.303	1049.05
18.515	1028.46	18.335	1035.04	18.233	1044.20	18.308	1046.71	18.283	1048.97
18.496	1028.40	18.316	1034.96	18.212	1044.08	18.288	1046.65	18.263	1048.89
18.478	1028.35	18.296	1034.87	18.192	1044.04	18.269	1046.62	18.244	1048.86
18.459	1028.24	18.277	1034.80	18.171	1043.97	18.249	1046.56	18.224	1048.81
18.441	1028.19	18.258	1034.71	18.150	1043.88	18.229	1046.47	18.204	1048.73
18.423	1028.11	18.238	1034.70	18.130	1043.81	18.210	1046.39	18.184	1048.65
18.404	1028.09	18.219	1034.60	18.109	1043.72	18.190	1046.34	18.164	1048.56
18.386	1027.98	18.199	1034.55	18.089	1043.66	18.170	1046.30	18.144	1048.48
18.368	1027.95	18.180	1034.47	18.068	1043.62	18.151	1046.22	18.124	1048.45
18.349	1027.85	18.161	1034.39	18.048	1043.49	18.131	1046.14	18.104	1048.40
18.331	1027.79	18.141	1034.30	18.027	1043.44	18.111	1046.07	18.084	1048.32
18.312	1027.73	18.122	1034.22	18.007	1043.40	18.092	1046.02	18.064	1048.24
18.294	1027.70	18.103	1034.15	17.986	1043.32	18.072	1045.97	18.044	1048.16
18.276	1027.59	18.083	1034.14	17.965	1043.24	18.052	1045.90	18.024	1048.08
18.257	1027.54	18.064	1034.05	17.945	1043.18	18.033	1045.82	18.004	1048.01
18.239	1027.46	18.045	1033.95	17.924	1043.07	18.013	1045.74	17.984	1048.00
18.221	1027.43	18.025	1033.90	17.904	1043.01	17.993	1045.68	17.964	1047.83
18.202	1027.32	18.006	1033.82	17.883	1042.96	17.974	1045.63	17.944	1047.83
18.184	1027.30	17.986	1033.73	17.863	1042.91	17.954	1045.54	17.924	1047.75
18.165	1027.19	17.967	1033.70	17.842	1042.78	17.934	1045.46	17.904	1047.67
18.147	1027.14	17.948	1033.58	17.822	1042.73	17.915	1045.41	17.884	1047.59
18.129	1027.07	17.928	1033.55	17.801	1042.67	17.895	1045.35	17.864	1047.51
18.110	1027.04	17.909	1033.49	17.781	1042.59	17.875	1045.29	17.844	1047.44
18.092	1026.93	17.890	1033.41	17.760	1042.50	17.856	1045.23	17.824	1047.43
18.074	1026.89	17.870	1033.33	17.739	1042.46	17.836	1045.17	17.804	1047.34
18.055	1026.81	17.851	1033.23	17.719	1042.34	17.816	1045.09	17.784	1047.26
18.037	1026.78	17.832	1033.16	17.698	1042.28	17.797	1045.00	17.764	1047.18
18.018	1026.68	17.812	1033.12	17.678	1042.25	17.777	1044.92	17.745	1047.10
18.000	1026.58	17.793	1033.02	17.657	1042.19	17.757	1044.85	17.725	1047.04
17.982	1026.56	17.774	1033.00	17.637	1042.10	17.738	1044.79	17.705	1047.02
17.963	1026.48	17.754	1032.92	17.616	1042.01	17.718	1044.74	17.685	1046.91
17.945	1026.42	17.735	1032.84	17.596	1041.93	17.698	1044.68	17.665	1046.86
17.927	1026.32	17.715	1032.76	17.575	1041.85	17.679	1044.62	17.645	1046.77
17.908	1026.30	17.696	1032.67	17.554	1041.77	17.659	1044.51	17.625	1046.71
17.890	1026.19	17.677	1032.65	17.534	1041.70	17.639	1044.43	17.605	1046.61
17.871	1026.16	17.657	1032.53	17.513	1041.65	17.620	1044.37	17.585	1046.56
17.853	1026.08	17.638	1032.51	17.493	1041.59	17.600	1044.31	17.565	1046.53
17.835	1026.02	17.619	1032.41	17.472	1041.53	17.580	1044.25	17.545	1046.45
17.816	1025.91	17.599	1032.35	17.452	1041.45	17.561	1044.19	17.525	1046.37
17.798	1025.89	17.580	1032.27	17.431	1041.37	17.541	1044.11	17.505	1046.29

17.780	1025.83	17.561	1032.19	17.411	1041.28	17.521	1044.03	17.485	1046.20
17.761	1025.75	17.541	1032.10	17.390	1041.19	17.502	1043.99	17.465	1046.12
17.743	1025.67	17.522	1032.02	17.369	1041.12	17.482	1043.92	17.445	1046.11
17.724	1025.61	17.502	1031.98	17.349	1041.04	17.462	1043.85	17.425	1046.00
17.706	1025.50	17.483	1031.87	17.328	1040.95	17.443	1043.78	17.405	1045.96
17.688	1025.45	17.464	1031.83	17.308	1040.88	17.423	1043.72	17.385	1045.88
17.669	1025.37	17.444	1031.75	17.287	1040.83	17.403	1043.59	17.365	1045.80
17.651	1025.33	17.425	1031.70	17.267	1040.76	17.384	1043.54	17.345	1045.72
17.633	1025.26	17.406	1031.62	17.246	1040.71	17.364	1043.46	17.325	1045.63
17.614	1025.18	17.386	1031.53	17.226	1040.63	17.344	1043.40	17.305	1045.60
17.596	1025.10	17.367	1031.45	17.205	1040.55	17.325	1043.34	17.285	1045.53
17.577	1025.03	17.348	1031.37	17.185	1040.47	17.305	1043.29	17.265	1045.44
17.559	1024.99	17.328	1031.29	17.164	1040.39	17.285	1043.21	17.246	1045.39
17.541	1024.94	17.309	1031.23	17.143	1040.31	17.265	1043.15	17.226	1045.31
17.522	1024.83	17.290	1031.19	17.123	1040.23	17.246	1043.08	17.206	1045.23
17.504	1024.77	17.270	1031.13	17.102	1040.17	17.226	1043.01	17.186	1045.19
17.486	1024.69	17.251	1031.04	17.082	1040.10	17.206	1042.94	17.166	1045.13
17.467	1024.62	17.231	1030.94	17.061	1040.01	17.187	1042.87	17.146	1045.07
17.449	1024.57	17.212	1030.88	17.041	1039.98	17.167	1042.80	17.126	1044.98
17.430	1024.45	17.193	1030.80	17.020	1039.90	17.147	1042.72	17.106	1044.90
17.412	1024.45	17.173	1030.72	17.000	1039.82	17.128	1042.64	17.086	1044.82
17.394	1024.36	17.154	1030.64	16.979	1039.70	17.108	1042.58	17.066	1044.74
17.375	1024.28	17.135	1030.56	16.958	1039.63	17.088	1042.51	17.046	1044.66
17.357	1024.20	17.115	1030.52	16.938	1039.57	17.069	1042.42	17.026	1044.58
17.339	1024.17	17.096	1030.48	16.917	1039.50	17.049	1042.38	17.006	1044.58
17.320	1024.06	17.077	1030.34	16.897	1039.44	17.029	1042.30	16.986	1044.50
17.302	1024.02	17.057	1030.30	16.876	1039.33	17.010	1042.23	16.966	1044.41
17.283	1023.96	17.038	1030.23	16.856	1039.30	16.990	1042.15	16.946	1044.33
17.265	1023.85	17.018	1030.14	16.835	1039.16	16.970	1042.07	16.926	1044.25
17.247	1023.80	16.999	1030.07	16.815	1039.17	16.951	1042.00	16.906	1044.17
17.228	1023.71	16.980	1029.99	16.794	1039.08	16.931	1041.92	16.886	1044.09
17.210	1023.64	16.960	1029.92	16.774	1039.00	16.911	1041.91	16.866	1044.03
17.192	1023.60	16.941	1029.82	16.753	1038.92	16.892	1041.83	16.846	1044.01
17.173	1023.55	16.922	1029.81	16.732	1038.84	16.872	1041.71	16.826	1043.89
17.155	1023.42	16.902	1029.69	16.712	1038.76	16.852	1041.66	16.806	1043.84
17.136	1023.38	16.883	1029.65	16.691	1038.68	16.833	1041.58	16.786	1043.76
17.118	1023.31	16.864	1029.58	16.671	1038.62	16.813	1041.50	16.766	1043.68
17.100	1023.22	16.844	1029.50	16.650	1038.51	16.793	1041.42	16.747	1043.60
17.081	1023.15	16.825	1029.44	16.630	1038.43	16.774	1041.34	16.727	1043.52
17.063	1023.10	16.805	1029.33	16.609	1038.35	16.754	1041.34	16.707	1043.51
17.045	1023.06	16.786	1029.25	16.589	1038.27	16.734	1041.26	16.687	1043.44
17.026	1022.96	16.767	1029.17	16.568	1038.19	16.715	1041.18	16.667	1043.36
17.008	1022.89	16.747	1029.09	16.547	1038.19	16.695	1041.09	16.647	1043.27
16.989	1022.82	16.728	1029.02	16.527	1038.11	16.675	1041.02	16.627	1043.19
16.971	1022.74	16.709	1028.96	16.506	1038.03	16.656	1040.94	16.607	1043.11

16.953	1022.66	16.689	1028.93	16.486	1037.94	16.636	1040.85	16.587	1043.03
16.934	1022.60	16.670	1028.83	16.465	1037.86	16.616	1040.78	16.567	1042.95
16.916	1022.49	16.651	1028.76	16.445	1037.78	16.597	1040.77	16.547	1042.87
16.898	1022.48	16.631	1028.68	16.424	1037.67	16.577	1040.61	16.527	1042.78
16.879	1022.41	16.612	1028.60	16.404	1037.62	16.557	1040.61	16.507	1042.79
16.861	1022.28	16.593	1028.52	16.383	1037.55	16.538	1040.52	16.487	1042.70
16.842	1022.22	16.573	1028.45	16.363	1037.45	16.518	1040.44	16.467	1042.62
16.824	1022.16	16.554	1028.38	16.342	1037.37	16.498	1040.36	16.447	1042.54
16.806	1022.08	16.534	1028.27	16.321	1037.29	16.479	1040.28	16.427	1042.46
16.787	1022.00	16.515	1028.25	16.301	1037.21	16.459	1040.20	16.407	1042.38
16.769	1021.98	16.496	1028.11	16.280	1037.13	16.439	1040.14	16.387	1042.30
16.751	1021.88	16.476	1028.05	16.260	1037.10	16.420	1040.09	16.367	1042.27
16.732	1021.79	16.457	1028.03	16.239	1037.00	16.400	1039.99	16.347	1042.22
16.714	1021.73	16.438	1027.95	16.219	1036.91	16.380	1039.95	16.327	1042.13
16.695	1021.67	16.418	1027.87	16.198	1036.81	16.361	1039.87	16.307	1042.05
16.677	1021.59	16.399	1027.78	16.178	1036.80	16.341	1039.79	16.287	1041.97
16.659	1021.51	16.380	1027.70	16.157	1036.68	16.321	1039.71	16.267	1041.89
16.640	1021.43	16.360	1027.62	16.136	1036.64	16.302	1039.64	16.248	1041.81
16.622	1021.35	16.341	1027.54	16.116	1036.56	16.282	1039.55	16.228	1041.76
16.604	1021.27	16.321	1027.46	16.095	1036.48	16.262	1039.52	16.208	1041.71
16.585	1021.21	16.302	1027.46	16.075	1036.39	16.242	1039.42	16.188	1041.63
16.567	1021.14	16.283	1027.38	16.054	1036.31	16.223	1039.38	16.168	1041.56
16.548	1021.08	16.263	1027.30	16.034	1036.23	16.203	1039.30	16.148	1041.48
16.530	1021.01	16.244	1027.21	16.013	1036.15	16.183	1039.18	16.128	1041.40
16.512	1020.94	16.225	1027.13	15.993	1036.07	16.164	1039.14	16.108	1041.32
16.493	1020.86	16.205	1027.05	15.972	1035.99	16.144	1039.06	16.088	1041.24
16.475	1020.80	16.186	1026.98	15.951	1035.89	16.124	1038.98	16.068	1041.16
16.457	1020.70	16.167	1026.89	15.931	1035.82	16.105	1038.89	16.048	1041.12
16.438	1020.61	16.147	1026.81	15.910	1035.76	16.085	1038.84	16.028	1041.08
16.420	1020.53	16.128	1026.75	15.890	1035.66	16.065	1038.73	16.008	1040.99
16.401	1020.53	16.108	1026.68	15.869	1035.64	16.046	1038.70	15.988	1040.91
16.383	1020.45	16.089	1026.56	15.849	1035.55	16.026	1038.65	15.968	1040.83
16.365	1020.30	16.070	1026.52	15.828	1035.45	16.006	1038.57	15.948	1040.75
16.346	1020.29	16.050	1026.43	15.808	1035.42	15.987	1038.44	15.928	1040.67
16.328	1020.21	16.031	1026.38	15.787	1035.32	15.967	1038.41	15.908	1040.60
16.310	1020.13	16.012	1026.29	15.767	1035.23	15.947	1038.32	15.888	1040.55
16.291	1020.04	15.992	1026.24	15.746	1035.17	15.928	1038.24	15.868	1040.49
16.273	1019.96	15.973	1026.15	15.725	1035.09	15.908	1038.19	15.848	1040.42
16.254	1019.93	15.954	1026.07	15.705	1035.02	15.888	1038.09	15.828	1040.34
16.236	1019.80	15.934	1025.99	15.684	1034.93	15.869	1038.07	15.808	1040.26
16.218	1019.79	15.915	1025.92	15.664	1034.85	15.849	1037.98	15.788	1040.18
16.199	1019.70	15.896	1025.84	15.643	1034.76	15.829	1037.92	15.768	1040.10
16.181	1019.62	15.876	1025.75	15.623	1034.68	15.810	1037.83	15.749	1040.02
16.163	1019.54	15.857	1025.72	15.602	1034.60	15.790	1037.75	15.729	1039.93
16.144	1019.45	15.837	1025.67	15.582	1034.54	15.770	1037.67	15.709	1039.85

16.126	1019.39	15.818	1025.58	15.561	1034.44	15.751	1037.59	15.689	1039.77
16.107	1019.28	15.799	1025.49	15.540	1034.36	15.731	1037.51	15.669	1039.71
16.089	1019.23	15.779	1025.42	15.520	1034.28	15.711	1037.45	15.649	1039.69
16.071	1019.15	15.760	1025.34	15.499	1034.19	15.692	1037.35	15.629	1039.61
16.052	1019.12	15.741	1025.26	15.479	1034.14	15.672	1037.34	15.609	1039.53
16.034	1019.04	15.721	1025.18	15.458	1034.04	15.652	1037.24	15.589	1039.45
16.016	1018.95	15.702	1025.09	15.438	1034.02	15.633	1037.18	15.569	1039.36
15.997	1018.89	15.683	1025.01	15.417	1033.91	15.613	1037.10	15.549	1039.28
15.979	1018.80	15.663	1024.93	15.397	1033.80	15.593	1037.02	15.529	1039.20
15.960	1018.72	15.644	1024.87	15.376	1033.77	15.574	1036.94	15.509	1039.15
15.942	1018.66	15.624	1024.85	15.356	1033.64	15.554	1036.86	15.489	1039.04
15.924	1018.58	15.605	1024.75	15.335	1033.60	15.534	1036.81	15.469	1038.96
15.905	1018.49	15.586	1024.69	15.314	1033.54	15.515	1036.74	15.449	1038.96
15.887	1018.44	15.566	1024.61	15.294	1033.45	15.495	1036.62	15.429	1038.88
15.869	1018.35	15.547	1024.52	15.273	1033.38	15.475	1036.58	15.409	1038.79
15.850	1018.26	15.528	1024.44	15.253	1033.30	15.456	1036.53	15.389	1038.71
15.832	1018.25	15.508	1024.36	15.232	1033.22	15.436	1036.45	15.369	1038.63
15.813	1018.15	15.489	1024.28	15.212	1033.13	15.416	1036.37	15.349	1038.55
15.795	1018.08	15.470	1024.20	15.191	1033.05	15.397	1036.28	15.329	1038.47
15.777	1017.99	15.450	1024.12	15.171	1032.97	15.377	1036.20	15.309	1038.39
15.758	1017.89	15.431	1024.03	15.150	1032.89	15.357	1036.12	15.289	1038.33
15.740	1017.84	15.412	1023.95	15.129	1032.81	15.338	1036.06	15.269	1038.22
15.722	1017.76	15.392	1023.90	15.109	1032.75	15.318	1035.96	15.250	1038.15
15.703	1017.68	15.373	1023.86	15.088	1032.64	15.298	1035.91	15.230	1038.14
15.685	1017.60	15.353	1023.79	15.068	1032.58	15.279	1035.86	15.210	1038.06
15.666	1017.51	15.334	1023.71	15.047	1032.52	15.259	1035.80	15.190	1037.98
15.648	1017.46	15.315	1023.63	15.027	1032.40	15.239	1035.67	15.170	1037.90
15.630	1017.36	15.295	1023.55	15.006	1032.34	15.220	1035.62	15.150	1037.82
15.611	1017.35	15.276	1023.46	14.986	1032.28	15.200	1035.55	15.130	1037.73
15.593	1017.24	15.257	1023.38	14.965	1032.23	15.180	1035.47	15.110	1037.65
15.575	1017.19	15.237	1023.30	14.944	1032.07	15.160	1035.39	15.090	1037.57
15.556	1017.11	15.218	1023.22	14.924	1032.03	15.141	1035.31	15.070	1037.49
15.538	1017.03	15.199	1023.14	14.903	1031.97	15.121	1035.23	15.050	1037.41
15.519	1016.93	15.179	1023.06	14.883	1031.84	15.101	1035.14	15.030	1037.33
15.501	1016.86	15.160	1022.97	14.862	1031.77	15.082	1035.10	15.010	1037.25
15.483	1016.78	15.140	1022.96	14.842	1031.74	15.062	1034.98	14.990	1037.24
15.464	1016.70	15.121	1022.84	14.821	1031.67	15.042	1034.94	14.970	1037.16
15.446	1016.62	15.102	1022.81	14.801	1031.54	15.023	1034.90	14.950	1037.08
15.428	1016.58	15.082	1022.73	14.780	1031.48	15.003	1034.77	14.930	1037.00
15.409	1016.47	15.063	1022.65	14.760	1031.42	14.983	1034.72	14.910	1036.92
15.391	1016.37	15.044	1022.57	14.739	1031.34	14.964	1034.66	14.890	1036.84
15.372	1016.34	15.024	1022.49	14.718	1031.26	14.944	1034.57	14.870	1036.76
15.354	1016.27	15.005	1022.40	14.698	1031.18	14.924	1034.49	14.850	1036.67
15.336	1016.21	14.986	1022.32	14.677	1031.10	14.905	1034.41	14.830	1036.59
15.317	1016.13	14.966	1022.24	14.657	1031.01	14.885	1034.37	14.810	1036.51

15.299	1016.05	14.947	1022.16	14.636	1030.93	14.865	1034.25	14.790	1036.43
15.281	1015.96	14.927	1022.08	14.616	1030.85	14.846	1034.18	14.770	1036.38
15.262	1015.88	14.908	1022.00	14.595	1030.77	14.826	1034.13	14.751	1036.27
15.244	1015.80	14.889	1021.91	14.575	1030.69	14.806	1034.07	14.731	1036.19
15.225	1015.72	14.869	1021.83	14.554	1030.61	14.787	1033.93	14.711	1036.13
15.207	1015.64	14.850	1021.75	14.533	1030.52	14.767	1033.84	14.691	1036.10
15.189	1015.57	14.831	1021.67	14.513	1030.44	14.747	1033.82	14.671	1036.02
15.170	1015.51	14.811	1021.59	14.492	1030.36	14.728	1033.74	14.651	1035.94
15.152	1015.45	14.792	1021.51	14.472	1030.28	14.708	1033.67	14.631	1035.86
15.134	1015.33	14.773	1021.51	14.451	1030.20	14.688	1033.60	14.611	1035.78
15.115	1015.31	14.753	1021.39	14.431	1030.12	14.669	1033.51	14.591	1035.70
15.097	1015.19	14.734	1021.34	14.410	1030.04	14.649	1033.43	14.571	1035.61
15.079	1015.15	14.715	1021.26	14.390	1029.95	14.629	1033.35	14.551	1035.53
15.060	1015.07	14.695	1021.18	14.369	1029.87	14.610	1033.27	14.531	1035.45
15.042	1014.99	14.676	1021.10	14.349	1029.79	14.590	1033.19	14.511	1035.37
15.023	1014.90	14.656	1021.02	14.328	1029.68	14.570	1033.10	14.491	1035.29
15.005	1014.82	14.637	1020.94	14.307	1029.63	14.551	1033.02	14.471	1035.21
14.987	1014.74	14.618	1020.85	14.287	1029.55	14.531	1032.95	14.451	1035.17
14.968	1014.66	14.598	1020.77	14.266	1029.46	14.511	1032.88	14.431	1035.11
14.950	1014.58	14.579	1020.69	14.246	1029.38	14.492	1032.81	14.411	1035.04
14.932	1014.50	14.560	1020.61	14.225	1029.30	14.472	1032.72	14.391	1034.95
14.913	1014.41	14.540	1020.53	14.205	1029.23	14.452	1032.61	14.371	1034.88
14.895	1014.37	14.521	1020.45	14.184	1029.18	14.433	1032.61	14.351	1034.80
14.876	1014.25	14.502	1020.42	14.164	1029.06	14.413	1032.53	14.331	1034.72
14.858	1014.19	14.482	1020.34	14.143	1028.97	14.393	1032.45	14.311	1034.64
14.840	1014.15	14.463	1020.26	14.122	1028.89	14.374	1032.37	14.291	1034.55
14.821	1014.09	14.443	1020.17	14.102	1028.81	14.354	1032.29	14.271	1034.47
14.803	1013.97	14.424	1020.07	14.081	1028.74	14.334	1032.21	14.252	1034.39
14.785	1013.92	14.405	1020.01	14.061	1028.65	14.315	1032.13	14.232	1034.31
14.766	1013.84	14.385	1019.96	14.040	1028.57	14.295	1032.04	14.212	1034.23
14.748	1013.74	14.366	1019.87	14.020	1028.48	14.275	1032.00	14.192	1034.15
14.729	1013.68	14.347	1019.79	13.999	1028.42	14.256	1031.88	14.172	1034.06
14.711	1013.60	14.327	1019.71	13.979	1028.33	14.236	1031.80	14.152	1033.98
14.693	1013.52	14.308	1019.61	13.958	1028.24	14.216	1031.76	14.132	1033.90
14.674	1013.43	14.289	1019.55	13.938	1028.16	14.197	1031.66	14.112	1033.82
14.656	1013.35	14.269	1019.47	13.917	1028.09	14.177	1031.56	14.092	1033.78
14.638	1013.27	14.250	1019.39	13.896	1027.99	14.157	1031.47	14.072	1033.74
14.619	1013.20	14.231	1019.30	13.876	1027.91	14.138	1031.46	14.052	1033.66
14.601	1013.11	14.211	1019.22	13.855	1027.86	14.118	1031.37	14.032	1033.58
14.582	1013.03	14.192	1019.14	13.835	1027.80	14.098	1031.28	14.012	1033.49
14.564	1012.96	14.172	1019.06	13.814	1027.67	14.078	1031.23	13.992	1033.41
14.546	1012.90	14.153	1018.98	13.794	1027.59	14.059	1031.15	13.972	1033.33
14.527	1012.85	14.134	1018.90	13.773	1027.53	14.039	1031.07	13.952	1033.25
14.509	1012.71	14.114	1018.81	13.753	1027.42	14.019	1030.98	13.932	1033.17
14.491	1012.70	14.095	1018.73	13.732	1027.34	14.000	1030.90	13.912	1033.09

14.472	1012.62	14.076	1018.65	13.711	1027.26	13.980	1030.82	13.892	1033.00
14.454	1012.48	14.056	1018.57	13.691	1027.18	13.960	1030.74	13.872	1032.92
14.435	1012.45	14.037	1018.49	13.670	1027.10	13.941	1030.66	13.852	1032.84
14.417	1012.37	14.018	1018.41	13.650	1027.02	13.921	1030.58	13.832	1032.76
14.399	1012.29	13.998	1018.32	13.629	1026.93	13.901	1030.49	13.812	1032.68
14.380	1012.21	13.979	1018.24	13.609	1026.85	13.882	1030.41	13.792	1032.60
14.362	1012.13	13.959	1018.16	13.588	1026.77	13.862	1030.33	13.772	1032.51
14.344	1012.05	13.940	1018.08	13.568	1026.69	13.842	1030.25	13.753	1032.43
14.325	1011.96	13.921	1018.00	13.547	1026.66	13.823	1030.17	13.733	1032.35
14.307	1011.88	13.901	1017.93	13.526	1026.53	13.803	1030.09	13.713	1032.27
14.288	1011.81	13.882	1017.83	13.506	1026.44	13.783	1030.03	13.693	1032.24
14.270	1011.75	13.863	1017.77	13.485	1026.36	13.764	1030.01	13.673	1032.12
14.252	1011.64	13.843	1017.67	13.465	1026.28	13.744	1029.92	13.653	1032.11
14.233	1011.60	13.824	1017.60	13.444	1026.20	13.724	1029.82	13.633	1032.01
14.215	1011.51	13.805	1017.55	13.424	1026.12	13.705	1029.70	13.613	1031.94
14.197	1011.43	13.785	1017.44	13.403	1026.04	13.685	1029.67	13.593	1031.86
14.178	1011.33	13.766	1017.39	13.383	1025.96	13.665	1029.60	13.573	1031.78
14.160	1011.25	13.746	1017.26	13.362	1025.87	13.646	1029.51	13.553	1031.70
14.141	1011.16	13.727	1017.26	13.342	1025.79	13.626	1029.43	13.533	1031.62
14.123	1011.15	13.708	1017.10	13.321	1025.71	13.606	1029.35	13.513	1031.54
14.105	1011.01	13.688	1017.07	13.300	1025.63	13.587	1029.27	13.493	1031.45
14.086	1010.93	13.669	1017.00	13.280	1025.55	13.567	1029.19	13.473	1031.37
14.068	1010.90	13.650	1016.93	13.259	1025.47	13.547	1029.13	13.453	1031.29
14.050	1010.82	13.630	1016.77	13.239	1025.38	13.528	1029.03	13.433	1031.21
14.031	1010.74	13.611	1016.69	13.218	1025.30	13.508	1028.96	13.413	1031.13
14.013	1010.66	13.592	1016.69	13.198	1025.21	13.488	1028.86	13.393	1031.05
13.994	1010.58	13.572	1016.60	13.177	1025.14	13.469	1028.78	13.373	1030.96
13.976	1010.49	13.553	1016.46	13.157	1025.06	13.449	1028.72	13.353	1030.88
13.958	1010.41	13.534	1016.45	13.136	1024.98	13.429	1028.66	13.333	1030.80
13.939	1010.33	13.514	1016.37	13.115	1024.89	13.410	1028.59	13.313	1030.72
13.921	1010.25	13.495	1016.28	13.095	1024.78	13.390	1028.51	13.293	1030.64
13.903	1010.17	13.475	1016.19	13.074	1024.73	13.370	1028.37	13.273	1030.56
13.884	1010.09	13.456	1016.12	13.054	1024.65	13.351	1028.37	13.254	1030.47
13.866	1010.00	13.437	1016.00	13.033	1024.56	13.331	1028.24	13.234	1030.39
13.847	1009.92	13.417	1015.96	13.013	1024.49	13.311	1028.21	13.214	1030.31
13.829	1009.84	13.398	1015.88	12.992	1024.40	13.292	1028.08	13.194	1030.23
13.811	1009.76	13.379	1015.78	12.972	1024.26	13.272	1028.01	13.174	1030.15
13.792	1009.71	13.359	1015.71	12.951	1024.19	13.252	1027.94	13.154	1030.07
13.774	1009.60	13.340	1015.63	12.931	1024.08	13.233	1027.88	13.134	1029.98
13.756	1009.51	13.321	1015.53	12.910	1023.99	13.213	1027.80	13.114	1029.90
13.737	1009.43	13.301	1015.47	12.889	1023.91	13.193	1027.72	13.094	1029.82
13.719	1009.37	13.282	1015.39	12.869	1023.84	13.174	1027.64	13.074	1029.74
13.700	1009.27	13.262	1015.30	12.848	1023.75	13.154	1027.54	13.054	1029.66
13.682	1009.19	13.243	1015.22	12.828	1023.67	13.134	1027.48	13.034	1029.58
13.664	1009.11	13.224	1015.14	12.807	1023.59	13.115	1027.39	13.014	1029.49

13.645	1009.02	13.204	1015.06	12.787	1023.51	13.095	1027.31	12.994	1029.41
13.627	1008.94	13.185	1014.98	12.766	1023.42	13.075	1027.23	12.974	1029.33
13.609	1008.86	13.166	1014.90	12.746	1023.34	13.056	1027.15	12.954	1029.25
13.590	1008.82	13.146	1014.81	12.725	1023.26	13.036	1027.07	12.934	1029.17
13.572	1008.70	13.127	1014.73	12.704	1023.18	13.016	1026.99	12.914	1029.09
13.553	1008.69	13.108	1014.62	12.684	1023.05	12.996	1026.90	12.894	1029.00
13.535	1008.57	13.088	1014.57	12.663	1023.02	12.977	1026.82	12.874	1029.00
13.517	1008.47	13.069	1014.49	12.643	1022.93	12.957	1026.77	12.854	1028.84
13.498	1008.44	13.050	1014.41	12.622	1022.77	12.937	1026.66	12.834	1028.76
13.480	1008.31	13.030	1014.32	12.602	1022.70	12.918	1026.58	12.814	1028.68
13.462	1008.27	13.011	1014.23	12.581	1022.61	12.898	1026.50	12.794	1028.60
13.443	1008.13	12.991	1014.16	12.561	1022.52	12.878	1026.41	12.774	1028.51
13.425	1008.09	12.972	1014.08	12.540	1022.44	12.859	1026.33	12.755	1028.52
13.406	1008.04	12.953	1014.00	12.520	1022.36	12.839	1026.25	12.735	1028.40
13.388	1007.93	12.933	1013.92	12.499	1022.28	12.819	1026.17	12.715	1028.27
13.370	1007.83	12.914	1013.83	12.478	1022.20	12.800	1026.09	12.695	1028.27
13.351	1007.80	12.895	1013.75	12.458	1022.12	12.780	1026.01	12.675	1028.13
13.333	1007.72	12.875	1013.67	12.437	1022.04	12.760	1025.97	12.655	1028.11
13.315	1007.64	12.856	1013.59	12.417	1021.95	12.741	1025.84	12.635	1028.02
13.296	1007.54	12.837	1013.46	12.396	1021.87	12.721	1025.79	12.615	1027.94
13.278	1007.47	12.817	1013.43	12.376	1021.79	12.701	1025.70	12.595	1027.86
13.259	1007.39	12.798	1013.34	12.355	1021.70	12.682	1025.61	12.575	1027.78
13.241	1007.31	12.778	1013.26	12.335	1021.63	12.662	1025.52	12.555	1027.66
13.223	1007.23	12.759	1013.18	12.314	1021.55	12.642	1025.44	12.535	1027.55
13.204	1007.15	12.740	1013.07	12.293	1021.44	12.623	1025.35	12.515	1027.51
13.186	1007.06	12.720	1013.02	12.273	1021.38	12.603	1025.27	12.495	1027.45
13.168	1006.98	12.701	1012.91	12.252	1021.28	12.583	1025.25	12.475	1027.37
13.149	1006.90	12.682	1012.78	12.232	1021.16	12.564	1025.11	12.455	1027.29
13.131	1006.82	12.662	1012.74	12.211	1021.05	12.544	1025.04	12.435	1027.21
13.112	1006.74	12.643	1012.67	12.191	1020.97	12.524	1024.94	12.415	1027.08
13.094	1006.66	12.624	1012.53	12.170	1020.89	12.505	1024.86	12.395	1027.05
13.076	1006.57	12.604	1012.46	12.150	1020.81	12.485	1024.84	12.375	1026.95
13.057	1006.49	12.585	1012.39	12.129	1020.73	12.465	1024.76	12.355	1026.82
13.039	1006.41	12.565	1012.28	12.108	1020.65	12.446	1024.66	12.335	1026.80
13.021	1006.33	12.546	1012.23	12.088	1020.56	12.426	1024.56	12.315	1026.64
13.002	1006.25	12.527	1012.12	12.067	1020.48	12.406	1024.45	12.295	1026.62
12.984	1006.17	12.507	1012.04	12.047	1020.40	12.387	1024.42	12.275	1026.52
12.965	1006.08	12.488	1011.95	12.026	1020.32	12.367	1024.31	12.256	1026.47
12.947	1006.00	12.469	1011.87	12.006	1020.23	12.347	1024.24	12.236	1026.39
12.929	1005.92	12.449	1011.81	11.985	1020.12	12.328	1024.13	12.216	1026.30
12.910	1005.84	12.430	1011.71	11.965	1019.99	12.308	1024.05	12.196	1026.23
12.892	1005.76	12.411	1011.63	11.944	1019.95	12.288	1023.96	12.176	1026.15
12.874	1005.68	12.391	1011.55	11.924	1019.89	12.269	1023.90	12.156	1026.07
12.855	1005.59	12.372	1011.46	11.903	1019.76	12.249	1023.80	12.136	1025.98
12.837	1005.51	12.353	1011.38	11.882	1019.67	12.229	1023.78	12.116	1025.87

12.818	1005.43	12.333	1011.30	11.862	1019.58	12.210	1023.67	12.096	1025.82
12.800	1005.35	12.314	1011.22	11.841	1019.50	12.190	1023.56	12.076	1025.74
12.782	1005.27	12.294	1011.14	11.821	1019.42	12.170	1023.47	12.056	1025.66
12.763	1005.18	12.275	1011.06	11.800	1019.34	12.151	1023.40	12.036	1025.54
12.745	1005.10	12.256	1010.97	11.780	1019.26	12.131	1023.31	12.016	1025.49
12.727	1005.02	12.236	1010.89	11.759	1019.18	12.111	1023.23	11.996	1025.41
12.708	1004.94	12.217	1010.81	11.739	1019.08	12.092	1023.15	11.976	1025.28
12.690	1004.86	12.198	1010.73	11.718	1019.01	12.072	1023.10	11.956	1025.17
12.671	1004.78	12.178	1010.65	11.697	1018.89	12.052	1022.98	11.936	1025.14
12.653	1004.69	12.159	1010.57	11.677	1018.77	12.033	1022.91	11.916	1025.09
12.635	1004.61	12.140	1010.44	11.656	1018.68	12.013	1022.82	11.896	1025.01
12.616	1004.53	12.120	1010.40	11.636	1018.60	11.993	1022.74	11.876	1024.86
12.598	1004.45	12.101	1010.24	11.615	1018.52	11.974	1022.66	11.856	1024.84
12.580	1004.37	12.081	1010.24	11.595	1018.44	11.954	1022.58	11.836	1024.68
12.561	1004.29	12.062	1010.13	11.574	1018.36	11.934	1022.55	11.816	1024.67
12.543	1004.20	12.043	1010.05	11.554	1018.28	11.914	1022.43	11.796	1024.60
12.524	1004.12	12.023	1009.92	11.533	1018.19	11.895	1022.33	11.776	1024.43
12.506	1004.04	12.004	1009.83	11.513	1018.05	11.875	1022.29	11.757	1024.35
12.488	1003.96	11.985	1009.75	11.492	1018.01	11.855	1022.17	11.737	1024.27
12.469	1003.88	11.965	1009.67	11.471	1017.87	11.836	1022.09	11.717	1024.21
12.451	1003.80	11.946	1009.59	11.451	1017.78	11.816	1022.00	11.697	1024.11
12.433	1003.71	11.927	1009.50	11.430	1017.70	11.796	1021.96	11.677	1024.02
12.414	1003.63	11.907	1009.42	11.410	1017.62	11.777	1021.84	11.657	1023.94
12.396	1003.55	11.888	1009.34	11.389	1017.54	11.757	1021.76	11.637	1023.86
12.377	1003.45	11.869	1009.26	11.369	1017.46	11.737	1021.68	11.617	1023.78
12.359	1003.34	11.849	1009.18	11.348	1017.36	11.718	1021.60	11.597	1023.70
12.341	1003.31	11.830	1009.09	11.328	1017.26	11.698	1021.52	11.577	1023.62
12.322	1003.20	11.810	1009.01	11.307	1017.13	11.678	1021.43	11.557	1023.53
12.304	1003.08	11.791	1008.93	11.286	1017.05	11.659	1021.35	11.537	1023.45
12.286	1002.98	11.772	1008.85	11.266	1016.97	11.639	1021.27	11.517	1023.37
12.267	1002.94	11.752	1008.77	11.245	1016.89	11.619	1021.19	11.497	1023.29
12.249	1002.85	11.733	1008.69	11.225	1016.80	11.600	1021.11	11.477	1023.21
12.230	1002.73	11.714	1008.60	11.204	1016.72	11.580	1021.02	11.457	1023.13
12.212	1002.65	11.694	1008.47	11.184	1016.64	11.560	1020.94	11.437	1023.04
12.194	1002.59	11.675	1008.41	11.163	1016.56	11.541	1020.86	11.417	1022.96
12.175	1002.49	11.656	1008.28	11.143	1016.44	11.521	1020.78	11.397	1022.88
12.157	1002.41	11.636	1008.20	11.122	1016.36	11.501	1020.70	11.377	1022.80
12.139	1002.32	11.617	1008.11	11.101	1016.23	11.482	1020.62	11.357	1022.72
12.120	1002.24	11.597	1008.03	11.081	1016.15	11.462	1020.53	11.337	1022.64
12.102	1002.16	11.578	1007.95	11.060	1016.07	11.442	1020.45	11.317	1022.55
12.083	1002.08	11.559	1007.87	11.040	1015.99	11.423	1020.37	11.297	1022.47
12.065	1002.00	11.539	1007.79	11.019	1015.91	11.403	1020.29	11.278	1022.39
12.047	1001.91	11.520	1007.71	10.999	1015.82	11.383	1020.18	11.258	1022.31
12.028	1001.83	11.501	1007.62	10.978	1015.74	11.364	1020.12	11.238	1022.23
12.010	1001.73	11.481	1007.54	10.958	1015.66	11.344	1020.04	11.218	1022.15

11.992	1001.67	11.462	1007.46	10.937	1015.58	11.324	1019.95	11.198	1022.02
11.973	1001.59	11.443	1007.38	10.917	1015.49	11.305	1019.82	11.178	1021.98
11.955	1001.51	11.423	1007.21	10.896	1015.38	11.285	1019.79	11.158	1021.83
11.936	1001.42	11.404	1007.22	10.875	1015.25	11.265	1019.72	11.138	1021.78
11.918	1001.34	11.384	1007.12	10.855	1015.18	11.246	1019.55	11.118	1021.71
11.900	1001.26	11.365	1006.97	10.834	1015.09	11.226	1019.48	11.098	1021.57
11.881	1001.18	11.346	1006.91	10.814	1015.01	11.206	1019.43	11.078	1021.49
11.863	1001.08	11.326	1006.82	10.793	1014.92	11.187	1019.31	11.058	1021.41
11.845	1001.02	11.307	1006.72	10.773	1014.84	11.167	1019.27	11.038	1021.33
11.826	1000.91	11.288	1006.64	10.752	1014.76	11.147	1019.14	11.018	1021.25
11.808	1000.77	11.268	1006.56	10.732	1014.63	11.128	1019.06	10.998	1021.16
11.789	1000.73	11.249	1006.48	10.711	1014.60	11.108	1019.00	10.978	1021.08
11.771	1000.69	11.230	1006.40	10.690	1014.48	11.088	1018.90	10.958	1021.00
11.753	1000.52	11.210	1006.32	10.670	1014.35	11.069	1018.82	10.938	1020.92
11.734	1000.45	11.191	1006.23	10.649	1014.27	11.049	1018.74	10.918	1020.84
11.716	1000.39	11.172	1006.15	10.629	1014.19	11.029	1018.65	10.898	1020.76
11.698	1000.28	11.152	1006.06	10.608	1014.11	11.010	1018.57	10.878	1020.67
11.679	1000.20	11.133	1005.98	10.588	1014.03	10.990	1018.49	10.858	1020.59
11.661	1000.12	11.113	1005.82	10.567	1013.92	10.970	1018.41	10.838	1020.51
11.643	1000.03	11.094	1005.74	10.547	1013.81	10.951	1018.33	10.818	1020.43
11.624	999.95	11.075	1005.66	10.526	1013.70	10.931	1018.25	10.798	1020.29
11.606	999.87	11.055	1005.58	10.506	1013.62	10.911	1018.16	10.779	1020.18
11.587	999.78	11.036	1005.50	10.485	1013.53	10.891	1018.08	10.759	1020.10
11.569	999.71	11.017	1005.42	10.464	1013.45	10.872	1018.00	10.739	1020.02
11.551	999.63	10.997	1005.33	10.444	1013.37	10.852	1017.88	10.719	1019.94
11.532	999.54	10.978	1005.18	10.423	1013.26	10.832	1017.75	10.699	1019.86
11.514	999.46	10.959	1005.15	10.403	1013.15	10.813	1017.76	10.679	1019.77
11.496	999.37	10.939	1005.06	10.382	1013.04	10.793	1017.67	10.659	1019.69
11.477	999.30	10.920	1005.01	10.362	1012.96	10.773	1017.55	10.639	1019.61
11.459	999.21	10.900	1004.89	10.341	1012.88	10.754	1017.43	10.619	1019.53
11.440	999.10	10.881	1004.76	10.321	1012.80	10.734	1017.39	10.599	1019.45
11.422	998.97	10.862	1004.68	10.300	1012.72	10.714	1017.26	10.579	1019.37
11.404	998.92	10.842	1004.60	10.279	1012.64	10.695	1017.18	10.559	1019.28
11.385	998.81	10.823	1004.52	10.259	1012.48	10.675	1017.10	10.539	1019.20
11.367	998.73	10.804	1004.43	10.238	1012.39	10.655	1017.02	10.519	1019.08
11.349	998.64	10.784	1004.35	10.218	1012.31	10.636	1016.94	10.499	1019.01
11.330	998.56	10.765	1004.27	10.197	1012.23	10.616	1016.86	10.479	1018.92
11.312	998.48	10.746	1004.11	10.177	1012.15	10.596	1016.77	10.459	1018.79
11.293	998.40	10.726	1004.11	10.156	1012.06	10.577	1016.69	10.439	1018.71
11.275	998.32	10.707	1003.94	10.136	1011.98	10.557	1016.61	10.419	1018.63
11.257	998.24	10.688	1003.87	10.115	1011.90	10.537	1016.53	10.399	1018.55
11.238	998.13	10.668	1003.78	10.095	1011.75	10.518	1016.45	10.379	1018.47
11.220	998.07	10.649	1003.70	10.074	1011.66	10.498	1016.31	10.359	1018.39
11.202	997.98	10.629	1003.62	10.053	1011.57	10.478	1016.25	10.339	1018.30
11.183	997.91	10.610	1003.53	10.033	1011.49	10.459	1016.20	10.319	1018.22

11.165	997.75	10.591	1003.45	10.012	1011.41	10.439	1016.07	10.299	1018.14
11.146	997.75	10.571	1003.29	9.992	1011.33	10.419	1015.96	10.280	1018.06
11.128	997.63	10.552	1003.21	9.971	1011.25	10.400	1015.87	10.260	1017.98
11.110	997.50	10.533	1003.12	9.951	1011.12	10.380	1015.79	10.240	1017.90
11.091	997.42	10.513	1003.04	9.930	1011.00	10.360	1015.71	10.220	1017.81
11.073	997.34	10.494	1002.96	9.910	1010.94	10.341	1015.63	10.200	1017.65
11.055	997.30	10.475	1002.88	9.889	1010.84	10.321	1015.55	10.180	1017.62
11.036	997.17	10.455	1002.80	9.868	1010.75	10.301	1015.46	10.160	1017.49
11.018	997.09	10.436	1002.64	9.848	1010.67	10.282	1015.38	10.140	1017.40
10.999	997.01	10.416	1002.55	9.827	1010.59	10.262	1015.30	10.120	1017.32
10.981	996.93	10.397	1002.47	9.807	1010.43	10.242	1015.22	10.100	1017.24
10.963	996.85	10.378	1002.39	9.786	1010.34	10.223	1015.14	10.080	1017.16
10.944	996.76	10.358	1002.31	9.766	1010.26	10.203	1015.04	10.060	1017.08
10.926	996.62	10.339	1002.22	9.745	1010.18	10.183	1014.96	10.040	1017.00
10.908	996.55	10.320	1002.07	9.725	1010.06	10.164	1014.89	10.020	1016.91
10.889	996.49	10.300	1001.98	9.704	1009.93	10.144	1014.73	10.000	1016.75
10.871	996.44	10.281	1001.90	9.683	1009.86	10.124	1014.65	9.980	1016.70
10.852	996.32	10.262	1001.81	9.663	1009.77	10.105	1014.57	9.960	1016.66
10.834	996.19	10.242	1001.73	9.642	1009.69	10.085	1014.48	9.940	1016.50
10.816	996.11	10.223	1001.65	9.622	1009.55	10.065	1014.40	9.920	1016.42
10.797	996.03	10.203	1001.49	9.601	1009.44	10.046	1014.32	9.900	1016.34
10.779	995.95	10.184	1001.40	9.581	1009.36	10.026	1014.24	9.880	1016.26
10.761	995.86	10.165	1001.32	9.560	1009.28	10.006	1014.16	9.860	1016.18
10.742	995.78	10.145	1001.24	9.540	1009.20	9.987	1014.08	9.840	1016.10
10.724	995.70	10.126	1001.16	9.519	1009.12	9.967	1014.00	9.820	1016.01
10.705	995.62	10.107	1001.08	9.499	1008.95	9.947	1013.89	9.800	1015.85
10.687	995.51	10.087	1000.97	9.478	1008.87	9.928	1013.82	9.781	1015.77
10.669	995.46	10.068	1000.83	9.457	1008.79	9.908	1013.68	9.761	1015.72
10.650	995.36	10.049	1000.75	9.437	1008.71	9.888	1013.59	9.741	1015.60
10.632	995.21	10.029	1000.67	9.416	1008.59	9.869	1013.50	9.721	1015.52
10.614	995.13	10.010	1000.59	9.396	1008.46	9.849	1013.42	9.701	1015.44
10.595	995.05	9.991	1000.50	9.375	1008.38	9.829	1013.34	9.681	1015.36
10.577	994.96	9.971	1000.34	9.355	1008.30	9.809	1013.26	9.661	1015.28
10.558	994.88	9.952	1000.26	9.334	1008.22	9.790	1013.17	9.641	1015.20
10.540	994.80	9.932	1000.18	9.314	1008.14	9.770	1013.10	9.621	1015.11
10.522	994.69	9.913	1000.09	9.293	1008.03	9.750	1013.00	9.601	1015.03
10.503	994.64	9.894	1000.01	9.272	1007.89	9.731	1012.92	9.581	1014.87
10.485	994.55	9.874	999.93	9.252	1007.81	9.711	1012.83	9.561	1014.79
10.467	994.47	9.855	999.80	9.231	1007.73	9.691	1012.69	9.541	1014.71
10.448	994.31	9.836	999.68	9.211	1007.61	9.672	1012.60	9.521	1014.62
10.430	994.27	9.816	999.60	9.190	1007.55	9.652	1012.52	9.501	1014.54
10.411	994.14	9.797	999.52	9.170	1007.40	9.632	1012.44	9.481	1014.46
10.393	994.06	9.778	999.44	9.149	1007.32	9.613	1012.36	9.461	1014.38
10.375	993.98	9.758	999.36	9.129	1007.23	9.593	1012.28	9.441	1014.30
10.356	993.90	9.739	999.21	9.108	1007.13	9.573	1012.17	9.421	1014.22

10.338	993.82	9.719	999.11	9.088	1006.99	9.554	1012.08	9.401	1014.05
10.320	993.74	9.700	999.03	9.067	1006.91	9.534	1011.97	9.381	1013.97
10.301	993.57	9.681	998.95	9.046	1006.83	9.514	1011.87	9.361	1013.89
10.283	993.56	9.661	998.87	9.026	1006.74	9.495	1011.79	9.341	1013.81
10.264	993.41	9.642	998.70	9.005	1006.60	9.475	1011.70	9.321	1013.72
10.246	993.33	9.623	998.64	8.985	1006.50	9.455	1011.62	9.301	1013.64
10.228	993.24	9.603	998.54	8.964	1006.42	9.436	1011.54	9.282	1013.55
10.209	993.16	9.584	998.46	8.944	1006.33	9.416	1011.46	9.262	1013.44
10.191	993.08	9.565	998.37	8.923	1006.25	9.396	1011.38	9.242	1013.31
10.173	993.00	9.545	998.29	8.903	1006.09	9.377	1011.30	9.222	1013.23
10.154	992.92	9.526	998.21	8.882	1006.01	9.357	1011.13	9.202	1013.15
10.136	992.79	9.507	998.13	8.861	1005.92	9.337	1011.05	9.182	1013.07
10.117	992.67	9.487	997.99	8.841	1005.83	9.318	1010.97	9.162	1012.99
10.099	992.60	9.468	997.88	8.820	1005.72	9.298	1010.89	9.142	1012.91
10.081	992.51	9.448	997.80	8.800	1005.60	9.278	1010.80	9.122	1012.82
10.062	992.43	9.429	997.72	8.779	1005.51	9.259	1010.72	9.102	1012.74
10.044	992.34	9.410	997.64	8.759	1005.43	9.239	1010.64	9.082	1012.66
10.026	992.26	9.390	997.56	8.738	1005.33	9.219	1010.56	9.062	1012.50
10.007	992.18	9.371	997.39	8.718	1005.19	9.200	1010.40	9.042	1012.41
9.989	992.02	9.352	997.31	8.697	1005.11	9.180	1010.31	9.022	1012.33
9.970	991.93	9.332	997.23	8.677	1005.02	9.160	1010.23	9.002	1012.25
9.952	991.85	9.313	997.15	8.656	1004.93	9.141	1010.15	8.982	1012.17
9.934	991.77	9.294	997.07	8.635	1004.78	9.121	1010.07	8.962	1012.09
9.915	991.69	9.274	996.90	8.615	1004.70	9.101	1009.99	8.942	1011.98
9.897	991.61	9.255	996.82	8.594	1004.61	9.082	1009.90	8.922	1011.93
9.879	991.53	9.235	996.74	8.574	1004.50	9.062	1009.82	8.902	1011.76
9.860	991.36	9.216	996.66	8.553	1004.37	9.042	1009.70	8.882	1011.68
9.842	991.28	9.197	996.57	8.533	1004.29	9.023	1009.58	8.862	1011.60
9.823	991.20	9.177	996.41	8.512	1004.20	9.003	1009.49	8.842	1011.56
9.805	991.12	9.158	996.33	8.492	1004.12	8.983	1009.41	8.822	1011.44
9.787	991.03	9.139	996.25	8.471	1004.04	8.964	1009.33	8.802	1011.39
9.768	990.95	9.119	996.16	8.450	1003.91	8.944	1009.25	8.783	1011.27
9.750	990.86	9.100	996.08	8.430	1003.80	8.924	1009.17	8.763	1011.19
9.732	990.77	9.081	995.92	8.409	1003.71	8.905	1009.09	8.743	1011.11
9.713	990.62	9.061	995.84	8.389	1003.63	8.885	1009.01	8.723	1011.03
9.695	990.54	9.042	995.75	8.368	1003.51	8.865	1008.84	8.703	1010.94
9.676	990.46	9.022	995.67	8.348	1003.39	8.846	1008.76	8.683	1010.91
9.658	990.38	9.003	995.59	8.327	1003.30	8.826	1008.68	8.663	1010.79
9.640	990.30	8.984	995.43	8.307	1003.22	8.806	1008.60	8.643	1010.70
9.621	990.20	8.964	995.41	8.286	1003.14	8.787	1008.51	8.623	1010.59
9.603	990.10	8.945	995.26	8.265	1002.98	8.767	1008.38	8.603	1010.50
9.585	989.97	8.926	995.18	8.245	1002.89	8.747	1008.27	8.583	1010.40
9.566	989.89	8.906	995.10	8.224	1002.81	8.727	1008.18	8.563	1010.30
9.548	989.81	8.887	995.02	8.204	1002.71	8.708	1008.10	8.543	1010.29
9.529	989.72	8.868	994.94	8.183	1002.57	8.688	1008.02	8.523	1010.13

9.511	989.64	8.848	994.83	8.163	1002.49	8.668	1007.94	8.503	1010.10
9.493	989.56	8.829	994.69	8.142	1002.40	8.649	1007.84	8.483	1009.96
9.474	989.46	8.810	994.61	8.122	1002.27	8.629	1007.72	8.463	1009.88
9.456	989.34	8.790	994.53	8.101	1002.16	8.609	1007.61	8.443	1009.80
9.438	989.23	8.771	994.45	8.081	1002.08	8.590	1007.56	8.423	1009.71
9.419	989.15	8.751	994.36	8.060	1001.99	8.570	1007.45	8.403	1009.60
9.401	989.07	8.732	994.26	8.039	1001.91	8.550	1007.37	8.383	1009.49
9.382	988.99	8.713	994.15	8.019	1001.79	8.531	1007.21	8.363	1009.39
9.364	988.86	8.693	994.04	7.998	1001.67	8.511	1007.12	8.343	1009.31
9.346	988.75	8.674	993.95	7.978	1001.59	8.491	1007.05	8.323	1009.25
9.327	988.66	8.655	993.87	7.957	1001.50	8.472	1006.96	8.303	1009.19
9.309	988.58	8.635	993.79	7.937	1001.39	8.452	1006.88	8.284	1009.05
9.291	988.50	8.616	993.71	7.916	1001.26	8.432	1006.79	8.264	1008.93
9.272	988.41	8.597	993.54	7.896	1001.18	8.413	1006.64	8.244	1008.90
9.254	988.33	8.577	993.46	7.875	1001.09	8.393	1006.55	8.224	1008.79
9.235	988.25	8.558	993.38	7.854	1001.01	8.373	1006.47	8.204	1008.68
9.217	988.13	8.538	993.29	7.834	1000.85	8.354	1006.38	8.184	1008.57
9.199	988.00	8.519	993.15	7.813	1000.77	8.334	1006.30	8.164	1008.49
9.180	987.92	8.500	993.05	7.793	1000.69	8.314	1006.22	8.144	1008.41
9.162	987.84	8.480	992.97	7.772	1000.60	8.295	1006.14	8.124	1008.33
9.144	987.76	8.461	992.89	7.752	1000.44	8.275	1005.97	8.104	1008.25
9.125	987.64	8.442	992.79	7.731	1000.36	8.255	1005.89	8.084	1008.15
9.107	987.51	8.422	992.64	7.711	1000.28	8.236	1005.81	8.064	1008.02
9.088	987.43	8.403	992.56	7.690	1000.11	8.216	1005.72	8.044	1007.92
9.070	987.35	8.384	992.48	7.670	1000.03	8.196	1005.65	8.024	1007.84
9.052	987.27	8.364	992.32	7.649	999.95	8.177	1005.49	8.004	1007.73
9.033	987.14	8.345	992.28	7.628	999.87	8.157	1005.40	7.984	1007.67
9.015	987.02	8.325	992.15	7.608	999.79	8.137	1005.32	7.964	1007.56
8.997	986.94	8.306	992.07	7.587	999.62	8.118	1005.24	7.944	1007.43
8.978	986.86	8.287	991.99	7.567	999.54	8.098	1005.16	7.924	1007.32
8.960	986.78	8.267	991.91	7.546	999.46	8.078	1005.00	7.904	1007.26
8.941	986.70	8.248	991.83	7.526	999.38	8.059	1004.92	7.884	1007.18
8.923	986.58	8.229	991.66	7.505	999.21	8.039	1004.83	7.864	1007.07
8.905	986.48	8.209	991.58	7.485	999.13	8.019	1004.75	7.844	1006.94
8.886	986.37	8.190	991.50	7.464	999.05	8.000	1004.67	7.824	1006.85
8.868	986.29	8.171	991.37	7.443	998.90	7.980	1004.55	7.804	1006.75
8.850	986.20	8.151	991.25	7.423	998.80	7.960	1004.42	7.785	1006.69
8.831	986.05	8.132	991.17	7.402	998.72	7.941	1004.34	7.765	1006.57
8.813	985.96	8.113	991.09	7.382	998.55	7.921	1004.26	7.745	1006.44
8.794	985.88	8.093	991.01	7.361	998.47	7.901	1004.17	7.725	1006.36
8.776	985.79	8.074	990.84	7.341	998.39	7.882	1004.09	7.705	1006.28
8.758	985.71	8.054	990.76	7.320	998.27	7.862	1004.01	7.685	1006.14
8.739	985.63	8.035	990.68	7.300	998.15	7.842	1003.85	7.665	1006.10
8.721	985.55	8.016	990.60	7.279	998.06	7.823	1003.76	7.645	1005.97
8.703	985.38	7.996	990.48	7.258	997.98	7.803	1003.68	7.625	1005.87

8.684	985.30	7.977	990.35	7.238	997.85	7.783	1003.60	7.605	1005.79
8.666	985.22	7.958	990.27	7.217	997.74	7.764	1003.52	7.585	1005.71
8.647	985.14	7.938	990.19	7.197	997.65	7.744	1003.37	7.565	1005.54
8.629	985.04	7.919	990.11	7.176	997.52	7.724	1003.27	7.545	1005.46
8.611	984.89	7.900	990.02	7.156	997.41	7.705	1003.19	7.525	1005.38
8.592	984.81	7.880	989.86	7.135	997.33	7.685	1003.11	7.505	1005.28
8.574	984.73	7.861	989.78	7.115	997.17	7.665	1003.03	7.485	1005.15
8.556	984.65	7.841	989.70	7.094	997.08	7.645	1002.88	7.465	1005.10
8.537	984.57	7.822	989.61	7.074	997.00	7.626	1002.78	7.445	1004.97
8.519	984.40	7.803	989.45	7.053	996.83	7.606	1002.70	7.425	1004.89
8.500	984.32	7.783	989.37	7.032	996.75	7.586	1002.62	7.405	1004.78
8.482	984.24	7.764	989.29	7.012	996.67	7.567	1002.54	7.385	1004.66
8.464	984.14	7.745	989.21	6.991	996.54	7.547	1002.37	7.365	1004.60
8.445	984.04	7.725	989.04	6.971	996.42	7.527	1002.29	7.345	1004.48
8.427	983.91	7.706	988.96	6.950	996.34	7.508	1002.21	7.325	1004.40
8.409	983.83	7.687	988.88	6.930	996.18	7.488	1002.13	7.305	1004.31
8.390	983.75	7.667	988.80	6.909	996.10	7.468	1001.97	7.286	1004.20
8.372	983.63	7.648	988.64	6.889	996.02	7.449	1001.88	7.266	1004.14
8.353	983.50	7.629	988.55	6.868	995.93	7.429	1001.80	7.246	1004.00
8.335	983.42	7.609	988.47	6.847	995.77	7.409	1001.72	7.226	1003.86
8.317	983.27	7.590	988.39	6.827	995.69	7.390	1001.63	7.206	1003.79
8.298	983.17	7.570	988.30	6.806	995.61	7.370	1001.55	7.186	1003.66
8.280	983.09	7.551	988.14	6.786	995.46	7.350	1001.39	7.166	1003.58
8.262	983.01	7.532	988.06	6.765	995.36	7.331	1001.31	7.146	1003.50
8.243	982.84	7.512	987.98	6.745	995.28	7.311	1001.23	7.126	1003.36
8.225	982.76	7.493	987.87	6.724	995.13	7.291	1001.07	7.106	1003.29
8.207	982.68	7.474	987.73	6.704	995.03	7.272	1001.02	7.086	1003.20
8.188	982.60	7.454	987.65	6.683	994.95	7.252	1000.93	7.066	1003.08
8.170	982.43	7.435	987.57	6.663	994.79	7.232	1000.82	7.046	1003.00
8.151	982.35	7.416	987.42	6.642	994.70	7.213	1000.73	7.026	1002.85
8.133	982.27	7.396	987.32	6.621	994.62	7.193	1000.63	7.006	1002.79
8.115	982.13	7.377	987.24	6.601	994.46	7.173	1000.49	6.986	1002.68
8.096	982.02	7.357	987.16	6.580	994.38	7.154	1000.41	6.966	1002.57
8.078	981.94	7.338	987.08	6.560	994.22	7.134	1000.32	6.946	1002.43
8.060	981.83	7.319	986.91	6.539	994.13	7.114	1000.19	6.926	1002.35
8.041	981.69	7.299	986.83	6.519	994.05	7.095	1000.08	6.906	1002.27
8.023	981.61	7.280	986.75	6.498	993.88	7.075	1000.00	6.886	1002.18
8.004	981.53	7.261	986.58	6.478	993.80	7.055	999.91	6.866	1002.02
7.986	981.38	7.241	986.50	6.457	993.72	7.036	999.81	6.846	1001.94
7.968	981.28	7.222	986.42	6.436	993.56	7.016	999.74	6.826	1001.86
7.949	981.20	7.203	986.34	6.416	993.47	6.996	999.59	6.806	1001.74
7.931	981.12	7.183	986.26	6.395	993.39	6.977	999.50	6.787	1001.66
7.913	980.99	7.164	986.17	6.375	993.23	6.957	999.38	6.767	1001.55
7.894	980.87	7.144	986.06	6.354	993.15	6.937	999.26	6.747	1001.45
7.876	980.79	7.125	985.93	6.334	992.99	6.918	999.18	6.727	1001.33

7.857	980.70	7.106	985.87	6.313	992.90	6.898	999.09	6.707	1001.20
7.839	980.59	7.086	985.77	6.293	992.81	6.878	998.99	6.687	1001.12
7.821	980.47	7.067	985.68	6.272	992.66	6.859	998.88	6.667	1001.04
7.802	980.38	7.048	985.60	6.252	992.57	6.839	998.77	6.647	1000.87
7.784	980.30	7.028	985.47	6.231	992.41	6.819	998.68	6.627	1000.79
7.766	980.19	7.009	985.36	6.210	992.33	6.800	998.56	6.607	1000.71
7.747	980.08	6.990	985.27	6.190	992.24	6.780	998.44	6.587	1000.63
7.729	979.97	6.970	985.18	6.169	992.08	6.760	998.36	6.567	1000.48
7.710	979.89	6.951	985.11	6.149	992.00	6.741	998.28	6.547	1000.38
7.692	979.81	6.932	984.95	6.128	991.86	6.721	998.15	6.527	1000.27
7.674	979.73	6.912	984.86	6.108	991.75	6.701	998.03	6.507	1000.16
7.655	979.56	6.893	984.78	6.087	991.67	6.682	997.95	6.487	1000.05
7.637	979.48	6.873	984.68	6.067	991.54	6.662	997.87	6.467	999.96
7.619	979.40	6.854	984.55	6.046	991.42	6.642	997.70	6.447	999.84
7.600	979.29	6.835	984.49	6.025	991.34	6.623	997.62	6.427	999.73
7.582	979.15	6.815	984.37	6.005	991.26	6.603	997.54	6.407	999.64
7.563	979.07	6.796	984.23	5.984	991.11	6.583	997.39	6.387	999.56
7.545	978.99	6.777	984.18	5.964	991.01	6.563	997.29	6.367	999.44
7.527	978.89	6.757	984.05	5.943	990.93	6.544	997.21	6.347	999.32
7.508	978.74	6.738	983.96	5.923	990.83	6.524	997.11	6.327	999.23
7.490	978.66	6.719	983.84	5.902	990.69	6.504	996.98	6.307	999.12
7.472	978.58	6.699	983.72	5.882	990.60	6.485	996.88	6.288	998.99
7.453	978.50	6.680	983.64	5.861	990.44	6.465	996.80	6.268	998.91
7.435	978.33	6.660	983.51	5.840	990.36	6.445	996.65	6.248	998.78
7.416	978.25	6.641	983.41	5.820	990.19	6.426	996.55	6.228	998.74
7.398	978.17	6.622	983.31	5.799	990.11	6.406	996.47	6.208	998.58
7.380	978.02	6.602	983.23	5.779	990.03	6.386	996.39	6.188	998.50
7.361	977.93	6.583	983.07	5.758	989.87	6.367	996.22	6.168	998.41
7.343	977.84	6.564	983.02	5.738	989.78	6.347	996.14	6.148	998.31
7.325	977.76	6.544	982.90	5.717	989.62	6.327	996.06	6.128	998.17
7.306	977.63	6.525	982.82	5.697	989.54	6.308	995.91	6.108	998.09
7.288	977.52	6.506	982.67	5.676	989.37	6.288	995.82	6.088	997.99
7.269	977.43	6.486	982.57	5.656	989.29	6.268	995.73	6.068	997.84
7.251	977.28	6.467	982.47	5.635	989.13	6.249	995.61	6.048	997.76
7.233	977.19	6.448	982.33	5.614	989.05	6.229	995.49	6.028	997.68
7.214	977.11	6.428	982.24	5.594	988.88	6.209	995.41	6.008	997.53
7.196	977.02	6.409	982.13	5.573	988.80	6.190	995.32	5.988	997.40
7.178	976.86	6.389	982.00	5.553	988.63	6.170	995.24	5.968	997.30
7.159	976.78	6.370	981.90	5.532	988.55	6.150	995.08	5.948	997.18
7.141	976.70	6.351	981.83	5.512	988.39	6.131	995.00	5.928	997.10
7.122	976.53	6.331	981.69	5.491	987.97	6.111	994.91	5.908	996.95
7.104	976.45	6.312	981.59	5.471	987.89	6.091	994.75	5.888	996.86
7.086	976.37	6.293	981.46	5.450	987.81	6.072	994.67	5.868	996.77
7.067	976.20	6.273	981.34	5.429	987.68	6.052	994.59	5.848	996.65
7.049	976.12	6.254	981.26	5.409	987.56	6.032	994.42	5.828	996.55

7.031	976.04	6.235	981.16	5.388	987.48	6.013	994.34	5.808	996.45
7.012	975.96	6.215	981.01	5.368	987.40	5.993	994.26	5.789	996.36
6.994	975.79	6.196	980.90	5.347	987.27	5.973	994.09	5.769	996.20
6.975	975.71	6.176	980.82	5.327	987.15	5.954	994.01	5.749	996.12
6.957	975.62	6.157	980.68	5.306	987.00	5.934	993.90	5.729	995.97
6.939	975.47	6.138	980.55	5.286	986.91	5.914	993.77	5.709	995.91
6.920	975.38	6.118	980.45	5.265	986.83	5.895	993.68	5.689	995.79
6.902	975.28	6.099	980.35	5.245	986.66	5.875	993.60	5.669	995.68
6.884	975.14	6.080	980.20	5.224	986.58	5.855	993.50	5.649	995.54
6.865	975.06	6.060	980.11	5.203	986.50	5.836	993.36	5.629	995.46
6.847	974.97	6.041	980.02	5.183	986.33	5.816	993.27	5.609	995.36
6.828	974.81	6.022	979.86	5.162	986.22	5.796	993.11	5.589	995.22
6.810	974.73	6.002	979.78	5.142	986.09	5.777	993.03	5.569	995.13
6.792	974.65	5.983	979.63	5.121	985.98	5.757	992.95	5.549	995.03
6.773	974.56	5.963	979.53	5.101	985.85	5.737	992.83	5.529	994.89
6.755	974.40	5.944	979.43	5.080	985.76	5.718	992.70	5.509	994.81
6.737	974.32	5.925	979.29	5.060	985.59	5.698	992.62	5.489	994.66
6.718	974.17	5.905	979.21	5.039	985.51	5.678	992.51	5.469	994.56
6.700	974.07	5.886	979.13	5.018	985.35	5.659	992.37	5.449	994.48
6.681	973.99	5.867	978.96	4.998	985.18	5.639	992.29	5.429	994.38
6.663	973.88	5.847	978.88	4.977	985.10	5.619	992.18	5.409	994.23
6.645	973.74	5.828	978.71	4.957	985.00	5.600	992.04	5.389	994.15
6.626	973.66	5.809	978.63	4.936	984.85	5.580	991.96	5.369	993.99
6.608	973.58	5.789	978.54	4.916	984.73	5.560	991.80	5.349	993.90
6.590	973.42	5.770	978.41	4.895	984.61	5.540	991.72	5.329	993.81
6.571	973.33	5.751	978.30	4.875	984.46	5.521	991.63	5.309	993.66
6.553	973.17	5.731	978.14	4.854	984.36	5.501	991.55	5.290	993.58
6.534	973.09	5.712	978.06	4.833	984.20	5.481	991.39	5.270	993.49
6.516	973.01	5.692	977.92	4.813	984.11	5.462	991.31	5.250	993.38
6.498	972.84	5.673	977.81	4.792	983.95	5.442	991.22	5.230	993.30
6.479	972.76	5.654	977.66	4.772	983.81	5.422	991.06	5.210	993.17
6.461	972.68	5.634	977.57	4.751	983.70	5.403	990.98	5.190	993.08
6.443	972.51	5.615	977.43	4.731	983.54	5.383	990.90	5.170	992.98
6.424	972.43	5.596	977.32	4.710	983.46	5.363	990.73	5.150	992.85
6.406	972.35	5.576	977.24	4.690	983.29	5.344	990.65	5.130	992.76
6.387	972.18	5.557	977.07	4.669	983.21	5.324	990.57	5.110	992.60
6.369	972.10	5.538	976.98	4.649	983.05	5.304	990.40	5.090	992.51
6.351	972.02	5.518	976.84	4.628	982.97	5.285	990.32	5.070	992.42
6.332	971.86	5.499	976.74	4.607	982.80	5.265	990.16	5.050	992.29
6.314	971.77	5.479	976.66	4.587	982.67	5.245	990.07	5.030	992.18
6.296	971.69	5.460	976.50	4.566	982.56	5.226	989.99	5.010	992.10
6.277	971.53	5.441	976.42	4.546	982.45	5.206	989.83	4.990	991.95
6.259	971.45	5.421	976.25	4.525	982.31	5.186	989.75	4.970	991.85
6.240	971.37	5.402	976.17	4.505	982.14	5.167	989.67	4.950	991.76
6.222	971.20	5.383	976.02	4.484	982.06	5.147	989.50	4.930	991.61

6.204	971.12	5.363	975.92	4.464	981.90	5.127	989.42	4.910	991.53
6.185	970.95	5.344	975.76	4.443	981.75	5.108	989.25	4.890	991.44
6.167	970.87	5.325	975.68	4.422	981.65	5.088	989.17	4.870	991.29
6.149	970.71	5.305	975.51	4.402	981.38	5.068	989.08	4.850	991.20
6.130	970.63	5.286	975.43	4.381	981.16	5.049	988.93	4.830	991.08
6.112	970.54	5.267	975.29	4.361	980.99	5.029	988.83	4.810	990.97
6.093	970.38	5.247	975.18	4.340	980.83	5.009	988.68	4.791	990.87
6.075	970.30	5.228	975.02	4.320	980.66	4.990	988.60	4.771	990.71
6.057	970.13	5.208	974.94	4.299	980.50	4.970	988.50	4.751	990.62
6.038	970.05	5.189	974.78	4.279	980.37	4.950	988.35	4.731	990.52
6.020	969.97	5.170	974.68	4.258	980.25	4.931	988.27	4.711	990.38
6.002	969.80	5.150	974.53	4.238	980.14	4.911	988.14	4.691	990.30
5.983	969.72	5.131	974.41	4.217	980.00	4.891	988.02	4.671	990.14
5.965	969.64	5.112	974.28	4.196	979.84	4.872	987.93	4.651	990.04
5.946	969.48	5.092	974.13	4.176	979.76	4.852	987.78	4.631	989.94
5.928	969.40	5.073	974.03	4.155	979.59	4.832	987.70	4.611	989.80
5.910	969.23	5.054	973.62	4.135	979.51	4.813	987.53	4.591	989.71
5.891	969.15	5.034	973.54	4.114	979.50	4.793	987.45	4.571	989.56
5.873	969.07	5.015	973.38	4.094	979.27	4.773	987.37	4.551	989.47
5.855	968.90	4.995	973.20	4.073	979.10	4.754	987.20	4.531	989.38
5.836	968.82	4.976	973.04	4.053	979.02	4.734	987.12	4.511	989.23
5.818	968.66	4.957	973.29	4.032	978.96	4.714	986.96	4.491	989.12
5.799	968.57	4.937	972.96	4.011	978.86	4.695	986.87	4.471	988.98
5.781	968.41	4.918	972.92	3.991	978.78	4.675	986.71	4.451	988.65
5.763	968.33	4.899	972.86	3.970	978.54	4.655	986.58	4.431	988.53
5.744	968.16	4.879	972.64	3.950	978.37	4.636	986.46	4.411	988.40
5.726	968.08	4.860	972.47	3.929	978.32	4.616	986.38	4.391	988.32
5.708	968.00	4.841	972.39	3.909	978.22	4.596	986.22	4.371	988.16
5.689	967.83	4.821	972.23	3.888	978.04	4.577	986.22	4.351	988.02
5.671	967.75	4.802	972.14	3.868	978.01	4.557	985.99	4.331	987.91
5.652	967.59	4.782	972.00	3.847	977.87	4.537	985.81	4.311	987.79
5.634	967.53	4.763	971.90	3.827	977.71	4.518	985.72	4.292	987.70
5.616	967.43	4.744	971.82	3.806	977.56	4.498	985.56	4.272	987.66
5.597	967.34	4.724	971.65	3.785	977.46	4.478	985.42	4.252	987.54
5.579	967.18	4.705	971.57	3.765	977.30	4.458	985.35	4.232	987.38
5.561	967.11	4.686	971.45	3.744	977.17	4.439	985.29	4.212	987.25
5.542	967.02	4.666	971.32	3.724	977.01	4.419	985.15	4.192	987.09
5.524	966.91	4.647	971.23	3.703	976.89	4.399	985.01	4.172	986.92
5.505	966.77	4.628	971.08	3.683	976.72	4.380	985.06	4.152	986.76
5.487	966.69	4.608	970.91	3.662	976.56	4.360	984.90	4.132	986.68
5.469	966.55	4.589	970.83	3.642	976.22	4.340	984.74	4.112	986.76
5.450	966.44	4.570	970.67	3.621	976.06	4.321	984.68	4.092	986.68
5.432	966.19	4.550	970.58	3.600	975.90	4.301	984.58	4.072	986.38
5.414	966.03	4.531	970.42	3.580	975.73	4.281	984.50	4.052	986.39
2.764	74.45	2.720	73.19	2.677	71.36	4.262	984.33	4.032	986.16

2.750	73.06	2.706	72.22	2.664	70.84	4.242	984.19	4.012	986.24
2.737	72.29	2.693	71.65	2.651	70.34	4.222	984.08	3.992	986.11
2.724	71.72	2.680	71.16	2.638	69.85	4.203	983.95	3.972	985.94
2.710	71.21	2.667	70.61	2.625	69.36	4.183	983.88	3.952	985.71
2.697	70.71	2.654	70.15	2.612	68.88	4.163	983.76	3.932	985.63
2.684	70.25	2.641	69.61	2.599	68.39	4.144	983.69	3.912	985.56
2.670	69.74	2.627	69.14	2.586	67.91	4.124	983.55	3.892	985.29
2.657	69.23	2.614	68.64	2.573	67.40	4.104	983.50	3.872	985.32
2.643	68.76	2.601	68.13	2.560	66.93	4.085	983.39	3.852	985.15
2.630	68.28	2.588	67.67	2.547	66.44	4.065	983.27	3.832	985.19
2.617	67.78	2.575	67.14	2.534	65.99	4.045	983.13	3.812	985.02
2.603	67.29	2.562	66.67	2.521	65.45	4.026	982.99	3.793	984.90
2.590	66.75	2.548	66.18	2.508	64.99	4.006	982.90	3.773	984.70
2.577	66.29	2.535	65.74	2.495	64.54	3.986	982.82	3.753	984.40
2.563	65.72	2.522	65.21	2.482	64.08	3.967	982.70	3.733	984.30
2.550	65.30	2.509	64.75	2.469	63.59	3.947	982.58	3.713	984.13
2.537	64.91	2.496	64.25	2.456	63.13	3.927	982.46	3.693	983.93
2.523	64.38	2.483	63.80	2.444	62.68	3.908	982.36	3.673	983.80
2.510	63.92	2.469	63.35	2.431	62.23	3.888	982.27	3.653	983.70
2.496	63.47	2.456	62.87	2.418	61.78	3.868	982.13	3.633	983.56
2.483	62.95	2.443	62.44	2.405	61.34	3.849	981.97	3.613	983.39
2.470	62.54	2.430	61.93	2.392	60.90	3.829	981.87	3.593	983.31
2.456	62.04	2.417	61.47	2.379	60.46	3.809	981.76	3.573	983.14
2.443	61.62	2.404	61.05	2.366	60.01	3.790	981.64	3.553	983.06
2.430	61.14	2.391	60.55	2.353	59.54	3.770	981.53	3.533	982.92
2.416	60.69	2.377	60.12	2.340	59.10	3.750	981.39	3.513	982.82
2.403	60.23	2.364	59.70	2.327	58.66	3.731	981.24	3.493	982.65
2.390	59.80	2.351	59.22	2.314	58.23	3.711	981.13	3.473	982.57
2.376	59.33	2.338	58.80	2.301	57.80	3.691	980.97	3.453	982.45
2.363	58.95	2.325	58.32	2.288	57.36	3.672	980.88	3.433	982.32
2.349	58.43	2.312	57.91	2.275	56.93	3.652	980.72	3.413	982.21
2.336	58.01	2.298	57.49	2.262	56.51	3.632	980.59	3.393	982.08
2.323	57.60	2.285	57.03	2.249	56.08	3.613	980.47	3.373	981.99
2.309	57.11	2.272	56.55	2.236	55.65	3.593	980.23	3.353	981.83
2.296	56.69	2.259	56.14	2.223	55.20	3.573	980.06	3.333	981.75
2.283	56.25	2.246	55.73	2.210	54.76	3.554	979.81	3.313	981.58
2.269	55.81	2.233	55.26	2.198	54.34	3.534	979.66	3.294	981.50
2.256	55.43	2.219	54.86	2.185	53.99	3.514	979.57	3.274	981.34
2.243	54.98	2.206	54.45	2.172	53.58	3.495	979.40	3.254	981.26
2.229	54.53	2.193	54.03	2.159	53.17	3.475	979.24	3.234	981.09
2.216	54.10	2.180	53.59	2.146	52.75	3.455	979.11	3.214	980.94
2.202	53.68	2.167	53.19	2.133	52.34	3.436	978.95	3.194	980.85
2.189	53.31	2.154	52.78	2.120	51.93	3.416	978.83	3.174	980.68
2.176	52.88	2.140	52.35	2.107	51.52	3.396	978.74	3.154	980.60
2.162	52.45	2.127	51.89	2.094	51.11	3.376	978.58	3.134	980.43

2.149	52.04	2.114	51.50	2.081	50.71	3.357	978.43	3.114	980.27
2.136	51.66	2.101	51.11	2.068	50.25	3.337	978.33	3.094	980.19
2.122	51.17	2.088	50.64	2.055	49.85	3.317	978.17	3.074	980.02
2.109	50.83	2.075	50.25	2.042	49.51	3.298	978.09	3.054	979.86
2.096	50.42	2.061	49.87	2.029	49.12	2.656	70.56	2.648	70.72
2.082	49.99	2.048	49.41	2.016	48.71	2.639	69.87	2.631	70.02
2.069	49.56	2.035	49.03	2.003	48.31	2.621	69.20	2.613	69.23
2.055	49.20	2.022	48.64	1.990	47.91	2.604	68.55	2.596	68.46
2.042	48.81	2.009	48.26	1.977	47.52	2.587	67.92	2.579	67.83
2.029	48.41	1.996	47.84	1.964	47.14	2.570	67.25	2.562	67.21
2.015	48.04	1.982	47.44	1.952	46.75	2.553	66.61	2.545	66.60
2.002	47.56	1.969	47.05	1.939	46.36	2.536	65.99	2.528	65.93
1.989	47.17	1.956	46.64	1.926	45.97	2.519	65.38	2.511	65.24
1.975	46.80	1.943	46.27	1.913	45.57	2.501	64.76	2.494	64.64
1.962	46.40	1.930	45.90	1.900	45.18	2.484	64.09	2.477	64.05
1.949	46.04	1.917	45.50	1.887	44.80	2.467	63.45	2.460	63.44
1.935	45.63	1.903	45.09	1.874	44.49	2.450	62.85	2.442	62.81
1.922	45.27	1.890	44.73	1.861	44.07	2.433	62.26	2.425	62.18
1.909	44.86	1.877	44.33	1.848	43.67	2.416	61.66	2.408	61.61
1.895	44.45	1.864	43.99	1.835	43.33	2.399	61.07	2.391	61.03
1.882	44.10	1.851	43.54	1.822	42.97	2.381	60.48	2.374	60.42
1.868	43.65	1.838	43.15	1.809	42.59	2.364	59.90	2.357	59.82
1.855	43.31	1.824	42.79	1.796	42.22	2.347	59.27	2.340	59.24
1.842	42.97	1.811	42.44	1.783	41.83	2.330	58.70	2.323	58.70
1.828	42.55	1.798	42.09	1.770	41.45	2.313	58.14	2.306	58.12
1.815	42.18	1.785	41.66	1.757	41.08	2.296	57.58	2.289	57.53
1.802	41.77	1.772	41.31	1.744	40.71	2.278	57.02	2.271	56.95
1.788	41.44	1.759	40.97	1.731	40.33	2.261	56.42	2.254	56.37
1.775	41.06	1.745	40.62	1.718	40.04	2.244	55.88	2.237	55.79
1.762	40.70	1.732	40.19	1.706	39.64	2.227	55.31	2.220	55.20
1.748	40.34	1.719	39.85	1.693	39.26	2.210	54.76	2.203	54.61
1.735	39.99	1.706	39.51	1.680	38.89	2.193	54.16	2.186	54.03
1.721	39.56	1.693	39.12	1.667	38.52	2.176	53.61	2.169	53.48
1.708	39.21	1.680	38.78	1.654	38.24	2.158	53.07	2.152	52.92
1.695	38.88	1.666	38.43	1.641	37.87	2.141	52.54	2.135	52.37
1.681	38.53	1.653	38.02	1.628	37.51	2.124	52.01	2.118	51.83
1.668	38.16	1.640	37.69	1.615	37.14	2.107	51.47	2.100	51.29
1.655	37.77	1.627	37.35	1.602	36.79	2.090	50.94	2.083	50.75
1.641	37.41	1.614	36.98	1.589	36.42	2.073	50.41	2.066	50.21
1.628	37.07	1.601	36.61	1.576	36.06	2.055	49.88	2.049	49.68
1.615	36.68	1.588	36.28	1.563	35.74	2.038	49.33	2.032	49.15
1.601	36.37	1.574	35.95	1.550	35.38	2.021	48.80	2.015	48.62
1.588	35.96	1.561	35.55	1.537	35.07	2.004	48.28	1.998	48.09
1.574	35.64	1.548	35.23	1.524	34.68	1.987	47.76	1.981	47.58
1.561	35.25	1.535	34.88	1.511	34.40	1.970	47.25	1.964	47.07

1.548	34.94	1.522	34.53	1.498	34.05	1.953	46.73	1.947	46.56
1.534	34.56	1.509	34.21	1.485	33.69	1.935	46.22	1.929	46.05
1.521	34.24	1.495	33.81	1.472	33.35	1.918	45.72	1.912	45.55
1.508	33.89	1.482	33.49	1.460	33.00	1.901	45.23	1.895	45.04
1.494	33.52	1.469	33.11	1.447	32.66	1.884	44.70	1.878	44.54
1.481	33.15	1.456	32.78	1.434	32.32	1.867	44.19	1.861	44.05
1.468	32.86	1.443	32.46	1.421	32.00	1.850	43.69	1.844	43.56
1.454	32.48	1.430	32.16	1.408	31.66	1.832	43.21	1.827	43.07
1.441	32.11	1.416	31.77	1.395	31.31	1.815	42.74	1.810	42.58
1.427	31.82	1.403	31.46	1.382	30.97	1.798	42.27	1.793	42.10
1.414	31.46	1.390	31.08	1.369	30.63	1.781	41.72	1.776	41.62
1.401	31.13	1.377	30.79	1.356	30.37	1.764	41.25	1.759	41.15
1.387	30.75	1.364	30.46	1.343	30.03	1.747	40.82	1.741	40.67
1.374	30.43	1.351	30.06	1.330	29.70	1.730	40.33	1.724	40.20
1.361	30.12	1.337	29.75	1.317	29.37	1.712	39.84	1.707	39.70
1.347	29.82	1.324	29.41	1.304	29.03	1.695	39.34	1.690	39.19
1.334	29.44	1.311	29.08	1.291	28.69	1.678	38.85	1.673	38.73
1.321	29.13	1.298	28.76	1.278	28.37	1.661	38.41	1.656	38.27
1.307	28.79	1.285	28.43	1.265	28.05	1.644	37.96	1.639	37.82
1.294	28.45	1.272	28.14	1.252	27.73	1.627	37.51	1.622	37.36
1.280	28.13	1.258	27.77	1.239	27.40	1.609	37.03	1.605	36.85
1.267	27.79	1.245	27.49	1.226	27.08	1.592	36.54	1.588	36.34
1.254	27.42	1.232	27.13	1.214	26.75	1.575	36.09	1.570	35.84
1.240	27.16	1.219	26.77	1.201	26.42	1.558	35.62	1.553	35.33
1.227	26.78	1.206	26.49	1.188	26.10	1.541	35.16	1.536	34.88
1.214	26.47	1.193	26.12	1.175	25.78	1.524	34.71	1.519	34.44
1.200	26.15	1.179	25.81	1.162	25.53	1.507	34.28	1.502	34.00
1.187	25.83	1.166	25.45	1.149	25.13	1.489	33.85	1.485	33.56
1.174	25.52	1.153	25.18	1.136	24.89	1.472	33.36	1.468	33.10
1.160	25.20	1.140	24.84	1.123	24.57	1.455	32.89	1.451	32.63
1.147	24.88	1.127	24.49	1.110	24.20	1.438	32.44	1.434	32.19
1.133	24.53	1.114	24.17	1.097	23.88	1.421	31.98	1.417	31.76
1.120	24.23	1.100	23.93	1.084	23.57	1.404	31.54	1.399	31.33
1.107	23.91	1.087	23.66	1.071	23.25	1.386	31.12	1.382	30.91
1.093	23.59	1.074	23.32	1.058	23.00	1.369	30.69	1.365	30.46
1.080	23.29	1.061	22.99	1.045	22.64	1.352	30.24	1.348	30.00
1.067	22.90	1.048	22.73	1.032	22.33	1.335	29.79	1.331	29.56
1.053	22.64	1.035	22.40	1.019	22.08	1.318	29.37	1.314	29.14
1.040	22.28	1.021	22.06	1.006	21.76	1.301	28.96	1.297	28.70
1.027	21.97	1.008	21.79	0.993	21.46	1.284	28.53	1.280	28.25
1.013	21.67	0.995	21.48	0.980	21.15	1.266	28.08	1.263	27.82
1.000	21.35	0.982	21.16	0.967	20.84	1.249	27.66	1.246	27.41
0.987	21.00	0.969	20.83	0.955	20.50	1.232	27.20	1.228	26.98
0.973	20.68	0.956	20.52	0.942	20.18	1.215	26.84	1.211	26.53
0.960	20.36	0.942	20.21	0.929	19.87	1.198	26.40	1.194	26.10

0.946	20.05	0.929	19.89	0.916	19.57	1.181	25.98	1.177	25.70
0.933	19.75	0.916	19.64	0.903	19.26	1.163	25.58	1.160	25.29
0.920	19.43	0.903	19.33	0.890	18.97	1.146	25.13	1.143	24.85
0.906	19.14	0.890	19.02	0.877	18.67	1.129	24.69	1.126	24.41
0.893	18.84	0.877	18.71	0.864	18.37	1.112	24.27	1.109	24.01
0.880	18.48	0.864	18.40	0.851	18.08	1.095	23.83	1.092	23.61
0.866	18.22	0.850	18.10	0.838	17.79	1.078	23.43	1.075	23.19
0.853	17.90	0.837	17.80	0.825	17.49	1.061	23.04	1.057	22.76
0.840	17.59	0.824	17.49	0.812	17.18	1.043	22.62	1.040	22.35
0.826	17.32	0.811	17.18	0.799	16.91	1.026	22.19	1.023	21.96
0.813	17.03	0.798	16.88	0.786	16.65	1.009	21.80	1.006	21.55
0.799	16.71	0.785	16.59	0.773	16.33	0.992	21.42	0.989	21.13
0.786	16.40	0.771	16.29	0.760	15.98	0.975	20.99	0.972	20.71
0.773	16.14	0.758	15.99	0.747	15.70	0.958	20.58	0.955	20.33
0.759	15.82	0.745	15.69	0.734	15.41	0.940	20.21	0.938	19.94
0.746	15.51	0.732	15.39	0.721	15.12	0.923	19.81	0.921	19.52
0.733	15.21	0.719	15.11	0.709	14.84	0.906	19.39	0.904	19.10
0.719	14.91	0.706	14.82	0.696	14.56	0.889	19.00	0.887	18.71
0.706	14.58	0.692	14.52	0.683	14.27	0.872	18.58	0.869	18.33
0.693	14.34	0.679	14.22	0.670	13.98	0.855	18.17	0.852	17.94
0.679	14.02	0.666	13.93	0.657	13.67	0.838	17.79	0.835	17.53
0.666	13.70	0.653	13.66	0.644	13.39	0.820	17.34	0.818	17.12
0.652	13.47	0.640	13.36	0.631	13.11	0.803	16.97	0.801	16.78
0.639	13.15	0.627	13.07	0.618	12.84	0.786	16.59	0.784	16.44
0.626	12.83	0.613	12.78	0.605	12.57	0.769	16.24	0.767	16.10
0.612	12.58	0.600	12.52	0.592	12.23	0.752	15.85	0.750	15.76
0.599	12.28	0.587	12.23	0.579	11.95	0.735	15.44	0.733	15.37
0.586	11.98	0.574	11.94	0.566	11.68	0.718	15.07	0.716	14.99
0.572	11.67	0.561	11.65	0.553	11.42	0.700	14.64	0.698	14.65
0.559	11.42	0.548	11.38	0.540	11.15	0.683	14.29	0.681	14.29
0.546	11.17	0.534	11.02	0.527	10.81	0.666	13.92	0.664	13.88
0.532	10.85	0.521	10.77	0.514	10.56	0.649	13.56	0.647	13.52
0.519	10.55	0.508	10.54	0.501	10.26	0.632	13.12	0.630	13.15
0.505	10.28	0.495	10.22	0.488	9.99	0.615	12.71	0.613	12.75
0.492	9.99	0.482	9.90	0.475	9.74	0.597	12.39	0.596	12.39
0.479	9.70	0.469	9.63	0.463	9.42	0.580	11.97	0.579	12.01
0.465	9.40	0.455	9.36	0.450	9.17	0.563	11.58	0.562	11.66
0.452	9.11	0.442	9.07	0.437	8.86	0.546	11.18	0.545	11.28
0.439	8.88	0.429	8.79	0.424	8.58	0.529	10.86	0.527	10.82
0.425	8.57	0.416	8.52	0.411	8.33	0.512	10.49	0.510	10.42
0.412	8.29	0.403	8.26	0.398	8.03	0.495	10.14	0.493	10.07
0.399	8.00	0.390	7.98	0.385	7.75	0.477	9.74	0.476	9.67
0.385	7.76	0.376	7.70	0.372	7.51	0.460	9.37	0.459	9.32
0.372	7.44	0.363	7.44	0.359	7.21	0.443	9.03	0.442	8.96
0.358	7.21	0.350	7.16	0.346	6.91	0.426	8.63	0.425	8.56

0.345	6.89	0.337	6.89	0.333	6.68	0.409	8.27	0.408	8.22
0.332	6.63	0.324	6.57	0.320	6.42	0.392	7.93	0.391	7.85
0.318	6.34	0.311	6.34	0.307	6.14	0.374	7.52	0.374	7.45
0.305	6.06	0.297	6.01	0.294	5.86	0.357	7.14	0.356	7.08
0.292	5.77	0.284	5.75	0.281	5.60	0.340	6.74	0.339	6.71
0.278	5.49	0.271	5.48	0.268	5.30	0.323	6.41	0.322	6.34
0.265	5.23	0.258	5.22	0.255	4.99	0.306	6.02	0.305	5.95
0.252	4.94	0.245	4.95	0.242	4.69	0.289	5.66	0.288	5.58
0.238	4.68	0.232	4.69	0.229	4.42	0.272	5.32	0.271	5.23
0.225	4.41	0.218	4.36	0.217	4.16	0.254	4.93	0.254	4.88
0.211	4.12	0.205	4.12	0.204	3.88	0.237	4.59	0.237	4.53
0.198	3.82	0.192	3.88	0.191	3.63	0.220	4.24	0.220	4.18
0.185	3.59	0.179	3.55	0.178	3.34	0.203	3.86	0.203	3.82
0.171	3.29	0.166	3.30	0.165	3.10	0.186	3.54	0.185	3.46
0.158	3.01	0.153	3.04	0.152	2.80	0.169	3.22	0.168	3.11
0.145	2.73	0.139	2.79	0.139	2.51	0.151	2.87	0.151	2.77
0.131	2.44	0.126	2.53	0.126	2.28	0.134	2.57	0.134	2.44
0.118	2.22	0.113	2.22	0.113	1.98	0.117	2.22	0.117	2.11
0.105	1.90	0.100	1.98	0.100	1.75	0.100	1.90	0.100	1.76

Table S1 (continued). $P\rho T x_{CO_2}$ experimental data for CO_2+CO mixtures.

T=273.15 K									
x_{CO_2} = 0.9700		x_{CO_2} = 0.9810		x_{CO_2} = 0.9902		x_{CO_2} = 0.9930		x_{CO_2} = 0.9960	
P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})
20.052	993.02	20.000	1003.22	20.000	1012.09	20.000	1014.73	20.000	1017.31
20.034	993.02	19.981	1003.25	19.980	1012.03	19.980	1014.65	19.981	1017.29
20.017	992.94	19.963	1003.17	19.961	1011.99	19.960	1014.57	19.962	1017.20
19.999	992.86	19.944	1003.17	19.941	1011.91	19.940	1014.49	19.943	1017.15
19.982	992.78	19.925	1003.09	19.921	1011.91	19.920	1014.41	19.924	1017.07
19.964	992.78	19.907	1003.01	19.902	1011.83	19.900	1014.32	19.905	1016.99
19.947	992.65	19.888	1002.93	19.882	1011.75	19.880	1014.26	19.886	1016.91
19.929	992.62	19.869	1002.93	19.862	1011.67	19.860	1014.16	19.866	1016.82
19.912	992.54	19.851	1002.85	19.843	1011.59	19.841	1014.11	19.847	1016.74
19.894	992.46	19.832	1002.77	19.823	1011.57	19.821	1014.00	19.828	1016.66
19.877	992.37	19.814	1002.69	19.803	1011.50	19.801	1013.99	19.809	1016.66
19.859	992.36	19.795	1002.61	19.784	1011.42	19.781	1013.86	19.790	1016.57
19.842	992.29	19.776	1002.52	19.764	1011.34	19.761	1013.84	19.771	1016.52
19.824	992.21	19.758	1002.48	19.744	1011.26	19.741	1013.76	19.752	1016.42
19.806	992.13	19.739	1002.36	19.725	1011.18	19.721	1013.66	19.733	1016.39
19.789	992.05	19.720	1002.30	19.705	1011.18	19.701	1013.59	19.714	1016.27
19.771	991.97	19.702	1002.28	19.686	1011.10	19.681	1013.51	19.695	1016.24
19.754	991.89	19.683	1002.20	19.666	1011.02	19.661	1013.43	19.676	1016.18
19.736	991.80	19.664	1002.12	19.646	1010.94	19.641	1013.35	19.657	1016.08
19.719	991.72	19.646	1002.04	19.627	1010.86	19.621	1013.27	19.638	1016.01
19.701	991.64	19.627	1001.99	19.607	1010.77	19.601	1013.19	19.618	1015.93
19.684	991.59	19.608	1001.88	19.587	1010.69	19.581	1013.10	19.599	1015.88
19.666	991.55	19.590	1001.79	19.568	1010.61	19.561	1013.02	19.580	1015.84
19.649	991.48	19.571	1001.76	19.548	1010.53	19.541	1012.94	19.561	1015.72
19.631	991.40	19.552	1001.68	19.528	1010.45	19.522	1012.87	19.542	1015.68
19.614	991.32	19.534	1001.56	19.509	1010.38	19.502	1012.78	19.523	1015.61
19.596	991.23	19.515	1001.52	19.489	1010.34	19.482	1012.70	19.504	1015.52
19.579	991.15	19.496	1001.47	19.469	1010.20	19.462	1012.62	19.485	1015.44
19.561	991.07	19.478	1001.39	19.450	1010.15	19.442	1012.56	19.466	1015.36
19.543	990.99	19.459	1001.31	19.430	1010.09	19.422	1012.45	19.447	1015.32
19.526	990.91	19.441	1001.23	19.410	1010.04	19.402	1012.40	19.428	1015.20
19.508	990.83	19.422	1001.14	19.391	1009.94	19.382	1012.29	19.409	1015.15
19.491	990.75	19.403	1001.06	19.371	1009.88	19.362	1012.23	19.390	1015.11
19.473	990.69	19.385	1000.98	19.351	1009.76	19.342	1012.19	19.371	1015.00
19.456	990.61	19.366	1000.95	19.332	1009.72	19.322	1012.09	19.351	1014.96
19.438	990.58	19.347	1000.86	19.312	1009.64	19.302	1011.96	19.332	1014.88

19.421	990.49	19.329	1000.74	19.292	1009.58	19.282	1011.96	19.313	1014.81
19.403	990.42	19.310	1000.68	19.273	1009.52	19.262	1011.84	19.294	1014.71
19.386	990.34	19.291	1000.61	19.253	1009.39	19.242	1011.72	19.275	1014.64
19.368	990.26	19.273	1000.52	19.233	1009.31	19.222	1011.64	19.256	1014.60
19.351	990.18	19.254	1000.46	19.214	1009.27	19.203	1011.62	19.237	1014.47
19.333	990.09	19.235	1000.41	19.194	1009.15	19.183	1011.56	19.218	1014.43
19.315	990.01	19.217	1000.33	19.174	1009.10	19.163	1011.47	19.199	1014.39
19.298	989.93	19.198	1000.25	19.155	1009.06	19.143	1011.37	19.180	1014.27
19.280	989.85	19.179	1000.17	19.135	1008.97	19.123	1011.23	19.161	1014.19
19.263	989.77	19.161	1000.08	19.116	1008.90	19.103	1011.17	19.142	1014.12
19.245	989.68	19.142	1000.00	19.096	1008.79	19.083	1011.07	19.123	1014.06
19.228	989.62	19.124	999.92	19.076	1008.66	19.063	1011.05	19.103	1013.98
19.210	989.56	19.105	999.84	19.057	1008.64	19.043	1010.89	19.084	1013.90
19.193	989.50	19.086	999.76	19.037	1008.55	19.023	1010.82	19.065	1013.87
19.175	989.44	19.068	999.69	19.017	1008.50	19.003	1010.75	19.046	1013.74
19.158	989.32	19.049	999.60	18.998	1008.41	18.983	1010.67	19.027	1013.68
19.140	989.28	19.030	999.51	18.978	1008.32	18.963	1010.58	19.008	1013.63
19.123	989.20	19.012	999.47	18.958	1008.25	18.943	1010.50	18.989	1013.54
19.105	989.12	18.993	999.35	18.939	1008.17	18.923	1010.42	18.970	1013.46
19.087	989.04	18.974	999.27	18.919	1008.05	18.903	1010.35	18.951	1013.41
19.070	988.95	18.956	999.19	18.899	1008.01	18.884	1010.32	18.932	1013.33
19.052	988.87	18.937	999.18	18.880	1007.93	18.864	1010.18	18.913	1013.25
19.035	988.83	18.918	999.13	18.860	1007.85	18.844	1010.10	18.894	1013.17
19.017	988.74	18.900	999.07	18.840	1007.75	18.824	1010.09	18.875	1013.09
19.000	988.63	18.881	999.01	18.821	1007.68	18.804	1010.01	18.855	1012.99
18.982	988.63	18.862	998.91	18.801	1007.60	18.784	1009.91	18.836	1012.93
18.965	988.55	18.844	998.82	18.781	1007.52	18.764	1009.84	18.817	1012.84
18.947	988.42	18.825	998.73	18.762	1007.44	18.744	1009.75	18.798	1012.76
18.930	988.38	18.807	998.63	18.742	1007.37	18.724	1009.69	18.779	1012.69
18.912	988.30	18.788	998.57	18.722	1007.28	18.704	1009.60	18.760	1012.63
18.895	988.21	18.769	998.49	18.703	1007.19	18.684	1009.52	18.741	1012.58
18.877	988.14	18.751	998.41	18.683	1007.12	18.664	1009.40	18.722	1012.52
18.859	988.06	18.732	998.33	18.663	1007.03	18.644	1009.36	18.703	1012.39
18.842	987.98	18.713	998.25	18.644	1006.95	18.624	1009.26	18.684	1012.35
18.824	987.90	18.695	998.13	18.624	1006.87	18.604	1009.20	18.665	1012.29
18.807	987.82	18.676	998.05	18.604	1006.79	18.584	1009.12	18.646	1012.17
18.789	987.73	18.657	997.97	18.585	1006.71	18.565	1009.02	18.627	1012.11
18.772	987.68	18.639	997.90	18.565	1006.62	18.545	1008.95	18.608	1012.03
18.754	987.57	18.620	997.83	18.546	1006.54	18.525	1008.87	18.588	1011.95
18.737	987.49	18.601	997.75	18.526	1006.46	18.505	1008.79	18.569	1011.86
18.719	987.41	18.583	997.64	18.506	1006.41	18.485	1008.67	18.550	1011.80
18.702	987.40	18.564	997.61	18.487	1006.35	18.465	1008.63	18.531	1011.70
18.684	987.24	18.545	997.52	18.467	1006.22	18.445	1008.55	18.512	1011.62
18.667	987.17	18.527	997.46	18.447	1006.14	18.425	1008.47	18.493	1011.54
18.649	987.16	18.508	997.40	18.428	1006.05	18.405	1008.38	18.474	1011.47

18.632	987.08	18.489	997.28	18.408	1005.97	18.385	1008.30	18.455	1011.38
18.614	986.95	18.471	997.19	18.388	1005.90	18.365	1008.22	18.436	1011.29
18.596	986.92	18.452	997.13	18.369	1005.83	18.345	1008.10	18.417	1011.21
18.579	986.84	18.434	997.07	18.349	1005.77	18.325	1008.06	18.398	1011.16
18.561	986.74	18.415	996.99	18.329	1005.65	18.305	1007.93	18.379	1011.09
18.544	986.67	18.396	996.91	18.310	1005.57	18.285	1007.88	18.360	1011.02
18.526	986.58	18.378	996.83	18.290	1005.48	18.265	1007.81	18.340	1010.95
18.509	986.51	18.359	996.79	18.270	1005.40	18.246	1007.73	18.321	1010.85
18.491	986.43	18.340	996.70	18.251	1005.33	18.226	1007.57	18.302	1010.74
18.474	986.35	18.322	996.58	18.231	1005.24	18.206	1007.52	18.283	1010.67
18.456	986.27	18.303	996.50	18.211	1005.16	18.186	1007.44	18.264	1010.60
18.439	986.18	18.284	996.42	18.192	1005.08	18.166	1007.35	18.245	1010.53
18.421	986.11	18.266	996.35	18.172	1005.00	18.146	1007.26	18.226	1010.46
18.404	986.02	18.247	996.29	18.152	1004.91	18.126	1007.16	18.207	1010.39
18.386	985.98	18.228	996.19	18.133	1004.83	18.106	1007.13	18.188	1010.32
18.368	985.90	18.210	996.09	18.113	1004.75	18.086	1007.06	18.169	1010.20
18.351	985.84	18.191	996.02	18.093	1004.67	18.066	1006.92	18.150	1010.16
18.333	985.79	18.172	995.97	18.074	1004.59	18.046	1006.84	18.131	1010.07
18.316	985.67	18.154	995.89	18.054	1004.51	18.026	1006.77	18.112	1009.96
18.298	985.58	18.135	995.80	18.034	1004.40	18.006	1006.67	18.092	1009.89
18.281	985.52	18.117	995.75	18.015	1004.34	17.986	1006.61	18.073	1009.82
18.263	985.47	18.098	995.62	17.995	1004.26	17.966	1006.51	18.054	1009.75
18.246	985.41	18.079	995.55	17.976	1004.18	17.946	1006.43	18.035	1009.67
18.228	985.35	18.061	995.45	17.956	1004.04	17.927	1006.34	18.016	1009.59
18.211	985.29	18.042	995.38	17.936	1003.96	17.907	1006.30	17.997	1009.50
18.193	985.16	18.023	995.28	17.917	1003.91	17.887	1006.25	17.978	1009.42
18.176	985.08	18.005	995.23	17.897	1003.83	17.867	1006.10	17.959	1009.34
18.158	985.02	17.986	995.15	17.877	1003.71	17.847	1006.02	17.940	1009.26
18.140	984.96	17.967	995.05	17.858	1003.66	17.827	1005.93	17.921	1009.18
18.123	984.89	17.949	994.98	17.838	1003.61	17.807	1005.84	17.902	1009.10
18.105	984.83	17.930	994.87	17.818	1003.48	17.787	1005.78	17.883	1009.01
18.088	984.74	17.911	994.81	17.799	1003.45	17.767	1005.72	17.864	1008.93
18.070	984.65	17.893	994.77	17.779	1003.33	17.747	1005.63	17.845	1008.85
18.053	984.56	17.874	994.64	17.759	1003.23	17.727	1005.53	17.825	1008.81
18.035	984.50	17.855	994.59	17.740	1003.16	17.707	1005.47	17.806	1008.69
18.018	984.43	17.837	994.51	17.720	1003.04	17.687	1005.37	17.787	1008.61
18.000	984.37	17.818	994.41	17.700	1002.96	17.667	1005.34	17.768	1008.53
17.983	984.31	17.799	994.37	17.681	1002.94	17.647	1005.27	17.749	1008.44
17.965	984.24	17.781	994.23	17.661	1002.83	17.627	1005.14	17.730	1008.36
17.948	984.18	17.762	994.17	17.641	1002.73	17.608	1005.10	17.711	1008.28
17.930	984.07	17.744	994.09	17.622	1002.63	17.588	1004.99	17.692	1008.24
17.912	983.96	17.725	994.02	17.602	1002.55	17.568	1004.88	17.673	1008.13
17.895	983.89	17.706	993.93	17.582	1002.47	17.548	1004.82	17.654	1008.05
17.877	983.83	17.688	993.81	17.563	1002.39	17.528	1004.78	17.635	1007.97
17.860	983.76	17.669	993.74	17.543	1002.31	17.508	1004.66	17.616	1007.89

17.842	983.69	17.650	993.70	17.523	1002.23	17.488	1004.62	17.597	1007.81
17.825	983.61	17.632	993.61	17.504	1002.14	17.468	1004.50	17.577	1007.72
17.807	983.51	17.613	993.51	17.484	1002.06	17.448	1004.39	17.558	1007.64
17.790	983.41	17.594	993.42	17.464	1001.98	17.428	1004.34	17.539	1007.59
17.772	983.34	17.576	993.36	17.445	1001.90	17.408	1004.26	17.520	1007.48
17.755	983.28	17.557	993.29	17.425	1001.82	17.388	1004.20	17.501	1007.39
17.737	983.22	17.538	993.22	17.406	1001.74	17.368	1004.13	17.482	1007.30
17.720	983.16	17.520	993.12	17.386	1001.66	17.348	1004.00	17.463	1007.30
17.702	983.09	17.501	993.07	17.366	1001.57	17.328	1003.90	17.444	1007.21
17.685	983.02	17.482	992.93	17.347	1001.46	17.308	1003.83	17.425	1007.12
17.667	982.90	17.464	992.89	17.327	1001.37	17.289	1003.73	17.406	1007.01
17.649	982.81	17.445	992.82	17.307	1001.28	17.269	1003.66	17.387	1006.90
17.632	982.74	17.427	992.67	17.288	1001.17	17.249	1003.60	17.368	1006.81
17.614	982.68	17.408	992.60	17.268	1001.10	17.229	1003.49	17.349	1006.79
17.597	982.61	17.389	992.56	17.248	1001.00	17.209	1003.42	17.329	1006.70
17.579	982.55	17.371	992.42	17.229	1000.92	17.189	1003.33	17.310	1006.61
17.562	982.48	17.352	992.35	17.209	1000.84	17.169	1003.27	17.291	1006.52
17.544	982.42	17.333	992.29	17.189	1000.76	17.149	1003.20	17.272	1006.43
17.527	982.34	17.315	992.18	17.170	1000.68	17.129	1003.10	17.253	1006.34
17.509	982.19	17.296	992.10	17.150	1000.60	17.109	1003.02	17.234	1006.26
17.492	982.13	17.277	992.03	17.130	1000.52	17.089	1002.90	17.215	1006.17
17.474	982.03	17.259	991.95	17.111	1000.43	17.069	1002.81	17.196	1006.08
17.457	981.92	17.240	991.83	17.091	1000.35	17.049	1002.74	17.177	1006.08
17.439	981.85	17.221	991.76	17.071	1000.27	17.029	1002.67	17.158	1005.99
17.421	981.78	17.203	991.66	17.052	1000.19	17.009	1002.54	17.139	1005.91
17.404	981.72	17.184	991.61	17.032	1000.11	16.989	1002.50	17.120	1005.82
17.386	981.65	17.165	991.56	17.012	1000.03	16.970	1002.43	17.101	1005.71
17.369	981.58	17.147	991.48	16.993	999.95	16.950	1002.32	17.082	1005.62
17.351	981.51	17.128	991.37	16.973	999.86	16.930	1002.26	17.062	1005.52
17.334	981.45	17.110	991.30	16.953	999.78	16.910	1002.18	17.043	1005.50
17.316	981.38	17.091	991.16	16.934	999.65	16.890	1002.04	17.024	1005.35
17.299	981.31	17.072	991.07	16.914	999.58	16.870	1001.95	17.005	1005.31
17.281	981.19	17.054	991.03	16.894	999.47	16.850	1001.87	16.986	1005.21
17.264	981.09	17.035	990.96	16.875	999.42	16.830	1001.80	16.967	1005.13
17.246	981.02	17.016	990.83	16.855	999.32	16.810	1001.69	16.948	1005.04
17.229	980.96	16.998	990.74	16.836	999.21	16.790	1001.62	16.929	1004.94
17.211	980.89	16.979	990.67	16.816	999.13	16.770	1001.55	16.910	1004.91
17.193	980.82	16.960	990.56	16.796	999.05	16.750	1001.48	16.891	1004.83
17.176	980.67	16.942	990.48	16.777	998.97	16.730	1001.36	16.872	1004.71
17.158	980.59	16.923	990.42	16.757	998.88	16.710	1001.26	16.853	1004.61
17.141	980.52	16.904	990.31	16.737	998.80	16.690	1001.22	16.834	1004.57
17.123	980.45	16.886	990.21	16.718	998.72	16.670	1001.10	16.814	1004.45
17.106	980.35	16.867	990.15	16.698	998.64	16.651	1001.00	16.795	1004.41
17.088	980.24	16.848	990.10	16.678	998.56	16.631	1000.97	16.776	1004.29
17.071	980.24	16.830	990.03	16.659	998.45	16.611	1000.82	16.757	1004.20

17.053	980.13	16.811	989.92	16.639	998.39	16.591	1000.74	16.738	1004.13
17.036	980.02	16.792	989.82	16.619	998.25	16.571	1000.68	16.719	1004.06
17.018	980.00	16.774	989.74	16.600	998.15	16.551	1000.56	16.700	1003.96
17.001	979.92	16.755	989.68	16.580	998.07	16.531	1000.48	16.681	1003.88
16.983	979.82	16.737	989.56	16.560	997.99	16.511	1000.40	16.662	1003.80
16.966	979.72	16.718	989.46	16.541	997.91	16.491	1000.33	16.643	1003.74
16.948	979.64	16.699	989.40	16.521	997.82	16.471	1000.21	16.624	1003.64
16.930	979.57	16.681	989.32	16.501	997.74	16.451	1000.16	16.605	1003.54
16.913	979.50	16.662	989.25	16.482	997.66	16.431	1000.07	16.586	1003.47
16.895	979.43	16.643	989.10	16.462	997.58	16.411	1000.00	16.566	1003.39
16.878	979.35	16.625	989.09	16.442	997.49	16.391	999.86	16.547	1003.31
16.860	979.28	16.606	988.95	16.423	997.42	16.371	999.77	16.528	1003.23
16.843	979.20	16.587	988.86	16.403	997.32	16.351	999.67	16.509	1003.16
16.825	979.08	16.569	988.79	16.383	997.22	16.332	999.62	16.490	1003.07
16.808	978.97	16.550	988.71	16.364	997.14	16.312	999.55	16.471	1002.98
16.790	978.89	16.531	988.60	16.344	997.04	16.292	999.44	16.452	1002.90
16.773	978.81	16.513	988.51	16.325	996.93	16.272	999.31	16.433	1002.82
16.755	978.74	16.494	988.44	16.305	996.85	16.252	999.24	16.414	1002.72
16.738	978.67	16.475	988.39	16.285	996.76	16.232	999.15	16.395	1002.66
16.720	978.59	16.457	988.27	16.266	996.68	16.212	999.09	16.376	1002.56
16.702	978.52	16.438	988.19	16.246	996.60	16.192	998.98	16.357	1002.50
16.685	978.44	16.420	988.10	16.226	996.52	16.172	998.90	16.338	1002.40
16.667	978.36	16.401	988.02	16.207	996.44	16.152	998.79	16.318	1002.27
16.650	978.24	16.382	987.94	16.187	996.33	16.132	998.73	16.299	1002.24
16.632	978.12	16.364	987.86	16.167	996.28	16.112	998.61	16.280	1002.11
16.615	978.05	16.345	987.78	16.148	996.13	16.092	998.53	16.261	1002.04
16.597	977.97	16.326	987.70	16.128	996.03	16.072	998.42	16.242	1001.97
16.580	977.89	16.308	987.54	16.108	996.00	16.052	998.35	16.223	1001.85
16.562	977.81	16.289	987.46	16.089	995.87	16.032	998.25	16.204	1001.80
16.545	977.74	16.270	987.38	16.069	995.79	16.013	998.14	16.185	1001.68
16.527	977.66	16.252	987.29	16.049	995.70	15.993	998.05	16.166	1001.61
16.510	977.58	16.233	987.21	16.030	995.62	15.973	997.97	16.147	1001.58
16.492	977.50	16.214	987.13	16.010	995.48	15.953	997.90	16.128	1001.44
16.474	977.42	16.196	987.05	15.990	995.41	15.933	997.81	16.109	1001.35
16.457	977.35	16.177	986.95	15.971	995.31	15.913	997.68	16.090	1001.27
16.439	977.22	16.158	986.87	15.951	995.21	15.893	997.61	16.071	1001.19
16.422	977.14	16.140	986.78	15.931	995.13	15.873	997.54	16.051	1001.11
16.404	977.09	16.121	986.69	15.912	995.05	15.853	997.45	16.032	1001.05
16.387	976.97	16.103	986.60	15.892	994.97	15.833	997.38	16.013	1000.95
16.369	976.90	16.084	986.49	15.872	994.89	15.813	997.26	15.994	1000.87
16.352	976.86	16.065	986.41	15.853	994.81	15.793	997.19	15.975	1000.78
16.334	976.78	16.047	986.34	15.833	994.69	15.773	997.08	15.956	1000.70
16.317	976.69	16.028	986.25	15.813	994.64	15.753	996.98	15.937	1000.57
16.299	976.57	16.009	986.16	15.794	994.48	15.733	996.89	15.918	1000.54
16.282	976.46	15.991	986.07	15.774	994.45	15.713	996.79	15.899	1000.39

16.264	976.37	15.972	986.02	15.755	994.32	15.694	996.71	15.880	1000.38
16.246	976.30	15.953	985.93	15.735	994.24	15.674	996.60	15.861	1000.25
16.229	976.21	15.935	985.82	15.715	994.15	15.654	996.50	15.842	1000.20
16.211	976.13	15.916	985.67	15.696	994.07	15.634	996.44	15.823	1000.06
16.194	976.05	15.897	985.64	15.676	993.97	15.614	996.32	15.803	1000.00
16.176	975.97	15.879	985.52	15.656	993.91	15.594	996.24	15.784	999.89
16.159	975.89	15.860	985.50	15.637	993.75	15.574	996.11	15.765	999.80
16.141	975.81	15.841	985.33	15.617	993.66	15.554	996.08	15.746	999.72
16.124	975.72	15.823	985.23	15.597	993.58	15.534	996.01	15.727	999.65
16.106	975.64	15.804	985.17	15.578	993.50	15.514	995.83	15.708	999.56
16.089	975.56	15.785	985.09	15.558	993.42	15.494	995.75	15.689	999.48
16.071	975.47	15.767	985.04	15.538	993.34	15.474	995.69	15.670	999.40
16.054	975.39	15.748	984.95	15.519	993.26	15.454	995.60	15.651	999.32
16.036	975.31	15.730	984.86	15.499	993.12	15.434	995.51	15.632	999.20
16.019	975.22	15.711	984.77	15.479	993.02	15.414	995.41	15.613	999.10
16.001	975.12	15.692	984.63	15.460	992.93	15.394	995.33	15.594	999.04
15.983	974.99	15.674	984.56	15.440	992.86	15.375	995.24	15.575	998.95
15.966	974.94	15.655	984.44	15.420	992.77	15.355	995.13	15.555	998.85
15.948	974.88	15.636	984.39	15.401	992.69	15.335	995.03	15.536	998.75
15.931	974.80	15.618	984.29	15.381	992.60	15.315	994.94	15.517	998.71
15.913	974.71	15.599	984.20	15.361	992.52	15.295	994.89	15.498	998.61
15.896	974.62	15.580	984.11	15.342	992.44	15.275	994.75	15.479	998.50
15.878	974.54	15.562	984.04	15.322	992.36	15.255	994.69	15.460	998.42
15.861	974.46	15.543	983.95	15.302	992.27	15.235	994.63	15.441	998.33
15.843	974.28	15.524	983.88	15.283	992.11	15.215	994.53	15.422	998.25
15.826	974.19	15.506	983.78	15.263	992.03	15.195	994.45	15.403	998.17
15.808	974.12	15.487	983.67	15.243	991.95	15.175	994.28	15.384	998.07
15.791	974.09	15.468	983.62	15.224	991.87	15.155	994.20	15.365	998.01
15.773	973.96	15.450	983.48	15.204	991.78	15.135	994.14	15.346	997.89
15.755	973.93	15.431	983.38	15.185	991.71	15.115	994.01	15.327	997.81
15.738	973.84	15.413	983.29	15.165	991.60	15.095	993.92	15.308	997.72
15.720	973.75	15.394	983.21	15.145	991.53	15.075	993.83	15.288	997.63
15.703	973.66	15.375	983.13	15.126	991.38	15.056	993.77	15.269	997.52
15.685	973.57	15.357	983.06	15.106	991.30	15.036	993.67	15.250	997.44
15.668	973.49	15.338	982.91	15.086	991.22	15.016	993.57	15.231	997.36
15.650	973.34	15.319	982.81	15.067	991.14	14.996	993.48	15.212	997.28
15.633	973.31	15.301	982.79	15.047	991.05	14.976	993.43	15.193	997.19
15.615	973.22	15.282	982.68	15.027	990.90	14.956	993.34	15.174	997.11
15.598	973.13	15.263	982.56	15.008	990.88	14.936	993.20	15.155	997.03
15.580	973.04	15.245	982.48	14.988	990.73	14.916	993.10	15.136	996.95
15.563	972.94	15.226	982.40	14.968	990.65	14.896	993.06	15.117	996.85
15.545	972.86	15.207	982.31	14.949	990.57	14.876	992.90	15.098	996.77
15.527	972.77	15.189	982.22	14.929	990.48	14.856	992.82	15.079	996.65
15.510	972.68	15.170	982.15	14.909	990.40	14.836	992.75	15.060	996.54
15.492	972.59	15.151	982.04	14.890	990.31	14.816	992.65	15.040	996.46

15.475	972.50	15.133	981.91	14.870	990.16	14.796	992.55	15.021	996.38
15.457	972.32	15.114	981.86	14.850	990.10	14.776	992.49	15.002	996.30
15.440	972.31	15.095	981.74	14.831	989.99	14.756	992.38	14.983	996.22
15.422	972.22	15.077	981.60	14.811	989.91	14.737	992.26	14.964	996.13
15.405	972.12	15.058	981.58	14.791	989.83	14.717	992.15	14.945	996.05
15.387	972.03	15.040	981.50	14.772	989.75	14.697	992.08	14.926	995.97
15.370	971.95	15.021	981.39	14.752	989.61	14.677	991.99	14.907	995.89
15.352	971.85	15.002	981.28	14.732	989.50	14.657	991.92	14.888	995.75
15.335	971.75	14.984	981.17	14.713	989.42	14.637	991.84	14.869	995.70
15.317	971.67	14.965	981.09	14.693	989.34	14.617	991.75	14.850	995.61
15.299	971.58	14.946	981.01	14.673	989.26	14.597	991.65	14.831	995.48
15.282	971.48	14.928	980.90	14.654	989.18	14.577	991.55	14.812	995.40
15.264	971.39	14.909	980.78	14.634	989.09	14.557	991.43	14.792	995.32
15.247	971.30	14.890	980.74	14.615	989.01	14.537	991.35	14.773	995.25
15.229	971.21	14.872	980.60	14.595	988.88	14.517	991.25	14.754	995.15
15.212	971.11	14.853	980.56	14.575	988.77	14.497	991.15	14.735	995.07
15.194	971.02	14.834	980.44	14.556	988.69	14.477	991.05	14.716	994.99
15.177	971.01	14.816	980.37	14.536	988.61	14.457	990.94	14.697	994.91
15.159	970.91	14.797	980.25	14.516	988.53	14.437	990.86	14.678	994.75
15.142	970.81	14.778	980.13	14.497	988.37	14.418	990.78	14.659	994.69
15.124	970.72	14.760	980.08	14.477	988.35	14.398	990.70	14.640	994.63
15.107	970.62	14.741	979.98	14.457	988.20	14.378	990.62	14.621	994.50
15.089	970.53	14.723	979.89	14.438	988.12	14.358	990.45	14.602	994.42
15.072	970.43	14.704	979.83	14.418	988.04	14.338	990.37	14.583	994.34
15.054	970.34	14.685	979.70	14.398	987.93	14.318	990.29	14.564	994.26
15.036	970.24	14.667	979.58	14.379	987.81	14.298	990.21	14.545	994.18
15.019	970.14	14.648	979.53	14.359	987.71	14.278	990.12	14.525	994.09
15.001	970.05	14.629	979.37	14.339	987.63	14.258	989.97	14.506	994.01
14.984	969.95	14.611	979.31	14.320	987.55	14.238	989.93	14.487	993.86
14.966	969.85	14.592	979.21	14.300	987.46	14.218	989.80	14.468	993.77
14.949	969.77	14.573	979.13	14.280	987.32	14.198	989.69	14.449	993.69
14.931	969.73	14.555	979.01	14.261	987.27	14.178	989.64	14.430	993.60
14.914	969.56	14.536	978.97	14.241	987.17	14.158	989.55	14.411	993.52
14.896	969.54	14.517	978.87	14.221	987.06	14.138	989.41	14.392	993.44
14.879	969.44	14.499	978.72	14.202	986.97	14.118	989.31	14.373	993.36
14.861	969.34	14.480	978.66	14.182	986.89	14.099	989.23	14.354	993.28
14.844	969.24	14.461	978.56	14.162	986.76	14.079	989.13	14.335	993.19
14.826	969.14	14.443	978.48	14.143	986.70	14.059	989.01	14.316	993.04
14.808	969.03	14.424	978.40	14.123	986.58	14.039	988.98	14.297	992.95
14.791	968.93	14.406	978.26	14.103	986.48	14.019	988.82	14.277	992.87
14.773	968.90	14.387	978.17	14.084	986.40	13.999	988.76	14.258	992.79
14.756	968.80	14.368	978.12	14.064	986.32	13.979	988.65	14.239	992.71
14.738	968.69	14.350	977.99	14.045	986.21	13.959	988.53	14.220	992.63
14.721	968.60	14.331	977.90	14.025	986.10	13.939	988.42	14.201	992.54
14.703	968.49	14.312	977.83	14.005	985.99	13.919	988.33	14.182	992.45

14.686	968.38	14.294	977.72	13.986	985.91	13.899	988.29	14.163	992.35
14.668	968.28	14.275	977.66	13.966	985.83	13.879	988.17	14.144	992.22
14.651	968.21	14.256	977.53	13.946	985.74	13.859	988.10	14.125	992.13
14.633	968.15	14.238	977.41	13.927	985.66	13.839	987.98	14.106	992.05
14.616	968.00	14.219	977.34	13.907	985.50	13.819	987.86	14.087	991.97
14.598	967.94	14.200	977.25	13.887	985.42	13.800	987.76	14.068	991.89
14.580	967.84	14.182	977.13	13.868	985.34	13.780	987.68	14.049	991.81
14.563	967.73	14.163	977.03	13.848	985.26	13.760	987.59	14.029	991.73
14.545	967.62	14.144	976.92	13.828	985.18	13.740	987.51	14.010	991.61
14.528	967.59	14.126	976.84	13.809	985.01	13.720	987.35	13.991	991.49
14.510	967.42	14.107	976.76	13.789	984.93	13.700	987.27	13.972	991.40
14.493	967.39	14.088	976.68	13.769	984.85	13.680	987.19	13.953	991.32
14.475	967.29	14.070	976.53	13.750	984.77	13.660	987.06	13.934	991.24
14.458	967.18	14.051	976.43	13.730	984.69	13.640	986.97	13.915	991.16
14.440	967.09	14.033	976.35	13.710	984.52	13.620	986.90	13.896	991.06
14.423	966.97	14.014	976.27	13.691	984.44	13.600	986.78	13.877	990.99
14.405	966.86	13.995	976.19	13.671	984.36	13.580	986.68	13.858	990.83
14.388	966.77	13.977	976.11	13.651	984.28	13.560	986.55	13.839	990.75
14.370	966.73	13.958	975.96	13.632	984.20	13.540	986.47	13.820	990.67
14.353	966.62	13.939	975.87	13.612	984.12	13.520	986.37	13.801	990.58
14.335	966.52	13.921	975.78	13.592	983.95	13.500	986.29	13.782	990.50
14.317	966.46	13.902	975.70	13.573	983.87	13.481	986.17	13.762	990.42
14.300	966.38	13.883	975.61	13.553	983.79	13.461	986.11	13.743	990.31
14.282	966.27	13.865	975.48	13.533	983.70	13.441	986.01	13.724	990.17
14.265	966.15	13.846	975.40	13.514	983.54	13.421	985.88	13.705	990.09
14.247	966.04	13.827	975.29	13.494	983.46	13.401	985.80	13.686	990.01
14.230	965.93	13.809	975.21	13.475	983.38	13.381	985.68	13.667	989.93
14.212	965.87	13.790	975.13	13.455	983.30	13.361	985.57	13.648	989.85
14.195	965.79	13.771	974.96	13.435	983.14	13.341	985.52	13.629	989.68
14.177	965.68	13.753	974.88	13.416	983.05	13.321	985.39	13.610	989.66
14.160	965.56	13.734	974.80	13.396	982.97	13.301	985.28	13.591	989.52
14.142	965.50	13.716	974.71	13.376	982.89	13.281	985.23	13.572	989.44
14.125	965.41	13.697	974.57	13.357	982.77	13.261	985.09	13.553	989.36
14.107	965.29	13.678	974.48	13.337	982.66	13.241	984.98	13.534	989.22
14.089	965.17	13.660	974.39	13.317	982.56	13.221	984.90	13.514	989.16
14.072	965.14	13.641	974.31	13.298	982.48	13.201	984.79	13.495	989.04
14.054	965.02	13.622	974.22	13.278	982.40	13.181	984.74	13.476	988.96
14.037	964.89	13.604	974.06	13.258	982.30	13.162	984.62	13.457	988.87
14.019	964.87	13.585	973.98	13.239	982.16	13.142	984.49	13.438	988.79
14.002	964.75	13.566	973.90	13.219	982.07	13.122	984.41	13.419	988.71
13.984	964.62	13.548	973.82	13.199	981.99	13.102	984.31	13.400	988.58
13.967	964.54	13.529	973.69	13.180	981.91	13.082	984.21	13.381	988.50
13.949	964.47	13.510	973.57	13.160	981.75	13.062	984.08	13.362	988.38
13.932	964.35	13.492	973.49	13.140	981.67	13.042	984.00	13.343	988.30
13.914	964.23	13.473	973.41	13.121	981.58	13.022	983.92	13.324	988.22

13.897	964.16	13.454	973.33	13.101	981.49	13.002	983.79	13.305	988.13
13.879	964.07	13.436	973.21	13.081	981.41	12.982	983.67	13.286	988.05
13.861	963.95	13.417	973.08	13.062	981.26	12.962	983.59	13.266	987.97
13.844	963.87	13.398	973.00	13.042	981.18	12.942	983.47	13.247	987.88
13.826	963.79	13.380	972.92	13.022	981.05	12.922	983.40	13.228	987.73
13.809	963.67	13.361	972.82	13.003	980.93	12.902	983.27	13.209	987.64
13.791	963.56	13.343	972.71	12.983	980.85	12.882	983.18	13.190	987.56
13.774	963.50	13.324	972.59	12.963	980.77	12.862	983.09	13.171	987.46
13.756	963.37	13.305	972.51	12.944	980.63	12.843	982.95	13.152	987.36
13.739	963.26	13.287	972.43	12.924	980.52	12.823	982.90	13.133	987.26
13.721	963.13	13.268	972.27	12.905	980.44	12.803	982.80	13.114	987.15
13.704	963.09	13.249	972.23	12.885	980.36	12.783	982.67	13.095	987.07
13.686	963.03	13.231	972.10	12.865	980.28	12.763	982.58	13.076	986.99
13.669	962.85	13.212	972.02	12.846	980.11	12.743	982.45	13.057	986.87
13.651	962.80	13.193	971.94	12.826	980.03	12.723	982.34	13.038	986.83
13.633	962.67	13.175	971.82	12.806	979.95	12.703	982.29	13.018	986.66
13.616	962.60	13.156	971.69	12.787	979.87	12.683	982.15	12.999	986.58
13.598	962.50	13.137	971.61	12.767	979.70	12.663	982.04	12.980	986.50
13.581	962.36	13.119	971.53	12.747	979.62	12.643	981.96	12.961	986.42
13.563	962.30	13.100	971.42	12.728	979.54	12.623	981.85	12.942	986.29
13.546	962.21	13.081	971.29	12.708	979.40	12.603	981.75	12.923	986.20
13.528	962.08	13.063	971.20	12.688	979.30	12.583	981.63	12.904	986.09
13.511	962.03	13.044	971.10	12.669	979.21	12.563	981.54	12.885	986.01
13.493	961.92	13.026	971.00	12.649	979.13	12.543	981.41	12.866	985.93
13.476	961.83	13.007	970.88	12.629	979.05	12.524	981.36	12.847	985.85
13.458	961.70	12.988	970.80	12.610	978.91	12.504	981.22	12.828	985.75
13.441	961.64	12.970	970.70	12.590	978.81	12.484	981.13	12.809	985.60
13.423	961.51	12.951	970.63	12.570	978.72	12.464	981.02	12.790	985.52
13.406	961.38	12.932	970.47	12.551	978.56	12.444	980.90	12.771	985.44
13.388	961.30	12.914	970.39	12.531	978.48	12.424	980.82	12.751	985.36
13.370	961.21	12.895	970.31	12.511	978.40	12.404	980.68	12.732	985.19
13.353	961.14	12.876	970.22	12.492	978.23	12.384	980.61	12.713	985.11
13.335	961.00	12.858	970.08	12.472	978.15	12.364	980.49	12.694	985.03
13.318	960.92	12.839	969.99	12.452	978.07	12.344	980.41	12.675	984.95
13.300	960.84	12.820	969.89	12.433	977.99	12.324	980.30	12.656	984.87
13.283	960.74	12.802	969.81	12.413	977.82	12.304	980.16	12.637	984.77
13.265	960.60	12.783	969.65	12.393	977.74	12.284	980.08	12.618	984.62
13.248	960.48	12.764	969.57	12.374	977.66	12.264	980.00	12.599	984.54
13.230	960.39	12.746	969.49	12.354	977.58	12.244	979.85	12.580	984.46
13.213	960.33	12.727	969.38	12.335	977.42	12.224	979.77	12.561	984.36
13.195	960.21	12.709	969.24	12.315	977.34	12.205	979.67	12.542	984.25
13.178	960.14	12.690	969.16	12.295	977.25	12.185	979.56	12.523	984.13
13.160	960.00	12.671	969.08	12.276	977.17	12.165	979.43	12.503	984.05
13.142	959.91	12.653	968.91	12.256	977.07	12.145	979.34	12.484	983.97
13.125	959.82	12.634	968.84	12.236	976.93	12.125	979.23	12.465	983.88

13.107	959.75	12.615	968.75	12.217	976.85	12.105	979.15	12.446	983.72
13.090	959.63	12.597	968.59	12.197	976.73	12.085	979.02	12.427	983.64
13.072	959.53	12.578	968.51	12.177	976.60	12.065	978.93	12.408	983.56
13.055	959.44	12.559	968.42	12.158	976.52	12.045	978.83	12.389	983.48
13.037	959.32	12.541	968.34	12.138	976.44	12.025	978.69	12.370	983.31
13.020	959.21	12.522	968.22	12.118	976.35	12.005	978.61	12.351	983.23
13.002	959.10	12.503	968.11	12.099	976.19	11.985	978.53	12.332	983.15
12.985	959.01	12.485	968.02	12.079	976.09	11.965	978.37	12.313	983.07
12.967	958.90	12.466	967.88	12.059	975.97	11.945	978.32	12.294	982.90
12.950	958.81	12.447	967.77	12.040	975.86	11.925	978.16	12.275	982.82
12.932	958.71	12.429	967.69	12.020	975.78	11.905	978.07	12.255	982.74
12.914	958.59	12.410	967.61	12.000	975.70	11.886	977.95	12.236	982.66
12.897	958.51	12.391	967.44	11.981	975.57	11.866	977.84	12.217	982.52
12.879	958.43	12.373	967.36	11.961	975.45	11.846	977.71	12.198	982.41
12.862	958.28	12.354	967.28	11.941	975.37	11.826	977.63	12.179	982.33
12.844	958.19	12.336	967.20	11.922	975.21	11.806	977.52	12.160	982.25
12.827	958.07	12.317	967.03	11.902	975.13	11.786	977.41	12.141	982.17
12.809	957.99	12.298	966.95	11.882	975.05	11.766	977.34	12.122	982.07
12.792	957.86	12.280	966.87	11.863	974.88	11.746	977.22	12.103	981.92
12.774	957.77	12.261	966.73	11.843	974.80	11.726	977.14	12.084	981.86
12.757	957.69	12.242	966.63	11.823	974.64	11.706	976.97	12.065	981.76
12.739	957.62	12.224	966.54	11.804	974.55	11.686	976.89	12.046	981.68
12.722	957.45	12.205	966.46	11.784	974.47	11.666	976.73	12.027	981.59
12.704	957.38	12.186	966.30	11.765	974.32	11.646	976.65	12.008	981.43
12.686	957.29	12.168	966.22	11.745	974.23	11.626	976.51	11.988	981.35
12.669	957.21	12.149	966.08	11.725	974.15	11.606	976.40	11.969	981.27
12.651	957.07	12.130	966.03	11.706	973.98	11.586	976.32	11.950	981.19
12.634	956.99	12.112	965.89	11.686	973.90	11.567	976.24	11.931	981.02
12.616	956.88	12.093	965.81	11.666	973.76	11.547	976.11	11.912	980.94
12.599	956.80	12.074	965.67	11.647	973.65	11.527	976.01	11.893	980.86
12.581	956.64	12.056	965.56	11.627	973.57	11.507	975.91	11.874	980.78
12.564	956.56	12.037	965.48	11.607	973.41	11.487	975.76	11.855	980.70
12.546	956.47	12.019	965.40	11.588	973.33	11.467	975.66	11.836	980.53
12.529	956.37	12.000	965.29	11.568	973.23	11.447	975.58	11.817	980.45
12.511	956.28	11.981	965.15	11.548	973.08	11.427	975.42	11.798	980.37
12.494	956.13	11.963	965.07	11.529	973.00	11.407	975.34	11.779	980.29
12.476	956.04	11.944	964.99	11.509	972.84	11.387	975.26	11.760	980.19
12.459	955.93	11.925	964.83	11.489	972.75	11.367	975.16	11.740	980.04
12.441	955.84	11.907	964.74	11.470	972.66	11.347	975.01	11.721	979.96
12.423	955.74	11.888	964.58	11.450	972.51	11.327	974.93	11.702	979.88
12.406	955.64	11.869	964.54	11.430	972.43	11.307	974.82	11.683	979.72
12.388	955.54	11.851	964.42	11.411	972.35	11.287	974.70	11.664	979.64
12.371	955.41	11.832	964.34	11.391	972.18	11.267	974.52	11.645	979.55
12.353	955.29	11.813	964.23	11.371	972.10	11.248	974.44	11.626	979.47
12.336	955.23	11.795	964.09	11.352	972.02	11.228	974.36	11.607	979.38

12.318	955.14	11.776	964.00	11.332	971.85	11.208	974.19	11.588	979.23
12.301	955.00	11.757	963.89	11.312	971.77	11.188	974.11	11.569	979.15
12.283	954.85	11.739	963.76	11.293	971.62	11.168	974.03	11.550	979.06
12.266	954.83	11.720	963.68	11.273	971.53	11.148	973.87	11.531	978.94
12.248	954.65	11.702	963.60	11.253	971.45	11.128	973.78	11.512	978.82
12.231	954.59	11.683	963.44	11.234	971.36	11.108	973.70	11.492	978.74
12.213	954.47	11.664	963.35	11.214	971.20	11.088	973.54	11.473	978.66
12.195	954.38	11.646	963.23	11.195	971.12	11.068	973.46	11.454	978.49
12.178	954.26	11.627	963.11	11.175	971.04	11.048	973.31	11.435	978.41
12.160	954.18	11.608	963.03	11.155	970.89	11.028	973.21	11.416	978.33
12.143	954.09	11.590	962.95	11.136	970.79	11.008	973.10	11.397	978.25
12.125	953.96	11.571	962.78	11.116	970.71	10.988	972.97	11.378	978.08
12.108	953.85	11.552	962.70	11.096	970.63	10.968	972.87	11.359	978.00
12.090	953.73	11.534	962.62	11.077	970.47	10.948	972.80	11.340	977.92
12.073	953.61	11.515	962.45	11.057	970.38	10.929	972.64	11.321	977.79
12.055	953.55	11.496	962.37	11.037	970.22	10.909	972.56	11.302	977.67
12.038	953.41	11.478	962.25	11.018	970.14	10.889	972.43	11.283	977.59
12.020	953.31	11.459	962.13	10.998	970.06	10.869	972.31	11.264	977.51
12.003	953.21	11.440	962.05	10.978	969.90	10.849	972.19	11.245	977.35
11.985	953.12	11.422	961.88	10.959	969.81	10.829	972.07	11.225	977.26
11.967	953.04	11.403	961.80	10.939	969.73	10.809	971.98	11.206	977.18
11.950	952.87	11.384	961.72	10.919	969.57	10.789	971.82	11.187	977.10
11.932	952.80	11.366	961.55	10.900	969.48	10.769	971.74	11.168	976.94
11.915	952.68	11.347	961.47	10.880	969.40	10.749	971.65	11.149	976.86
11.897	952.55	11.329	961.39	10.860	969.26	10.729	971.49	11.130	976.77
11.880	952.46	11.310	961.23	10.841	969.16	10.709	971.39	11.111	976.66
11.862	952.34	11.291	961.15	10.821	969.08	10.689	971.27	11.092	976.53
11.845	952.24	11.273	961.06	10.801	968.91	10.669	971.17	11.073	976.45
11.827	952.13	11.254	960.90	10.782	968.83	10.649	971.05	11.054	976.37
11.810	952.05	11.235	960.82	10.762	968.71	10.629	970.92	11.035	976.20
11.792	951.93	11.217	960.65	10.742	968.58	10.610	970.84	11.016	976.12
11.775	951.81	11.198	960.57	10.723	968.50	10.590	970.67	10.997	976.04
11.757	951.73	11.179	960.49	10.703	968.34	10.570	970.59	10.977	975.94
11.739	951.62	11.161	960.33	10.683	968.26	10.550	970.43	10.958	975.79
11.722	951.47	11.142	960.25	10.664	968.17	10.530	970.35	10.939	975.71
11.704	951.40	11.123	960.16	10.644	968.01	10.510	970.25	10.920	975.63
11.687	951.33	11.105	960.00	10.625	967.93	10.490	970.10	10.901	975.47
11.669	951.15	11.086	959.92	10.605	967.77	10.470	970.01	10.882	975.38
11.652	951.11	11.067	959.76	10.585	967.68	10.450	969.86	10.863	975.30
11.634	950.95	11.049	959.67	10.566	967.52	10.430	969.77	10.844	975.18
11.617	950.88	11.030	959.59	10.546	967.44	10.410	969.65	10.825	975.06
11.599	950.74	11.012	959.43	10.526	967.34	10.390	969.53	10.806	974.98
11.582	950.62	10.993	959.34	10.507	967.19	10.370	969.42	10.787	974.89
11.564	950.50	10.974	959.23	10.487	967.11	10.350	969.28	10.768	974.73
11.547	950.41	10.956	959.10	10.467	966.95	10.330	969.20	10.749	974.65

11.529	950.34	10.937	959.02	10.448	966.87	10.310	969.06	10.729	974.57
11.512	950.22	10.918	958.85	10.428	966.78	10.291	968.96	10.710	974.40
11.494	950.09	10.900	958.77	10.408	966.62	10.271	968.87	10.691	974.32
11.476	949.94	10.881	958.61	10.389	966.54	10.251	968.71	10.672	974.20
11.459	949.85	10.862	958.53	10.369	966.38	10.231	968.63	10.653	974.07
11.441	949.85	10.844	958.44	10.349	966.29	10.211	968.52	10.634	973.99
11.424	949.74	10.825	958.28	10.330	966.13	10.191	968.35	10.615	973.90
11.406	949.63	10.806	958.20	10.310	966.05	10.171	968.23	10.596	973.75
11.389	949.53	10.788	958.05	10.290	965.88	10.151	968.14	10.577	973.64
11.371	949.44	10.769	957.95	10.271	965.80	10.131	968.02	10.558	973.50
11.354	949.31	10.750	957.87	10.251	965.70	10.111	967.89	10.539	973.42
11.336	949.18	10.732	957.71	10.231	965.56	10.091	967.81	10.520	973.26
11.319	949.09	10.713	957.63	10.212	965.47	10.071	967.68	10.501	973.17
11.301	949.00	10.694	957.54	10.192	965.31	10.051	967.57	10.482	973.09
11.284	948.90	10.676	957.38	10.172	965.23	10.031	967.40	10.462	972.93
11.266	948.81	10.657	957.30	10.153	965.06	10.011	967.32	10.443	972.85
11.248	948.71	10.639	957.18	10.133	964.98	9.991	967.16	10.424	972.74
11.231	948.61	10.620	957.05	10.114	964.82	9.972	967.07	10.405	972.60
11.213	948.52	10.601	956.97	10.094	964.74	9.952	966.92	10.386	972.52
11.196	948.41	10.583	956.81	10.074	964.57	9.932	966.83	10.367	972.41
11.178	948.26	10.564	956.73	10.055	964.49	9.912	966.69	10.348	972.27
11.161	948.15	10.545	956.61	10.035	964.41	9.892	966.58	10.329	972.19
11.143	948.05	10.527	956.48	10.015	964.25	9.872	966.50	10.310	972.11
11.126	947.94	10.508	956.40	9.996	964.17	9.852	966.34	10.291	971.95
11.108	947.85	10.489	956.23	9.976	964.00	9.832	966.26	10.272	971.87
11.091	947.75	10.471	956.15	9.956	963.92	9.812	966.09	10.253	971.78
11.073	947.64	10.452	955.99	9.937	963.77	9.792	966.01	10.234	971.63
11.056	947.54	10.433	955.91	9.917	963.67	9.772	965.85	10.214	971.54
11.038	947.44	10.415	955.83	9.897	963.58	9.752	965.76	10.195	971.46
11.020	947.34	10.396	955.66	9.878	963.43	9.732	965.60	10.176	971.29
11.003	947.24	10.377	955.58	9.858	963.35	9.712	965.52	10.157	971.21
10.985	947.13	10.359	955.50	9.838	963.18	9.692	965.41	10.138	971.13
10.968	946.98	10.340	955.33	9.819	963.10	9.672	965.27	10.119	970.96
10.950	946.88	10.322	955.25	9.799	962.94	9.653	965.15	10.100	970.88
10.933	946.74	10.303	955.09	9.779	962.86	9.633	965.03	10.081	970.80
10.915	946.66	10.284	955.01	9.760	962.69	9.613	964.86	10.062	970.64
10.898	946.58	10.266	954.84	9.740	962.53	9.593	964.78	10.043	970.56
10.880	946.42	10.247	954.76	9.720	962.45	9.573	964.68	10.024	970.39
10.863	946.38	10.228	954.68	9.701	962.34	9.553	964.54	10.005	970.31
10.845	946.28	10.210	954.52	9.681	962.20	9.533	964.46	9.986	970.23
10.828	946.14	10.191	954.43	9.661	962.11	9.513	964.29	9.966	970.06
10.810	945.98	10.172	954.27	9.642	961.95	9.493	964.13	9.947	969.98
10.793	945.87	10.154	954.19	9.622	961.87	9.473	964.05	9.928	969.90
10.775	945.77	10.135	954.02	9.602	961.71	9.453	963.96	9.909	969.75
10.757	945.65	10.116	953.94	9.583	961.63	9.433	963.80	9.890	969.66

10.740	945.59	10.098	953.83	9.563	961.49	9.413	963.70	9.871	969.57
10.722	945.47	10.079	953.70	9.544	961.38	9.393	963.55	9.852	969.41
10.705	945.35	10.060	953.62	9.524	961.22	9.373	963.43	9.833	969.33
10.687	945.25	10.042	953.45	9.504	961.14	9.353	963.31	9.814	969.16
10.670	945.10	10.023	953.37	9.485	961.05	9.334	963.23	9.795	969.08
10.652	945.05	10.005	953.21	9.465	960.89	9.314	963.06	9.776	969.00
10.635	944.94	9.986	953.12	9.445	960.77	9.294	962.98	9.757	968.84
10.617	944.82	9.967	952.96	9.426	960.66	9.274	962.82	9.738	968.76
10.600	944.70	9.949	952.88	9.406	960.56	9.254	962.74	9.718	968.59
10.582	944.58	9.930	952.80	9.386	960.40	9.234	962.57	9.699	968.51
10.565	944.46	9.911	952.63	9.367	960.32	9.214	962.49	9.680	968.43
10.547	944.35	9.893	952.52	9.347	960.21	9.194	962.33	9.661	968.28
10.529	944.22	9.874	952.39	9.327	960.07	9.174	962.24	9.642	968.18
10.512	944.10	9.855	952.28	9.308	959.99	9.154	962.08	9.623	968.10
10.494	943.98	9.837	952.14	9.288	959.83	9.134	962.00	9.604	967.94
10.477	943.85	9.818	952.06	9.268	959.74	9.114	961.83	9.585	967.86
10.459	943.73	9.799	951.90	9.249	959.58	9.094	961.67	9.566	967.77
10.442	943.60	9.781	951.81	9.229	959.50	9.074	961.59	9.547	967.61
10.424	943.55	9.762	951.65	9.209	959.35	9.054	961.42	9.528	967.53
10.407	943.43	9.743	951.57	9.190	959.25	9.034	961.34	9.509	967.41
10.389	943.29	9.725	951.40	9.170	959.10	9.015	961.18	9.490	967.28
10.372	943.16	9.706	951.32	9.150	959.01	8.995	961.03	9.471	967.20
10.354	943.02	9.687	951.16	9.131	958.84	8.975	960.93	9.451	967.04
10.337	942.89	9.669	951.08	9.111	958.76	8.955	960.77	9.432	966.96
10.319	942.84	9.650	950.91	9.091	958.62	8.935	960.69	9.413	966.79
10.301	942.70	9.632	950.83	9.072	958.48	8.915	960.52	9.394	966.71
10.284	942.57	9.613	950.67	9.052	958.35	8.895	960.43	9.375	966.63
10.266	942.43	9.594	950.54	9.032	958.25	8.875	960.28	9.356	966.46
10.249	942.38	9.576	950.42	9.013	958.10	8.855	960.13	9.337	966.38
10.231	942.24	9.557	950.34	8.993	957.99	8.835	960.03	9.318	966.30
10.214	942.10	9.538	950.24	8.974	957.82	8.815	959.87	9.299	966.14
10.196	941.99	9.520	950.09	8.954	957.69	8.795	959.79	9.280	966.06
10.179	941.90	9.501	949.93	8.934	957.60	8.775	959.62	9.261	965.89
10.161	941.75	9.482	949.85	8.915	957.45	8.755	959.52	9.242	965.81
10.144	941.61	9.464	949.68	8.895	957.35	8.735	959.38	9.223	965.64
10.126	941.56	9.445	949.60	8.875	957.16	8.715	959.26	9.203	965.56
10.109	941.41	9.426	949.44	8.856	957.04	8.696	959.13	9.184	965.40
10.091	941.26	9.408	949.36	8.836	956.94	8.676	959.02	9.165	965.32
10.073	941.17	9.389	949.28	8.816	956.75	8.656	958.89	9.146	965.21
10.056	941.04	9.370	949.22	8.797	956.63	8.636	958.79	9.127	965.07
10.038	940.92	9.352	949.13	8.777	956.52	8.616	958.63	9.108	964.97
10.021	940.82	9.333	949.04	8.757	956.38	8.596	958.48	9.089	964.83
10.003	940.66	9.315	948.85	8.738	956.29	8.576	958.39	9.070	964.74
9.986	940.55	9.296	948.70	8.718	956.14	8.556	958.23	9.051	964.58
9.968	940.44	9.277	948.67	8.698	956.00	8.536	958.15	9.032	964.50

9.951	940.35	9.259	948.61	8.679	955.81	8.516	957.98	9.013	964.42
9.933	940.20	9.240	948.44	8.659	955.73	8.496	957.90	8.994	964.25
9.916	940.11	9.221	948.31	8.639	955.57	8.476	957.74	8.975	964.16
9.898	939.94	9.203	948.13	8.620	955.43	8.456	957.64	8.955	964.01
9.881	939.82	9.184	948.03	8.600	955.32	8.436	957.49	8.936	963.93
9.863	939.73	9.165	947.88	8.580	955.22	8.416	957.35	8.917	963.76
9.846	939.60	9.147	947.79	8.561	955.07	8.396	957.25	8.898	963.68
9.828	939.43	9.128	947.64	8.541	954.96	8.377	957.08	8.879	963.52
9.810	939.34	9.109	947.50	8.521	954.79	8.357	956.97	8.860	963.43
9.793	939.18	9.091	947.39	8.502	954.66	8.337	956.84	8.841	963.27
9.775	939.08	9.072	947.25	8.482	954.50	8.317	956.67	8.822	963.19
9.758	938.96	9.053	947.11	8.462	954.42	8.297	956.59	8.803	963.02
9.740	938.82	9.035	946.98	8.443	954.25	8.277	956.43	8.784	962.94
9.723	938.72	9.016	946.90	8.423	954.17	8.257	956.35	8.765	962.78
9.705	938.55	8.997	946.74	8.404	954.06	8.237	956.18	8.746	962.70
9.688	938.50	8.979	946.57	8.384	953.93	8.217	956.02	8.727	962.53
9.670	938.35	8.960	946.41	8.364	953.81	8.197	955.91	8.708	962.45
9.653	938.24	8.942	946.24	8.345	953.66	8.177	955.77	8.688	962.29
9.635	938.14	8.923	946.14	8.325	953.52	8.157	955.61	8.669	962.21
9.618	937.95	8.904	946.00	8.305	953.41	8.137	955.51	8.650	962.05
9.600	937.87	8.886	945.83	8.286	953.27	8.117	955.36	8.631	961.96
9.582	937.74	8.867	945.75	8.266	953.11	8.097	955.20	8.612	961.79
9.565	937.56	8.848	945.59	8.246	953.03	8.077	955.12	8.593	961.71
9.547	937.48	8.830	945.47	8.227	952.86	8.058	954.95	8.574	961.55
9.530	937.32	8.811	945.34	8.207	952.78	8.038	954.80	8.555	961.47
9.512	937.26	8.792	945.18	8.187	952.62	8.018	954.71	8.536	961.30
9.495	937.08	8.774	945.10	8.168	952.45	7.998	954.54	8.517	961.22
9.477	936.97	8.755	944.95	8.148	952.37	7.978	954.46	8.498	961.06
9.460	936.83	8.736	944.85	8.128	952.21	7.958	954.30	8.479	960.98
9.442	936.70	8.718	944.69	8.109	952.12	7.938	954.14	8.460	960.81
9.425	936.58	8.699	944.57	8.089	951.96	7.918	954.05	8.440	960.73
9.407	936.47	8.680	944.44	8.069	951.81	7.898	953.89	8.421	960.57
9.390	936.37	8.662	944.36	8.050	951.72	7.878	953.81	8.402	960.48
9.372	936.19	8.643	944.21	8.030	951.60	7.858	953.64	8.383	960.36
9.354	936.09	8.625	944.12	8.010	951.47	7.838	953.54	8.364	960.24
9.337	935.99	8.606	944.01	7.991	951.31	7.818	953.40	8.345	960.11
9.319	935.80	8.587	943.87	7.971	951.14	7.798	953.28	8.326	959.99
9.302	935.73	8.569	943.78	7.951	951.03	7.778	953.08	8.307	959.85
9.284	935.61	8.550	943.62	7.932	950.90	7.758	952.99	8.288	959.80
9.267	935.48	8.531	943.52	7.912	950.74	7.739	952.82	8.269	959.67
9.249	935.29	8.513	943.39	7.892	950.65	7.719	952.71	8.250	959.54
9.232	935.19	8.494	943.27	7.873	950.49	7.699	952.58	8.231	959.42
9.214	935.10	8.475	943.12	7.853	950.40	7.679	952.41	8.212	959.32
9.197	934.94	8.457	943.05	7.834	950.24	7.659	952.25	8.192	959.20
9.179	934.85	8.438	942.89	7.814	950.10	7.639	952.08	8.173	959.09

9.162	934.69	8.419	942.80	7.794	950.00	7.619	952.00	8.154	958.98
9.144	934.57	8.401	942.66	7.775	949.83	7.599	951.84	8.135	958.85
9.126	934.40	8.382	942.56	7.755	949.67	7.579	951.67	8.116	958.76
9.109	934.26	8.363	942.39	7.735	949.59	7.559	951.59	8.097	958.60
9.091	934.15	8.345	942.29	7.716	949.42	7.539	951.43	8.078	958.52
9.074	934.04	8.326	942.15	7.696	949.26	7.519	951.27	8.059	958.36
9.056	933.88	8.308	942.03	7.676	949.18	7.499	951.18	8.040	958.26
9.039	933.75	8.289	941.91	7.657	949.01	7.479	951.02	8.021	958.11
9.021	933.63	8.270	941.78	7.637	948.93	7.459	950.86	8.002	957.99
9.004	933.49	8.252	941.62	7.617	948.77	7.440	950.77	7.983	957.87
8.986	933.36	8.233	941.52	7.598	948.60	7.420	950.61	7.964	957.78
8.969	933.18	8.214	941.35	7.578	948.51	7.400	950.45	7.945	957.62
8.951	933.07	8.196	941.25	7.558	948.36	7.380	950.28	7.925	957.52
8.934	932.92	8.177	941.07	7.539	948.19	7.360	950.12	7.906	957.37
8.916	932.80	8.158	940.95	7.519	948.11	7.340	950.04	7.887	957.23
8.899	932.68	8.140	940.84	7.499	947.95	7.320	949.87	7.868	957.13
8.881	932.54	8.121	940.69	7.480	947.85	7.300	949.75	7.849	957.04
8.863	932.40	8.102	940.59	7.460	947.70	7.280	949.63	7.830	956.89
8.846	932.31	8.084	940.45	7.440	947.54	7.260	949.46	7.811	956.77
8.828	932.15	8.065	940.26	7.421	947.37	7.240	949.30	7.792	956.64
8.811	932.02	8.046	940.17	7.401	947.29	7.220	949.22	7.773	956.55
8.793	931.91	8.028	940.04	7.381	947.13	7.200	949.05	7.754	956.39
8.776	931.77	8.009	939.91	7.362	946.96	7.180	948.89	7.735	956.27
8.758	931.58	7.990	939.78	7.342	946.87	7.160	948.72	7.716	956.14
8.741	931.45	7.972	939.61	7.322	946.72	7.140	948.56	7.697	955.98
8.723	931.33	7.953	939.46	7.303	946.55	7.121	948.45	7.677	955.90
8.706	931.19	7.935	939.31	7.283	946.42	7.101	948.31	7.658	955.73
8.688	931.09	7.916	939.20	7.264	946.31	7.081	948.15	7.639	955.65
8.671	930.92	7.897	939.05	7.244	946.19	7.061	947.98	7.620	955.49
8.653	930.79	7.879	938.90	7.224	946.06	7.041	947.90	7.601	955.38
8.635	930.64	7.860	938.77	7.205	945.93	7.021	947.74	7.582	955.24
8.618	930.51	7.841	938.64	7.185	945.75	7.001	947.58	7.563	955.10
8.600	930.36	7.823	938.52	7.165	945.65	6.981	947.41	7.544	955.00
8.583	930.27	7.804	938.37	7.146	945.49	6.961	947.33	7.525	954.83
8.565	930.10	7.785	938.22	7.126	945.32	6.941	947.17	7.506	954.75
8.548	930.02	7.767	938.10	7.106	945.24	6.921	947.00	7.487	954.59
8.530	929.86	7.748	937.95	7.087	945.08	6.901	946.84	7.468	954.50
8.513	929.69	7.729	937.84	7.067	944.91	6.881	946.70	7.449	954.34
8.495	929.56	7.711	937.68	7.047	944.75	6.861	946.59	7.429	954.22
8.478	929.45	7.692	937.55	7.028	944.58	6.841	946.43	7.410	954.07
8.460	929.28	7.673	937.34	7.008	944.42	6.821	946.26	7.391	953.93
8.443	929.18	7.655	937.23	6.988	944.33	6.802	946.10	7.372	953.83
8.425	929.04	7.636	937.07	6.969	944.12	6.782	945.93	7.353	953.69
8.407	928.87	7.618	936.95	6.949	944.01	6.762	945.77	7.334	953.53
8.390	928.78	7.599	936.82	6.929	943.85	6.742	945.69	7.315	953.44

8.372	928.63	7.580	936.66	6.910	943.68	6.722	945.55	7.296	953.28
8.355	928.46	7.562	936.50	6.890	943.52	6.702	945.36	7.277	953.19
8.337	928.36	7.543	936.40	6.870	943.35	6.682	945.20	7.258	953.03
8.320	928.22	7.524	936.21	6.851	943.19	6.662	945.03	7.239	952.90
8.302	928.05	7.506	936.08	6.831	943.02	6.642	944.95	7.220	952.78
8.285	927.89	7.487	935.97	6.811	942.63	6.622	944.79	7.201	952.62
8.267	927.78	7.468	935.80	6.792	942.69	6.602	944.62	7.182	952.54
8.250	927.64	7.450	935.67	6.772	942.44	6.582	944.46	7.162	952.37
8.232	927.48	7.431	935.51	6.752	942.20	6.562	944.26	7.143	952.21
8.215	927.34	7.412	935.34	6.733	942.04	6.542	944.05	7.124	952.13
8.197	927.23	7.394	935.18	6.713	941.87	6.522	943.88	7.105	951.96
8.180	927.07	7.375	935.06	6.694	941.79	6.502	943.72	7.086	951.88
8.162	926.93	7.356	934.89	6.674	941.63	6.483	943.56	7.067	951.72
8.144	926.83	7.338	934.77	6.654	941.46	6.463	943.47	7.048	951.58
8.127	926.71	7.319	934.60	6.635	941.38	6.443	943.30	7.029	951.47
8.109	926.58	7.301	934.44	6.615	941.22	6.423	943.06	7.010	951.31
8.092	926.49	7.282	934.29	6.595	941.05	6.403	942.98	6.991	951.23
8.074	926.33	7.263	934.19	6.576	940.89	6.383	942.81	6.972	951.06
8.057	926.17	7.245	934.03	6.556	940.73	6.363	942.69	6.953	950.90
8.039	926.08	7.226	933.87	6.536	940.62	6.343	942.57	6.934	950.84
8.022	925.92	7.207	933.73	6.517	940.48	6.323	942.41	6.914	950.72
8.004	925.79	7.189	933.57	6.497	940.32	6.303	942.30	6.895	950.60
7.987	925.67	7.170	933.46	6.477	940.23	6.283	942.10	6.876	950.47
7.969	925.51	7.151	933.29	6.458	940.08	6.263	941.96	6.857	950.35
7.952	925.41	7.133	933.13	6.438	939.94	6.243	941.83	6.838	950.23
7.934	925.25	7.114	933.00	6.418	939.82	6.223	941.67	6.819	950.10
7.916	925.17	7.095	932.84	6.399	939.65	6.203	941.50	6.800	949.97
7.899	924.98	7.077	932.69	6.379	939.50	6.183	941.34	6.781	949.85
7.881	924.87	7.058	932.55	6.359	939.41	6.164	941.17	6.762	949.72
7.864	924.68	7.039	932.39	6.340	939.23	6.144	941.01	6.743	949.59
7.846	924.54	7.021	932.23	6.320	939.09	6.124	940.92	6.724	949.46
7.829	924.42	7.002	932.06	6.300	938.92	6.104	940.71	6.705	949.34
7.811	924.28	6.983	931.91	6.281	938.81	6.084	940.59	6.686	949.21
7.794	924.12	6.965	931.82	6.261	938.63	6.064	940.44	6.666	949.09
7.776	924.04	6.946	931.65	6.241	938.43	6.044	940.31	6.647	948.96
7.759	923.83	6.928	931.49	6.222	938.35	6.024	940.11	6.628	948.83
7.741	923.71	6.909	931.32	6.202	938.18	6.004	939.98	6.609	948.70
7.724	923.56	6.890	931.16	6.182	938.01	5.984	939.85	6.590	948.57
7.706	923.42	6.872	930.99	6.163	937.87	5.964	939.70	6.571	948.43
7.688	923.30	6.853	930.75	6.143	937.69	5.944	939.57	6.552	948.30
7.671	923.13	6.834	930.58	6.124	937.53	5.924	939.37	6.533	948.16
7.653	922.97	6.816	930.50	6.104	937.41	5.904	939.23	6.514	948.02
7.636	922.81	6.797	930.34	6.084	937.22	5.884	939.12	6.495	947.88
7.618	922.64	6.778	930.23	6.065	937.11	5.864	938.92	6.476	947.74
7.601	922.48	6.760	930.05	6.045	936.95	5.845	938.80	6.457	947.68

7.583	922.32	6.741	929.93	6.025	936.78	5.825	938.69	6.438	947.53
7.566	922.15	6.722	929.76	6.006	936.63	5.805	938.49	6.418	947.39
7.548	921.98	6.704	929.60	5.986	936.46	5.785	938.33	6.399	947.25
7.531	921.82	6.685	929.46	5.966	936.37	5.765	938.26	6.380	947.11
7.513	921.66	6.666	929.32	5.947	936.18	5.745	938.11	6.361	946.97
7.496	921.49	6.648	929.19	5.927	936.03	5.725	937.95	6.342	946.82
7.478	921.33	6.629	929.03	5.907	935.85	5.705	937.77	6.323	946.67
7.460	921.25	6.611	928.86	5.888	935.72	5.685	937.62	6.304	946.51
7.443	921.05	6.592	928.70	5.868	935.56	5.665	937.44	6.285	946.36
7.425	920.93	6.573	928.62	5.848	935.42	5.645	937.32	6.266	946.21
7.408	920.82	6.555	928.37	5.829	935.30	5.625	937.17	6.247	946.06
7.390	920.68	6.536	928.26	5.809	935.14	5.605	937.00	6.228	945.96
7.373	920.54	6.517	928.11	5.789	934.95	5.585	936.87	6.209	945.80
7.355	920.43	6.499	927.96	5.770	934.82	5.565	936.73	6.190	945.63
7.338	920.26	6.480	927.79	5.750	934.67	5.545	936.53	6.171	945.47
7.320	920.18	6.461	927.63	5.730	934.48	5.526	936.41	6.151	945.36
7.303	919.99	6.443	927.47	5.711	934.41	5.506	936.25	6.132	945.22
7.285	919.85	6.424	927.35	5.691	934.19	5.486	936.13	6.113	945.05
7.268	919.69	6.405	927.17	5.671	934.06	5.466	935.90	6.094	944.92
7.250	919.61	6.387	927.06	5.652	933.92	5.446	935.76	6.075	944.79
7.233	919.45	6.368	926.89	5.632	933.76	5.426	935.60	6.056	944.61
7.215	919.28	6.349	926.73	5.612	933.60	5.406	935.45	6.037	944.51
7.197	919.20	6.331	926.59	5.593	933.46	5.386	935.30	6.018	944.33
7.180	919.03	6.312	926.48	5.573	933.30	5.366	935.15	5.999	944.17
7.162	918.87	6.293	926.32	5.554	933.16	5.346	935.02	5.980	944.01
7.145	918.74	6.275	926.20	5.534	933.00	5.326	934.83	5.961	943.90
7.127	918.58	6.256	926.07	5.514	932.86	5.306	934.69	5.942	943.71
7.110	918.42	6.238	925.91	5.495	932.70	5.286	934.52	5.923	943.60
7.092	918.29	6.219	925.79	5.475	932.54	5.266	934.34	5.903	943.43
7.075	918.13	6.200	925.62	5.455	932.38	5.246	934.21	5.884	943.27
7.057	918.00	6.182	925.50	5.436	932.23	5.226	934.02	5.865	943.14
7.040	917.82	6.163	925.33	5.416	932.07	5.207	933.89	5.846	942.95
7.022	917.71	6.144	925.20	5.396	931.91	5.187	933.71	5.827	942.83
7.005	917.56	6.126	925.03	5.377	931.74	5.167	933.52	5.808	942.70
6.987	917.40	6.107	924.94	5.357	931.59	5.147	933.38	5.789	942.53
6.969	917.29	6.088	924.78	5.337	931.42	5.127	933.23	5.770	942.34
6.952	917.15	6.070	924.60	5.318	931.27	5.107	933.09	5.751	942.24
6.934	916.98	6.051	924.43	5.298	931.11	5.087	932.90	5.732	942.04
6.917	916.84	6.032	924.34	5.278	930.95	5.067	932.73	5.713	941.92
6.899	916.75	6.014	924.17	5.259	930.78	5.047	932.56	5.694	941.79
6.882	916.57	5.995	924.00	5.239	930.62	5.027	932.39	5.675	941.63
6.864	916.46	5.976	923.81	5.219	930.47	5.007	932.23	5.655	941.45
6.847	916.30	5.958	923.72	5.200	930.35	4.987	932.05	5.636	941.32
6.829	916.16	5.939	923.54	5.180	930.12	4.967	931.83	5.617	941.17
6.812	916.03	5.921	923.43	5.160	930.01	4.947	931.72	5.598	941.04

6.794	915.87	5.902	923.29	5.141	929.84	4.927	931.56	5.579	940.83
6.777	915.69	5.883	923.13	5.121	929.64	4.907	931.33	5.560	940.70
6.759	915.57	5.865	922.96	5.101	929.47	4.888	931.16	5.541	940.55
6.741	915.42	5.846	922.78	5.082	929.26	4.868	930.85	5.522	940.40
6.724	915.28	5.827	922.63	5.062	929.15	4.848	930.75	5.503	940.23
6.706	915.10	5.809	922.54	5.042	928.94	4.828	930.43	5.484	940.07
6.689	915.01	5.790	922.35	5.023	928.78	4.808	930.34	5.465	939.93
6.671	914.84	5.771	922.21	5.003	928.60	4.788	930.17	5.446	939.73
6.654	914.69	5.753	922.05	4.984	928.46	4.768	930.02	5.427	939.57
6.636	914.60	5.734	921.87	4.964	928.26	4.748	929.82	5.408	939.41
6.619	914.43	5.715	921.75	4.944	928.08	4.728	929.65	5.388	939.26
6.601	914.26	5.697	921.56	4.925	927.88	4.708	929.46	5.369	939.10
6.584	914.09	5.678	921.43	4.905	927.69	4.688	929.35	5.350	938.92
6.566	914.00	5.659	921.31	4.885	927.52	4.668	929.20	5.331	938.76
6.549	913.76	5.641	921.13	4.866	927.38	4.648	929.16	5.312	938.59
6.531	913.68	5.622	921.00	4.846	927.16	4.628	928.98	5.293	938.49
6.513	913.51	5.604	920.80	4.826	927.00	4.608	928.87	5.274	938.32
6.496	913.35	5.585	920.66	4.807	926.77	4.588	928.70	5.255	938.15
6.478	913.19	5.566	920.49	4.787	926.61	4.569	928.52	5.236	937.94
6.461	913.02	5.548	920.33	4.767	926.45	4.549	928.42	5.217	937.83
6.443	912.94	5.529	920.17	4.748	926.24	4.529	928.21	5.198	937.64
6.426	912.78	5.510	920.02	4.728	926.05	4.509	928.10	5.179	937.45
6.408	912.62	5.492	919.86	4.708	925.84	4.489	927.94	5.160	937.28
6.391	912.47	5.473	919.71	4.689	925.71	4.469	927.78	5.140	937.15
6.373	912.30	5.454	919.58	4.669	925.55	4.449	927.66	5.121	937.01
6.356	912.16	5.436	919.43	4.649	925.31	4.429	927.50	5.102	936.78
6.338	912.00	5.417	919.25	4.630	925.16	4.409	927.31	5.083	936.62
6.321	911.85	5.398	919.05	4.610	924.97	4.389	927.12	5.064	936.46
6.303	911.70	5.380	918.87	4.590	924.75	4.369	926.99	5.045	935.67
6.286	911.55	5.361	918.78	4.571	924.57	4.349	926.75	5.026	935.55
6.268	911.41	5.342	918.63	4.551	924.44	4.329	926.65	5.007	935.40
6.250	911.18	5.324	918.48	4.531	924.24	4.309	926.49	4.988	935.26
6.233	911.04	5.305	918.33	4.512	924.01	4.289	926.33	4.969	935.14
6.215	910.90	5.286	918.18	4.492	923.71	4.269	926.09	4.950	934.99
6.198	910.76	5.268	918.02	4.472	923.49	4.250	925.95	4.931	934.86
6.180	910.62	5.249	917.87	4.453	923.33	4.230	925.76	4.912	934.73
6.163	910.48	5.231	917.66	4.433	923.16	4.210	925.59	4.892	934.56
6.145	910.32	5.212	917.50	4.414	923.00	4.190	925.39	4.873	934.40
6.128	910.14	5.193	917.33	4.394	922.81	4.170	925.22	4.854	934.18
6.110	910.02	5.175	917.12	4.374	922.67	4.150	925.04	4.835	934.07
6.093	909.88	5.156	917.01	4.355	922.42	4.130	924.81	4.816	933.98
6.075	909.72	5.137	916.83	4.335	922.27	4.110	924.65	4.797	933.90
6.058	909.54	5.119	916.61	4.315	922.10	4.090	924.44	4.778	933.76
6.040	909.35	5.100	916.50	4.296	921.85	4.070	924.11	4.759	933.63
3.647	101.74	3.569	101.98	3.504	97.61	3.520	99.04	4.740	933.50

3.629	100.55	3.551	99.74	3.487	96.79	3.503	97.94	4.721	933.37
3.611	99.68	3.534	98.60	3.470	96.01	3.486	97.04	4.702	933.24
3.594	98.91	3.516	97.78	3.453	95.31	3.469	96.33	4.683	933.09
3.576	98.05	3.499	96.97	3.436	94.45	3.451	95.52	4.664	932.80
3.558	97.23	3.481	96.18	3.419	93.67	3.434	94.73	4.645	932.68
3.540	96.50	3.464	95.41	3.402	92.94	3.417	93.96	4.625	932.46
3.522	95.67	3.447	94.64	3.384	92.10	3.400	93.27	4.606	932.27
3.504	94.96	3.429	93.87	3.367	91.36	3.383	92.50	4.587	932.10
3.486	94.14	3.412	93.05	3.350	90.66	3.366	91.72	4.568	931.94
3.469	93.41	3.394	92.30	3.333	89.85	3.348	90.97	4.549	931.77
3.451	92.62	3.377	91.56	3.316	89.19	3.331	90.23	4.530	931.58
3.433	91.85	3.359	90.84	3.299	88.38	3.314	89.50	4.511	931.44
3.415	91.09	3.342	90.09	3.282	87.67	3.297	88.78	4.492	931.27
3.397	90.34	3.325	89.37	3.265	86.95	3.280	88.05	4.473	931.08
3.379	89.63	3.307	88.63	3.248	86.40	3.262	87.31	4.454	930.87
3.362	88.90	3.290	87.94	3.230	85.68	3.245	86.59	4.435	930.72
3.344	88.13	3.272	87.20	3.213	85.00	3.228	85.90	4.416	930.54
3.326	87.43	3.255	86.50	3.196	84.32	3.211	85.30	4.397	930.38
3.308	86.73	3.237	85.84	3.179	83.61	3.194	84.51	4.377	930.05
3.290	86.04	3.220	85.14	3.162	82.98	3.176	83.91	4.358	929.83
3.272	85.30	3.203	84.44	3.145	82.26	3.159	83.20	4.339	929.64
3.254	84.68	3.185	83.79	3.128	81.59	3.142	82.63	4.320	929.47
3.237	83.93	3.168	83.07	3.111	80.89	3.125	81.91	4.301	929.27
3.219	83.21	3.150	82.43	3.094	80.30	3.108	81.20	4.282	929.06
3.201	82.58	3.133	81.75	3.077	79.62	3.091	80.55	4.263	928.90
3.183	81.94	3.115	81.07	3.059	78.96	3.073	79.89	4.244	928.72
3.165	81.31	3.098	80.46	3.042	78.31	3.056	79.24	4.225	928.57
3.147	80.60	3.081	79.79	3.025	77.71	3.039	78.68	4.206	928.43
3.130	79.99	3.063	79.11	3.008	77.05	3.022	77.95	4.187	928.26
3.112	79.37	3.046	78.48	2.991	76.38	3.005	77.32	4.168	928.09
3.094	78.69	3.028	77.84	2.974	75.81	2.987	76.70	4.149	927.94
3.076	78.01	3.011	77.17	2.957	75.23	2.970	76.10	4.129	927.76
3.058	77.37	2.993	76.52	2.940	74.60	2.953	75.45	4.110	927.63
3.040	76.82	2.976	75.92	2.923	73.95	2.936	74.87	4.091	927.46
3.022	76.16	2.959	75.31	2.905	73.40	2.919	74.27	4.072	927.33
3.005	75.54	2.941	74.68	2.888	72.75	2.901	73.66	4.053	927.16
2.987	74.88	2.924	74.02	2.871	72.20	2.884	73.05	4.034	926.93
2.969	74.28	2.906	73.44	2.854	71.56	2.867	72.43	4.015	926.76
2.951	73.70	2.889	72.80	2.837	71.02	2.850	71.83	3.996	926.64
2.933	73.08	2.871	72.17	2.820	70.43	2.833	71.26	3.977	926.43
2.915	72.43	2.854	71.59	2.803	69.85	2.816	70.65	3.958	926.28
2.898	71.87	2.837	70.94	2.786	69.24	2.798	70.02	3.939	926.07
2.880	71.30	2.819	70.40	2.769	68.62	2.781	69.44	3.920	925.93
2.862	70.70	2.802	69.76	2.752	68.09	2.764	68.84	3.901	925.70
2.844	70.05	2.784	69.17	2.734	67.49	2.747	68.27	3.882	925.51

2.826	69.49	2.767	68.62	2.717	66.95	2.730	67.74	3.862	925.29
2.808	68.93	2.749	68.01	2.700	66.35	2.712	67.14	3.843	925.04
2.791	68.29	2.732	67.41	2.683	65.84	2.695	66.58	3.824	924.74
2.773	67.73	2.715	66.88	2.666	65.27	2.678	66.00	3.805	924.54
2.755	67.17	2.697	66.23	2.649	64.73	2.661	65.50	3.517	98.24
2.737	66.56	2.680	65.63	2.632	64.16	2.644	64.90	3.494	97.15
2.719	66.03	2.662	65.05	2.615	63.64	2.626	64.34	3.471	96.08
2.701	65.51	2.645	64.52	2.598	63.05	2.609	63.79	3.448	95.04
2.683	64.90	2.627	63.94	2.580	62.55	2.592	63.22	3.426	93.97
2.666	64.39	2.610	63.35	2.563	61.98	2.575	62.66	3.403	92.98
2.648	63.82	2.593	62.81	2.546	61.49	2.558	62.11	3.380	91.90
2.630	63.25	2.575	62.28	2.529	60.91	2.541	61.58	3.357	90.93
2.612	62.68	2.558	61.72	2.512	60.43	2.523	61.16	3.334	89.88
2.594	62.14	2.540	61.17	2.495	59.87	2.506	60.52	3.311	88.96
2.576	61.60	2.523	60.58	2.478	59.39	2.489	59.98	3.288	87.96
2.559	61.05	2.505	60.11	2.461	58.84	2.472	59.44	3.265	86.96
2.541	60.55	2.488	59.50	2.444	58.36	2.455	58.92	3.242	86.15
2.523	60.04	2.471	58.92	2.426	57.81	2.437	58.37	3.219	85.20
2.505	59.47	2.453	58.46	2.409	57.34	2.420	57.89	3.196	84.31
2.487	58.91	2.436	57.94	2.392	56.80	2.403	57.35	3.173	83.37
2.469	58.40	2.418	57.38	2.375	56.28	2.386	56.84	3.150	82.46
2.451	57.85	2.401	56.86	2.358	55.81	2.369	56.36	3.127	81.57
2.434	57.31	2.383	56.31	2.341	55.29	2.351	55.76	3.104	80.68
2.416	56.82	2.366	55.81	2.324	54.77	2.334	55.34	3.082	79.80
2.398	56.28	2.348	55.30	2.307	54.31	2.317	54.85	3.059	78.91
2.380	55.76	2.331	54.78	2.290	53.79	2.300	54.27	3.036	78.08
2.362	55.26	2.314	54.25	2.273	53.27	2.283	53.85	3.013	77.23
2.344	54.73	2.296	53.72	2.255	52.76	2.266	53.28	2.990	76.36
2.327	54.21	2.279	53.25	2.238	52.26	2.248	52.83	2.967	75.54
2.309	53.72	2.261	52.74	2.221	51.83	2.231	52.29	2.944	74.76
2.291	53.20	2.244	52.24	2.204	51.33	2.214	51.80	2.921	73.90
2.273	52.67	2.226	51.72	2.187	50.85	2.197	51.32	2.898	73.12
2.255	52.19	2.209	51.27	2.170	50.34	2.180	50.81	2.875	72.33
2.237	51.71	2.192	50.78	2.153	49.86	2.162	50.36	2.852	71.49
2.219	51.24	2.174	50.24	2.136	49.38	2.145	49.80	2.829	70.73
2.202	50.69	2.157	49.84	2.119	48.99	2.128	49.36	2.806	69.98
2.184	50.24	2.139	49.28	2.101	48.47	2.111	48.94	2.783	69.14
2.166	49.73	2.122	48.82	2.084	48.01	2.094	48.40	2.760	68.42
2.148	49.20	2.104	48.33	2.067	47.53	2.076	47.91	2.738	67.60
2.130	48.72	2.087	47.88	2.050	47.10	2.059	47.41	2.715	66.86
2.112	48.22	2.070	47.39	2.033	46.57	2.042	47.03	2.692	66.13
2.095	47.74	2.052	46.88	2.016	46.17	2.025	46.49	2.669	65.34
2.077	47.30	2.035	46.43	1.999	45.70	2.008	46.10	2.646	64.63
2.059	46.77	2.017	46.03	1.982	45.22	1.991	45.61	2.623	63.90
2.041	46.34	2.000	45.53	1.965	44.80	1.973	45.17	2.600	63.14

2.023	45.83	1.982	45.06	1.948	44.28	1.956	44.62	2.577	62.44
2.005	45.34	1.965	44.56	1.930	43.89	1.939	44.19	2.554	61.74
1.987	44.85	1.948	44.17	1.913	43.42	1.922	43.66	2.531	60.99
1.970	44.38	1.930	43.64	1.896	42.97	1.905	43.27	2.508	60.30
1.952	43.90	1.913	43.19	1.879	42.50	1.887	42.80	2.485	59.62
1.934	43.43	1.895	42.75	1.862	42.04	1.870	42.33	2.462	58.88
1.916	42.98	1.878	42.28	1.845	41.66	1.853	41.94	2.439	58.23
1.898	42.53	1.860	41.87	1.828	41.20	1.836	41.45	2.416	57.57
1.880	42.06	1.843	41.38	1.811	40.74	1.819	40.98	2.393	56.84
1.863	41.57	1.826	40.92	1.794	40.36	1.802	40.58	2.371	56.20
1.845	41.12	1.808	40.48	1.776	39.91	1.784	40.11	2.348	55.48
1.827	40.67	1.791	40.09	1.759	39.43	1.767	39.63	2.325	54.79
1.809	40.19	1.773	39.61	1.742	39.02	1.750	39.19	2.302	54.16
1.791	39.83	1.756	39.14	1.725	38.54	1.733	38.75	2.279	53.47
1.773	39.32	1.738	38.73	1.708	38.15	1.716	38.37	2.256	52.77
1.755	38.85	1.721	38.34	1.691	37.70	1.698	37.91	2.233	52.18
1.738	38.46	1.704	37.85	1.674	37.25	1.681	37.51	2.210	51.51
1.720	37.97	1.686	37.38	1.657	36.81	1.664	37.05	2.187	50.85
1.702	37.43	1.669	36.93	1.640	36.45	1.647	36.55	2.164	50.19
1.684	36.99	1.651	36.55	1.622	36.01	1.630	36.19	2.141	49.58
1.666	36.60	1.634	36.10	1.605	35.59	1.612	35.76	2.118	48.98
1.648	36.14	1.616	35.74	1.588	35.12	1.595	35.32	2.095	48.30
1.631	35.69	1.599	35.21	1.571	34.75	1.578	34.90	2.072	47.68
1.613	35.29	1.582	34.76	1.554	34.30	1.561	34.51	2.049	47.10
1.595	34.82	1.564	34.41	1.537	33.86	1.544	34.07	2.027	46.43
1.577	34.41	1.547	33.96	1.520	33.47	1.527	33.62	2.004	45.83
1.559	33.94	1.529	33.52	1.503	33.07	1.509	33.13	1.981	45.19
1.541	33.52	1.512	33.10	1.486	32.62	1.492	32.72	1.958	44.57
1.523	33.07	1.494	32.71	1.469	32.20	1.475	32.30	1.935	44.01
1.506	32.66	1.477	32.32	1.451	31.84	1.458	31.89	1.912	43.39
1.488	32.26	1.460	31.81	1.434	31.42	1.441	31.49	1.889	42.76
1.470	31.81	1.442	31.38	1.417	30.98	1.423	31.15	1.866	42.20
1.452	31.36	1.425	30.98	1.400	30.64	1.406	30.65	1.843	41.61
1.434	30.94	1.407	30.57	1.383	30.22	1.389	30.27	1.820	41.00
1.416	30.50	1.390	30.15	1.366	29.78	1.372	29.81	1.797	40.38
1.399	30.07	1.372	29.74	1.349	29.37	1.355	29.52	1.774	39.86
1.381	29.67	1.355	29.27	1.332	29.01	1.337	29.12	1.751	39.22
1.363	29.28	1.338	28.95	1.315	28.58	1.320	28.64	1.728	38.61
1.345	28.88	1.320	28.51	1.297	28.16	1.303	28.22	1.705	38.09
1.327	28.42	1.303	28.09	1.280	27.81	1.286	27.80	1.683	37.48
1.309	28.05	1.285	27.67	1.263	27.38	1.269	27.40	1.660	36.95
1.291	27.60	1.268	27.25	1.246	26.96	1.252	27.05	1.637	36.37
1.274	27.17	1.250	26.84	1.229	26.53	1.234	26.63	1.614	35.78
1.256	26.74	1.233	26.43	1.212	26.18	1.217	26.15	1.591	35.18
1.238	26.32	1.216	26.04	1.195	25.78	1.200	25.78	1.568	34.66

1.220	25.96	1.198	25.62	1.178	25.36	1.183	25.37	1.545	34.06
1.202	25.59	1.181	25.22	1.161	24.96	1.166	24.99	1.522	33.47
1.184	25.15	1.163	24.81	1.143	24.63	1.148	24.59	1.499	32.97
1.167	24.72	1.146	24.41	1.126	24.22	1.131	24.26	1.476	32.38
1.149	24.30	1.128	24.03	1.109	23.81	1.114	23.79	1.453	31.88
1.131	23.89	1.111	23.62	1.092	23.41	1.097	23.42	1.430	31.31
1.113	23.46	1.094	23.22	1.075	23.05	1.080	23.04	1.407	30.81
1.095	23.14	1.076	22.83	1.058	22.60	1.062	22.63	1.384	30.24
1.077	22.69	1.059	22.45	1.041	22.21	1.045	22.25	1.361	29.68
1.059	22.30	1.041	21.97	1.024	21.82	1.028	21.87	1.338	29.18
1.042	21.89	1.024	21.66	1.007	21.50	1.011	21.46	1.316	28.60
1.024	21.52	1.006	21.26	0.990	21.11	0.994	21.15	1.293	28.03
1.006	21.12	0.989	20.93	0.972	20.65	0.977	20.74	1.270	27.55
0.988	20.72	0.972	20.49	0.955	20.27	0.959	20.36	1.247	26.98
0.970	20.32	0.954	20.16	0.938	19.88	0.942	19.93	1.224	26.42
0.952	19.95	0.937	19.72	0.921	19.54	0.925	19.58	1.201	25.93
0.935	19.58	0.919	19.29	0.904	19.11	0.908	19.17	1.178	25.37
0.917	19.15	0.902	18.94	0.887	18.75	0.891	18.79	1.155	24.90
0.899	18.72	0.884	18.58	0.870	18.38	0.873	18.48	1.132	24.35
0.881	18.38	0.867	18.23	0.853	18.01	0.856	18.12	1.109	23.81
0.863	18.00	0.849	17.86	0.836	17.65	0.839	17.66	1.086	23.34
0.845	17.58	0.832	17.42	0.818	17.28	0.822	17.35	1.063	22.72
0.827	17.22	0.815	17.10	0.801	16.88	0.805	16.96	1.040	22.20
0.810	16.82	0.797	16.67	0.784	16.54	0.787	16.53	1.017	21.76
0.792	16.43	0.780	16.29	0.767	16.10	0.770	16.17	0.994	21.23
0.774	16.06	0.762	15.93	0.750	15.74	0.753	15.82	0.972	20.63
0.756	15.71	0.745	15.55	0.733	15.37	0.736	15.41	0.949	20.14
0.738	15.32	0.727	15.20	0.716	15.02	0.719	15.04	0.926	19.67
0.720	14.94	0.710	14.84	0.699	14.66	0.702	14.76	0.903	19.09
0.703	14.57	0.693	14.48	0.682	14.23	0.684	14.34	0.880	18.59
0.685	14.19	0.675	14.11	0.665	13.89	0.667	13.97	0.857	18.09
0.667	13.82	0.658	13.76	0.647	13.53	0.650	13.63	0.834	17.61
0.649	13.41	0.640	13.38	0.630	13.18	0.633	13.27	0.811	17.08
0.631	13.06	0.623	13.05	0.613	12.76	0.616	12.90	0.788	16.58
0.613	12.69	0.605	12.65	0.596	12.41	0.598	12.48	0.765	16.06
0.595	12.32	0.588	12.25	0.579	12.07	0.581	12.14	0.742	15.57
0.578	11.95	0.571	11.93	0.562	11.72	0.564	11.82	0.719	15.09
0.560	11.63	0.553	11.55	0.545	11.37	0.547	11.47	0.696	14.60
0.542	11.22	0.536	11.23	0.528	10.99	0.530	11.03	0.673	14.08
0.524	10.83	0.518	10.83	0.511	10.61	0.512	10.71	0.650	13.60
0.506	10.51	0.501	10.47	0.493	10.27	0.495	10.35	0.628	13.12
0.488	10.08	0.483	10.11	0.476	9.92	0.478	10.04	0.605	12.59
0.471	9.74	0.466	9.73	0.459	9.52	0.461	9.65	0.582	12.12
0.453	9.38	0.449	9.38	0.442	9.23	0.444	9.21	0.559	11.65
0.435	9.05	0.431	9.02	0.425	8.82	0.427	8.86	0.536	11.11

0.417	8.63	0.414	8.68	0.408	8.49	0.409	8.48	0.513	10.65
0.399	8.27	0.396	8.30	0.391	8.15	0.392	8.14	0.490	10.20
0.381	7.93	0.379	8.00	0.374	7.74	0.375	7.80	0.467	9.74
0.363	7.58	0.361	7.59	0.357	7.41	0.358	7.49	0.444	9.28
0.346	7.24	0.344	7.29	0.339	7.09	0.341	7.17	0.421	8.74
0.328	6.82	0.327	6.93	0.322	6.77	0.323	6.84	0.398	8.31
0.310	6.47	0.309	6.58	0.305	6.38	0.306	6.47	0.375	7.78
0.292	6.13	0.292	6.17	0.288	6.00	0.289	6.12	0.352	7.33
0.274	5.75	0.274	5.89	0.271	5.70	0.272	5.80	0.329	6.84
0.256	5.41	0.257	5.54	0.254	5.32	0.255	5.46	0.306	6.40
0.239	5.04	0.239	5.18	0.237	5.01	0.237	5.08	0.283	5.91
0.221	4.67	0.222	4.82	0.220	4.65	0.220	4.77	0.261	5.48
0.203	4.35	0.205	4.51	0.203	4.35	0.203	4.41	0.238	5.03
0.185	3.99	0.187	4.11	0.186	3.99	0.186	4.07	0.215	4.55
0.167	3.66	0.170	3.77	0.168	3.63	0.169	3.76	0.192	4.10
0.149	3.30	0.152	3.40	0.151	3.30	0.152	3.38	0.169	3.63
0.131	2.91	0.135	3.06	0.134	2.99	0.134	3.09	0.146	3.17
0.114	2.53	0.117	2.71	0.117	2.65	0.117	2.74	0.123	2.74
0.096	2.21	0.100	2.39	0.100	2.30	0.100	2.44	0.100	2.30

Table S1 (continued). $P\rho T x_{CO_2}$ experimental data for CO_2+CO mixtures.

T=283.15 K									
x_{CO_2} = 0.9700		x_{CO_2} = 0.9810		x_{CO_2} = 0.9902		x_{CO_2} = 0.9930		x_{CO_2} = 0.9960	
P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})
20.168	952.87	20.000	963.00	20.000	971.49	20.000	974.07	20.000	976.64
20.151	952.82	19.982	962.92	19.981	971.40	19.981	973.98	19.981	976.56
20.134	952.76	19.965	962.84	19.963	971.28	19.963	973.90	19.962	976.48
20.117	952.65	19.947	962.76	19.944	971.16	19.944	973.82	19.943	976.40
20.100	952.59	19.929	962.75	19.926	971.16	19.925	973.74	19.924	976.32
20.083	952.53	19.912	962.68	19.907	971.00	19.907	973.62	19.905	976.24
20.066	952.43	19.894	962.55	19.889	971.00	19.888	973.41	19.886	976.16
20.049	952.35	19.877	962.47	19.870	970.93	19.869	973.33	19.867	976.08
20.032	952.29	19.859	962.40	19.852	970.82	19.851	973.31	19.848	975.99
20.015	952.18	19.841	962.35	19.833	970.76	19.832	973.25	19.829	975.91
19.998	952.10	19.824	962.29	19.815	970.66	19.813	973.17	19.810	975.83
19.981	952.05	19.806	962.20	19.796	970.60	19.795	973.06	19.791	975.74
19.964	951.94	19.788	962.10	19.778	970.49	19.776	973.00	19.772	975.63
19.947	951.86	19.771	962.04	19.759	970.37	19.757	972.86	19.753	975.51
19.930	951.79	19.753	961.95	19.741	970.32	19.739	972.79	19.734	975.46
19.913	951.67	19.736	961.85	19.722	970.27	19.720	972.73	19.715	975.34
19.896	951.60	19.718	961.79	19.704	970.13	19.702	972.65	19.696	975.26
19.879	951.54	19.700	961.73	19.685	970.09	19.683	972.55	19.677	975.18
19.862	951.47	19.683	961.65	19.667	969.96	19.664	972.44	19.658	975.10
19.845	951.36	19.665	961.54	19.648	969.92	19.646	972.36	19.639	975.02
19.828	951.28	19.647	961.48	19.630	969.79	19.627	972.27	19.620	974.92
19.811	951.22	19.630	961.39	19.611	969.74	19.608	972.19	19.601	974.86
19.794	951.10	19.612	961.29	19.593	969.69	19.590	972.11	19.582	974.77
19.777	951.01	19.595	961.23	19.574	969.56	19.571	972.03	19.563	974.69
19.760	950.93	19.577	961.13	19.556	969.50	19.552	971.95	19.544	974.59
19.743	950.84	19.559	961.03	19.537	969.37	19.534	971.95	19.525	974.53
19.726	950.78	19.542	960.97	19.519	969.30	19.515	971.92	19.506	974.42
19.709	950.69	19.524	960.92	19.500	969.21	19.496	971.83	19.486	974.37
19.692	950.58	19.506	960.83	19.482	969.13	19.478	971.77	19.467	974.25
19.675	950.51	19.489	960.72	19.463	969.05	19.459	971.46	19.448	974.20
19.658	950.45	19.471	960.67	19.445	968.97	19.440	971.42	19.429	974.08
19.641	950.35	19.454	960.56	19.426	968.87	19.422	971.38	19.410	974.04
19.624	950.25	19.436	960.46	19.408	968.80	19.403	971.28	19.391	973.91
19.607	950.18	19.418	960.40	19.389	968.70	19.384	971.16	19.372	973.86
19.591	950.12	19.401	960.29	19.371	968.63	19.366	971.05	19.353	973.72
19.574	950.00	19.383	960.21	19.352	968.49	19.347	971.00	19.334	973.67

19.557	949.91	19.365	960.15	19.334	968.43	19.328	970.89	19.315	973.55
19.540	949.84	19.348	960.09	19.315	968.37	19.310	970.83	19.296	973.47
19.523	949.78	19.330	959.98	19.297	968.23	19.291	970.73	19.277	973.40
19.506	949.65	19.313	959.87	19.278	968.17	19.272	970.66	19.258	973.27
19.489	949.57	19.295	959.76	19.260	968.07	19.254	970.57	19.239	973.21
19.472	949.50	19.277	959.69	19.241	967.99	19.235	970.49	19.220	973.13
19.455	949.43	19.260	959.63	19.223	967.91	19.216	970.40	19.201	973.05
19.438	949.37	19.242	959.56	19.204	967.83	19.198	970.31	19.182	972.96
19.421	949.23	19.224	959.43	19.186	967.75	19.179	970.24	19.163	972.82
19.404	949.15	19.207	959.37	19.167	967.62	19.160	970.15	19.144	972.74
19.387	949.08	19.189	959.27	19.149	967.50	19.142	970.03	19.125	972.66
19.370	949.00	19.172	959.17	19.130	967.42	19.123	969.99	19.106	972.58
19.353	948.90	19.154	959.11	19.112	967.35	19.105	969.86	19.087	972.50
19.336	948.81	19.136	959.05	19.093	967.26	19.086	969.82	19.068	972.39
19.319	948.74	19.119	958.95	19.075	967.18	19.067	969.68	19.049	972.27
19.302	948.62	19.101	958.84	19.056	967.09	19.049	969.64	19.030	972.17
19.285	948.51	19.083	958.78	19.038	966.96	19.030	969.51	19.011	972.09
19.268	948.44	19.066	958.67	19.019	966.90	19.011	969.45	18.992	972.01
19.251	948.38	19.048	958.58	19.001	966.82	18.993	969.35	18.973	971.87
19.234	948.30	19.030	958.52	18.982	966.76	18.974	969.27	18.954	971.82
19.217	948.15	19.013	958.46	18.964	966.61	18.955	969.18	18.935	971.69
19.200	948.08	18.995	958.34	18.945	966.53	18.937	969.08	18.916	971.60
19.183	948.00	18.978	958.25	18.927	966.46	18.918	969.02	18.897	971.52
19.166	947.93	18.960	958.17	18.908	966.34	18.899	968.90	18.878	971.44
19.149	947.86	18.942	958.05	18.890	966.25	18.881	968.86	18.859	971.34
19.132	947.75	18.925	957.98	18.871	966.18	18.862	968.73	18.840	971.21
19.115	947.63	18.907	957.92	18.853	966.10	18.843	968.60	18.821	971.11
19.098	947.56	18.889	957.84	18.834	965.95	18.825	968.54	18.802	971.03
19.081	947.49	18.872	957.71	18.816	965.87	18.806	968.42	18.783	970.95
19.064	947.41	18.854	957.65	18.797	965.79	18.787	968.36	18.764	970.87
19.047	947.34	18.837	957.57	18.779	965.70	18.769	968.22	18.745	970.75
19.030	947.19	18.819	957.49	18.760	965.62	18.750	968.16	18.726	970.62
19.013	947.11	18.801	957.40	18.742	965.46	18.731	968.04	18.707	970.54
18.996	947.03	18.784	957.27	18.723	965.38	18.713	967.96	18.688	970.43
18.979	946.96	18.766	957.18	18.705	965.30	18.694	967.89	18.669	970.38
18.962	946.89	18.748	957.10	18.686	965.22	18.675	967.80	18.650	970.28
18.945	946.81	18.731	956.97	18.668	965.11	18.657	967.67	18.631	970.13
18.928	946.70	18.713	956.91	18.649	965.00	18.638	967.61	18.612	970.06
18.911	946.57	18.696	956.84	18.631	964.95	18.619	967.55	18.593	969.97
18.894	946.50	18.678	956.74	18.612	964.86	18.601	967.41	18.574	969.89
18.877	946.42	18.660	956.63	18.594	964.77	18.582	967.35	18.555	969.81
18.860	946.34	18.643	956.56	18.575	964.65	18.564	967.23	18.536	969.72
18.843	946.23	18.625	956.50	18.557	964.57	18.545	967.16	18.517	969.56
18.826	946.13	18.607	956.38	18.538	964.46	18.526	967.07	18.498	969.48
18.809	946.05	18.590	956.29	18.520	964.37	18.508	966.97	18.478	969.40

18.792	945.97	18.572	956.20	18.501	964.27	18.489	966.84	18.459	969.32
18.775	945.90	18.555	956.07	18.483	964.18	18.470	966.77	18.440	969.21
18.758	945.76	18.537	956.01	18.464	964.08	18.452	966.66	18.421	969.12
18.741	945.66	18.519	955.94	18.446	964.00	18.433	966.57	18.402	968.99
18.724	945.58	18.502	955.88	18.427	963.92	18.414	966.50	18.383	968.91
18.707	945.50	18.484	955.80	18.409	963.78	18.396	966.36	18.364	968.83
18.690	945.42	18.466	955.67	18.390	963.69	18.377	966.30	18.345	968.67
18.673	945.31	18.449	955.60	18.372	963.61	18.358	966.23	18.326	968.60
18.656	945.18	18.431	955.46	18.353	963.53	18.340	966.09	18.307	968.50
18.639	945.10	18.414	955.38	18.335	963.43	18.321	966.01	18.288	968.42
18.622	945.02	18.396	955.31	18.316	963.34	18.302	965.93	18.269	968.34
18.605	944.94	18.378	955.22	18.298	963.18	18.284	965.85	18.250	968.26
18.588	944.86	18.361	955.10	18.279	963.10	18.265	965.72	18.231	968.09
18.571	944.78	18.343	955.02	18.261	963.02	18.246	965.66	18.212	968.02
18.554	944.70	18.325	954.95	18.242	962.94	18.228	965.54	18.193	967.92
18.537	944.58	18.308	954.88	18.224	962.86	18.209	965.44	18.174	967.81
18.520	944.45	18.290	954.76	18.205	962.71	18.190	965.36	18.155	967.71
18.503	944.37	18.272	954.66	18.187	962.61	18.172	965.24	18.136	967.61
18.486	944.28	18.255	954.59	18.168	962.53	18.153	965.17	18.117	967.52
18.469	944.20	18.237	954.51	18.150	962.45	18.134	965.03	18.098	967.41
18.452	944.11	18.220	954.36	18.131	962.38	18.116	964.95	18.079	967.35
18.435	944.03	18.202	954.26	18.113	962.26	18.097	964.89	18.060	967.20
18.418	943.89	18.184	954.17	18.094	962.15	18.078	964.79	18.041	967.12
18.401	943.78	18.167	954.09	18.076	962.04	18.060	964.65	18.022	967.04
18.384	943.69	18.149	954.01	18.057	961.96	18.041	964.57	18.003	966.94
18.367	943.61	18.131	953.93	18.039	961.88	18.022	964.48	17.984	966.79
18.350	943.53	18.114	953.84	18.020	961.78	18.004	964.38	17.965	966.71
18.333	943.44	18.096	953.71	18.002	961.67	17.985	964.28	17.946	966.63
18.316	943.35	18.079	953.64	17.983	961.56	17.967	964.21	17.927	966.55
18.299	943.27	18.061	953.57	17.965	961.45	17.948	964.13	17.908	966.46
18.282	943.16	18.043	953.43	17.946	961.33	17.929	963.97	17.889	966.36
18.265	943.04	18.026	953.34	17.928	961.30	17.911	963.90	17.870	966.22
18.248	942.95	18.008	953.26	17.909	961.18	17.892	963.81	17.851	966.14
18.231	942.86	17.990	953.19	17.891	961.06	17.873	963.73	17.832	966.06
18.214	942.77	17.973	953.12	17.872	960.98	17.855	963.59	17.813	965.95
18.197	942.68	17.955	953.03	17.854	960.90	17.836	963.51	17.794	965.81
18.180	942.59	17.938	952.89	17.835	960.78	17.817	963.42	17.775	965.73
18.163	942.50	17.920	952.81	17.817	960.66	17.799	963.32	17.756	965.65
18.146	942.41	17.902	952.74	17.798	960.57	17.780	963.24	17.737	965.50
18.129	942.33	17.885	952.59	17.780	960.49	17.761	963.16	17.718	965.40
18.112	942.24	17.867	952.51	17.761	960.39	17.743	963.00	17.699	965.32
18.095	942.15	17.849	952.44	17.743	960.26	17.724	962.92	17.680	965.24
18.078	941.99	17.832	952.35	17.724	960.16	17.705	962.84	17.661	965.11
18.061	941.88	17.814	952.23	17.706	960.08	17.687	962.76	17.642	965.00
18.044	941.79	17.797	952.12	17.687	960.00	17.668	962.62	17.623	964.92

18.027	941.70	17.779	952.05	17.669	959.89	17.649	962.54	17.604	964.83
18.010	941.60	17.761	951.95	17.650	959.78	17.631	962.45	17.585	964.75
17.993	941.52	17.744	951.85	17.632	959.67	17.612	962.34	17.566	964.63
17.976	941.43	17.726	951.74	17.613	959.59	17.593	962.26	17.547	964.51
17.959	941.33	17.708	951.66	17.595	959.51	17.575	962.18	17.528	964.43
17.942	941.24	17.691	951.57	17.576	959.39	17.556	962.02	17.509	964.35
17.925	941.14	17.673	951.43	17.558	959.27	17.537	961.93	17.490	964.26
17.908	941.06	17.656	951.34	17.539	959.21	17.519	961.84	17.471	964.18
17.891	940.97	17.638	951.26	17.521	959.10	17.500	961.74	17.451	964.05
17.874	940.81	17.620	951.19	17.502	959.02	17.481	961.64	17.432	963.95
17.857	940.75	17.603	951.11	17.484	958.90	17.463	961.56	17.413	963.87
17.840	940.65	17.585	950.95	17.465	958.78	17.444	961.44	17.394	963.77
17.823	940.52	17.567	950.86	17.447	958.72	17.425	961.36	17.375	963.69
17.806	940.40	17.550	950.78	17.428	958.61	17.407	961.21	17.356	963.54
17.789	940.37	17.532	950.70	17.410	958.52	17.388	961.13	17.337	963.46
17.772	940.24	17.515	950.62	17.391	958.39	17.370	961.05	17.318	963.37
17.755	940.15	17.497	950.46	17.373	958.29	17.351	960.96	17.299	963.29
17.738	940.08	17.479	950.37	17.354	958.21	17.332	960.87	17.280	963.19
17.721	939.92	17.462	950.30	17.336	958.09	17.314	960.79	17.261	963.11
17.704	939.82	17.444	950.21	17.317	958.02	17.295	960.63	17.242	963.02
17.687	939.73	17.426	950.13	17.299	957.88	17.276	960.55	17.223	962.88
17.670	939.63	17.409	949.97	17.280	957.80	17.258	960.47	17.204	962.80
17.653	939.53	17.391	949.88	17.262	957.72	17.239	960.39	17.185	962.69
17.636	939.43	17.373	949.80	17.243	957.63	17.220	960.22	17.166	962.58
17.619	939.33	17.356	949.69	17.225	957.49	17.202	960.16	17.147	962.48
17.602	939.26	17.338	949.58	17.206	957.39	17.183	960.06	17.128	962.37
17.585	939.21	17.321	949.50	17.188	957.29	17.164	959.89	17.109	962.27
17.568	939.07	17.303	949.41	17.169	957.15	17.146	959.81	17.090	962.15
17.551	938.94	17.285	949.32	17.151	957.07	17.127	959.73	17.071	962.06
17.534	938.83	17.268	949.24	17.132	956.98	17.108	959.65	17.052	961.98
17.517	938.73	17.250	949.08	17.114	956.90	17.090	959.50	17.033	961.89
17.500	938.62	17.232	948.99	17.095	956.77	17.071	959.41	17.014	961.78
17.483	938.52	17.215	948.91	17.077	956.66	17.052	959.32	16.995	961.67
17.466	938.45	17.197	948.81	17.058	956.57	17.034	959.24	16.976	961.56
17.449	938.39	17.180	948.73	17.040	956.49	17.015	959.10	16.957	961.45
17.432	938.29	17.162	948.63	17.021	956.35	16.996	959.02	16.938	961.33
17.415	938.18	17.144	948.48	17.003	956.25	16.978	958.92	16.919	961.25
17.398	938.07	17.127	948.39	16.984	956.17	16.959	958.81	16.900	961.17
17.381	937.97	17.109	948.30	16.966	956.08	16.940	958.67	16.881	961.07
17.364	937.86	17.091	948.22	16.947	955.99	16.922	958.59	16.862	960.95
17.347	937.75	17.074	948.13	16.929	955.84	16.903	958.50	16.843	960.84
17.330	937.64	17.056	948.01	16.910	955.76	16.884	958.38	16.824	960.76
17.313	937.53	17.039	947.88	16.892	955.66	16.866	958.26	16.805	960.68
17.296	937.47	17.021	947.79	16.873	955.58	16.847	958.18	16.786	960.56
17.279	937.33	17.003	947.70	16.855	955.43	16.829	958.06	16.767	960.39

17.262	937.28	16.986	947.62	16.836	955.33	16.810	957.94	16.748	960.31
17.245	937.14	16.968	947.53	16.818	955.27	16.791	957.85	16.729	960.19
17.228	937.06	16.950	947.45	16.799	955.14	16.773	957.77	16.710	960.11
17.211	936.91	16.933	947.35	16.781	955.02	16.754	957.63	16.691	960.02
17.194	936.88	16.915	947.18	16.762	954.94	16.735	957.53	16.672	959.89
17.177	936.77	16.898	947.09	16.744	954.85	16.717	957.42	16.653	959.78
17.160	936.66	16.880	947.00	16.725	954.70	16.698	957.28	16.634	959.70
17.143	936.55	16.862	946.90	16.707	954.62	16.679	957.20	16.615	959.62
17.126	936.45	16.845	946.77	16.688	954.53	16.661	957.12	16.596	959.53
17.109	936.35	16.827	946.66	16.670	954.37	16.642	957.01	16.577	959.40
17.092	936.25	16.809	946.57	16.651	954.27	16.623	956.88	16.558	959.28
17.075	936.15	16.792	946.48	16.633	954.21	16.605	956.80	16.539	959.16
17.058	936.04	16.774	946.39	16.614	954.07	16.586	956.71	16.520	959.10
17.041	935.93	16.757	946.29	16.596	953.97	16.567	956.57	16.501	958.97
17.024	935.82	16.739	946.20	16.577	953.88	16.549	956.47	16.482	958.88
17.007	935.72	16.721	946.11	16.559	953.78	16.530	956.38	16.463	958.76
16.990	935.61	16.704	945.99	16.540	953.69	16.511	956.29	16.443	958.64
16.973	935.51	16.686	945.84	16.522	953.55	16.493	956.17	16.424	958.56
16.956	935.47	16.668	945.75	16.503	953.46	16.474	956.06	16.405	958.41
16.939	935.36	16.651	945.66	16.485	953.39	16.455	955.98	16.386	958.37
16.922	935.26	16.633	945.57	16.466	953.30	16.437	955.82	16.367	958.23
16.905	935.16	16.615	945.48	16.448	953.15	16.418	955.74	16.348	958.15
16.888	935.04	16.598	945.38	16.429	953.07	16.399	955.65	16.329	958.01
16.871	934.93	16.580	945.28	16.411	952.97	16.381	955.56	16.310	957.90
16.854	934.82	16.563	945.19	16.392	952.86	16.362	955.41	16.291	957.79
16.837	934.71	16.545	945.04	16.374	952.74	16.343	955.35	16.272	957.73
16.820	934.60	16.527	944.92	16.355	952.62	16.325	955.17	16.253	957.58
16.803	934.49	16.510	944.81	16.337	952.49	16.306	955.08	16.234	957.50
16.786	934.45	16.492	944.72	16.318	952.41	16.287	955.00	16.215	957.35
16.769	934.29	16.474	944.62	16.300	952.33	16.269	954.86	16.196	957.28
16.752	934.23	16.457	944.53	16.281	952.19	16.250	954.76	16.177	957.17
16.735	934.12	16.439	944.43	16.263	952.09	16.232	954.67	16.158	957.07
16.718	934.00	16.422	944.34	16.244	952.00	16.213	954.59	16.139	956.93
16.702	933.88	16.404	944.24	16.226	951.92	16.194	954.44	16.120	956.84
16.685	933.77	16.386	944.07	16.207	951.80	16.176	954.35	16.101	956.75
16.668	933.66	16.369	943.98	16.189	951.68	16.157	954.27	16.082	956.60
16.651	933.63	16.351	943.87	16.170	951.60	16.138	954.17	16.063	956.52
16.634	933.52	16.333	943.77	16.152	951.43	16.120	954.02	16.044	956.44
16.617	933.41	16.316	943.68	16.133	951.35	16.101	953.94	16.025	956.31
16.600	933.28	16.298	943.58	16.115	951.27	16.082	953.83	16.006	956.19
16.583	933.16	16.281	943.48	16.096	951.17	16.064	953.70	15.987	956.09
16.566	933.06	16.263	943.38	16.078	951.03	16.045	953.61	15.968	956.03
16.549	932.99	16.245	943.28	16.059	950.94	16.026	953.49	15.949	955.87
16.532	932.87	16.228	943.18	16.041	950.83	16.008	953.37	15.930	955.78
16.515	932.75	16.210	943.08	16.022	950.70	15.989	953.29	15.911	955.62

16.498	932.62	16.192	942.98	16.004	950.62	15.970	953.21	15.892	955.54
16.481	932.58	16.175	942.87	15.985	950.53	15.952	953.04	15.873	955.44
16.464	932.46	16.157	942.77	15.967	950.41	15.933	952.96	15.854	955.35
16.447	932.35	16.140	942.59	15.948	950.29	15.914	952.88	15.835	955.21
16.430	932.22	16.122	942.50	15.930	950.21	15.896	952.79	15.816	955.13
16.413	932.10	16.104	942.38	15.911	950.12	15.877	952.64	15.797	955.04
16.396	932.06	16.087	942.28	15.893	949.97	15.858	952.55	15.778	954.89
16.379	931.95	16.069	942.17	15.874	949.88	15.840	952.47	15.759	954.79
16.362	931.83	16.051	942.07	15.856	949.79	15.821	952.31	15.740	954.70
16.345	931.71	16.034	941.96	15.837	949.64	15.802	952.23	15.721	954.56
16.328	931.58	16.016	941.85	15.819	949.56	15.784	952.15	15.702	954.48
16.311	931.45	15.999	941.75	15.800	949.45	15.765	952.04	15.683	954.40
16.294	931.41	15.981	941.65	15.782	949.32	15.746	951.90	15.664	954.23
16.277	931.27	15.963	941.55	15.763	949.23	15.728	951.82	15.645	954.15
16.260	931.19	15.946	941.44	15.745	949.14	15.709	951.71	15.626	954.03
16.243	931.09	15.928	941.33	15.726	949.00	15.691	951.58	15.607	953.91
16.226	930.95	15.910	941.23	15.708	948.90	15.672	951.49	15.588	953.83
16.209	930.86	15.893	941.12	15.689	948.82	15.653	951.34	15.569	953.70
16.192	930.76	15.875	941.02	15.671	948.68	15.635	951.25	15.550	953.58
16.175	930.63	15.858	940.90	15.652	948.58	15.616	951.17	15.531	953.50
16.158	930.58	15.840	940.79	15.634	948.46	15.597	951.01	15.512	953.41
16.141	930.45	15.822	940.68	15.615	948.35	15.579	950.92	15.493	953.26
16.124	930.31	15.805	940.58	15.597	948.25	15.560	950.84	15.474	953.17
16.107	930.26	15.787	940.47	15.578	948.17	15.541	950.68	15.455	953.01
16.090	930.13	15.769	940.35	15.560	948.00	15.523	950.60	15.435	952.95
16.073	930.00	15.752	940.25	15.541	947.92	15.504	950.51	15.416	952.80
16.056	929.88	15.734	940.14	15.523	947.77	15.485	950.35	15.397	952.69
16.039	929.81	15.716	940.02	15.504	947.71	15.467	950.27	15.378	952.60
16.022	929.68	15.699	939.92	15.486	947.60	15.448	950.19	15.359	952.47
16.005	929.56	15.681	939.86	15.467	947.50	15.429	950.11	15.340	952.36
15.988	929.49	15.664	939.75	15.449	947.35	15.411	949.94	15.321	952.28
15.971	929.36	15.646	939.65	15.430	947.27	15.392	949.82	15.302	952.19
15.954	929.30	15.628	939.54	15.412	947.15	15.373	949.70	15.283	952.03
15.937	929.16	15.611	939.42	15.393	947.02	15.355	949.62	15.264	951.95
15.920	929.07	15.593	939.31	15.374	946.93	15.336	949.54	15.245	951.83
15.903	928.98	15.575	939.20	15.356	946.78	15.317	949.37	15.226	951.73
15.886	928.85	15.558	939.08	15.337	946.70	15.299	949.29	15.207	951.62
15.869	928.72	15.540	938.96	15.319	946.59	15.280	949.21	15.188	951.51
15.852	928.66	15.523	938.84	15.300	946.45	15.261	949.04	15.169	951.38
15.835	928.54	15.505	938.72	15.282	946.37	15.243	948.96	15.150	951.30
15.818	928.41	15.487	938.60	15.263	946.26	15.224	948.80	15.131	951.20
15.801	928.28	15.470	938.47	15.245	946.13	15.205	948.72	15.112	951.05
15.784	928.23	15.452	938.44	15.226	946.04	15.187	948.64	15.093	950.93
15.767	928.09	15.434	938.32	15.208	945.89	15.168	948.55	15.074	950.81
15.750	928.01	15.417	938.20	15.189	945.80	15.149	948.39	15.055	950.69

15.733	927.88	15.399	938.08	15.171	945.72	15.131	948.31	15.036	950.56
15.716	927.73	15.382	937.96	15.152	945.55	15.112	948.17	15.017	950.48
15.699	927.68	15.364	937.85	15.134	945.47	15.094	948.07	14.998	950.34
15.682	927.54	15.346	937.73	15.115	945.36	15.075	947.97	14.979	950.24
15.665	927.43	15.329	937.61	15.097	945.23	15.056	947.82	14.960	950.15
15.648	927.33	15.311	937.56	15.078	945.15	15.038	947.74	14.941	950.02
15.631	927.27	15.293	937.44	15.060	945.03	15.019	947.66	14.922	949.91
15.614	927.13	15.276	937.33	15.041	944.90	15.000	947.49	14.903	949.82
15.597	927.03	15.258	937.21	15.023	944.82	14.982	947.41	14.884	949.66
15.580	926.92	15.241	937.08	15.004	944.66	14.963	947.33	14.865	949.58
15.563	926.78	15.223	936.96	14.986	944.57	14.944	947.17	14.846	949.48
15.546	926.64	15.205	936.83	14.967	944.49	14.926	947.09	14.827	949.34
15.529	926.57	15.188	936.74	14.949	944.39	14.907	946.92	14.808	949.25
15.512	926.43	15.170	936.66	14.930	944.25	14.888	946.84	14.789	949.09
15.495	926.36	15.152	936.52	14.912	944.09	14.870	946.72	14.770	949.01
15.478	926.21	15.135	936.39	14.893	944.00	14.851	946.60	14.751	948.91
15.461	926.13	15.117	936.26	14.875	943.92	14.832	946.52	14.732	948.77
15.444	926.05	15.100	936.22	14.856	943.79	14.814	946.42	14.713	948.66
15.427	925.90	15.082	936.08	14.838	943.68	14.795	946.27	14.694	948.52
15.410	925.80	15.064	935.95	14.819	943.52	14.776	946.19	14.675	948.40
15.393	925.66	15.047	935.84	14.801	943.44	14.758	946.03	14.656	948.30
15.376	925.59	15.029	935.76	14.782	943.35	14.739	945.94	14.637	948.19
15.359	925.44	15.011	935.62	14.764	943.26	14.720	945.86	14.618	948.03
15.342	925.35	14.994	935.49	14.745	943.10	14.702	945.70	14.599	947.95
15.325	925.23	14.976	935.37	14.727	943.02	14.683	945.62	14.580	947.86
15.308	925.15	14.958	935.27	14.708	942.86	14.664	945.51	14.561	947.74
15.291	925.06	14.941	935.18	14.690	942.78	14.646	945.37	14.542	947.62
15.274	924.91	14.923	935.04	14.671	942.70	14.627	945.29	14.523	947.50
15.257	924.82	14.906	934.98	14.653	942.53	14.608	945.13	14.504	947.38
15.240	924.69	14.888	934.85	14.634	942.45	14.590	945.05	14.485	947.25
15.223	924.58	14.870	934.70	14.616	942.34	14.571	944.96	14.466	947.14
15.206	924.47	14.853	934.61	14.597	942.21	14.553	944.80	14.447	947.05
15.189	924.33	14.835	934.50	14.579	942.10	14.534	944.72	14.427	946.89
15.172	924.25	14.817	934.37	14.560	941.96	14.515	944.63	14.408	946.81
15.155	924.17	14.800	934.29	14.542	941.88	14.497	944.47	14.389	946.67
15.138	924.01	14.782	934.18	14.523	941.73	14.478	944.36	14.370	946.58
15.121	923.94	14.765	934.04	14.505	941.61	14.459	944.23	14.351	946.48
15.104	923.80	14.747	933.91	14.486	941.54	14.441	944.15	14.332	946.32
15.087	923.68	14.729	933.85	14.468	941.39	14.422	944.06	14.313	946.22
15.070	923.59	14.712	933.71	14.449	941.31	14.403	943.90	14.294	946.10
15.053	923.44	14.694	933.58	14.431	941.14	14.385	943.82	14.275	945.99
15.036	923.37	14.676	933.45	14.412	941.06	14.366	943.68	14.256	945.87
15.019	923.27	14.659	933.33	14.394	940.94	14.347	943.58	14.237	945.75
15.002	923.13	14.641	933.27	14.375	940.82	14.329	943.41	14.218	945.60
14.985	923.03	14.624	933.12	14.357	940.68	14.310	943.33	14.199	945.50

14.968	922.88	14.606	933.06	14.338	940.57	14.291	943.25	14.180	945.42
14.951	922.79	14.588	932.92	14.320	940.49	14.273	943.09	14.161	945.26
14.934	922.70	14.571	932.77	14.301	940.33	14.254	943.01	14.142	945.17
14.917	922.55	14.553	932.70	14.283	940.25	14.235	942.84	14.123	945.04
14.900	922.45	14.535	932.55	14.264	940.09	14.217	942.76	14.104	944.93
14.883	922.37	14.518	932.49	14.246	940.00	14.198	942.62	14.085	944.81
14.866	922.21	14.500	932.34	14.227	939.89	14.179	942.51	14.066	944.68
14.849	922.12	14.483	932.24	14.209	939.76	14.161	942.41	14.047	944.60
14.832	921.96	14.465	932.10	14.190	939.67	14.142	942.27	14.028	944.44
14.815	921.88	14.447	931.98	14.172	939.51	14.123	942.19	14.009	944.36
14.798	921.75	14.430	931.90	14.153	939.43	14.105	942.02	13.990	944.26
14.781	921.65	14.412	931.73	14.135	939.33	14.086	941.94	13.971	944.11
14.764	921.47	14.394	931.59	14.116	939.18	14.067	941.78	13.952	943.95
14.747	921.39	14.377	931.51	14.098	939.10	14.049	941.70	13.933	943.87
14.730	921.31	14.359	931.43	14.079	938.94	14.030	941.53	13.914	943.70
14.713	921.18	14.342	931.27	14.061	938.86	14.011	941.45	13.895	943.62
14.696	921.08	14.324	931.12	14.042	938.74	13.993	941.29	13.876	943.46
14.679	920.97	14.306	931.05	14.024	938.61	13.974	941.21	13.857	943.38
14.662	920.82	14.289	930.94	14.005	938.46	13.956	941.04	13.838	943.22
14.645	920.74	14.271	930.80	13.987	938.37	13.937	940.96	13.819	943.13
14.628	920.64	14.253	930.72	13.968	938.24	13.918	940.80	13.800	942.98
14.611	920.49	14.236	930.57	13.950	938.12	13.900	940.72	13.781	942.89
14.594	920.36	14.218	930.49	13.931	938.04	13.881	940.55	13.762	942.79
14.577	920.26	14.201	930.32	13.913	937.88	13.862	940.47	13.743	942.64
14.560	920.14	14.183	930.24	13.894	937.80	13.844	940.35	13.724	942.51
14.543	920.03	14.165	930.10	13.876	937.63	13.825	940.23	13.705	942.40
14.526	919.91	14.148	929.95	13.857	937.55	13.806	940.13	13.686	942.32
14.509	919.79	14.130	929.86	13.839	937.42	13.788	939.98	13.667	942.15
14.492	919.67	14.112	929.78	13.820	937.30	13.769	939.90	13.648	942.07
14.475	919.56	14.095	929.63	13.802	937.19	13.750	939.74	13.629	941.91
14.458	919.43	14.077	929.53	13.783	937.06	13.732	939.66	13.610	941.80
14.441	919.32	14.059	929.38	13.765	936.93	13.713	939.54	13.591	941.66
14.424	919.20	14.042	929.27	13.746	936.81	13.694	939.41	13.572	941.58
14.407	919.11	14.024	929.18	13.728	936.67	13.676	939.27	13.553	941.42
14.390	918.94	14.007	929.06	13.709	936.57	13.657	939.17	13.534	941.34
14.373	918.79	13.989	928.93	13.691	936.53	13.638	939.09	13.515	941.17
14.356	918.70	13.971	928.81	13.672	936.41	13.620	938.92	13.496	941.08
14.339	918.62	13.954	928.67	13.654	936.33	13.601	938.84	13.477	940.97
14.322	918.45	13.936	928.58	13.635	936.23	13.582	938.68	13.458	940.85
14.305	918.37	13.918	928.41	13.617	936.10	13.564	938.60	13.439	940.68
14.288	918.21	13.901	928.32	13.598	935.97	13.545	938.44	13.420	940.60
14.271	918.13	13.883	928.23	13.580	935.83	13.526	938.35	13.400	940.46
14.254	917.98	13.866	928.06	13.561	935.79	13.508	938.23	13.381	940.36
14.237	917.87	13.848	927.98	13.543	935.65	13.489	938.10	13.362	940.22
14.220	917.72	13.830	927.83	13.524	935.52	13.470	937.97	13.343	940.11

14.203	917.63	13.813	927.71	13.506	935.43	13.452	937.86	13.324	939.95
14.186	917.54	13.795	927.61	13.487	935.34	13.433	937.71	13.305	939.87
14.169	917.39	13.777	927.43	13.469	935.21	13.414	937.61	13.286	939.70
14.152	917.27	13.760	927.34	13.450	935.07	13.396	937.45	13.267	939.62
14.135	917.13	13.742	927.23	13.432	934.93	13.377	937.37	13.248	939.46
14.118	916.99	13.725	927.14	13.413	934.86	13.359	937.21	13.229	939.38
14.101	916.90	13.707	927.01	13.395	934.73	13.340	937.12	13.210	939.21
14.084	916.80	13.689	926.86	13.376	934.61	13.321	936.99	13.191	939.13
14.067	916.67	13.672	926.76	13.358	934.52	13.303	936.88	13.172	938.97
14.050	916.53	13.654	926.66	13.339	934.37	13.284	936.80	13.153	938.85
14.033	916.41	13.636	926.49	13.321	934.23	13.265	936.63	13.134	938.72
14.016	916.26	13.619	926.39	13.302	934.16	13.247	936.50	13.115	938.60
13.999	916.16	13.601	926.28	13.284	934.02	13.228	936.39	13.096	938.48
13.982	916.03	13.584	926.11	13.265	933.87	13.209	936.23	13.077	938.32
13.965	915.92	13.566	926.03	13.247	933.81	13.191	936.14	13.058	938.23
13.948	915.81	13.548	925.87	13.228	933.66	13.172	935.98	13.039	938.09
13.931	915.68	13.531	925.77	13.210	933.52	13.153	935.90	13.020	937.99
13.914	915.55	13.513	925.65	13.191	933.45	13.135	935.74	13.001	937.83
13.897	915.43	13.495	925.54	13.173	933.29	13.116	935.65	12.982	937.74
13.880	915.35	13.478	925.43	13.154	933.14	13.097	935.49	12.963	937.59
13.863	915.20	13.460	925.30	13.136	933.06	13.079	935.41	12.944	937.50
13.846	915.07	13.443	925.12	13.117	932.91	13.060	935.25	12.925	937.33
13.829	914.94	13.425	925.02	13.099	932.83	13.041	935.16	12.906	937.25
13.813	914.77	13.407	924.90	13.080	932.68	13.023	935.02	12.887	937.09
13.796	914.69	13.390	924.78	13.062	932.57	13.004	934.92	12.868	936.98
13.779	914.61	13.372	924.66	13.043	932.44	12.985	934.75	12.849	936.84
13.762	914.45	13.354	924.54	13.025	932.36	12.967	934.67	12.830	936.74
13.745	914.33	13.337	924.43	13.006	932.19	12.948	934.51	12.811	936.60
13.728	914.19	13.319	924.30	12.988	932.08	12.929	934.40	12.792	936.43
13.711	914.04	13.301	924.18	12.969	931.95	12.911	934.26	12.773	936.35
13.694	913.94	13.284	924.06	12.951	931.83	12.892	934.13	12.754	936.19
13.677	913.79	13.266	923.94	12.932	931.70	12.873	934.02	12.735	936.05
13.660	913.71	13.249	923.76	12.914	931.61	12.855	933.86	12.716	935.94
13.643	913.57	13.231	923.66	12.895	931.44	12.836	933.77	12.697	935.78
13.626	913.47	13.213	923.53	12.877	931.34	12.818	933.65	12.678	935.70
13.609	913.32	13.196	923.41	12.858	931.19	12.799	933.53	12.659	935.53
13.592	913.22	13.178	923.28	12.840	931.02	12.780	933.37	12.640	935.45
13.575	913.06	13.160	923.17	12.821	930.93	12.762	933.28	12.621	935.29
13.558	912.96	13.143	923.04	12.803	930.83	12.743	933.12	12.602	935.17
13.541	912.81	13.125	922.92	12.784	930.69	12.724	933.02	12.583	935.04
13.524	912.69	13.108	922.78	12.766	930.55	12.706	932.88	12.564	934.88
13.507	912.57	13.090	922.68	12.747	930.45	12.687	932.76	12.545	934.80
13.490	912.43	13.072	922.51	12.729	930.28	12.668	932.63	12.526	934.63
13.473	912.32	13.055	922.36	12.710	930.18	12.650	932.51	12.507	934.52
13.456	912.16	13.037	922.27	12.692	930.07	12.631	932.39	12.488	934.39

13.439	912.02	13.019	922.12	12.673	929.95	12.612	932.22	12.469	934.23
13.422	911.91	13.002	922.02	12.655	929.80	12.594	932.14	12.450	934.12
13.405	911.83	12.984	921.87	12.636	929.71	12.575	931.98	12.431	933.98
13.388	911.67	12.967	921.78	12.618	929.54	12.556	931.90	12.412	933.82
13.371	911.52	12.949	921.63	12.599	929.44	12.538	931.73	12.392	933.74
13.354	911.39	12.931	921.53	12.581	929.27	12.519	931.64	12.373	933.57
13.337	911.29	12.914	921.37	12.562	929.17	12.500	931.49	12.354	933.49
13.320	911.18	12.896	921.29	12.544	929.05	12.482	931.40	12.335	933.33
13.303	911.04	12.878	921.14	12.525	928.89	12.463	931.24	12.316	933.21
13.286	910.93	12.861	921.01	12.507	928.72	12.444	931.08	12.297	933.08
13.269	910.84	12.843	920.86	12.488	928.64	12.426	930.99	12.278	932.92
13.252	910.65	12.826	920.71	12.470	928.49	12.407	930.83	12.259	932.82
13.235	910.57	12.808	920.63	12.451	928.39	12.388	930.69	12.240	932.67
13.218	910.44	12.790	920.47	12.433	928.23	12.370	930.59	12.221	932.57
13.201	910.30	12.773	920.39	12.414	928.09	12.351	930.42	12.202	932.43
13.184	910.20	12.755	920.22	12.396	927.98	12.332	930.34	12.183	932.29
13.167	910.03	12.737	920.14	12.377	927.86	12.314	930.18	12.164	932.18
13.150	909.95	12.720	919.99	12.359	927.71	12.295	930.10	12.145	932.02
13.133	909.79	12.702	919.84	12.340	927.58	12.276	929.93	12.126	931.94
13.116	909.68	12.685	919.73	12.322	927.42	12.258	929.85	12.107	931.74
13.099	909.54	12.667	919.59	12.303	927.29	12.239	929.69	12.088	931.62
13.082	909.39	12.649	919.47	12.285	927.17	12.221	929.53	12.069	931.52
13.065	909.28	12.632	919.32	12.266	927.05	12.202	929.44	12.050	931.37
13.048	909.15	12.614	919.16	12.248	926.92	12.183	929.28	12.031	931.25
13.031	908.98	12.596	919.08	12.229	926.76	12.165	929.12	12.012	931.12
13.014	908.89	12.579	918.92	12.211	926.66	12.146	929.04	11.993	930.96
12.997	908.73	12.561	918.83	12.192	926.52	12.127	928.87	11.974	930.88
12.980	908.64	12.544	918.68	12.174	926.35	12.109	928.71	11.955	930.71
12.963	908.48	12.526	918.53	12.155	926.23	12.090	928.61	11.936	930.60
12.946	908.38	12.508	918.44	12.137	926.06	12.071	928.46	11.917	930.47
12.929	908.24	12.491	918.27	12.118	925.94	12.053	928.38	11.898	930.30
12.912	908.12	12.473	918.18	12.100	925.82	12.034	928.22	11.879	930.21
12.895	907.99	12.455	918.04	12.081	925.70	12.015	928.05	11.860	930.06
12.878	907.86	12.438	917.86	12.063	925.57	11.997	927.97	11.841	929.90
12.861	907.73	12.420	917.78	12.044	925.44	11.978	927.81	11.822	929.77
12.844	907.59	12.402	917.62	12.026	925.26	11.959	927.71	11.803	929.65
12.827	907.43	12.385	917.51	12.007	925.12	11.941	927.56	11.784	929.49
12.810	907.35	12.367	917.36	11.989	925.04	11.922	927.40	11.765	929.41
12.793	907.17	12.350	917.21	11.970	924.88	11.903	927.32	11.746	929.24
12.776	907.09	12.332	917.12	11.952	924.72	11.885	927.15	11.727	929.08
12.759	906.93	12.314	916.95	11.933	924.63	11.866	926.99	11.708	928.99
12.742	906.83	12.297	916.84	11.915	924.47	11.847	926.91	11.689	928.83
12.725	906.68	12.279	916.71	11.896	924.31	11.829	926.75	11.670	928.67
12.708	906.52	12.261	916.58	11.878	924.15	11.810	926.58	11.651	928.53
12.691	906.44	12.244	916.46	11.859	924.06	11.791	926.50	11.632	928.42

12.674	906.27	12.226	916.33	11.841	923.96	11.773	926.34	11.613	928.26
12.657	906.14	12.209	916.16	11.822	923.82	11.754	926.21	11.594	928.10
12.640	906.00	12.191	916.05	11.804	923.65	11.735	926.09	11.575	928.02
12.623	905.88	12.173	915.92	11.785	923.53	11.717	925.93	11.556	927.85
12.606	905.78	12.156	915.74	11.767	923.38	11.698	925.83	11.537	927.71
12.589	905.62	12.138	915.64	11.748	923.21	11.680	925.68	11.518	927.60
12.572	905.52	12.120	915.48	11.730	923.08	11.661	925.52	11.499	927.44
12.555	905.36	12.103	915.38	11.711	922.99	11.642	925.44	11.480	927.28
12.538	905.21	12.085	915.23	11.693	922.83	11.624	925.27	11.461	927.15
12.521	905.04	12.068	915.12	11.674	922.67	11.605	925.19	11.442	927.03
12.504	904.97	12.050	914.95	11.656	922.51	11.586	925.03	11.423	926.87
12.487	904.82	12.032	914.84	11.637	922.35	11.568	924.87	11.404	926.71
12.470	904.72	12.015	914.66	11.619	922.23	11.549	924.72	11.384	926.60
12.453	904.56	11.997	914.58	11.600	922.14	11.530	924.62	11.365	926.47
12.436	904.39	11.979	914.42	11.582	921.98	11.512	924.46	11.346	926.30
12.419	904.31	11.962	914.25	11.563	921.82	11.493	924.32	11.327	926.22
12.402	904.15	11.944	914.15	11.545	921.69	11.474	924.21	11.308	926.05
12.385	904.03	11.927	914.01	11.526	921.56	11.456	924.05	11.289	925.89
12.368	903.90	11.909	913.86	11.508	921.44	11.437	923.88	11.270	925.77
12.351	903.75	11.891	913.74	11.489	921.28	11.418	923.72	11.251	925.64
12.334	903.66	11.874	913.61	11.471	921.12	11.400	923.64	11.232	925.48
12.317	903.49	11.856	913.43	11.452	920.95	11.381	923.48	11.213	925.36
12.300	903.40	11.838	913.35	11.434	920.82	11.362	923.31	11.194	925.18
12.283	903.21	11.821	913.20	11.415	920.68	11.344	923.23	11.175	925.07
12.266	903.09	11.803	913.09	11.397	920.54	11.325	923.07	11.156	924.91
12.249	902.99	11.786	912.89	11.378	920.38	11.306	922.90	11.137	924.74
12.232	902.83	11.768	912.78	11.360	920.25	11.288	922.74	11.118	924.66
12.215	902.68	11.750	912.61	11.341	920.13	11.269	922.66	11.099	924.50
12.198	902.53	11.733	912.49	11.323	919.97	11.250	922.49	11.080	924.33
12.181	902.43	11.715	912.37	11.304	919.81	11.232	922.33	11.061	924.17
12.164	902.27	11.697	912.21	11.286	919.68	11.213	922.24	11.042	924.08
12.147	902.12	11.680	912.12	11.267	919.57	11.194	922.09	11.023	923.93
12.130	902.02	11.662	911.96	11.249	919.41	11.176	921.92	11.004	923.76
12.113	901.86	11.644	911.82	11.230	919.25	11.157	921.80	10.985	923.68
12.096	901.36	11.627	911.68	11.212	919.15	11.138	921.63	10.966	923.52
12.079	901.20	11.609	911.51	11.193	918.99	11.120	921.51	10.947	923.35
12.062	901.13	11.592	911.39	11.175	918.83	11.101	921.35	10.928	923.19
12.045	901.01	11.574	911.22	11.156	918.73	11.083	921.20	10.909	923.10
12.028	900.87	11.556	911.13	11.138	918.58	11.064	921.10	10.890	922.94
12.011	900.78	11.539	910.97	11.119	918.42	11.045	920.94	10.871	922.78
11.994	900.61	11.521	910.81	11.101	918.25	11.027	920.78	10.852	922.62
11.977	900.46	11.503	910.70	11.082	918.09	11.008	920.69	10.833	922.45
11.960	900.38	11.486	910.55	11.064	917.96	10.989	920.53	10.814	922.29
11.943	900.22	11.468	910.41	11.045	917.84	10.971	920.37	10.795	922.21
11.926	900.14	11.451	910.24	11.027	917.68	10.952	920.23	10.776	922.04

11.909	899.97	11.433	910.13	11.008	917.53	10.933	920.12	10.757	921.88
11.892	899.81	11.415	909.99	10.990	917.41	10.915	919.96	10.738	921.72
11.875	899.71	11.398	909.83	10.971	917.27	10.896	919.79	10.719	921.64
11.858	899.56	11.380	909.67	10.953	917.11	10.877	919.63	10.700	921.47
11.841	899.41	11.362	909.58	10.934	916.94	10.859	919.54	10.681	921.31
11.824	899.24	11.345	909.42	10.916	916.82	10.840	919.39	10.662	921.16
11.807	899.10	11.327	909.26	10.897	916.69	10.821	919.22	10.643	920.98
11.790	898.99	11.310	909.10	10.879	916.53	10.803	919.06	10.624	920.90
11.773	898.83	11.292	908.97	10.860	916.37	10.784	918.89	10.605	920.73
11.756	898.67	11.274	908.85	10.842	916.21	10.765	918.75	10.586	920.57
11.739	898.58	11.257	908.69	10.823	916.04	10.747	918.65	10.567	920.41
11.722	898.40	11.239	908.52	10.805	915.92	10.728	918.49	10.548	920.24
11.705	898.25	11.221	908.44	10.786	915.80	10.709	918.32	10.529	920.08
11.688	898.09	11.204	908.28	10.768	915.61	10.691	918.16	10.510	919.95
11.671	897.93	11.186	908.11	10.749	915.47	10.672	918.08	10.491	919.84
11.654	897.84	11.169	907.99	10.730	915.30	10.653	917.91	10.472	919.67
11.637	897.68	11.151	907.83	10.712	915.19	10.635	917.75	10.453	919.51
11.620	897.53	11.133	907.65	10.693	915.03	10.616	917.59	10.434	919.39
11.603	897.39	11.116	907.54	10.675	914.90	10.597	917.42	10.415	919.24
11.586	897.24	11.098	907.38	10.656	914.72	10.579	917.34	10.396	919.10
11.569	897.07	11.080	907.24	10.638	914.57	10.560	917.18	10.377	918.94
11.552	896.95	11.063	907.12	10.619	914.41	10.541	917.01	10.357	918.77
11.535	896.78	11.045	906.97	10.601	914.27	10.523	916.85	10.338	918.61
11.518	896.66	11.028	906.80	10.582	914.12	10.504	916.77	10.319	918.44
11.501	896.45	11.010	906.66	10.564	913.95	10.486	916.60	10.300	918.28
11.484	896.36	10.992	906.56	10.545	913.83	10.467	916.44	10.281	918.19
11.467	896.18	10.975	906.39	10.527	913.69	10.448	916.28	10.262	918.04
11.450	896.05	10.957	906.24	10.508	913.50	10.430	916.20	10.243	917.87
11.433	895.88	10.939	906.08	10.490	913.34	10.411	916.03	10.224	917.71
11.416	895.72	10.922	905.99	10.471	913.24	10.392	915.87	10.205	917.54
11.399	895.55	10.904	905.82	10.453	913.06	10.374	915.70	10.186	917.38
11.382	895.44	10.887	905.66	10.434	912.93	10.355	915.54	10.167	917.22
11.365	895.23	10.869	905.50	10.416	912.77	10.336	915.40	10.148	917.08
11.348	895.14	10.851	905.36	10.397	912.60	10.318	915.30	10.129	916.91
11.331	894.98	10.834	905.22	10.379	912.44	10.299	915.10	10.110	916.81
11.314	894.83	10.816	905.06	10.360	912.28	10.280	914.97	10.091	916.64
11.297	894.65	10.798	904.92	10.342	912.18	10.262	914.80	10.072	916.48
11.280	894.50	10.781	904.78	10.323	912.01	10.243	914.64	10.053	916.32
11.263	894.41	10.763	904.68	10.305	911.87	10.224	914.48	10.034	916.15
11.246	894.23	10.745	904.51	10.286	911.68	10.206	914.31	10.015	915.99
11.229	894.08	10.728	904.35	10.268	911.54	10.187	914.15	9.996	915.83
11.212	893.92	10.710	904.22	10.249	911.38	10.168	913.98	9.977	915.66
11.195	893.75	10.693	904.02	10.231	911.21	10.150	913.82	9.958	915.50
11.178	893.59	10.675	903.89	10.212	911.05	10.131	913.73	9.939	915.40
11.161	893.47	10.657	903.77	10.194	910.91	10.112	913.58	9.920	915.24

11.144	893.29	10.640	903.61	10.175	910.75	10.094	913.41	9.901	915.09
11.127	893.18	10.622	903.46	10.157	910.60	10.075	913.25	9.882	914.93
11.110	893.02	10.604	903.28	10.138	910.44	10.056	913.09	9.863	914.76
11.093	892.85	10.587	903.18	10.120	910.30	10.038	912.92	9.844	914.60
11.076	892.72	10.569	903.04	10.101	910.15	10.019	912.76	9.825	914.43
11.059	892.53	10.552	902.87	10.083	909.98	10.000	912.64	9.806	914.27
11.042	892.36	10.534	902.71	10.064	909.82	9.982	912.51	9.787	914.11
11.025	892.22	10.516	902.63	10.046	909.66	9.963	912.35	9.768	913.94
11.008	892.10	10.499	902.46	10.027	909.49	9.945	912.19	9.749	913.83
10.991	891.87	10.481	902.35	10.009	909.32	9.926	912.02	9.730	913.63
10.974	891.79	10.463	902.19	9.990	909.16	9.907	911.86	9.711	913.53
10.957	891.62	10.446	902.02	9.972	909.00	9.889	911.69	9.692	913.37
10.940	891.46	10.428	901.89	9.953	908.84	9.870	911.53	9.673	913.21
10.924	891.30	10.411	901.75	9.935	908.67	9.851	911.37	9.654	913.04
10.907	891.13	10.393	901.59	9.916	908.53	9.833	911.20	9.635	912.88
10.890	890.97	10.375	901.48	9.898	908.34	9.814	911.12	9.616	912.72
10.873	890.81	10.358	901.33	9.879	908.26	9.795	910.96	9.597	912.55
10.856	890.64	10.340	901.16	9.861	908.10	9.777	910.79	9.578	912.39
10.839	890.48	10.322	901.00	9.842	907.94	9.758	910.63	9.559	912.22
10.822	890.32	10.305	900.91	9.824	907.77	9.739	910.47	9.540	912.06
10.805	890.16	10.287	900.74	9.805	907.61	9.721	910.30	9.521	911.90
10.788	890.03	10.270	900.58	9.787	907.43	9.702	910.14	9.502	911.73
10.771	889.91	10.252	900.45	9.768	907.28	9.683	909.98	9.483	911.57
10.754	889.72	10.234	900.27	9.750	907.12	9.665	909.81	9.464	911.41
10.737	889.57	10.217	900.18	9.731	906.95	9.646	909.65	9.445	911.24
10.720	889.39	10.199	900.00	9.713	906.79	9.627	909.48	9.426	911.08
10.703	889.25	10.181	899.83	9.694	906.63	9.609	909.37	9.407	910.91
10.686	889.09	10.164	899.72	9.676	906.46	9.590	909.24	9.388	910.75
10.669	888.92	10.146	899.54	9.657	906.30	9.571	909.08	9.369	910.59
10.652	888.76	10.129	899.37	9.639	906.08	9.553	908.90	9.349	910.42
10.635	888.60	10.111	899.22	9.620	905.92	9.534	908.69	9.330	910.26
10.618	888.43	10.093	899.09	9.602	905.74	9.515	908.57	9.311	910.10
10.601	888.27	10.076	898.98	9.583	905.59	9.497	908.42	9.292	909.93
10.584	888.19	10.058	898.84	9.565	905.44	9.478	908.17	9.273	909.77
10.567	888.04	10.040	898.64	9.546	905.26	9.459	908.09	9.254	909.60
10.550	887.87	10.023	898.50	9.528	905.15	9.441	907.93	9.235	909.44
10.533	887.78	10.005	898.37	9.509	904.92	9.422	907.76	9.216	909.28
10.516	887.60	9.987	898.23	9.491	904.82	9.403	907.53	9.197	909.11
10.499	887.44	9.970	898.06	9.472	904.66	9.385	907.35	9.178	908.95
10.482	887.27	9.952	897.89	9.454	904.46	9.366	907.19	9.159	908.79
10.465	887.18	9.935	897.76	9.435	904.29	9.348	907.03	9.140	908.62
10.448	887.03	9.917	897.53	9.417	904.17	9.329	906.86	9.121	908.46
10.431	886.87	9.899	897.40	9.398	904.00	9.310	906.70	9.102	908.29
10.414	886.70	9.882	897.27	9.380	903.84	9.292	906.66	9.083	908.13
10.397	886.54	9.864	897.13	9.361	903.68	9.273	906.50	9.064	907.91

10.380	886.36	9.846	896.98	9.343	903.51	9.254	906.29	9.045	907.76
10.363	886.27	9.829	896.80	9.324	903.35	9.236	906.13	9.026	907.56
10.346	886.09	9.811	896.63	9.306	903.19	9.217	905.96	9.007	907.39
10.329	885.98	9.794	896.49	9.287	903.01	9.198	905.80	8.988	907.23
10.312	885.81	9.776	896.35	9.269	902.83	9.180	905.64	8.969	907.07
10.295	885.63	9.758	896.16	9.250	902.66	9.161	905.47	8.950	906.90
10.278	885.52	9.741	895.98	9.232	902.46	9.142	905.31	8.931	906.74
10.261	885.35	9.723	895.85	9.213	902.28	9.124	905.14	8.912	906.56
10.244	885.17	9.705	895.72	9.195	902.11	9.105	904.98	8.893	906.33
10.227	884.98	9.688	895.50	9.176	901.96	9.086	904.81	8.874	906.16
10.210	884.87	9.670	895.35	9.158	901.79	9.068	904.65	8.855	906.00
10.193	884.68	9.653	895.21	9.139	901.63	9.049	904.49	8.836	905.84
10.176	884.56	9.635	895.06	9.121	901.46	9.030	904.27	8.817	905.67
10.159	884.36	9.617	894.83	9.102	901.30	9.012	904.08	8.798	905.51
10.142	884.24	9.600	894.76	9.084	901.05	8.993	903.92	8.779	905.35
10.125	884.03	9.582	894.53	9.065	900.89	8.974	903.76	8.760	905.10
10.108	883.91	9.564	894.38	9.047	900.74	8.956	903.59	8.741	904.94
10.091	883.71	9.547	894.24	9.028	900.56	8.937	903.43	8.722	904.77
10.074	883.58	9.529	894.07	9.010	900.40	8.918	903.26	8.703	904.61
10.057	883.44	9.512	893.92	8.991	900.24	8.900	903.10	8.684	904.45
10.040	883.23	9.494	893.75	8.973	900.07	8.881	902.93	8.665	904.28
10.023	883.10	9.476	893.53	8.954	899.83	8.862	902.77	8.646	904.12
10.006	882.89	9.459	893.38	8.936	899.66	8.844	902.61	8.627	903.87
9.989	882.76	9.441	893.22	8.917	899.50	8.825	902.44	8.608	903.73
9.972	882.62	9.423	893.07	8.899	899.33	8.807	902.36	8.589	903.54
9.955	882.43	9.406	892.93	8.880	899.17	8.788	902.22	8.570	903.38
9.938	882.30	9.388	892.77	8.862	898.93	8.769	902.09	8.551	903.22
9.921	882.09	9.371	892.54	8.843	898.76	8.751	901.88	8.532	903.05
9.904	881.96	9.353	892.38	8.825	898.60	8.732	901.74	8.513	902.89
9.887	881.75	9.335	892.22	8.806	898.43	8.713	901.62	8.494	902.73
9.870	881.60	9.318	892.07	8.788	898.27	8.695	901.41	8.475	902.56
9.853	881.46	9.300	891.91	8.769	898.07	8.676	901.28	8.456	902.32
9.836	881.23	9.282	891.75	8.751	897.92	8.657	901.14	8.437	902.15
9.819	881.09	9.265	891.58	8.732	897.69	8.639	901.00	8.418	901.99
9.802	880.96	9.247	891.42	8.714	897.53	8.620	900.78	8.399	901.82
9.785	880.74	9.230	891.20	8.695	897.37	8.601	900.64	8.380	901.63
9.768	880.61	9.212	891.02	8.677	897.20	8.583	900.48	8.361	901.45
9.751	880.41	9.194	890.87	8.658	896.97	8.564	900.32	8.341	901.25
9.734	880.25	9.177	890.70	8.640	896.79	8.545	900.17	8.322	901.09
9.717	880.09	9.159	890.55	8.621	896.63	8.527	900.01	8.303	900.91
9.700	879.92	9.141	890.40	8.603	896.47	8.508	899.84	8.284	900.71
9.683	879.73	9.124	890.15	8.584	896.26	8.489	899.67	8.265	900.51
9.666	879.60	9.106	889.99	8.566	896.13	8.471	899.50	8.246	900.35
9.649	879.37	9.088	889.82	8.547	895.89	8.452	899.31	8.227	900.19
9.632	879.21	9.071	889.66	8.529	895.73	8.433	899.14	8.208	900.01

9.615	879.04	9.053	889.50	8.510	895.56	8.415	898.96	8.189	899.79
9.598	878.87	9.036	889.33	8.492	895.35	8.396	898.77	8.170	899.61
9.581	878.70	9.018	889.16	8.473	895.17	8.377	898.60	8.151	899.45
9.564	878.53	9.000	888.99	8.455	894.99	8.359	898.44	8.132	899.22
9.547	878.37	8.983	888.82	8.436	894.83	8.340	898.26	8.113	899.04
9.530	878.16	8.965	888.58	8.418	894.59	8.321	898.08	8.094	898.87
9.513	878.04	8.947	888.40	8.399	894.46	8.303	897.89	8.075	898.69
9.496	877.88	8.930	888.24	8.381	894.25	8.284	897.70	8.056	898.46
9.479	877.70	8.912	888.05	8.362	894.01	8.265	897.61	8.037	898.30
9.462	877.50	8.895	887.88	8.344	893.86	8.247	897.41	8.018	898.14
9.445	877.30	8.877	887.69	8.325	893.68	8.228	897.17	7.999	897.95
9.428	877.19	8.859	887.52	8.307	893.48	8.210	897.04	7.980	897.73
9.411	876.98	8.842	887.34	8.288	893.28	8.191	896.89	7.961	897.56
9.394	876.81	8.824	887.15	8.270	893.10	8.172	896.63	7.942	897.40
9.377	876.65	8.806	886.97	8.251	892.94	8.154	896.45	7.923	897.24
9.360	876.44	8.789	886.82	8.233	892.73	8.135	896.31	7.904	897.01
9.343	876.30	8.771	886.61	8.214	892.55	8.116	896.09	7.885	896.83
9.326	876.09	8.754	886.41	8.196	892.37	8.098	895.92	7.866	896.66
9.309	875.95	8.736	886.23	8.177	892.12	8.079	895.74	7.847	896.48
9.292	875.73	8.718	886.08	8.159	891.96	8.060	895.56	7.828	896.25
9.275	875.51	8.701	885.93	8.140	891.79	8.042	895.37	7.809	896.09
9.258	875.34	8.683	885.74	8.122	891.63	8.023	895.16	7.790	895.84
9.241	875.19	8.665	885.55	8.103	891.38	8.004	894.96	7.771	895.68
9.224	875.01	8.648	885.37	8.085	891.18	7.986	894.76	7.752	895.52
9.207	874.85	8.630	885.18	8.066	891.03	7.967	894.64	7.733	895.27
9.190	874.62	8.613	884.99	8.048	890.87	7.948	894.43	7.714	895.11
9.173	874.44	8.595	884.79	8.029	890.79	7.930	894.23	7.695	894.86
9.156	874.23	8.577	884.60	8.011	890.65	7.911	894.03	7.676	894.70
9.139	874.06	8.560	884.41	7.992	890.45	7.892	893.82	7.657	894.53
9.122	873.90	8.542	884.28	7.974	890.33	7.874	893.60	7.638	894.30
9.105	873.72	8.524	884.09	7.955	890.14	7.855	893.43	7.619	894.12
9.088	873.56	8.507	883.85	7.937	889.99	7.836	893.26	7.600	893.96
9.071	873.38	8.489	883.65	7.918	889.78	7.818	893.02	7.581	893.71
9.054	873.21	8.472	883.46	7.900	889.66	7.799	892.80	7.562	893.55
9.037	873.09	8.454	883.28	7.881	889.46	7.780	892.67	7.543	893.30
9.020	872.91	8.436	883.08	7.863	889.26	7.762	892.46	7.524	893.14
9.003	872.73	8.419	882.89	7.844	889.11	7.743	892.24	7.505	892.98
8.986	872.54	8.401	882.78	7.826	888.92	7.724	892.04	7.486	892.73
8.969	872.34	8.383	882.58	7.807	888.78	7.706	891.88	7.467	892.57
8.952	872.15	8.366	882.40	7.789	888.62	7.687	891.65	7.448	892.40
8.935	872.03	8.348	882.20	7.770	888.43	7.669	891.47	7.429	892.16
8.918	871.83	8.330	882.01	7.752	888.23	7.650	891.27	7.410	891.99
8.901	871.65	8.313	881.81	7.733	888.06	7.631	891.02	7.391	891.83
8.884	871.45	8.295	881.62	7.715	887.91	7.613	890.84	7.372	891.67
8.867	871.26	8.278	881.43	7.696	887.73	7.594	890.59	7.353	891.47

8.850	871.08	8.260	881.23	7.678	887.52	7.575	890.42	7.333	891.25
8.833	870.92	8.242	881.02	7.659	887.32	7.557	890.23	7.314	891.09
8.816	870.74	8.225	880.82	7.641	887.18	7.538	889.99	7.295	890.93
8.799	870.51	8.207	880.61	7.622	886.98	7.519	889.77	7.276	890.76
8.782	870.37	8.189	880.48	7.604	886.78	7.501	889.59	7.257	890.52
8.765	870.16	8.172	880.25	7.585	886.58	7.482	889.40	7.238	890.35
8.748	869.95	8.154	880.02	7.567	886.41	7.463	889.17	7.219	890.12
8.731	869.77	8.137	879.85	7.548	886.21	7.445	888.99	7.200	889.96
8.714	869.59	8.119	879.71	7.530	885.99	7.426	888.74	7.181	889.77
8.697	869.37	8.101	879.47	7.511	885.80	7.407	888.51	7.162	889.59
8.680	869.21	8.084	879.26	7.493	885.62	7.389	888.35	7.143	889.33
8.663	869.03	8.066	879.03	7.474	885.44	7.370	888.12	7.124	889.16
8.646	868.80	8.048	878.87	7.456	885.24	7.351	887.97	7.105	888.96
8.629	868.63	8.031	878.63	7.437	885.04	7.333	887.73	7.086	888.79
8.612	868.46	8.013	878.47	7.419	884.88	7.314	887.53	7.067	888.55
8.595	868.24	7.996	878.22	7.400	884.67	7.295	887.34	7.048	888.35
8.578	868.01	7.978	878.07	7.382	884.47	7.277	887.12	7.029	888.14
8.561	867.84	7.960	877.89	7.363	884.27	7.258	886.93	7.010	887.92
8.544	867.66	7.943	877.63	7.345	884.07	7.239	886.71	6.991	887.73
8.527	867.48	7.925	877.47	7.326	883.85	7.221	886.50	6.972	887.51
8.510	867.29	7.907	877.23	7.308	883.70	7.202	886.28	6.953	887.29
8.493	867.07	7.890	876.98	7.289	883.47	7.183	886.07	6.934	887.08
8.476	866.82	7.872	876.81	7.271	883.26	7.165	885.88	6.915	886.85
8.459	866.66	7.855	876.64	7.252	883.07	7.146	885.65	6.896	886.67
8.442	866.44	7.837	876.41	7.234	882.81	7.127	885.48	6.877	886.43
8.425	866.25	7.819	876.20	7.215	882.60	7.109	885.24	6.858	886.25
8.408	866.00	7.802	876.03	7.197	882.44	7.090	884.99	6.839	886.01
8.391	865.82	7.784	875.78	7.178	882.21	7.072	884.77	6.820	885.79
8.374	865.59	7.766	875.62	7.160	882.04	7.053	884.58	6.801	885.57
8.357	865.42	7.749	875.38	7.141	881.80	7.034	884.38	6.782	885.35
8.340	865.18	7.731	875.21	7.123	881.63	7.016	884.17	6.763	885.13
8.323	865.01	7.714	874.94	7.104	881.39	6.997	883.92	6.744	884.95
8.306	864.77	7.696	874.77	7.086	881.13	6.978	883.76	6.725	884.70
8.289	864.59	7.678	874.58	7.067	880.96	6.960	883.47	6.706	884.51
8.272	864.36	7.661	874.36	7.049	880.69	6.941	883.28	6.687	884.29
8.255	864.20	7.643	874.13	7.030	880.52	6.922	883.08	6.668	884.06
8.238	863.95	7.625	873.93	7.012	880.26	6.904	882.86	6.649	883.80
8.221	863.79	7.608	873.74	6.993	880.07	6.885	882.63	6.630	883.59
8.204	863.54	7.590	873.54	6.975	879.87	6.866	882.41	6.611	883.37
8.187	863.30	7.573	873.29	6.956	879.64	6.848	882.16	6.592	883.12
8.170	863.13	7.555	873.05	6.938	879.41	6.829	881.96	6.573	882.89
8.153	862.89	7.537	872.84	6.919	879.17	6.810	881.73	6.554	882.70
8.136	862.69	7.520	872.64	6.901	878.93	6.792	881.49	6.535	882.43
8.119	862.44	7.502	872.42	6.882	878.72	6.773	881.30	6.516	882.24
8.102	862.23	7.484	872.24	6.864	878.52	6.754	881.05	6.497	882.00

8.085	862.00	7.467	872.03	6.845	878.31	6.736	880.86	6.478	881.75
8.068	861.82	7.449	871.82	6.827	878.11	6.717	880.64	6.459	881.58
8.051	861.57	7.431	871.56	6.808	877.80	6.698	880.41	6.440	881.34
8.035	861.38	7.414	871.36	6.790	877.58	6.680	880.14	6.421	881.09
8.018	861.16	7.396	871.15	6.771	877.36	6.661	879.92	6.402	880.84
8.001	860.92	7.379	870.94	6.753	877.15	6.642	879.73	6.383	880.63
7.984	860.69	7.361	870.73	6.734	876.93	6.624	879.50	6.364	880.43
7.967	860.51	7.343	870.52	6.716	876.70	6.605	879.29	6.345	880.19
7.950	860.27	7.326	870.30	6.697	876.48	6.586	879.04	6.326	879.91
7.933	860.07	7.308	870.07	6.679	876.29	6.568	878.81	6.306	879.70
7.916	859.85	7.290	869.81	6.660	876.00	6.549	878.57	6.287	879.45
7.899	859.61	7.273	869.60	6.642	875.79	6.530	878.38	6.268	879.20
7.882	859.36	7.255	869.36	6.623	875.59	6.512	878.13	6.249	879.00
7.865	859.12	7.238	869.15	6.605	875.37	6.493	877.94	6.230	878.79
7.848	858.92	7.220	868.95	6.586	875.15	6.475	877.69	6.211	878.55
7.831	858.71	7.202	868.71	6.568	874.90	6.456	877.46	6.192	878.30
7.814	858.46	7.185	868.47	6.549	874.59	6.437	877.21	6.173	878.06
7.797	858.21	7.167	868.28	6.531	874.42	6.419	876.95	6.154	877.81
7.780	858.04	7.149	868.08	6.512	874.17	6.400	876.72	6.135	877.56
7.763	857.80	7.132	867.80	6.494	873.92	6.381	876.54	6.116	877.32
7.746	857.56	7.114	867.61	6.475	873.67	6.363	876.30	6.097	877.07
7.729	857.36	7.097	867.34	6.457	873.39	6.344	876.02	6.078	876.83
7.712	857.24	7.079	867.17	6.438	873.21	6.325	875.81	6.059	876.63
7.695	857.11	7.061	866.93	6.420	872.90	6.307	875.56	6.040	876.39
7.678	856.88	7.044	866.69	6.401	872.66	6.288	875.35	6.021	876.17
7.661	856.65	7.026	866.49	6.383	872.44	6.269	875.08	6.002	875.91
7.644	856.51	7.008	866.27	6.364	872.20	6.251	874.89	5.983	875.68
7.627	856.31	6.991	866.03	6.346	871.91	6.232	874.64	5.964	875.38
7.610	856.11	6.973	865.83	6.327	871.71	6.213	874.41	5.945	875.17
7.593	855.91	6.956	865.59	6.309	871.39	6.195	874.22	5.926	874.94
7.576	855.67	6.938	865.39	6.290	871.13	6.176	873.99	5.907	874.69
7.559	855.50	6.920	865.18	6.272	870.94	6.157	873.84	5.888	874.45
7.542	855.32	6.903	864.94	6.253	870.64	6.139	873.58	5.869	874.20
7.525	855.06	6.885	864.68	6.235	870.40	6.120	873.43	5.850	873.96
7.508	854.88	6.867	864.48	6.216	870.16	6.101	873.18	5.831	873.71
7.491	854.67	6.850	864.25	6.198	869.92	6.083	872.93	5.812	873.46
7.474	854.48	6.832	864.01	6.179	869.68	6.064	872.74	5.793	873.22
7.457	854.26	6.815	863.78	6.161	869.43	6.045	872.46	5.774	872.97
7.440	854.00	6.797	863.53	6.142	869.15	6.027	872.26	5.755	872.72
7.423	853.83	6.779	863.34	6.123	868.91	6.008	872.01	5.736	872.48
7.406	853.58	6.762	863.05	6.105	868.67	5.989	871.83	5.717	872.19
7.389	853.40	6.744	862.80	6.086	868.38	5.971	871.57	5.698	871.92
7.372	853.21	6.726	862.55	6.068	868.10	5.952	871.31	5.679	871.66
7.355	852.95	6.709	862.30	6.049	867.85	5.934	871.12	5.660	871.41
7.338	852.72	6.691	862.06	6.031	867.57	5.915	870.84	5.641	871.06

7.321	852.49	6.673	861.81	6.012	867.28	5.896	870.66	5.622	870.81
7.304	852.30	6.656	861.57	5.994	867.03	5.878	870.38	5.603	870.44
7.287	852.02	6.638	861.34	5.975	866.78	5.859	870.15	5.584	870.18
7.270	851.82	6.621	861.09	5.957	866.47	5.840	869.93	5.565	869.93
7.253	851.62	6.603	860.90	5.938	866.21	5.822	869.64	5.546	869.75
7.236	851.39	6.585	860.60	5.920	865.96	5.803	869.44	5.527	869.44
7.219	851.08	6.568	860.34	5.901	865.72	5.784	869.16	5.508	868.87
7.202	850.84	6.550	860.09	5.883	865.46	5.766	868.95	5.489	868.68
7.185	850.59	6.532	859.83	5.864	864.74	5.747	868.17	5.470	868.44
7.168	850.35	6.515	859.60	5.846	864.48	5.728	867.85	5.451	868.21
7.151	850.17	6.497	859.34	5.827	863.99	5.710	867.60	5.432	867.96
7.134	849.93	6.480	859.08	5.809	863.62	5.691	867.31	5.413	867.64
7.117	849.66	6.462	858.86	5.790	863.66	5.672	867.04	5.394	867.39
7.100	849.37	6.444	858.58	5.772	863.39	5.654	866.76	5.375	867.07
7.083	849.12	6.427	858.28	5.753	863.08	5.635	866.45	5.356	866.88
7.066	848.90	6.409	858.05	5.735	862.88	5.616	866.13	5.337	866.63
7.049	848.63	6.391	857.79	5.716	862.53	5.598	865.80	5.318	866.46
7.032	848.38	6.374	857.55	5.698	862.21	5.579	865.47	5.298	866.16
7.015	848.10	6.356	857.30	5.679	861.94	5.560	865.17	5.279	865.94
6.998	847.86	6.339	857.05	5.661	861.45	5.542	864.96	5.260	865.72
6.981	847.59	6.321	856.79	5.642	860.62	5.523	864.70	5.241	865.49
6.964	847.32	6.303	856.55	5.624	859.55	5.504	864.46	5.222	865.18
6.947	847.05	6.286	856.29	5.605	859.26	5.486	864.22	5.203	864.95
6.930	846.79	6.268	855.99	5.587	858.89	5.467	863.96	5.184	864.69
6.913	846.56	6.250	855.74	5.568	858.57	5.448	863.75	5.165	864.39
6.896	846.29	6.233	855.49	5.550	858.15	5.430	863.64	5.146	864.13
6.879	845.99	6.215	855.25	5.531	857.74	5.411	863.46	5.127	863.85
6.862	845.75	6.198	854.92	5.513	857.25	5.392	863.24	5.108	863.52
6.845	845.45	6.180	854.68	5.494	856.84	5.374	863.02	5.089	863.21
6.828	845.18	6.162	854.45	5.476	856.51	5.355	862.75	5.070	862.88
6.811	844.94	6.145	854.15	5.457	856.30	5.337	862.57	5.051	862.60
6.794	844.67	6.127	853.74	5.439	856.02	5.318	862.35	5.032	862.30
6.777	844.36	6.109	853.39	5.420	855.77	5.299	862.10	5.013	861.98
6.760	844.12	6.092	853.11	5.402	855.53	5.281	861.93	4.994	861.58
6.743	843.87	6.074	852.87	5.383	855.28	5.262	861.67	4.975	861.24
6.726	843.54	6.057	852.58	5.365	854.95	5.243	861.43	4.956	860.71
6.709	843.22	6.039	852.29	5.346	854.71	5.225	861.24	4.937	860.25
6.692	842.97	6.021	852.05	5.328	854.40	5.206	860.94	4.918	859.92
6.675	842.69	6.004	851.72	5.309	854.13	5.187	860.70	4.899	859.59
6.658	842.39	5.986	851.47	5.291	853.85	5.169	860.44	4.880	859.18
6.641	842.07	5.968	851.14	5.272	853.56	5.150	860.23	4.861	858.72
6.624	841.41	5.951	850.82	5.254	853.23	5.131	859.94	4.842	858.34
6.607	840.91	5.933	850.49	5.235	852.96	5.113	859.69	4.823	857.98
6.590	840.50	5.916	850.08	5.217	852.66	5.094	859.42	4.804	857.70
4.719	141.71	4.646	137.92	4.575	136.39	4.554	135.90	4.524	135.26

4.696	139.38	4.623	136.49	4.552	134.95	4.532	134.45	4.502	133.71
4.672	137.82	4.600	135.07	4.530	133.59	4.509	133.12	4.479	132.33
4.649	136.29	4.577	133.70	4.507	132.27	4.487	131.74	4.457	131.05
4.626	134.94	4.555	132.44	4.485	130.91	4.464	130.48	4.435	129.70
4.603	133.64	4.532	131.14	4.462	129.61	4.442	129.19	4.413	128.42
4.579	132.40	4.509	129.85	4.440	128.36	4.420	127.88	4.390	127.18
4.556	130.97	4.486	128.55	4.417	127.12	4.397	126.68	4.368	125.92
4.533	129.82	4.463	127.28	4.395	125.91	4.375	125.43	4.346	124.71
4.510	128.58	4.440	126.08	4.372	124.71	4.353	124.24	4.324	123.49
4.486	127.26	4.417	124.89	4.350	123.47	4.330	123.04	4.301	122.25
4.463	126.13	4.395	123.66	4.327	122.30	4.308	121.85	4.279	121.13
4.440	124.93	4.372	122.49	4.305	121.12	4.285	120.69	4.257	119.94
4.417	123.69	4.349	121.34	4.282	119.97	4.263	119.57	4.235	118.82
4.394	122.57	4.326	120.16	4.260	118.86	4.241	118.44	4.213	117.68
4.370	121.45	4.303	119.01	4.237	117.76	4.218	117.35	4.190	116.64
4.347	120.35	4.280	117.95	4.215	116.66	4.196	116.22	4.168	115.48
4.324	119.20	4.258	116.82	4.192	115.57	4.174	115.15	4.146	114.38
4.301	118.06	4.235	115.74	4.170	114.51	4.151	114.11	4.124	113.35
4.277	117.02	4.212	114.68	4.147	113.46	4.129	112.99	4.101	112.26
4.254	115.93	4.189	113.59	4.125	112.41	4.106	111.96	4.079	111.25
4.231	114.84	4.166	112.51	4.102	111.34	4.084	110.95	4.057	110.22
4.208	113.83	4.143	111.51	4.080	110.33	4.062	109.88	4.035	109.21
4.184	112.63	4.120	110.45	4.058	109.28	4.039	108.90	4.013	108.22
4.161	111.68	4.098	109.45	4.035	108.29	4.017	107.86	3.990	107.17
4.138	110.68	4.075	108.44	4.013	107.30	3.994	106.92	3.968	106.19
4.115	109.72	4.052	107.43	3.990	106.33	3.972	105.87	3.946	105.23
4.091	108.67	4.029	106.47	3.968	105.39	3.950	104.94	3.924	104.28
4.068	107.66	4.006	105.54	3.945	104.45	3.927	103.97	3.901	103.27
4.045	106.72	3.983	104.53	3.923	103.48	3.905	103.01	3.879	102.34
4.022	105.72	3.961	103.60	3.900	102.57	3.883	102.09	3.857	101.41
3.998	104.80	3.938	102.63	3.878	101.57	3.860	101.19	3.835	100.46
3.975	103.81	3.915	101.63	3.855	100.68	3.838	100.23	3.812	99.55
3.952	102.92	3.892	100.73	3.833	99.72	3.815	99.27	3.790	98.65
3.929	101.96	3.869	99.77	3.810	98.84	3.793	98.36	3.768	97.75
3.905	101.00	3.846	98.89	3.788	97.96	3.771	97.46	3.746	96.88
3.882	100.06	3.824	98.01	3.765	97.09	3.748	96.61	3.724	95.96
3.859	99.19	3.801	97.07	3.743	96.16	3.726	95.68	3.701	95.11
3.836	98.28	3.778	96.21	3.720	95.27	3.703	94.79	3.679	94.19
3.812	97.36	3.755	95.28	3.698	94.43	3.681	93.94	3.657	93.36
3.789	96.49	3.732	94.43	3.675	93.52	3.659	93.08	3.635	92.50
3.766	95.62	3.709	93.60	3.653	92.67	3.636	92.22	3.612	91.67
3.743	94.75	3.686	92.72	3.630	91.84	3.614	91.38	3.590	90.84
3.720	93.89	3.664	91.87	3.608	91.02	3.592	90.56	3.568	89.96
3.696	93.02	3.641	91.02	3.585	90.17	3.569	89.68	3.546	89.16
3.673	92.18	3.618	90.15	3.563	89.39	3.547	88.84	3.523	88.33

3.650	91.31	3.595	89.32	3.540	88.55	3.524	88.02	3.501	87.53
3.627	90.51	3.572	88.48	3.518	87.71	3.502	87.25	3.479	86.70
3.603	89.65	3.549	87.69	3.495	86.88	3.480	86.43	3.457	85.93
3.580	88.87	3.527	86.88	3.473	86.09	3.457	85.59	3.435	85.12
3.557	88.03	3.504	86.05	3.450	85.29	3.435	84.83	3.412	84.35
3.534	87.27	3.481	85.25	3.428	84.51	3.413	84.05	3.390	83.55
3.510	86.42	3.458	84.50	3.405	83.75	3.390	83.21	3.368	82.74
3.487	85.59	3.435	83.69	3.383	82.98	3.368	82.44	3.346	81.97
3.464	84.77	3.412	82.88	3.360	82.17	3.345	81.69	3.323	81.24
3.441	84.04	3.389	82.10	3.338	81.38	3.323	80.94	3.301	80.44
3.417	83.23	3.367	81.28	3.315	80.63	3.301	80.14	3.279	79.73
3.394	82.43	3.344	80.50	3.293	79.83	3.278	79.37	3.257	78.98
3.371	81.70	3.321	79.75	3.271	79.07	3.256	78.67	3.234	78.19
3.348	80.93	3.298	79.03	3.248	78.33	3.233	77.90	3.212	77.49
3.324	80.16	3.275	78.25	3.226	77.61	3.211	77.14	3.190	76.73
3.301	79.39	3.252	77.51	3.203	76.89	3.189	76.47	3.168	76.03
3.278	78.62	3.230	76.81	3.181	76.12	3.166	75.66	3.146	75.24
3.255	77.94	3.207	76.02	3.158	75.40	3.144	74.95	3.123	74.58
3.231	77.17	3.184	75.29	3.136	74.70	3.122	74.23	3.101	73.84
3.208	76.41	3.161	74.57	3.113	74.01	3.099	73.52	3.079	73.13
3.185	75.66	3.138	73.83	3.091	73.28	3.077	72.83	3.057	72.45
3.162	74.91	3.115	73.10	3.068	72.53	3.054	72.07	3.034	71.70
3.138	74.26	3.093	72.38	3.046	71.85	3.032	71.41	3.012	71.01
3.115	73.52	3.070	71.65	3.023	71.16	3.010	70.67	2.990	70.36
3.092	72.80	3.047	70.97	3.001	70.47	2.987	70.01	2.968	69.63
3.069	72.08	3.024	70.29	2.978	69.77	2.965	69.28	2.945	68.97
3.046	71.36	3.001	69.56	2.956	69.08	2.943	68.64	2.923	68.27
3.022	70.64	2.978	68.84	2.933	68.39	2.920	67.93	2.901	67.60
2.999	69.94	2.955	68.16	2.911	67.70	2.898	67.23	2.879	66.93
2.976	69.24	2.933	67.44	2.888	67.01	2.875	66.56	2.857	66.27
2.953	68.56	2.910	66.80	2.866	66.33	2.853	65.86	2.834	65.56
2.929	67.88	2.887	66.09	2.843	65.69	2.831	65.18	2.812	64.88
2.906	67.12	2.864	65.39	2.821	65.02	2.808	64.50	2.790	64.25
2.883	66.45	2.841	64.76	2.798	64.33	2.786	63.91	2.768	63.56
2.860	65.79	2.818	64.12	2.776	63.67	2.763	63.25	2.745	62.93
2.836	65.13	2.796	63.41	2.753	63.00	2.741	62.54	2.723	62.30
2.813	64.48	2.773	62.79	2.731	62.36	2.719	61.89	2.701	61.63
2.790	63.74	2.750	62.11	2.708	61.67	2.696	61.24	2.679	60.97
2.767	63.09	2.727	61.43	2.686	61.07	2.674	60.59	2.656	60.38
2.743	62.38	2.704	60.72	2.663	60.45	2.652	59.95	2.634	59.71
2.720	61.74	2.681	60.13	2.641	59.80	2.629	59.33	2.612	59.12
2.697	61.03	2.658	59.45	2.618	59.10	2.607	58.71	2.590	58.45
2.674	60.41	2.636	58.81	2.596	58.51	2.584	58.08	2.568	57.81
2.650	59.70	2.613	58.13	2.573	57.88	2.562	57.46	2.545	57.20
2.627	59.08	2.590	57.55	2.551	57.24	2.540	56.84	2.523	56.57

2.604	58.39	2.567	56.93	2.528	56.60	2.517	56.14	2.501	55.96
2.581	57.78	2.544	56.33	2.506	55.97	2.495	55.53	2.479	55.35
2.557	57.10	2.521	55.72	2.484	55.35	2.472	55.00	2.456	54.74
2.534	56.49	2.499	55.07	2.461	54.75	2.450	54.32	2.434	54.13
2.511	55.82	2.476	54.45	2.439	54.13	2.428	53.74	2.412	53.49
2.488	55.17	2.453	53.81	2.416	53.53	2.405	53.12	2.390	52.91
2.465	54.53	2.430	53.24	2.394	52.97	2.383	52.55	2.367	52.33
2.441	53.91	2.407	52.60	2.371	52.29	2.361	51.88	2.345	51.74
2.418	53.27	2.384	52.04	2.349	51.68	2.338	51.29	2.323	51.14
2.395	52.62	2.362	51.41	2.326	51.07	2.316	50.71	2.301	50.49
2.372	51.98	2.339	50.79	2.304	50.48	2.293	50.13	2.279	49.90
2.348	51.41	2.316	50.23	2.281	49.90	2.271	49.55	2.256	49.32
2.325	50.78	2.293	49.61	2.259	49.32	2.249	48.98	2.234	48.75
2.302	50.15	2.270	49.00	2.236	48.71	2.226	48.41	2.212	48.18
2.279	49.53	2.247	48.42	2.214	48.14	2.204	47.84	2.190	47.60
2.255	48.97	2.224	47.84	2.191	47.57	2.182	47.23	2.167	47.00
2.232	48.35	2.202	47.22	2.169	46.97	2.159	46.66	2.145	46.43
2.209	47.74	2.179	46.61	2.146	46.42	2.137	46.03	2.123	45.88
2.186	47.20	2.156	46.08	2.124	45.82	2.114	45.48	2.101	45.33
2.162	46.59	2.133	45.51	2.101	45.27	2.092	44.93	2.078	44.79
2.139	45.98	2.110	44.92	2.079	44.64	2.070	44.38	2.056	44.18
2.116	45.41	2.087	44.38	2.056	44.10	2.047	43.84	2.034	43.60
2.093	44.84	2.065	43.76	2.034	43.49	2.025	43.30	2.012	43.03
2.069	44.27	2.042	43.19	2.011	42.96	2.002	42.68	1.990	42.49
2.046	43.67	2.019	42.61	1.989	42.40	1.980	42.10	1.967	41.96
2.023	43.15	1.996	42.01	1.966	41.84	1.958	41.57	1.945	41.40
2.000	42.51	1.973	41.47	1.944	41.27	1.935	41.04	1.923	40.81
1.976	41.96	1.950	40.90	1.921	40.72	1.913	40.51	1.901	40.22
1.953	41.40	1.927	40.37	1.899	40.18	1.891	39.90	1.878	39.68
1.930	40.82	1.905	39.85	1.876	39.64	1.868	39.38	1.856	39.21
1.907	40.25	1.882	39.26	1.854	39.03	1.846	38.86	1.834	38.66
1.883	39.71	1.859	38.72	1.831	38.51	1.823	38.27	1.812	38.11
1.860	39.18	1.836	38.18	1.809	37.99	1.801	37.76	1.789	37.57
1.837	38.62	1.813	37.60	1.786	37.42	1.779	37.22	1.767	37.03
1.814	38.05	1.790	37.02	1.764	36.92	1.756	36.70	1.745	36.51
1.791	37.50	1.768	36.55	1.741	36.33	1.734	36.16	1.723	35.96
1.767	36.94	1.745	35.98	1.719	35.82	1.711	35.62	1.701	35.42
1.744	36.43	1.722	35.43	1.697	35.24	1.689	35.12	1.678	34.93
1.721	35.93	1.699	34.89	1.674	34.75	1.667	34.62	1.656	34.42
1.698	35.35	1.676	34.36	1.652	34.19	1.644	34.13	1.634	33.88
1.674	34.85	1.653	33.83	1.629	33.67	1.622	33.57	1.612	33.35
1.651	34.28	1.631	33.32	1.607	33.19	1.600	33.03	1.589	32.84
1.628	33.78	1.608	32.81	1.584	32.62	1.577	32.54	1.567	32.31
1.605	33.23	1.585	32.32	1.562	32.11	1.555	32.06	1.545	31.79
1.581	32.67	1.562	31.78	1.539	31.60	1.532	31.50	1.523	31.31

1.558	32.11	1.539	31.24	1.517	31.10	1.510	31.02	1.500	30.77
1.535	31.64	1.516	30.78	1.494	30.61	1.488	30.46	1.478	30.29
1.512	31.09	1.493	30.26	1.472	30.08	1.465	29.99	1.456	29.79
1.488	30.54	1.471	29.75	1.449	29.55	1.443	29.43	1.434	29.28
1.465	30.07	1.448	29.21	1.427	29.08	1.421	28.96	1.412	28.77
1.442	29.53	1.425	28.65	1.404	28.54	1.398	28.46	1.389	28.28
1.419	28.99	1.402	28.13	1.382	28.00	1.376	27.89	1.367	27.76
1.395	28.50	1.379	27.63	1.359	27.48	1.353	27.41	1.345	27.24
1.372	28.01	1.356	27.16	1.337	26.96	1.331	26.93	1.323	26.78
1.349	27.48	1.334	26.61	1.314	26.54	1.309	26.45	1.300	26.23
1.326	26.95	1.311	26.13	1.292	26.02	1.286	25.96	1.278	25.76
1.302	26.50	1.288	25.65	1.269	25.53	1.264	25.47	1.256	25.28
1.279	25.99	1.265	25.16	1.247	25.04	1.241	24.95	1.234	24.81
1.256	25.47	1.242	24.66	1.224	24.55	1.219	24.46	1.212	24.32
1.233	24.96	1.219	24.19	1.202	24.06	1.197	23.98	1.189	23.83
1.209	24.44	1.196	23.69	1.179	23.58	1.174	23.48	1.167	23.32
1.186	23.93	1.174	23.17	1.157	23.09	1.152	22.98	1.145	22.89
1.163	23.42	1.151	22.70	1.134	22.59	1.130	22.47	1.123	22.38
1.140	22.91	1.128	22.21	1.112	22.10	1.107	22.11	1.100	21.89
1.117	22.40	1.105	21.73	1.089	21.60	1.085	21.61	1.078	21.47
1.093	21.92	1.082	21.24	1.067	21.10	1.062	21.11	1.056	20.99
1.070	21.48	1.059	20.72	1.044	20.63	1.040	20.65	1.034	20.52
1.047	20.98	1.037	20.22	1.022	20.15	1.018	20.13	1.011	20.05
1.024	20.48	1.014	19.78	0.999	19.67	0.995	19.66	0.989	19.56
1.000	19.99	0.991	19.28	0.977	19.19	0.973	19.21	0.967	19.03
0.977	19.49	0.968	18.81	0.954	18.71	0.951	18.75	0.945	18.59
0.954	19.00	0.945	18.31	0.932	18.24	0.928	18.27	0.923	18.14
0.931	18.51	0.922	17.82	0.909	17.77	0.906	17.79	0.900	17.69
0.907	18.03	0.900	17.38	0.887	17.31	0.883	17.34	0.878	17.25
0.884	17.54	0.877	16.93	0.865	16.85	0.861	16.85	0.856	16.76
0.861	17.12	0.854	16.48	0.842	16.39	0.839	16.37	0.834	16.32
0.838	16.66	0.831	15.98	0.820	15.94	0.816	15.95	0.811	15.81
0.814	16.18	0.808	15.51	0.797	15.48	0.794	15.46	0.789	15.38
0.791	15.70	0.785	15.06	0.775	15.03	0.771	15.00	0.767	14.89
0.768	15.22	0.762	14.58	0.752	14.54	0.749	14.54	0.745	14.47
0.745	14.74	0.740	14.10	0.730	14.07	0.727	14.09	0.722	13.99
0.721	14.27	0.717	13.69	0.707	13.62	0.704	13.66	0.700	13.57
0.698	13.79	0.694	13.21	0.685	13.13	0.682	13.14	0.678	13.10
0.675	13.30	0.671	12.77	0.662	12.67	0.660	12.72	0.656	12.62
0.652	12.78	0.648	12.28	0.640	12.23	0.637	12.28	0.634	12.20
0.628	12.35	0.625	11.78	0.617	11.80	0.615	11.82	0.611	11.72
0.605	11.90	0.603	11.35	0.595	11.38	0.592	11.34	0.589	11.27
0.582	11.43	0.580	10.86	0.572	10.87	0.570	10.94	0.567	10.81
0.559	10.97	0.557	10.45	0.550	10.45	0.548	10.46	0.545	10.43
0.535	10.50	0.534	9.99	0.527	9.95	0.525	10.02	0.522	9.91

0.512	10.03	0.511	9.53	0.505	9.53	0.503	9.59	0.500	9.47
0.489	9.57	0.488	9.10	0.482	9.07	0.480	9.13	0.478	9.06
0.466	9.10	0.465	8.62	0.460	8.63	0.458	8.70	0.456	8.57
0.443	8.64	0.443	8.22	0.437	8.23	0.436	8.22	0.433	8.14
0.419	8.17	0.420	7.75	0.415	7.78	0.413	7.75	0.411	7.71
0.396	7.74	0.397	7.29	0.392	7.34	0.391	7.36	0.389	7.29
0.373	7.32	0.374	6.82	0.370	6.87	0.369	6.93	0.367	6.84
0.350	6.85	0.351	6.42	0.347	6.45	0.346	6.50	0.345	6.38
0.326	6.38	0.328	6.00	0.325	6.01	0.324	6.05	0.322	5.95
0.303	5.93	0.306	5.54	0.302	5.57	0.301	5.58	0.300	5.51
0.280	5.52	0.283	5.11	0.280	5.17	0.279	5.16	0.278	5.37
0.257	5.04	0.260	4.66	0.257	4.70	0.257	4.69	0.256	4.88
0.233	4.58	0.237	4.21	0.235	4.23	0.234	4.18	0.233	4.38
0.210	4.13	0.214	3.73	0.212	3.77	0.212	3.60	0.211	3.94
0.187	3.70	0.191	3.27	0.190	3.32	0.190	3.02	0.189	3.45
0.164	3.22	0.169	2.84	0.167	2.87	0.167	2.46	0.167	2.96
0.140	2.79	0.146	2.41	0.145	2.43	0.145	2.01	0.144	2.49
0.117	2.40	0.123	1.97	0.122	2.00	0.122	1.57	0.122	2.07
0.094	1.97	0.100	1.53	0.100	1.58	0.100	1.20	0.100	1.76

Table S1 (continued). $P\rho T x_{CO_2}$ experimental data for CO_2+CO mixtures.

T=293.15 K									
x_{CO_2} = 0.9700		x_{CO_2} = 0.9810		x_{CO_2} = 0.9902		x_{CO_2} = 0.9930		x_{CO_2} = 0.9960	
P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})
20.113	907.11	20.000	916.76	20.000	926.41	20.000	929.87	20.000	933.09
20.097	907.11	19.984	916.80	19.983	926.33	19.983	929.84	19.982	933.01
20.081	907.03	19.967	916.82	19.966	926.24	19.966	929.77	19.965	932.90
20.065	907.00	19.951	916.68	19.949	926.15	19.949	929.69	19.947	932.78
20.050	906.92	19.934	916.63	19.932	926.04	19.932	929.61	19.930	932.70
20.034	906.83	19.918	916.52	19.915	925.92	19.915	929.53	19.912	932.62
20.018	906.71	19.901	916.47	19.898	925.84	19.898	929.46	19.895	932.54
20.002	906.60	19.885	916.39	19.881	925.75	19.881	929.39	19.877	932.46
19.986	906.54	19.869	916.29	19.863	925.67	19.864	929.28	19.859	932.36
19.970	906.46	19.852	916.23	19.846	925.60	19.847	929.17	19.842	932.24
19.955	906.31	19.836	916.13	19.829	925.52	19.830	929.09	19.824	932.14
19.939	906.26	19.819	916.03	19.812	925.43	19.813	929.00	19.807	932.06
19.923	906.16	19.803	915.93	19.795	925.27	19.796	928.90	19.789	931.95
19.907	906.04	19.786	915.81	19.778	925.18	19.779	928.80	19.772	931.82
19.891	905.94	19.770	915.70	19.761	925.10	19.762	928.72	19.754	931.72
19.876	905.82	19.754	915.65	19.744	925.01	19.744	928.59	19.736	931.64
19.860	905.72	19.737	915.54	19.727	924.93	19.727	928.51	19.719	931.55
19.844	905.64	19.721	915.49	19.710	924.83	19.710	928.44	19.701	931.47
19.828	905.57	19.704	915.38	19.693	924.72	19.693	928.32	19.684	931.38
19.812	905.44	19.688	915.25	19.676	924.61	19.676	928.24	19.666	931.29
19.796	905.33	19.671	915.17	19.659	924.51	19.659	928.21	19.649	931.19
19.781	905.28	19.655	915.10	19.642	924.42	19.642	928.09	19.631	931.09
19.765	905.23	19.639	914.99	19.624	924.34	19.625	927.99	19.613	930.98
19.749	905.14	19.622	914.86	19.607	924.22	19.608	927.92	19.596	930.87
19.733	905.03	19.606	914.74	19.590	924.12	19.591	927.77	19.578	930.76
19.717	904.88	19.589	914.69	19.573	924.03	19.574	927.69	19.561	930.64
19.702	904.82	19.573	914.64	19.556	923.90	19.557	927.62	19.543	930.53
19.686	904.76	19.556	914.51	19.539	923.81	19.540	927.54	19.526	930.44
19.670	904.63	19.540	914.39	19.522	923.72	19.523	927.43	19.508	930.38
19.654	904.52	19.524	914.31	19.505	923.64	19.506	927.31	19.490	930.26
19.638	904.43	19.507	914.22	19.488	923.54	19.489	927.24	19.473	930.14
19.622	904.35	19.491	914.10	19.471	923.39	19.472	927.16	19.455	930.05
19.607	904.26	19.474	914.02	19.454	923.31	19.455	927.08	19.438	929.99
19.591	904.18	19.458	913.92	19.437	923.21	19.438	927.00	19.420	929.87
19.575	904.09	19.441	913.79	19.420	923.08	19.421	926.88	19.403	929.75
19.559	903.93	19.425	913.73	19.403	922.98	19.404	926.76	19.385	929.65

19.543	903.84	19.409	913.60	19.386	922.90	19.387	926.66	19.367	929.59
19.528	903.74	19.392	913.52	19.368	922.81	19.370	926.55	19.350	929.49
19.512	903.66	19.376	913.40	19.351	922.65	19.353	926.44	19.332	929.38
19.496	903.53	19.359	913.30	19.334	922.58	19.336	926.35	19.315	929.27
19.480	903.41	19.343	913.21	19.317	922.45	19.319	926.26	19.297	929.16
19.464	903.32	19.326	913.14	19.300	922.37	19.302	926.19	19.280	929.04
19.448	903.24	19.310	913.00	19.283	922.26	19.285	926.11	19.262	928.92
19.433	903.15	19.294	912.89	19.266	922.16	19.268	925.96	19.244	928.86
19.417	903.06	19.277	912.82	19.249	922.04	19.251	925.86	19.227	928.76
19.401	902.97	19.261	912.73	19.232	921.93	19.233	925.79	19.209	928.64
19.385	902.88	19.244	912.60	19.215	921.83	19.216	925.71	19.192	928.52
19.369	902.73	19.228	912.52	19.198	921.76	19.199	925.64	19.174	928.40
19.354	902.62	19.211	912.43	19.181	921.64	19.182	925.52	19.157	928.31
19.338	902.53	19.195	912.28	19.164	921.54	19.165	925.40	19.139	928.24
19.322	902.45	19.179	912.19	19.147	921.42	19.148	925.31	19.121	928.12
19.306	902.35	19.162	912.05	19.130	921.33	19.131	925.23	19.104	928.00
19.290	902.25	19.146	912.00	19.112	921.21	19.114	925.14	19.086	927.91
19.274	902.15	19.129	911.89	19.095	921.10	19.097	925.03	19.069	927.84
19.259	902.05	19.113	911.80	19.078	921.00	19.080	924.91	19.051	927.71
19.243	901.92	19.096	911.65	19.061	920.91	19.063	924.79	19.034	927.59
19.227	901.78	19.080	911.55	19.044	920.85	19.046	924.67	19.016	927.50
19.211	901.69	19.064	911.45	19.027	920.69	19.029	924.57	18.999	927.43
19.195	901.60	19.047	911.32	19.010	920.59	19.012	924.49	18.981	927.31
19.180	901.49	19.031	911.21	18.993	920.47	18.995	924.41	18.963	927.18
19.164	901.39	19.014	911.14	18.976	920.36	18.978	924.24	18.946	927.09
19.148	901.29	18.998	911.02	18.959	920.27	18.961	924.16	18.928	927.01
19.132	901.18	18.981	910.93	18.942	920.12	18.944	924.09	18.911	926.88
19.116	901.08	18.965	910.83	18.925	920.04	18.927	924.00	18.893	926.75
19.100	900.97	18.949	910.69	18.908	919.95	18.910	923.92	18.876	926.67
19.085	900.85	18.932	910.61	18.891	919.79	18.893	923.79	18.858	926.57
19.069	900.75	18.916	910.53	18.873	919.72	18.876	923.67	18.840	926.46
19.053	900.63	18.899	910.37	18.856	919.63	18.859	923.58	18.823	926.39
19.037	900.53	18.883	910.28	18.839	919.47	18.842	923.50	18.805	926.26
19.021	900.41	18.866	910.19	18.822	919.44	18.825	923.34	18.788	926.13
19.006	900.30	18.850	910.08	18.805	919.32	18.808	923.25	18.770	926.03
18.990	900.19	18.834	909.98	18.788	919.20	18.791	923.16	18.753	925.95
18.974	900.16	18.817	909.86	18.771	919.05	18.774	923.08	18.735	925.81
18.958	900.05	18.801	909.75	18.754	918.97	18.757	923.00	18.717	925.75
18.942	899.93	18.784	909.65	18.737	918.87	18.739	922.87	18.700	925.62
18.926	899.81	18.768	909.52	18.720	918.73	18.722	922.72	18.682	925.48
18.911	899.68	18.751	909.43	18.703	918.64	18.705	922.60	18.665	925.38
18.895	899.57	18.735	909.29	18.686	918.53	18.688	922.54	18.647	925.30
18.879	899.44	18.719	909.20	18.669	918.40	18.671	922.40	18.630	925.17
18.863	899.35	18.702	909.08	18.652	918.26	18.654	922.32	18.612	925.04
18.847	899.30	18.686	908.99	18.635	918.18	18.637	922.23	18.594	924.91

18.832	899.17	18.669	908.91	18.617	918.07	18.620	922.14	18.577	924.81
18.816	899.06	18.653	908.74	18.600	917.99	18.603	922.01	18.559	924.73
18.800	898.95	18.636	908.67	18.583	917.83	18.586	921.87	18.542	924.59
18.784	898.83	18.620	908.52	18.566	917.74	18.569	921.78	18.524	924.53
18.768	898.71	18.604	908.43	18.549	917.62	18.552	921.69	18.507	924.40
18.752	898.59	18.587	908.35	18.532	917.50	18.535	921.59	18.489	924.27
18.737	898.48	18.571	908.20	18.515	917.39	18.518	921.46	18.471	924.16
18.721	898.36	18.554	908.12	18.498	917.25	18.501	921.41	18.454	924.08
18.705	898.25	18.538	907.99	18.481	917.17	18.484	921.27	18.436	923.94
18.689	898.14	18.521	907.88	18.464	917.09	18.467	921.13	18.419	923.87
18.673	898.02	18.505	907.81	18.447	916.93	18.450	920.99	18.401	923.75
18.658	897.96	18.489	907.70	18.430	916.84	18.433	920.89	18.384	923.65
18.642	897.87	18.472	907.55	18.413	916.68	18.416	920.88	18.366	923.56
18.626	897.75	18.456	907.46	18.396	916.59	18.399	920.73	18.348	923.42
18.610	897.64	18.439	907.33	18.378	916.49	18.382	920.60	18.331	923.28
18.594	897.53	18.423	907.21	18.361	916.35	18.365	920.51	18.313	923.21
18.578	897.40	18.406	907.12	18.344	916.23	18.348	920.42	18.296	923.08
18.563	897.29	18.390	907.04	18.327	916.13	18.331	920.33	18.278	922.99
18.547	897.18	18.374	906.90	18.310	916.03	18.314	920.22	18.261	922.88
18.531	897.06	18.357	906.76	18.293	915.90	18.297	920.05	18.243	922.76
18.515	896.95	18.341	906.66	18.276	915.78	18.280	919.95	18.225	922.66
18.499	896.83	18.324	906.55	18.259	915.70	18.263	919.86	18.208	922.51
18.484	896.71	18.308	906.47	18.242	915.56	18.246	919.76	18.190	922.37
18.468	896.60	18.291	906.38	18.225	915.45	18.228	919.66	18.173	922.30
18.452	896.49	18.275	906.22	18.208	915.37	18.211	919.55	18.155	922.19
18.436	896.37	18.259	906.09	18.191	915.21	18.194	919.42	18.138	922.08
18.420	896.26	18.242	905.97	18.174	915.13	18.177	919.37	18.120	921.94
18.404	896.22	18.226	905.88	18.157	915.00	18.160	919.24	18.102	921.83
18.389	896.03	18.209	905.79	18.140	914.86	18.143	919.09	18.085	921.69
18.373	895.95	18.193	905.68	18.122	914.74	18.126	918.99	18.067	921.58
18.357	895.87	18.176	905.57	18.105	914.64	18.109	918.87	18.050	921.50
18.341	895.75	18.160	905.44	18.088	914.53	18.092	918.76	18.032	921.32
18.325	895.63	18.144	905.32	18.071	914.39	18.075	918.65	18.015	921.22
18.310	895.52	18.127	905.24	18.054	914.27	18.058	918.52	17.997	921.12
18.294	895.41	18.111	905.08	18.037	914.19	18.041	918.42	17.979	921.01
18.278	895.29	18.094	904.98	18.020	914.07	18.024	918.33	17.962	920.90
18.262	895.18	18.078	904.88	18.003	913.92	18.007	918.23	17.944	920.72
18.246	895.06	18.061	904.75	17.986	913.82	17.990	918.13	17.927	920.64
18.230	894.94	18.045	904.67	17.969	913.74	17.973	918.00	17.909	920.49
18.215	894.82	18.029	904.50	17.952	913.61	17.956	917.86	17.892	920.31
18.199	894.71	18.012	904.40	17.935	913.47	17.939	917.76	17.874	920.17
18.183	894.59	17.996	904.30	17.918	913.37	17.922	917.64	17.856	920.03
18.167	894.48	17.979	904.20	17.901	913.30	17.905	917.50	17.839	919.71
18.151	894.35	17.963	904.09	17.884	913.14	17.888	917.39	17.821	919.24
18.136	894.24	17.946	903.98	17.866	913.04	17.871	917.28	17.804	919.07

18.120	894.12	17.930	903.85	17.849	912.90	17.854	917.19	17.786	918.99
18.104	894.02	17.914	903.75	17.832	912.78	17.837	917.10	17.769	918.91
18.088	893.96	17.897	903.62	17.815	912.65	17.820	916.99	17.751	918.78
18.072	893.85	17.881	903.50	17.798	912.59	17.803	916.89	17.733	918.68
18.056	893.73	17.864	903.38	17.781	912.41	17.786	916.72	17.716	918.51
18.041	893.61	17.848	903.28	17.764	912.35	17.769	916.66	17.698	918.45
18.025	893.44	17.831	903.12	17.747	912.21	17.752	916.50	17.681	918.31
18.009	893.38	17.815	903.03	17.730	912.10	17.735	916.40	17.663	918.19
17.993	893.19	17.799	902.95	17.713	912.02	17.717	916.30	17.646	918.07
17.977	893.13	17.782	902.79	17.696	911.87	17.700	916.19	17.628	917.99
17.962	892.99	17.766	902.68	17.679	911.72	17.683	916.08	17.610	917.86
17.946	892.89	17.749	902.58	17.662	911.63	17.666	915.97	17.593	917.78
17.930	892.80	17.733	902.43	17.645	911.56	17.649	915.82	17.575	917.63
17.914	892.69	17.716	902.38	17.627	911.44	17.632	915.74	17.558	917.56
17.898	892.57	17.700	902.22	17.610	911.28	17.615	915.62	17.540	917.39
17.882	892.45	17.684	902.12	17.593	911.15	17.598	915.49	17.523	917.29
17.867	892.33	17.667	902.02	17.576	911.04	17.581	915.43	17.505	917.17
17.851	892.15	17.651	901.89	17.559	910.93	17.564	915.26	17.487	917.02
17.835	892.09	17.634	901.82	17.542	910.81	17.547	915.15	17.470	916.92
17.819	891.97	17.618	901.68	17.525	910.71	17.530	915.04	17.452	916.77
17.803	891.85	17.601	901.59	17.508	910.55	17.513	914.93	17.435	916.72
17.788	891.73	17.585	901.40	17.491	910.47	17.496	914.83	17.417	916.54
17.772	891.61	17.569	901.31	17.474	910.35	17.479	914.72	17.400	916.39
17.756	891.49	17.552	901.15	17.457	910.24	17.462	914.54	17.382	916.29
17.740	891.36	17.536	901.08	17.440	910.14	17.445	914.43	17.364	916.23
17.724	891.24	17.519	900.98	17.423	909.97	17.428	914.33	17.347	916.13
17.708	891.12	17.503	900.82	17.406	909.89	17.411	914.22	17.329	916.07
17.693	891.00	17.486	900.68	17.389	909.77	17.394	914.10	17.312	916.04
17.677	890.88	17.470	900.61	17.371	909.64	17.377	914.00	17.294	916.01
17.661	890.75	17.454	900.50	17.354	909.52	17.360	913.89	17.277	915.96
17.645	890.63	17.437	900.40	17.337	909.40	17.343	913.79	17.259	915.89
17.629	890.52	17.421	900.25	17.320	909.26	17.326	913.68	17.241	915.81
17.614	890.41	17.404	900.16	17.303	909.17	17.309	913.50	17.224	915.73
17.598	890.28	17.388	900.02	17.286	909.05	17.292	913.45	17.206	915.60
17.582	890.16	17.371	899.89	17.269	908.92	17.275	913.32	17.189	915.46
17.566	890.05	17.355	899.76	17.252	908.82	17.258	913.16	17.171	915.32
17.550	889.93	17.339	899.62	17.235	908.67	17.241	913.05	17.154	915.16
17.534	889.86	17.322	899.51	17.218	908.56	17.223	912.95	17.136	914.90
17.519	889.76	17.306	899.38	17.201	908.44	17.206	912.83	17.119	914.69
17.503	889.63	17.289	899.31	17.184	908.34	17.189	912.72	17.101	914.69
17.487	889.51	17.273	899.12	17.167	908.17	17.172	912.58	17.083	914.63
17.471	889.38	17.256	899.04	17.150	908.09	17.155	912.46	17.066	914.52
17.455	889.26	17.240	898.92	17.132	907.93	17.138	912.30	17.048	914.40
17.440	889.13	17.224	898.78	17.115	907.88	17.121	912.18	17.031	914.28
17.424	889.01	17.207	898.70	17.098	907.74	17.104	912.08	17.013	914.18

17.408	888.88	17.191	898.53	17.081	907.58	17.087	911.97	16.996	914.08
17.392	888.75	17.174	898.44	17.064	907.45	17.070	911.85	16.978	913.97
17.376	888.63	17.158	898.33	17.047	907.36	17.053	911.74	16.960	913.86
17.360	888.51	17.141	898.21	17.030	907.27	17.036	911.63	16.943	913.74
17.345	888.38	17.125	898.06	17.013	907.11	17.019	911.52	16.925	913.63
17.329	888.26	17.109	897.97	16.996	907.01	17.002	911.41	16.908	913.52
17.313	888.21	17.092	897.80	16.979	906.87	16.985	911.22	16.890	913.41
17.297	888.04	17.076	897.70	16.962	906.73	16.968	911.10	16.873	913.29
17.281	887.97	17.059	897.54	16.945	906.62	16.951	911.00	16.855	913.17
17.266	887.84	17.043	897.41	16.928	906.55	16.934	910.89	16.837	913.06
17.250	887.73	17.026	897.31	16.911	906.41	16.917	910.77	16.820	912.94
17.234	887.60	17.010	897.22	16.894	906.28	16.900	910.65	16.802	912.83
17.218	887.46	16.994	897.10	16.876	906.18	16.883	910.54	16.785	912.76
17.202	887.33	16.977	896.93	16.859	906.03	16.866	910.43	16.767	912.67
17.186	887.20	16.961	896.82	16.842	905.88	16.849	910.31	16.750	912.55
17.171	887.08	16.944	896.71	16.825	905.80	16.832	910.20	16.732	912.42
17.155	886.94	16.928	896.57	16.808	905.61	16.815	910.07	16.714	912.30
17.139	886.83	16.911	896.45	16.791	905.56	16.798	909.96	16.697	912.18
17.123	886.76	16.895	896.35	16.774	905.39	16.781	909.77	16.679	912.05
17.107	886.55	16.879	896.18	16.757	905.23	16.764	909.70	16.662	911.93
17.092	886.50	16.862	896.08	16.740	905.15	16.747	909.53	16.644	911.86
17.076	886.35	16.846	895.95	16.723	905.07	16.730	909.44	16.627	911.76
17.060	886.18	16.829	895.82	16.706	904.90	16.712	909.35	16.609	911.63
17.044	886.12	16.813	895.67	16.689	904.74	16.695	909.17	16.591	911.50
17.028	885.99	16.796	895.59	16.672	904.66	16.678	909.05	16.574	911.38
17.012	885.85	16.780	895.48	16.655	904.58	16.661	908.94	16.556	911.25
16.997	885.73	16.764	895.30	16.638	904.43	16.644	908.81	16.539	911.12
16.981	885.60	16.747	895.23	16.620	904.31	16.627	908.69	16.521	911.00
16.965	885.47	16.731	895.12	16.603	904.17	16.610	908.58	16.504	910.94
16.949	885.34	16.714	894.95	16.586	904.05	16.593	908.46	16.486	910.81
16.933	885.21	16.698	894.81	16.569	903.91	16.576	908.35	16.468	910.68
16.918	885.10	16.681	894.72	16.552	903.82	16.559	908.23	16.451	910.56
16.902	885.04	16.665	894.58	16.535	903.69	16.542	908.10	16.433	910.44
16.886	884.91	16.649	894.51	16.518	903.59	16.525	907.98	16.416	910.32
16.870	884.78	16.632	894.36	16.501	903.43	16.508	907.86	16.398	910.19
16.854	884.65	16.616	894.21	16.484	903.32	16.491	907.72	16.381	910.06
16.838	884.51	16.599	894.07	16.467	903.20	16.474	907.65	16.363	909.94
16.823	884.38	16.583	893.94	16.450	903.03	16.457	907.47	16.345	909.87
16.807	884.25	16.566	893.80	16.433	902.94	16.440	907.33	16.328	909.74
16.791	884.12	16.550	893.71	16.416	902.82	16.423	907.21	16.310	909.61
16.775	883.99	16.534	893.54	16.399	902.68	16.406	907.09	16.293	909.48
16.759	883.91	16.517	893.46	16.381	902.53	16.389	906.98	16.275	909.35
16.744	883.73	16.501	893.30	16.364	902.43	16.372	906.87	16.258	909.22
16.728	883.59	16.484	893.16	16.347	902.36	16.355	906.75	16.240	909.08
16.712	883.53	16.468	893.05	16.330	902.15	16.338	906.63	16.222	909.00

16.696	883.39	16.451	892.90	16.313	902.04	16.321	906.45	16.205	908.90
16.680	883.26	16.435	892.85	16.296	901.95	16.304	906.32	16.187	908.77
16.664	883.13	16.419	892.72	16.279	901.78	16.287	906.25	16.170	908.63
16.649	883.00	16.402	892.55	16.262	901.68	16.270	906.12	16.152	908.50
16.633	882.86	16.386	892.44	16.245	901.53	16.253	905.96	16.135	908.37
16.617	882.73	16.369	892.28	16.228	901.43	16.236	905.83	16.117	908.28
16.601	882.60	16.353	892.21	16.211	901.29	16.218	905.71	16.099	908.18
16.585	882.50	16.336	892.08	16.194	901.17	16.201	905.59	16.082	908.05
16.570	882.39	16.320	891.91	16.177	901.06	16.184	905.46	16.064	907.91
16.554	882.24	16.304	891.81	16.160	900.94	16.167	905.34	16.047	907.77
16.538	882.11	16.287	891.67	16.143	900.80	16.150	905.22	16.029	907.69
16.522	881.98	16.271	891.55	16.125	900.65	16.133	905.09	16.012	907.57
16.506	881.84	16.254	891.42	16.108	900.52	16.116	904.97	15.994	907.43
16.490	881.74	16.238	891.25	16.091	900.39	16.099	904.84	15.976	907.29
16.475	881.63	16.221	891.19	16.074	900.26	16.082	904.72	15.959	907.16
16.459	881.43	16.205	891.05	16.057	900.16	16.065	904.59	15.941	907.02
16.443	881.36	16.189	890.88	16.040	900.05	16.048	904.46	15.924	906.94
16.427	881.25	16.172	890.79	16.023	899.92	16.031	904.34	15.906	906.82
16.411	881.12	16.156	890.68	16.006	899.76	16.014	904.22	15.889	906.68
16.396	880.99	16.139	890.52	15.989	899.63	15.997	904.09	15.871	906.54
16.380	880.86	16.123	890.39	15.972	899.50	15.980	903.97	15.853	906.39
16.364	880.71	16.106	890.25	15.955	899.37	15.963	903.82	15.836	906.25
16.348	880.58	16.090	890.11	15.938	899.27	15.946	903.71	15.818	906.11
16.332	880.44	16.074	890.03	15.921	899.16	15.929	903.59	15.801	906.04
16.316	880.34	16.057	889.89	15.904	899.01	15.912	903.47	15.783	905.91
16.301	880.24	16.041	889.78	15.887	898.90	15.895	903.34	15.766	905.78
16.285	880.09	16.024	889.61	15.869	898.71	15.878	903.21	15.748	905.64
16.269	879.96	16.008	889.46	15.852	898.61	15.861	903.09	15.730	905.49
16.253	879.82	15.991	889.37	15.835	898.51	15.844	902.96	15.713	905.36
16.237	879.69	15.975	889.25	15.818	898.38	15.827	902.77	15.695	905.28
16.222	879.55	15.959	889.08	15.801	898.26	15.810	902.63	15.678	905.14
16.206	879.41	15.942	888.96	15.784	898.05	15.793	902.50	15.660	904.98
16.190	879.27	15.926	888.82	15.767	897.95	15.776	902.38	15.643	904.83
16.174	879.13	15.909	888.71	15.750	897.81	15.759	902.25	15.625	904.74
16.158	879.06	15.893	888.57	15.733	897.71	15.742	902.12	15.607	904.61
16.142	878.93	15.876	888.44	15.716	897.59	15.725	901.99	15.590	904.46
16.127	878.78	15.860	888.31	15.699	897.46	15.707	901.86	15.572	904.35
16.111	878.64	15.844	888.14	15.682	897.30	15.690	901.73	15.555	904.24
16.095	878.50	15.827	888.08	15.665	897.14	15.673	901.60	15.537	904.09
16.079	878.35	15.811	887.95	15.648	897.02	15.656	901.52	15.520	903.94
16.063	878.25	15.794	887.82	15.630	896.94	15.639	901.34	15.502	903.80
16.048	878.09	15.778	887.72	15.613	896.81	15.622	901.22	15.484	903.71
16.032	877.99	15.761	887.57	15.596	896.64	15.605	901.06	15.467	903.56
16.016	877.84	15.745	887.41	15.579	896.49	15.588	900.93	15.449	903.41
16.000	877.69	15.729	887.30	15.562	896.40	15.571	900.80	15.432	903.33

15.984	877.57	15.712	887.16	15.545	896.25	15.554	900.66	15.414	903.17
15.968	877.48	15.696	887.05	15.528	896.12	15.537	900.56	15.397	903.02
15.953	877.33	15.679	886.94	15.511	895.99	15.520	900.42	15.379	902.93
15.937	877.19	15.663	886.81	15.494	895.84	15.503	900.33	15.361	902.79
15.921	877.04	15.646	886.67	15.477	895.73	15.486	900.19	15.344	902.64
15.905	876.90	15.630	886.51	15.460	895.58	15.469	900.06	15.326	902.48
15.889	876.75	15.614	886.40	15.443	895.48	15.452	899.93	15.309	902.35
15.874	876.68	15.597	886.21	15.426	895.34	15.435	899.78	15.291	902.25
15.858	876.53	15.581	886.10	15.409	895.20	15.418	899.65	15.274	902.12
15.842	876.38	15.564	885.98	15.392	895.01	15.401	899.52	15.256	901.96
15.826	876.23	15.548	885.87	15.374	894.88	15.384	899.38	15.239	901.82
15.810	876.08	15.531	885.72	15.357	894.76	15.367	899.26	15.221	901.71
15.794	875.96	15.515	885.54	15.340	894.63	15.350	899.12	15.203	901.54
15.779	875.88	15.499	885.42	15.323	894.51	15.333	898.98	15.186	901.41
15.763	875.71	15.482	885.33	15.306	894.35	15.316	898.84	15.168	901.29
15.747	875.55	15.466	885.17	15.289	894.20	15.299	898.70	15.151	901.13
15.731	875.41	15.449	885.04	15.272	894.08	15.282	898.56	15.133	900.99
15.715	875.32	15.433	884.87	15.255	893.95	15.265	898.42	15.116	900.87
15.700	875.19	15.416	884.77	15.238	893.84	15.248	898.29	15.098	900.75
15.684	874.98	15.400	884.61	15.221	893.70	15.231	898.14	15.080	900.61
15.668	874.90	15.384	884.46	15.204	893.53	15.214	898.00	15.063	900.50
15.652	874.75	15.367	884.32	15.187	893.40	15.196	897.85	15.045	900.37
15.636	874.60	15.351	884.22	15.170	893.24	15.179	897.77	15.028	900.20
15.620	874.45	15.334	884.05	15.153	893.12	15.162	897.65	15.010	900.08
15.605	874.36	15.318	883.89	15.135	892.95	15.145	897.51	14.993	899.94
15.589	874.23	15.301	883.80	15.118	892.88	15.128	897.36	14.975	899.77
15.573	874.08	15.285	883.65	15.101	892.72	15.111	897.22	14.957	899.66
15.557	873.93	15.269	883.51	15.084	892.59	15.094	897.08	14.940	899.52
15.541	873.78	15.252	883.40	15.067	892.41	15.077	896.92	14.922	899.34
15.526	873.62	15.236	883.21	15.050	892.31	15.060	896.79	14.905	899.24
15.510	873.51	15.219	883.13	15.033	892.14	15.043	896.66	14.887	899.08
15.494	873.38	15.203	882.99	15.016	892.03	15.026	896.58	14.870	898.99
15.478	873.21	15.186	882.86	14.999	891.90	15.009	896.45	14.852	898.83
15.462	873.12	15.170	882.66	14.982	891.73	14.992	896.29	14.834	898.67
15.446	872.93	15.154	882.50	14.965	891.59	14.975	896.15	14.817	898.49
15.431	872.81	15.137	882.42	14.948	891.47	14.958	896.00	14.799	898.39
15.415	872.69	15.121	882.25	14.931	891.32	14.941	895.86	14.782	898.23
15.399	872.57	15.104	882.09	14.914	891.16	14.924	895.71	14.764	898.12
15.383	872.41	15.088	882.01	14.897	891.04	14.907	895.57	14.747	897.97
15.367	872.26	15.071	881.85	14.879	890.91	14.890	895.41	14.729	897.82
15.351	872.12	15.055	881.72	14.862	890.75	14.873	895.27	14.711	897.70
15.336	871.95	15.039	881.58	14.845	890.67	14.856	895.20	14.694	897.53
15.320	871.88	15.022	881.44	14.828	890.51	14.839	895.06	14.676	897.43
15.304	871.72	15.006	881.27	14.811	890.34	14.822	894.90	14.659	897.25
15.288	871.63	14.989	881.15	14.794	890.25	14.805	894.75	14.641	897.13

15.272	871.47	14.973	881.01	14.777	890.04	14.788	894.60	14.624	896.99
15.257	871.31	14.956	880.86	14.760	889.93	14.771	894.44	14.606	896.84
15.241	871.16	14.940	880.70	14.743	889.77	14.754	894.29	14.588	896.72
15.225	870.99	14.924	880.54	14.726	889.63	14.737	894.22	14.571	896.55
15.209	870.83	14.907	880.44	14.709	889.48	14.720	894.06	14.553	896.44
15.193	870.73	14.891	880.29	14.692	889.35	14.702	893.89	14.536	896.27
15.177	870.56	14.874	880.16	14.675	889.19	14.685	893.74	14.518	896.14
15.162	870.40	14.858	880.01	14.658	889.11	14.668	893.59	14.501	895.95
15.146	870.31	14.841	879.88	14.641	888.94	14.651	893.49	14.483	895.82
15.130	870.19	14.825	879.74	14.623	888.79	14.634	893.35	14.465	895.72
15.114	869.98	14.809	879.57	14.606	888.62	14.617	893.18	14.448	895.55
15.098	869.89	14.792	879.47	14.589	888.46	14.600	893.01	14.430	895.41
15.083	869.72	14.776	879.31	14.572	888.38	14.583	892.92	14.413	895.26
15.067	869.58	14.759	879.15	14.555	888.22	14.566	892.74	14.395	895.10
15.051	869.47	14.743	879.00	14.538	888.08	14.549	892.63	14.378	894.95
15.035	869.29	14.726	878.91	14.521	887.94	14.532	892.47	14.360	894.82
15.019	869.17	14.710	878.74	14.504	887.80	14.515	892.32	14.342	894.64
15.003	869.04	14.694	878.57	14.487	887.64	14.498	892.24	14.325	894.51
14.988	868.86	14.677	878.48	14.470	887.50	14.481	892.09	14.307	894.36
14.972	868.70	14.661	878.33	14.453	887.31	14.464	891.93	14.290	894.26
14.956	868.60	14.644	878.16	14.436	887.20	14.447	891.78	14.272	894.08
14.940	868.44	14.628	878.02	14.419	887.04	14.430	891.62	14.255	893.96
14.924	868.26	14.611	877.86	14.402	886.90	14.413	891.47	14.237	893.80
14.909	868.17	14.595	877.75	14.384	886.77	14.396	891.30	14.219	893.64
14.893	868.00	14.579	877.57	14.367	886.59	14.379	891.23	14.202	893.51
14.877	867.88	14.562	877.43	14.350	886.50	14.362	891.07	14.184	893.32
14.861	867.73	14.546	877.26	14.333	886.33	14.345	890.90	14.167	893.18
14.845	867.56	14.529	877.13	14.316	886.18	14.328	890.78	14.149	893.04
14.829	867.39	14.513	877.02	14.299	886.05	14.311	890.64	14.132	892.94
14.814	867.29	14.496	876.85	14.282	885.88	14.294	890.49	14.114	892.75
14.798	867.13	14.480	876.72	14.265	885.78	14.277	890.38	14.096	892.64
14.782	866.96	14.463	876.56	14.248	885.60	14.260	890.21	14.079	892.48
14.766	866.84	14.447	876.41	14.231	885.48	14.243	890.06	14.061	892.29
14.750	866.73	14.431	876.25	14.214	885.34	14.226	889.90	14.044	892.16
14.735	866.57	14.414	876.12	14.197	885.15	14.209	889.79	14.026	891.99
14.719	866.39	14.398	875.95	14.180	885.02	14.191	889.65	14.009	891.88
14.703	866.29	14.381	875.83	14.163	884.87	14.174	889.50	13.991	891.69
14.687	866.12	14.365	875.71	14.146	884.70	14.157	889.35	13.973	891.58
14.671	865.99	14.348	875.55	14.128	884.55	14.140	889.18	13.956	891.40
14.655	865.82	14.332	875.38	14.111	884.40	14.123	889.03	13.938	891.25
14.640	865.65	14.316	875.22	14.094	884.29	14.106	888.88	13.921	891.08
14.624	865.54	14.299	875.08	14.077	884.12	14.089	888.80	13.903	890.96
14.608	865.43	14.283	874.97	14.060	883.96	14.072	888.63	13.886	890.77
14.592	865.27	14.266	874.79	14.043	883.88	14.055	888.48	13.868	890.66
14.576	865.08	14.250	874.65	14.026	883.63	14.038	888.30	13.850	890.53

14.561	864.95	14.233	874.51	14.009	883.53	14.021	888.14	13.833	890.35
14.545	864.80	14.217	874.32	13.992	883.39	14.004	888.03	13.815	890.16
14.529	864.61	14.201	874.20	13.975	883.22	13.987	887.89	13.798	890.05
14.513	864.52	14.184	874.07	13.958	883.06	13.970	887.72	13.780	889.88
14.497	864.34	14.168	873.91	13.941	882.95	13.953	887.57	13.763	889.73
14.481	864.15	14.151	873.75	13.924	882.81	13.936	887.47	13.745	889.58
14.466	864.04	14.135	873.61	13.907	882.61	13.919	887.31	13.727	889.44
14.450	863.89	14.118	873.47	13.889	882.49	13.902	887.15	13.710	889.24
14.434	863.74	14.102	873.29	13.872	882.32	13.885	886.98	13.692	889.12
14.418	863.56	14.086	873.11	13.855	882.16	13.868	886.80	13.675	888.93
14.402	863.46	14.069	873.01	13.838	882.02	13.851	886.71	13.657	888.81
14.387	863.27	14.053	872.85	13.821	881.89	13.834	886.54	13.640	888.69
14.371	863.15	14.036	872.70	13.804	881.75	13.817	886.41	13.622	888.49
14.355	862.96	14.020	872.55	13.787	881.54	13.800	886.28	13.604	888.32
14.339	862.84	14.003	872.36	13.770	881.40	13.783	886.10	13.587	888.17
14.323	862.67	13.987	872.21	13.753	881.26	13.766	885.94	13.569	888.05
14.307	862.51	13.971	872.09	13.736	881.09	13.749	885.82	13.552	887.92
14.292	862.39	13.954	871.95	13.719	880.95	13.732	885.65	13.534	887.72
14.276	862.21	13.938	871.76	13.702	880.77	13.715	885.46	13.517	887.59
14.260	862.08	13.921	871.62	13.685	880.60	13.697	885.37	13.499	887.40
14.244	861.90	13.905	871.53	13.668	880.46	13.680	885.18	13.481	887.28
14.228	861.71	13.888	871.31	13.651	880.28	13.663	885.08	13.464	887.11
14.213	861.61	13.872	871.16	13.633	880.18	13.646	884.88	13.446	886.97
14.197	861.41	13.856	871.01	13.616	880.03	13.629	884.71	13.429	886.76
14.181	861.31	13.839	870.90	13.599	879.87	13.612	884.59	13.411	886.64
14.165	861.13	13.823	870.72	13.582	879.70	13.595	884.40	13.394	886.43
14.149	860.99	13.806	870.60	13.565	879.59	13.578	884.29	13.376	886.31
14.133	860.85	13.790	870.39	13.548	879.38	13.561	884.10	13.359	886.15
14.118	860.70	13.773	870.25	13.531	879.23	13.544	883.98	13.341	885.98
14.102	860.51	13.757	870.08	13.514	879.12	13.527	883.81	13.323	885.82
14.086	860.41	13.741	869.98	13.497	878.96	13.510	883.68	13.306	885.64
14.070	860.24	13.724	869.80	13.480	878.80	13.493	883.53	13.288	885.52
14.054	860.05	13.708	869.64	13.463	878.63	13.476	883.37	13.271	885.38
14.039	859.96	13.691	869.44	13.446	878.48	13.459	883.17	13.253	885.18
14.023	859.79	13.675	869.33	13.429	878.31	13.442	883.06	13.236	885.05
14.007	859.61	13.658	869.16	13.412	878.15	13.425	882.92	13.218	884.85
13.991	859.42	13.642	869.00	13.395	877.98	13.408	882.75	13.200	884.70
13.975	859.33	13.626	868.81	13.377	877.82	13.391	882.55	13.183	884.52
13.959	859.15	13.609	868.67	13.360	877.72	13.374	882.45	13.165	884.38
13.944	859.03	13.593	868.51	13.343	877.53	13.357	882.27	13.148	884.25
13.928	858.88	13.576	868.36	13.326	877.38	13.340	882.12	13.130	884.06
13.912	858.70	13.560	868.18	13.309	877.24	13.323	882.00	13.113	883.90
13.896	858.52	13.543	868.02	13.292	877.07	13.306	881.80	13.095	883.76
13.880	858.35	13.527	867.85	13.275	876.92	13.289	881.61	13.077	883.57
13.865	858.25	13.511	867.71	13.258	876.76	13.272	881.53	13.060	883.41

13.849	858.07	13.494	867.55	13.241	876.59	13.255	881.35	13.042	883.27
13.833	857.88	13.478	867.36	13.224	876.43	13.238	881.21	13.025	883.13
13.817	857.72	13.461	867.25	13.207	876.27	13.221	880.99	13.007	882.92
13.801	857.60	13.445	867.12	13.190	876.14	13.204	880.86	12.990	882.77
13.785	857.43	13.428	866.94	13.173	875.96	13.186	880.72	12.972	882.64
13.770	857.28	13.412	866.78	13.156	875.78	13.169	880.55	12.954	882.42
13.754	857.14	13.396	866.63	13.138	875.66	13.152	880.38	12.937	882.28
13.738	856.96	13.379	866.46	13.121	875.45	13.135	880.26	12.919	882.11
13.722	856.79	13.363	866.32	13.104	875.30	13.118	880.06	12.902	881.93
13.706	856.67	13.346	866.14	13.087	875.18	13.101	879.94	12.884	881.79
13.691	856.47	13.330	866.01	13.070	875.02	13.084	879.74	12.867	881.60
13.675	856.34	13.313	865.81	13.053	874.87	13.067	879.61	12.849	881.43
13.659	856.17	13.297	865.64	13.036	874.67	13.050	879.44	12.831	881.28
13.643	855.97	13.281	865.50	13.019	874.55	13.033	879.32	12.814	881.14
13.627	855.87	13.264	865.32	13.002	874.39	13.016	879.10	12.796	880.99
13.611	855.67	13.248	865.16	12.985	874.22	12.999	878.94	12.779	880.77
13.596	855.57	13.231	864.99	12.968	874.06	12.982	878.82	12.761	880.62
13.580	855.35	13.215	864.84	12.951	873.89	12.965	878.67	12.744	880.48
13.564	855.21	13.198	864.66	12.934	873.73	12.948	878.50	12.726	880.25
13.548	855.02	13.182	864.51	12.917	873.59	12.931	878.32	12.708	880.10
13.532	854.91	13.166	864.35	12.900	873.45	12.914	878.17	12.691	879.96
13.517	854.71	13.149	864.21	12.882	873.31	12.897	878.03	12.673	879.81
13.501	854.53	13.133	864.04	12.865	873.11	12.880	877.85	12.656	879.63
13.485	854.40	13.116	863.84	12.848	872.94	12.863	877.68	12.638	879.45
13.469	854.22	13.100	863.70	12.831	872.76	12.846	877.54	12.621	879.30
13.453	854.10	13.083	863.53	12.814	872.59	12.829	877.34	12.603	879.07
13.437	853.90	13.067	863.35	12.797	872.50	12.812	877.19	12.585	878.93
13.422	853.70	13.051	863.19	12.780	872.26	12.795	877.03	12.568	878.78
13.406	853.58	13.034	863.05	12.763	872.14	12.778	876.89	12.550	878.63
13.390	853.42	13.018	862.86	12.746	871.94	12.761	876.71	12.533	878.47
13.374	853.25	13.001	862.73	12.729	871.77	12.744	876.54	12.515	878.23
13.358	853.04	12.985	862.57	12.712	871.66	12.727	876.37	12.498	878.07
13.343	852.90	12.968	862.37	12.695	871.46	12.710	876.22	12.480	877.91
13.327	852.73	12.952	862.18	12.678	871.30	12.693	876.08	12.462	877.76
13.311	852.57	12.936	862.04	12.661	871.12	12.675	875.86	12.445	877.58
13.295	852.37	12.919	861.88	12.643	870.95	12.658	875.72	12.427	877.37
13.279	852.24	12.903	861.69	12.626	870.78	12.641	875.56	12.410	877.22
13.263	852.03	12.886	861.55	12.609	870.70	12.624	875.42	12.392	877.06
13.248	851.91	12.870	861.39	12.592	870.46	12.607	875.20	12.375	876.90
13.232	851.70	12.853	861.23	12.575	870.37	12.590	875.06	12.357	876.75
13.216	851.57	12.837	861.06	12.558	870.15	12.573	874.89	12.339	876.51
13.200	851.36	12.821	860.90	12.541	869.97	12.556	874.75	12.322	876.35
13.184	851.25	12.804	860.72	12.524	869.81	12.539	874.57	12.304	876.19
13.169	851.04	12.788	860.57	12.507	869.70	12.522	874.43	12.287	876.03
13.153	850.83	12.771	860.41	12.490	869.47	12.505	874.23	12.269	875.87

13.137	850.70	12.755	860.24	12.473	869.37	12.488	874.06	12.252	875.67
13.121	850.55	12.738	860.07	12.456	869.15	12.471	873.90	12.234	875.50
13.105	850.36	12.722	859.83	12.439	868.98	12.454	873.73	12.216	875.29
13.089	850.19	12.706	859.68	12.422	868.82	12.437	873.55	12.199	875.12
13.074	850.00	12.689	859.51	12.405	868.68	12.420	873.38	12.181	874.97
13.058	849.87	12.673	859.34	12.387	868.55	12.403	873.19	12.164	874.78
13.042	849.63	12.656	859.18	12.370	868.42	12.386	873.02	12.146	874.56
13.026	849.50	12.640	858.98	12.353	868.17	12.369	872.93	12.129	874.40
13.010	849.29	12.623	858.78	12.336	868.02	12.352	872.73	12.111	874.23
12.995	849.16	12.607	858.62	12.319	868.02	12.335	872.56	12.093	874.07
12.979	848.95	12.591	858.47	12.302	867.67	12.318	872.39	12.076	873.91
12.963	848.80	12.574	858.29	12.285	867.47	12.301	872.18	12.058	873.73
12.947	848.65	12.558	858.15	12.268	867.27	12.284	872.03	12.041	873.58
12.931	848.43	12.541	857.96	12.251	867.21	12.267	871.88	12.023	873.35
12.915	848.29	12.525	857.77	12.234	866.94	12.250	871.73	12.006	873.18
12.900	848.08	12.508	857.61	12.217	866.88	12.233	871.50	11.988	873.00
12.884	847.90	12.492	857.46	12.200	866.62	12.216	871.38	11.970	872.78
12.868	847.73	12.476	857.26	12.183	866.45	12.199	871.19	11.953	872.61
12.852	847.57	12.459	857.06	12.166	866.28	12.181	871.01	11.935	872.43
12.836	847.35	12.443	856.89	12.149	866.06	12.164	870.83	11.918	872.26
12.821	847.20	12.426	856.73	12.131	865.88	12.147	870.66	11.900	872.08
12.805	847.06	12.410	856.53	12.114	865.76	12.130	870.49	11.883	871.90
12.789	846.87	12.393	856.38	12.097	865.58	12.113	870.33	11.865	871.74
12.773	846.69	12.377	856.18	12.080	865.38	12.096	870.16	11.847	871.56
12.757	846.51	12.361	855.99	12.063	865.22	12.079	869.98	11.830	871.38
12.741	846.32	12.344	855.82	12.046	864.98	12.062	869.76	11.812	871.18
12.726	846.15	12.328	855.66	12.029	864.81	12.045	869.62	11.795	870.96
12.710	845.97	12.311	855.45	12.012	864.65	12.028	869.41	11.777	870.78
12.694	845.77	12.295	855.33	11.995	864.46	12.011	869.24	11.760	870.61
12.678	845.60	12.278	855.09	11.978	864.29	11.994	869.10	11.742	870.44
12.662	845.45	12.262	854.94	11.961	864.07	11.977	868.92	11.724	870.27
12.647	845.24	12.246	854.76	11.944	863.91	11.960	868.74	11.707	870.09
12.631	845.05	12.229	854.54	11.927	863.90	11.943	868.59	11.689	869.84
12.615	844.90	12.213	854.35	11.910	863.58	11.926	868.38	11.672	869.68
12.599	844.71	12.196	854.19	11.892	863.56	11.909	868.17	11.654	869.52
12.583	844.53	12.180	853.98	11.875	863.35	11.892	868.02	11.637	869.30
12.567	844.34	12.163	853.79	11.858	863.01	11.875	867.85	11.619	869.20
12.552	844.19	12.147	853.65	11.841	862.84	11.858	867.66	11.601	868.93
12.536	843.97	12.131	853.45	11.824	862.64	11.841	867.45	11.584	868.75
12.520	843.80	12.114	853.24	11.807	862.44	11.824	867.30	11.566	868.60
12.504	843.62	12.098	853.06	11.790	862.27	11.807	867.11	11.549	868.38
12.488	843.44	12.081	852.88	11.773	862.06	11.790	866.97	11.531	868.26
12.473	843.23	12.065	852.72	11.756	861.92	11.773	866.79	11.514	868.02
12.457	843.10	12.048	852.53	11.739	862.29	11.756	866.55	11.496	867.83
12.441	842.87	12.032	852.37	11.722	862.00	11.739	866.39	11.479	867.65

12.425	842.70	12.016	852.14	11.705	861.44	11.722	866.16	11.461	867.47
12.409	842.53	11.999	851.98	11.688	861.13	11.705	866.00	11.443	867.29
12.393	842.34	11.983	851.81	11.671	860.96	11.688	865.82	11.426	867.11
12.378	842.16	11.966	851.59	11.654	860.77	11.670	865.65	11.408	866.92
12.362	841.97	11.950	851.40	11.636	860.60	11.653	865.46	11.391	866.73
12.346	841.78	11.933	851.22	11.619	860.39	11.636	865.24	11.373	866.55
12.330	841.61	11.917	851.00	11.602	860.20	11.619	865.10	11.356	866.36
12.314	841.43	11.901	850.83	11.585	860.03	11.602	864.87	11.338	866.16
12.299	841.26	11.884	850.67	11.568	859.82	11.585	864.67	11.320	865.97
12.283	841.05	11.868	850.42	11.551	859.78	11.568	864.49	11.303	865.78
12.267	840.82	11.851	850.25	11.534	859.80	11.551	864.34	11.285	865.58
12.251	840.64	11.835	850.02	11.517	859.23	11.534	864.18	11.268	865.40
12.235	840.45	11.818	849.85	11.500	859.00	11.517	863.93	11.250	865.21
12.219	840.24	11.802	849.72	11.483	858.83	11.500	863.77	11.233	865.01
12.204	840.08	11.786	849.52	11.466	858.67	11.483	863.60	11.215	864.83
12.188	839.91	11.769	849.31	11.449	858.45	11.466	863.38	11.197	864.64
12.172	839.73	11.753	849.11	11.432	858.26	11.449	863.22	11.180	864.43
12.156	839.47	11.736	848.94	11.415	858.68	11.432	863.03	11.162	864.24
12.140	839.31	11.720	848.78	11.397	857.89	11.415	862.82	11.145	864.05
12.125	839.07	11.703	848.54	11.380	857.69	11.398	862.67	11.127	863.84
12.109	838.97	11.687	848.38	11.363	858.08	11.381	862.44	11.110	863.63
12.093	838.74	11.671	848.20	11.346	857.29	11.364	862.24	11.092	863.52
12.077	838.55	11.654	847.97	11.329	857.11	11.347	862.10	11.074	863.26
12.061	838.35	11.638	847.82	11.312	856.95	11.330	861.90	11.057	863.06
12.045	838.18	11.621	847.64	11.295	856.70	11.313	861.72	11.039	862.86
12.030	837.99	11.605	847.41	11.278	856.53	11.296	861.48	11.022	862.72
12.014	837.80	11.588	847.23	11.261	856.68	11.279	861.30	11.004	862.46
11.998	837.53	11.572	847.07	11.244	856.13	11.262	861.12	10.987	862.34
11.982	837.35	11.556	846.82	11.227	855.89	11.245	860.94	10.969	862.13
11.966	837.20	11.539	846.65	11.210	855.72	11.228	860.75	10.951	861.92
11.951	837.02	11.523	846.41	11.193	855.52	11.211	860.49	10.934	861.71
11.935	836.85	11.506	846.25	11.176	855.31	11.194	860.33	10.916	861.51
11.919	836.70	11.490	846.08	11.159	855.15	11.176	860.18	10.899	861.31
11.903	836.47	11.473	845.86	11.141	855.58	11.159	859.93	10.881	861.12
11.887	836.30	11.457	845.68	11.124	854.74	11.142	859.75	10.864	860.91
11.871	836.09	11.441	845.45	11.107	854.58	11.125	859.57	10.846	860.71
11.856	835.94	11.424	845.27	11.090	854.33	11.108	859.37	10.828	860.51
11.840	835.79	11.408	845.02	11.073	854.17	11.091	859.17	10.811	860.29
11.824	835.57	11.391	844.86	11.056	853.92	11.074	858.98	10.793	860.08
11.808	835.38	11.375	844.63	11.039	853.86	11.057	858.80	10.776	859.93
11.792	835.19	11.358	844.45	11.022	853.51	11.040	858.60	10.758	859.71
11.777	834.98	11.342	844.22	11.005	853.32	11.023	858.44	10.741	859.49
11.761	834.80	11.326	844.04	10.988	853.23	11.006	858.18	10.723	859.28
11.745	834.56	11.309	843.88	10.971	852.94	10.989	858.02	10.705	859.05
11.729	834.42	11.293	843.65	10.954	852.73	10.972	857.84	10.688	858.87

11.713	834.27	11.276	843.46	10.937	852.53	10.955	857.65	10.670	858.69
11.697	834.03	11.260	843.22	10.920	852.37	10.938	857.43	10.653	858.46
11.682	833.89	11.243	843.06	10.903	852.16	10.921	857.22	10.635	858.24
11.666	833.69	11.227	842.81	10.885	851.96	10.904	857.03	10.618	858.03
11.650	833.45	11.211	842.65	10.868	851.71	10.887	856.82	10.600	857.81
11.634	833.27	11.194	842.43	10.851	851.55	10.870	856.62	10.582	857.67
11.618	833.10	11.178	842.24	10.834	851.34	10.853	856.44	10.565	857.45
11.603	832.89	11.161	841.99	10.817	851.33	10.836	856.23	10.547	857.24
11.587	832.68	11.145	841.81	10.800	850.93	10.819	856.07	10.530	857.02
11.571	832.49	11.128	841.58	10.783	850.72	10.802	855.82	10.512	856.78
11.555	832.30	11.112	841.37	10.766	850.52	10.785	855.66	10.495	856.56
11.539	832.09	11.096	841.17	10.749	850.32	10.768	855.44	10.477	856.41
11.523	831.93	11.079	840.95	10.732	850.20	10.751	855.25	10.459	856.17
11.508	831.76	11.063	840.77	10.715	849.91	10.734	855.04	10.442	855.94
11.492	831.53	11.046	840.52	10.698	849.66	10.717	854.84	10.424	855.78
11.476	831.36	11.030	840.36	10.681	849.49	10.700	854.62	10.407	855.55
11.460	831.11	11.013	840.17	10.664	849.26	10.683	854.43	10.389	855.33
11.444	830.87	10.997	839.95	10.646	849.07	10.665	854.26	10.372	855.10
11.429	830.69	10.981	839.75	10.629	849.21	10.648	854.02	10.354	854.86
11.413	830.52	10.964	839.54	10.612	848.60	10.631	853.85	10.336	854.69
11.397	830.27	10.948	839.34	10.595	848.38	10.614	853.61	10.319	854.45
11.381	830.09	10.931	839.13	10.578	848.19	10.597	853.43	10.301	854.29
11.365	829.83	10.915	838.88	10.561	847.95	10.580	853.21	10.284	854.04
11.349	829.69	10.898	838.68	10.544	848.04	10.563	852.97	10.266	853.81
11.334	829.47	10.882	838.47	10.527	848.07	10.546	852.79	10.249	853.58
11.318	829.25	10.866	838.23	10.510	847.37	10.529	852.55	10.231	853.35
11.302	829.05	10.849	838.01	10.493	847.13	10.512	852.36	10.213	853.20
11.286	828.84	10.833	837.82	10.476	846.88	10.495	852.14	10.196	852.95
11.270	828.62	10.816	837.57	10.459	846.72	10.478	851.91	10.178	852.73
11.255	828.45	10.800	837.38	10.442	846.47	10.461	851.72	10.161	852.51
11.239	828.20	10.783	837.16	10.425	846.23	10.444	851.53	10.143	852.32
11.223	828.00	10.767	836.92	10.408	846.06	10.427	851.28	10.126	852.09
11.207	827.75	10.751	836.76	10.390	845.82	10.410	851.08	10.108	851.82
11.191	827.56	10.734	836.51	10.373	845.64	10.393	850.91	10.090	851.59
11.175	827.37	10.718	836.27	10.356	845.41	10.376	850.67	10.073	851.42
11.160	827.19	10.701	836.10	10.339	845.36	10.359	850.44	10.055	851.17
11.144	826.91	10.685	835.85	10.322	844.98	10.342	850.29	10.038	851.01
11.128	826.72	10.668	835.66	10.305	844.95	10.325	850.04	10.020	850.78
11.112	826.51	10.652	835.45	10.288	844.51	10.308	849.85	10.003	850.54
11.096	826.29	10.636	835.20	10.271	844.29	10.291	849.68	9.985	850.28
11.081	826.03	10.619	834.95	10.254	844.10	10.274	849.43	9.967	850.08
11.065	825.83	10.603	834.79	10.237	843.85	10.257	849.26	9.950	849.87
11.049	825.61	10.586	834.55	10.220	843.61	10.240	849.05	9.932	849.61
11.033	825.40	10.570	834.30	10.203	843.44	10.223	848.80	9.915	849.43
11.017	825.16	10.553	834.08	10.186	843.22	10.206	848.62	9.897	849.18

11.001	824.92	10.537	833.88	10.169	843.29	10.189	848.38	9.880	848.97
10.986	824.72	10.521	833.65	10.151	843.02	10.172	848.20	9.862	848.74
10.970	824.53	10.504	833.40	10.134	842.46	10.154	847.96	9.844	848.48
10.954	824.25	10.488	833.20	10.117	842.75	10.137	847.79	9.827	848.30
10.938	824.05	10.471	832.97	10.100	842.48	10.120	847.56	9.809	848.03
10.922	823.86	10.455	832.74	10.083	842.30	10.103	847.31	9.792	847.85
10.907	823.60	10.438	832.50	10.066	842.03	10.086	847.09	9.774	847.55
10.891	823.40	10.422	832.25	10.049	841.82	10.069	846.86	9.757	847.36
10.875	823.11	10.406	832.09	10.032	841.59	10.052	846.69	9.739	847.16
10.859	822.98	10.389	831.84	10.015	841.32	10.035	846.42	9.721	846.88
10.843	822.69	10.373	831.60	9.998	841.13	10.018	846.20	9.704	846.67
10.827	822.48	10.356	831.35	9.981	840.86	10.001	846.00	9.686	846.40
10.812	822.27	10.340	831.11	9.964	840.65	9.984	845.80	9.669	846.21
10.796	822.05	10.323	830.86	9.947	840.40	9.967	845.54	9.651	845.98
10.780	821.81	10.307	830.70	9.930	840.14	9.950	845.34	9.634	845.72
10.764	821.53	10.291	830.43	9.913	839.88	9.933	845.10	9.616	845.51
10.748	821.31	10.274	830.21	9.895	839.70	9.916	844.88	9.599	845.22
10.733	821.11	10.258	829.96	9.878	839.46	9.899	844.66	9.581	845.02
10.717	820.84	10.241	829.72	9.861	839.19	9.882	844.44	9.563	844.72
10.701	820.66	10.225	829.54	9.844	838.94	9.865	844.23	9.546	844.49
10.685	820.34	10.208	829.31	9.827	838.76	9.848	843.99	9.528	844.25
10.669	820.20	10.192	829.06	9.810	838.48	9.831	843.76	9.511	844.03
10.653	819.97	10.176	828.82	9.793	838.28	9.814	843.57	9.493	843.80
10.638	819.70	10.159	828.57	9.776	837.99	9.797	843.30	9.476	843.59
10.622	819.45	10.143	828.32	9.759	837.78	9.780	843.03	9.458	843.30
10.606	819.22	10.126	828.09	9.742	837.51	9.763	842.83	9.440	843.07
10.590	819.00	10.110	827.83	9.725	837.28	9.746	842.57	9.423	842.82
10.574	818.77	10.093	827.67	9.708	837.03	9.729	842.36	9.405	842.62
10.559	818.53	10.077	827.43	9.691	836.77	9.712	842.14	9.388	842.33
10.543	818.30	10.061	827.18	9.674	836.57	9.695	841.90	9.370	842.06
10.527	818.05	10.044	826.93	9.657	836.28	9.678	841.66	9.353	841.82
10.511	817.82	10.028	826.75	9.639	836.05	9.660	841.41	9.335	841.58
10.495	817.58	10.011	826.44	9.622	835.84	9.643	841.20	9.317	841.35
10.479	817.34	9.995	826.20	9.605	835.53	9.626	840.96	9.300	841.12
10.464	817.09	9.978	826.03	9.588	835.30	9.609	840.78	9.282	840.81
10.448	816.81	9.962	825.84	9.571	835.04	9.592	840.51	9.265	840.59
10.432	816.57	9.946	825.61	9.554	834.77	9.575	840.28	9.247	840.35
10.416	816.39	9.929	825.42	9.537	834.33	9.558	840.02	9.230	840.07
10.400	816.13	9.913	825.18	9.520	834.31	9.541	839.76	9.212	839.83
10.385	815.89	9.896	824.94	9.503	834.03	9.524	839.55	9.194	839.58
10.369	815.56	9.880	824.78	9.486	833.78	9.507	839.31	9.177	839.33
10.353	815.32	9.863	824.54	9.469	833.51	9.490	839.05	9.159	839.06
10.337	815.16	9.847	824.30	9.452	833.28	9.473	838.79	9.142	838.81
10.321	814.84	9.831	824.05	9.435	833.04	9.456	838.54	9.124	838.56
10.305	814.60	9.814	823.80	9.418	832.76	9.439	838.31	9.107	838.29

10.290	814.40	9.798	823.60	9.400	832.48	9.422	838.10	9.089	838.02
10.274	814.11	9.781	823.36	9.383	832.23	9.405	837.85	9.071	837.78
10.258	813.88	9.765	823.11	9.366	831.98	9.388	837.59	9.054	837.54
10.242	813.61	9.748	822.85	9.349	831.73	9.371	837.38	9.036	837.29
10.226	813.36	9.732	822.68	9.332	831.48	9.354	837.16	9.019	837.02
10.211	813.09	9.716	822.37	9.315	831.23	9.337	836.86	9.001	836.76
10.195	812.89	9.699	822.12	9.298	830.95	9.320	836.60	8.984	836.50
10.179	812.64	9.683	821.94	9.281	830.70	9.303	836.34	8.966	836.24
10.163	812.29	9.666	821.70	9.264	830.43	9.286	836.14	8.948	835.95
10.147	812.12	9.650	821.46	9.247	830.17	9.269	835.87	8.931	835.70
10.131	811.86	9.633	821.21	9.230	829.85	9.252	835.66	8.913	835.45
10.116	811.60	9.617	820.95	9.213	829.64	9.235	835.34	8.896	835.15
10.100	811.33	9.601	820.68	9.196	829.36	9.218	835.12	8.878	834.88
10.084	811.05	9.584	820.41	9.179	829.08	9.201	834.88	8.861	834.60
10.068	810.83	9.568	820.13	9.162	828.80	9.184	834.62	8.843	834.38
10.052	810.54	9.551	819.86	9.144	828.60	9.167	834.37	8.825	834.10
10.037	810.27	9.535	819.67	9.127	828.27	9.149	834.08	8.808	833.81
10.021	810.02	9.518	819.40	9.110	828.05	9.132	833.84	8.790	833.57
10.005	809.73	9.502	819.13	9.093	827.76	9.115	833.58	8.773	833.29
9.989	809.53	9.486	818.86	9.076	827.53	9.098	833.34	8.755	833.00
9.973	809.24	9.469	818.58	9.059	827.23	9.081	833.06	8.738	832.71
9.957	808.94	9.453	818.37	9.042	827.01	9.064	832.84	8.720	832.49
9.942	808.72	9.436	818.08	9.025	826.74	9.047	832.61	8.702	832.15
9.926	808.43	9.420	817.79	9.008	826.45	9.030	832.33	8.685	831.88
9.910	808.21	9.403	817.58	8.991	826.22	9.013	832.08	8.667	831.61
9.894	807.91	9.387	817.29	8.974	826.00	8.996	831.84	8.650	831.31
9.878	807.66	9.371	816.99	8.957	825.68	8.979	831.59	8.632	831.07
9.863	807.37	9.354	816.78	8.940	825.36	8.962	831.31	8.615	830.79
9.847	807.14	9.338	816.49	8.923	825.12	8.945	831.07	8.597	830.46
9.831	806.82	9.321	816.18	8.906	824.87	8.928	830.75	8.579	830.18
9.815	806.57	9.305	815.89	8.888	824.61	8.911	830.52	8.562	829.90
9.799	806.29	9.288	815.66	8.871	824.35	8.894	830.27	8.544	829.64
9.783	806.01	9.272	815.37	8.854	824.01	8.877	829.98	8.527	829.34
9.768	805.76	9.256	815.11	8.837	823.75	8.860	829.71	8.509	829.04
9.752	805.48	9.239	814.81	8.820	823.49	8.843	829.46	8.492	828.76
9.736	805.19	9.223	814.58	8.803	823.22	8.826	829.16	8.474	828.49
9.720	804.91	9.206	814.28	8.786	822.88	8.809	828.91	8.456	828.21
9.704	804.64	9.190	814.05	8.769	822.69	8.792	828.66	8.439	827.92
9.689	804.34	9.173	813.73	8.752	822.33	8.775	828.36	8.421	827.62
9.673	804.11	9.157	813.46	8.735	822.05	8.758	828.13	8.404	827.33
9.657	803.75	9.141	813.17	8.718	821.77	8.741	827.80	8.386	827.02
9.641	803.47	9.124	812.90	8.701	821.48	8.724	827.54	8.369	826.72
9.625	803.21	9.108	812.65	8.684	821.19	8.707	827.26	8.351	826.40
9.609	802.95	9.091	812.30	8.667	820.89	8.690	827.00	8.333	826.12
9.594	802.61	9.075	812.04	8.649	820.60	8.673	826.70	8.316	825.82

9.578	802.33	9.058	811.76	8.632	820.32	8.655	826.43	8.298	825.51
9.562	802.07	9.042	811.49	8.615	820.02	8.638	826.19	8.281	825.22
9.546	801.77	9.026	811.17	8.598	819.74	8.621	825.91	8.263	824.95
9.530	801.48	9.009	810.86	8.581	819.44	8.604	825.61	8.246	824.60
9.515	801.19	8.993	810.59	8.564	819.13	8.587	825.29	8.228	824.31
9.499	800.91	8.976	810.33	8.547	818.82	8.570	825.03	8.210	823.99
9.483	800.62	8.960	810.00	8.530	818.56	8.553	824.72	8.193	823.74
9.467	800.36	8.943	809.71	8.513	818.20	8.536	824.46	8.175	823.41
9.451	800.05	8.927	809.42	8.496	817.94	8.519	824.20	8.158	823.13
9.435	799.71	8.911	809.09	8.479	817.60	8.502	823.86	8.140	822.76
9.420	799.40	8.894	808.84	8.462	817.32	8.485	823.57	8.123	822.49
9.404	799.13	8.878	808.58	8.445	816.95	8.468	823.32	8.105	822.19
9.388	798.81	8.861	808.22	8.428	816.69	8.451	823.06	8.087	821.87
9.372	798.51	8.845	807.95	8.411	816.37	8.434	822.75	8.070	821.53
9.356	798.19	8.828	807.67	8.393	816.10	8.417	822.50	8.052	821.22
9.341	797.93	8.812	807.36	8.376	815.71	8.400	822.17	8.035	820.96
9.325	797.62	8.796	807.04	8.359	815.41	8.383	821.91	8.017	820.62
9.309	797.32	8.779	806.72	8.342	815.10	8.366	821.59	8.000	820.31
9.293	796.98	8.763	806.43	8.325	814.79	8.349	821.32	7.982	819.98
9.277	796.69	8.746	806.15	8.308	814.46	8.332	821.03	7.964	819.63
9.261	796.36	8.730	805.85	8.291	814.13	8.315	820.70	7.947	819.34
9.246	796.07	8.713	805.55	8.274	813.80	8.298	820.46	7.929	819.00
9.230	795.79	8.697	805.24	8.257	813.44	8.281	820.13	7.912	818.67
9.214	795.53	8.681	804.92	8.240	813.16	8.264	819.80	7.894	818.34
9.198	795.27	8.664	804.59	8.223	812.80	8.247	819.55	7.877	818.01
9.182	794.93	8.648	804.29	8.206	812.49	8.230	819.23	7.859	817.69
9.167	794.69	8.631	803.96	8.189	812.13	8.213	818.90	7.841	817.36
9.151	794.37	8.615	803.62	8.172	811.78	8.196	818.65	7.824	816.98
9.135	794.17	8.598	803.32	8.154	811.48	8.179	818.33	7.806	816.70
9.119	793.86	8.582	802.96	8.137	811.15	8.162	818.00	7.789	816.38
9.103	793.54	8.566	802.65	8.120	810.80	8.144	817.69	7.771	815.99
9.087	793.24	8.549	802.31	8.103	810.50	8.127	817.34	7.754	815.69
9.072	793.04	8.533	802.00	8.086	810.14	8.110	817.02	7.736	815.50
9.056	792.73	8.516	801.71	8.069	809.83	8.093	816.72	7.719	815.22
9.040	792.39	8.500	801.33	8.052	809.52	8.076	816.41	7.701	814.94
9.024	792.13	8.483	800.93	8.035	809.14	8.059	816.12	7.683	814.59
9.008	791.77	8.467	800.67	8.018	808.82	8.042	815.74	7.666	814.36
8.993	791.53	8.451	800.26	8.001	808.47	8.025	815.44	7.648	814.05
8.977	791.18	8.434	799.97	7.984	808.12	8.008	815.08	7.631	813.73
8.961	790.87	8.418	799.61	7.967	807.72	7.991	814.74	7.613	813.39
8.945	790.53	8.401	799.27	7.950	807.42	7.974	814.48	7.596	813.08
8.929	790.20	8.385	798.87	7.933	807.08	7.957	814.11	7.578	812.83
8.913	789.86	8.368	798.54	7.916	806.74	7.940	813.82	7.560	812.47
8.898	789.57	8.352	798.18	7.898	806.35	7.923	813.41	7.543	812.20
8.882	789.22	8.336	797.80	7.881	806.02	7.906	813.11	7.525	811.80

8.866	788.88	8.319	797.47	7.864	805.64	7.889	812.78	7.508	811.48
8.850	788.55	8.303	797.15	7.847	805.27	7.872	812.42	7.490	811.18
8.834	788.25	8.286	796.74	7.830	804.91	7.855	812.10	7.473	810.83
8.819	787.94	8.270	796.37	7.813	804.60	7.838	811.77	7.455	810.50
8.803	787.61	8.253	796.08	7.796	804.26	7.821	811.43	7.437	810.17
8.787	787.26	8.237	795.67	7.779	803.84	7.804	811.05	7.420	809.82
8.771	786.86	8.221	795.35	7.762	803.49	7.787	810.74	7.402	809.47
8.755	786.54	8.204	794.94	7.745	803.16	7.770	810.38	7.385	809.14
8.739	786.23	8.188	794.59	7.728	802.77	7.753	810.06	7.367	808.78
8.724	785.84	8.171	794.26	7.711	802.43	7.736	809.73	7.350	808.41
8.708	785.53	8.155	793.91	7.694	802.10	7.719	809.40	7.332	808.04
8.692	785.17	8.138	793.54	7.677	801.70	7.702	809.02	7.314	807.69
8.676	784.82	8.122	793.15	7.660	801.32	7.685	808.65	7.297	807.38
8.660	784.43	8.106	792.78	7.642	800.94	7.668	808.34	7.279	807.02
8.645	784.11	8.089	792.41	7.625	800.54	7.651	807.97	7.262	806.70
8.629	783.80	8.073	792.06	7.608	800.16	7.633	807.62	7.244	806.36
8.613	783.41	8.056	791.67	7.591	799.79	7.616	807.27	7.227	805.96
8.597	783.09	8.040	791.34	7.574	799.37	7.599	806.94	7.209	805.63
8.581	782.66	8.023	790.94	7.557	798.98	7.582	806.58	7.191	805.33
8.565	782.29	8.007	790.59	7.540	798.58	7.565	806.21	7.174	804.93
8.550	782.01	7.991	790.23	7.523	798.25	7.548	805.88	7.156	804.55
8.534	781.72	7.974	789.82	7.506	797.84	7.531	805.47	7.139	804.23
8.518	781.35	7.958	789.52	7.489	797.43	7.514	805.15	7.121	803.87
8.502	781.02	7.941	789.10	7.472	797.05	7.497	804.74	7.104	803.47
8.486	780.72	7.925	788.72	7.455	796.62	7.480	804.37	7.086	803.09
8.471	780.36	7.908	788.33	7.438	796.23	7.463	804.00	7.068	802.76
8.455	779.97	7.892	787.98	7.421	795.87	7.446	803.59	7.051	802.35
8.439	779.65	7.876	787.64	7.403	795.47	7.429	803.26	7.033	801.95
8.423	779.33	7.859	787.20	7.386	795.06	7.412	802.85	7.016	801.61
8.407	778.92	7.843	786.80	7.369	794.63	7.395	802.46	6.998	801.18
8.391	778.59	7.826	786.48	7.352	794.24	7.378	802.12	6.981	800.81
8.376	778.19	7.810	786.03	7.335	793.78	7.361	801.74	6.963	800.43
8.360	777.81	7.793	785.65	7.318	793.39	7.344	801.38	6.945	800.01
8.344	777.46	7.777	785.23	7.301	793.02	7.327	801.05	6.928	799.55
8.328	777.05	7.761	784.79	7.284	792.57	7.310	800.64	6.910	799.16
8.312	776.72	7.744	784.39	7.267	792.20	7.293	800.23	6.893	798.77
8.297	776.35	7.728	784.03	7.250	791.73	7.276	799.85	6.875	798.33
8.281	775.94	7.711	783.67	7.233	791.36	7.259	799.45	6.858	797.91
8.265	775.53	7.695	783.29	7.216	790.91	7.242	799.09	6.840	797.48
8.249	775.20	7.678	783.03	7.199	790.45	7.225	798.66	6.822	797.03
8.233	774.81	7.662	782.66	7.182	790.07	7.208	798.27	6.805	796.62
8.217	774.35	7.646	782.32	7.165	789.58	7.191	797.86	6.787	796.16
8.202	773.92	7.629	781.98	7.147	789.17	7.174	797.45	6.770	795.69
8.186	773.55	7.613	781.53	7.130	788.75	7.157	797.12	6.752	795.30
8.170	773.11	7.596	781.25	7.113	788.27	7.139	796.71	6.735	794.83

8.154	772.75	7.580	780.89	7.096	787.83	7.122	796.22	6.717	794.35
8.138	772.29	7.563	780.49	7.079	787.41	7.105	795.81	6.699	793.91
8.123	771.88	7.547	780.07	7.062	786.96	7.088	795.40	6.682	793.42
8.107	771.42	7.531	779.64	7.045	786.48	7.071	794.93	6.664	792.96
8.091	771.04	7.514	779.35	7.028	785.98	7.054	794.52	6.647	792.48
8.075	770.66	7.498	778.87	7.011	785.49	7.037	794.10	6.629	792.02
8.059	770.26	7.481	778.50	6.994	785.00	7.020	793.69	6.612	791.54
8.043	769.77	7.465	778.09	6.977	784.51	7.003	793.28	6.594	791.06
8.028	769.36	7.448	777.72	6.960	784.09	6.986	792.87	6.576	790.56
8.012	768.94	7.432	777.26	6.943	783.52	6.969	792.46	6.559	789.74
7.996	768.53	7.416	776.83	6.926	783.20	6.952	792.00	6.541	789.05
7.980	768.06	7.399	776.38	6.908	782.83	6.935	791.56	6.524	788.34
7.964	767.63	7.383	775.92	6.891	782.46	6.918	791.15	6.506	787.47
7.949	767.20	7.366	775.52	6.874	781.97	6.901	790.63	6.489	786.91
7.933	766.79	7.350	775.04	6.857	781.48	6.884	790.20	6.471	786.37
7.917	766.33	7.333	774.56	6.840	780.99	6.867	789.76	6.453	785.84
7.901	765.90	7.317	774.12	6.823	780.46	6.850	789.52	6.436	785.33
7.885	765.40	7.301	773.65	6.806	779.95	6.833	789.14	6.418	784.81
7.869	764.99	7.284	773.20	6.789	779.45	6.816	788.69	6.401	784.29
7.854	764.54	7.268	772.69	6.772	779.05	6.799	788.26	6.383	783.74
7.838	764.02	7.251	772.27	6.755	778.65	6.782	787.79	6.366	783.22
7.822	763.60	7.235	771.74	6.738	778.17	6.765	787.39	6.348	782.65
7.806	763.12	7.218	771.30	6.721	777.63	6.748	787.03	6.330	782.10
7.790	762.67	7.202	770.74	6.704	777.13	6.731	786.62	6.313	781.59
7.775	762.14	7.186	770.27	6.687	776.52	6.714	786.21	6.295	780.80
7.759	761.63	7.169	769.74	6.670	775.94	6.697	785.84	6.278	779.78
7.743	761.17	7.153	769.28	6.652	775.42	6.680	785.34	6.260	778.74
7.727	760.68	7.136	768.74	6.635	774.93	6.663	784.85	6.243	777.49
7.711	760.22	7.120	768.28	6.618	774.52	6.646	784.38	6.225	776.51
7.695	759.71	7.103	767.76	6.601	774.05	6.628	783.81	6.207	775.86
7.680	759.13	7.087	767.19	6.584	773.64	6.611	783.47	6.190	775.04
7.664	758.63	7.071	766.64	6.567	773.18	6.594	783.10	6.172	774.14
7.648	758.17	7.054	766.08	6.550	772.73	6.577	782.65	6.155	771.27
7.632	757.68	7.038	765.47	6.533	772.23	6.560	782.32	6.137	770.54
7.616	757.14	7.021	764.98	6.516	771.69	6.543	781.82	6.120	770.13
7.601	756.58	7.005	764.19	6.499	771.24	6.526	781.38	6.102	769.47
7.585	756.07	6.988	762.38	6.482	770.73	6.509	780.92	6.084	768.81
7.569	755.57	6.972	761.81	6.465	770.27	6.492	780.45	6.067	768.18
7.553	754.99	6.956	761.36	6.448	769.76	6.475	779.95	6.049	767.68
7.537	754.51	6.939	760.91	6.431	768.83	6.458	779.51	6.032	767.14
7.521	753.93	6.923	760.39	6.414	768.25	6.441	779.02	6.014	766.63
7.506	753.39	6.906	759.85	6.396	767.64	6.424	778.58	5.997	766.30
7.490	752.85	6.890	759.28	6.379	767.06	6.407	778.07	5.979	765.71
7.474	752.21	6.873	758.54	6.362	766.26	6.390	777.60	5.962	764.73
6.081	207.60	5.912	202.01	5.831	189.91	5.736	187.60	5.767	193.76

6.050	203.74	5.883	197.67	5.802	187.12	5.708	184.96	5.739	190.75
6.020	200.51	5.853	194.58	5.774	184.66	5.679	182.61	5.710	187.93
5.990	197.52	5.824	191.67	5.745	182.21	5.651	179.94	5.682	185.30
5.960	194.71	5.795	188.93	5.716	179.64	5.623	177.71	5.653	182.69
5.930	191.94	5.766	186.28	5.687	177.48	5.594	175.39	5.625	180.19
5.899	189.24	5.737	183.71	5.658	175.12	5.566	173.25	5.596	177.81
5.869	186.75	5.707	181.27	5.630	173.07	5.538	171.20	5.568	175.53
5.839	184.22	5.678	179.01	5.601	170.95	5.509	169.00	5.539	173.28
5.809	181.85	5.649	176.62	5.572	168.74	5.481	167.24	5.511	171.11
5.779	179.58	5.620	174.45	5.543	166.83	5.453	165.11	5.482	169.02
5.748	177.29	5.591	172.32	5.514	164.80	5.424	163.36	5.454	166.97
5.718	175.03	5.561	170.23	5.486	162.89	5.396	161.20	5.425	164.94
5.688	172.89	5.532	168.20	5.457	160.93	5.368	159.42	5.397	162.98
5.658	170.83	5.503	166.22	5.428	159.07	5.339	157.62	5.368	161.06
5.628	168.73	5.474	164.32	5.399	157.30	5.311	155.83	5.340	159.22
5.597	166.74	5.445	162.46	5.370	155.56	5.283	154.30	5.311	157.33
5.567	164.76	5.415	160.72	5.342	153.89	5.254	152.46	5.283	155.55
5.537	162.90	5.386	158.85	5.313	152.09	5.226	150.71	5.254	153.84
5.507	161.02	5.357	157.17	5.284	150.55	5.198	149.12	5.226	152.10
5.477	159.16	5.328	155.37	5.255	148.80	5.169	147.35	5.197	150.36
5.446	157.38	5.299	153.69	5.226	147.26	5.141	145.77	5.169	148.69
5.416	155.55	5.269	152.03	5.198	145.71	5.113	144.54	5.140	147.12
5.386	153.76	5.240	150.36	5.169	144.08	5.085	142.68	5.112	145.51
5.356	152.10	5.211	148.73	5.140	142.50	5.056	141.15	5.084	143.92
5.326	150.45	5.182	147.15	5.111	141.01	5.028	139.98	5.055	142.41
5.295	148.77	5.153	145.54	5.082	139.59	5.000	138.57	5.027	140.92
5.265	147.18	5.123	144.01	5.054	138.10	4.971	137.07	4.998	139.37
5.235	145.51	5.094	142.47	5.025	136.68	4.943	135.59	4.970	137.90
5.205	143.99	5.065	140.92	4.996	135.26	4.915	134.14	4.941	136.46
5.175	142.38	5.036	139.44	4.967	133.77	4.886	132.74	4.913	135.02
5.145	140.87	5.007	137.93	4.938	132.39	4.858	131.35	4.884	133.60
5.114	139.40	4.977	136.44	4.910	131.07	4.830	129.98	4.856	132.22
5.084	137.95	4.948	135.03	4.881	129.71	4.801	128.61	4.827	130.82
5.054	136.45	4.919	133.54	4.852	128.33	4.773	127.27	4.799	129.49
5.024	134.97	4.890	132.22	4.823	127.23	4.745	125.94	4.770	128.18
4.994	133.58	4.861	130.74	4.794	125.91	4.716	124.63	4.742	126.84
4.963	132.15	4.831	129.40	4.766	124.63	4.688	123.43	4.713	125.55
4.933	130.86	4.802	128.08	4.737	123.38	4.660	122.17	4.685	124.29
4.903	129.44	4.773	126.71	4.708	122.15	4.631	120.90	4.656	122.99
4.873	128.09	4.744	125.36	4.679	120.91	4.603	119.67	4.628	121.77
4.843	126.72	4.714	124.07	4.650	119.67	4.575	118.48	4.599	120.48
4.812	125.40	4.685	122.74	4.622	118.43	4.546	117.32	4.571	119.29
4.782	124.11	4.656	121.49	4.593	117.29	4.518	116.12	4.542	118.07
4.752	122.80	4.627	120.18	4.564	116.15	4.490	114.93	4.514	116.84
4.722	121.53	4.598	118.96	4.535	114.88	4.461	113.81	4.486	115.65

4.692	120.25	4.568	117.68	4.506	113.83	4.433	112.69	4.457	114.54
4.661	119.00	4.539	116.50	4.478	112.62	4.405	111.54	4.429	113.39
4.631	117.78	4.510	115.27	4.449	111.52	4.376	110.38	4.400	112.25
4.601	116.60	4.481	114.08	4.420	110.32	4.348	109.30	4.372	111.10
4.571	115.37	4.452	112.86	4.391	109.28	4.320	108.21	4.343	109.96
4.541	114.18	4.422	111.73	4.362	108.16	4.292	107.16	4.315	108.88
4.510	112.99	4.393	110.55	4.334	107.06	4.263	106.04	4.286	107.77
4.480	111.83	4.364	109.38	4.305	105.99	4.235	105.02	4.258	106.63
4.450	110.69	4.335	108.25	4.276	104.95	4.207	103.96	4.229	105.56
4.420	109.59	4.306	107.13	4.247	103.83	4.178	102.94	4.201	104.50
4.390	108.39	4.276	106.02	4.218	102.77	4.150	101.97	4.172	103.45
4.360	107.31	4.247	104.93	4.190	101.73	4.122	100.93	4.144	102.38
4.329	106.16	4.218	103.80	4.161	100.70	4.093	99.96	4.115	101.36
4.299	105.12	4.189	102.70	4.132	99.65	4.065	98.92	4.087	100.35
4.269	103.96	4.160	101.63	4.103	98.71	4.037	97.97	4.058	99.28
4.239	102.88	4.130	100.58	4.074	97.66	4.008	97.02	4.030	98.27
4.209	101.78	4.101	99.52	4.046	96.70	3.980	96.01	4.001	97.27
4.178	100.74	4.072	98.49	4.017	95.67	3.952	95.11	3.973	96.28
4.148	99.64	4.043	97.51	3.988	94.72	3.923	94.09	3.944	95.27
4.118	98.58	4.014	96.41	3.959	93.75	3.895	93.20	3.916	94.32
4.088	97.59	3.984	95.38	3.930	92.80	3.867	92.28	3.887	93.28
4.058	96.56	3.955	94.43	3.902	91.83	3.838	91.33	3.859	92.37
4.027	95.57	3.926	93.43	3.873	90.86	3.810	90.43	3.831	91.39
3.997	94.55	3.897	92.43	3.844	90.01	3.782	89.57	3.802	90.45
3.967	93.47	3.868	91.48	3.815	88.95	3.753	88.65	3.774	89.49
3.937	92.51	3.838	90.42	3.786	88.07	3.725	87.72	3.745	88.55
3.907	91.48	3.809	89.50	3.758	87.12	3.697	86.85	3.717	87.61
3.876	90.49	3.780	88.55	3.729	86.23	3.668	85.93	3.688	86.71
3.846	89.56	3.751	87.60	3.700	85.29	3.640	85.08	3.660	85.79
3.816	88.59	3.721	86.63	3.671	84.42	3.612	84.24	3.631	84.86
3.786	87.62	3.692	85.68	3.642	83.51	3.583	83.37	3.603	83.95
3.756	86.66	3.663	84.77	3.614	82.65	3.555	82.47	3.574	83.04
3.725	85.73	3.634	83.85	3.585	81.81	3.527	81.61	3.546	82.15
3.695	84.78	3.605	82.94	3.556	80.85	3.499	80.77	3.517	81.28
3.665	83.86	3.575	82.02	3.527	79.97	3.470	79.96	3.489	80.42
3.635	82.89	3.546	81.11	3.498	79.19	3.442	79.05	3.460	79.53
3.605	81.95	3.517	80.21	3.470	78.34	3.414	78.22	3.432	78.69
3.574	81.07	3.488	79.36	3.441	77.39	3.385	77.33	3.403	77.79
3.544	80.18	3.459	78.46	3.412	76.56	3.357	76.51	3.375	76.98
3.514	79.31	3.429	77.60	3.383	75.78	3.329	75.62	3.346	76.10
3.484	78.36	3.400	76.70	3.354	74.86	3.300	74.81	3.318	75.25
3.454	77.48	3.371	75.84	3.326	74.04	3.272	73.99	3.289	74.37
3.424	76.58	3.342	74.96	3.297	73.24	3.244	73.15	3.261	73.58
3.393	75.72	3.313	74.11	3.268	72.40	3.215	72.36	3.233	72.72
3.363	74.87	3.283	73.26	3.239	71.61	3.187	71.47	3.204	71.95

3.333	73.92	3.254	72.41	3.210	70.72	3.159	70.67	3.176	71.12
3.303	73.12	3.225	71.63	3.182	69.90	3.130	69.93	3.147	70.29
3.273	72.29	3.196	70.79	3.153	69.16	3.102	69.09	3.119	69.46
3.242	71.40	3.167	70.00	3.124	68.35	3.074	68.23	3.090	68.66
3.212	70.60	3.137	69.14	3.095	67.55	3.045	67.43	3.062	67.86
3.182	69.70	3.108	68.31	3.066	66.75	3.017	66.72	3.033	67.06
3.152	68.90	3.079	67.51	3.038	66.01	2.989	65.90	3.005	66.27
3.122	68.06	3.050	66.68	3.009	65.21	2.960	65.11	2.976	65.48
3.091	67.25	3.021	65.84	2.980	64.47	2.932	64.32	2.948	64.72
3.061	66.40	2.991	65.05	2.951	63.66	2.904	63.60	2.919	63.94
3.031	65.58	2.962	64.29	2.922	62.99	2.875	62.79	2.891	63.12
3.001	64.79	2.933	63.53	2.894	62.16	2.847	61.96	2.862	62.36
2.971	63.99	2.904	62.69	2.865	61.39	2.819	61.25	2.834	61.61
2.940	63.18	2.875	61.89	2.836	60.65	2.791	60.45	2.805	60.87
2.910	62.39	2.845	61.12	2.807	59.85	2.762	59.74	2.777	60.06
2.880	61.55	2.816	60.35	2.778	59.10	2.734	59.04	2.748	59.29
2.850	60.87	2.787	59.56	2.750	58.42	2.706	58.23	2.720	58.59
2.820	60.00	2.758	58.80	2.721	57.72	2.677	57.51	2.691	57.85
2.789	59.27	2.728	58.02	2.692	56.89	2.649	56.74	2.663	57.13
2.759	58.48	2.699	57.31	2.663	56.19	2.621	56.05	2.634	56.39
2.729	57.67	2.670	56.48	2.634	55.53	2.592	55.26	2.606	55.60
2.699	56.95	2.641	55.76	2.606	54.71	2.564	54.60	2.578	54.88
2.669	56.17	2.612	55.06	2.577	54.01	2.536	53.79	2.549	54.17
2.639	55.39	2.582	54.39	2.548	53.27	2.507	53.07	2.521	53.45
2.608	54.61	2.553	53.58	2.519	52.67	2.479	52.35	2.492	52.74
2.578	53.87	2.524	52.84	2.490	51.88	2.451	51.70	2.464	51.98
2.548	53.12	2.495	52.17	2.462	51.20	2.422	50.94	2.435	51.27
2.518	52.38	2.466	51.41	2.433	50.48	2.394	50.25	2.407	50.59
2.488	51.66	2.436	50.69	2.404	49.79	2.366	49.56	2.378	49.89
2.457	50.95	2.407	50.02	2.375	49.17	2.337	48.80	2.350	49.17
2.427	50.18	2.378	49.26	2.346	48.42	2.309	48.12	2.321	48.45
2.397	49.50	2.349	48.49	2.318	47.74	2.281	47.47	2.293	47.77
2.367	48.71	2.320	47.83	2.289	47.03	2.252	46.78	2.264	47.02
2.337	48.03	2.290	47.07	2.260	46.38	2.224	46.04	2.236	46.36
2.306	47.33	2.261	46.40	2.231	45.68	2.196	45.37	2.207	45.63
2.276	46.58	2.232	45.72	2.202	45.04	2.167	44.73	2.179	44.96
2.246	45.84	2.203	45.03	2.174	44.37	2.139	44.05	2.150	44.31
2.216	45.19	2.174	44.35	2.145	43.67	2.111	43.45	2.122	43.60
2.186	44.43	2.144	43.64	2.116	42.98	2.082	42.70	2.093	42.95
2.155	43.76	2.115	42.95	2.087	42.34	2.054	41.99	2.065	42.26
2.125	43.10	2.086	42.28	2.058	41.70	2.026	41.38	2.036	41.58
2.095	42.43	2.057	41.57	2.030	41.06	1.998	40.68	2.008	40.94
2.065	41.67	2.028	41.00	2.001	40.44	1.969	40.04	1.980	40.24
2.035	41.00	1.998	40.30	1.972	39.74	1.941	39.38	1.951	39.59
2.004	40.29	1.969	39.60	1.943	39.04	1.913	38.76	1.923	38.88

1.974	39.58	1.940	38.95	1.914	38.41	1.884	38.13	1.894	38.28
1.944	38.94	1.911	38.27	1.886	37.82	1.856	37.45	1.866	37.60
1.914	38.22	1.882	37.65	1.857	37.10	1.828	36.82	1.837	36.95
1.884	37.53	1.852	36.94	1.828	36.51	1.799	36.20	1.809	36.32
1.853	36.90	1.823	36.31	1.799	35.86	1.771	35.58	1.780	35.61
1.823	36.22	1.794	35.58	1.770	35.24	1.743	34.93	1.752	35.00
1.793	35.56	1.765	34.98	1.742	34.53	1.714	34.33	1.723	34.35
1.763	34.95	1.736	34.33	1.713	33.97	1.686	33.69	1.695	33.73
1.733	34.22	1.706	33.72	1.684	33.31	1.658	33.03	1.666	33.13
1.703	33.56	1.677	33.05	1.655	32.71	1.629	32.41	1.638	32.51
1.672	32.92	1.648	32.45	1.626	32.12	1.601	31.82	1.609	31.85
1.642	32.24	1.619	31.78	1.598	31.45	1.573	31.17	1.581	31.24
1.612	31.57	1.589	31.16	1.569	30.81	1.544	30.60	1.552	30.62
1.582	30.92	1.560	30.51	1.540	30.22	1.516	29.96	1.524	29.99
1.552	30.33	1.531	29.89	1.511	29.56	1.488	29.33	1.495	29.40
1.521	29.62	1.502	29.28	1.482	28.97	1.459	28.71	1.467	28.80
1.491	29.00	1.473	28.66	1.454	28.41	1.431	28.16	1.438	28.21
1.461	28.46	1.443	28.01	1.425	27.75	1.403	27.50	1.410	27.56
1.431	27.72	1.414	27.42	1.396	27.12	1.374	26.87	1.381	26.95
1.401	27.08	1.385	26.74	1.367	26.54	1.346	26.34	1.353	26.36
1.370	26.47	1.356	26.16	1.338	25.95	1.318	25.73	1.325	25.77
1.340	25.82	1.327	25.54	1.310	25.37	1.289	25.12	1.296	25.20
1.310	25.19	1.297	24.96	1.281	24.73	1.261	24.58	1.268	24.57
1.280	24.59	1.268	24.34	1.252	24.16	1.233	23.93	1.239	23.99
1.250	23.96	1.239	23.73	1.223	23.57	1.205	23.32	1.211	23.38
1.219	23.36	1.210	23.09	1.194	22.95	1.176	22.77	1.182	22.82
1.189	22.72	1.181	22.53	1.166	22.39	1.148	22.14	1.154	22.21
1.159	22.09	1.151	21.91	1.137	21.75	1.120	21.54	1.125	21.66
1.129	21.53	1.122	21.35	1.108	21.20	1.091	21.01	1.097	21.07
1.099	20.92	1.093	20.74	1.079	20.62	1.063	20.41	1.068	20.46
1.068	20.24	1.064	20.18	1.050	20.05	1.035	19.83	1.040	19.89
1.038	19.69	1.035	19.59	1.022	19.45	1.006	19.28	1.011	19.30
1.008	18.99	1.005	19.04	0.993	18.87	0.978	18.71	0.983	18.76
0.978	18.44	0.976	18.43	0.964	18.31	0.950	18.13	0.954	18.17
0.948	17.85	0.947	17.89	0.935	17.76	0.921	17.58	0.926	17.62
0.918	17.29	0.918	17.33	0.906	17.14	0.893	17.01	0.897	17.05
0.887	16.63	0.889	16.76	0.878	16.57	0.865	16.45	0.869	16.47
0.857	16.02	0.859	16.14	0.849	16.02	0.836	15.87	0.840	15.89
0.827	15.52	0.830	15.62	0.820	15.47	0.808	15.26	0.812	15.33
0.797	14.84	0.801	15.04	0.791	14.93	0.780	14.70	0.783	14.77
0.767	14.24	0.772	14.42	0.762	14.30	0.751	14.17	0.755	14.23
0.736	13.71	0.743	13.90	0.734	13.76	0.723	13.56	0.727	13.71
0.706	13.11	0.713	13.31	0.705	13.23	0.695	13.05	0.698	13.12
0.676	12.53	0.684	12.80	0.676	12.68	0.666	12.54	0.670	12.55
0.646	11.90	0.655	12.24	0.647	12.16	0.638	11.98	0.641	12.03

0.616	11.34	0.626	11.65	0.618	11.61	0.610	11.41	0.613	11.45
0.585	10.78	0.596	11.12	0.590	11.00	0.581	10.88	0.584	10.94
0.555	10.21	0.567	10.55	0.561	10.47	0.553	10.37	0.556	10.40
0.525	9.61	0.538	10.05	0.532	9.91	0.525	9.82	0.527	9.87
0.495	9.05	0.509	9.49	0.503	9.34	0.496	9.27	0.499	9.36
0.465	8.48	0.480	8.95	0.474	8.88	0.468	8.72	0.470	8.81
0.434	7.94	0.450	8.37	0.446	8.29	0.440	8.20	0.442	8.24
0.404	7.33	0.421	7.90	0.417	7.76	0.412	7.68	0.413	7.69
0.374	6.80	0.392	7.29	0.388	7.17	0.383	7.17	0.385	7.16
0.344	6.27	0.363	6.79	0.359	6.65	0.355	6.62	0.356	6.62
0.314	5.68	0.334	6.24	0.330	6.14	0.327	6.07	0.328	6.11
0.283	5.16	0.304	5.71	0.302	5.62	0.298	5.53	0.299	5.60
0.253	4.57	0.275	5.18	0.273	5.11	0.270	5.02	0.271	5.03
0.223	3.99	0.246	4.63	0.244	4.52	0.242	4.49	0.242	4.53
0.193	3.46	0.217	4.13	0.215	4.00	0.213	3.97	0.214	4.10
0.163	2.93	0.188	3.54	0.186	3.48	0.185	3.45	0.185	3.55
0.132	2.35	0.158	2.97	0.158	2.99	0.157	2.92	0.157	2.99
0.102	1.81	0.129	2.43	0.129	2.40	0.128	2.40	0.128	2.52
		0.100	1.97	0.100	1.86	0.100	1.91	0.100	1.97

Table S1 (continued). $P\rho T x_{CO_2}$ experimental data for CO_2+CO mixtures.

T=323.15 K									
x_{CO_2} = 0.9700		x_{CO_2} = 0.9810		x_{CO_2} = 0.9902		x_{CO_2} = 0.9930		x_{CO_2} = 0.9960	
P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})
20.000	751.55	20.000	762.02	20.000	774.20	20.000	778.49	20.000	780.17
19.980	751.28	19.980	761.77	19.980	773.96	19.980	778.28	19.980	779.94
19.960	751.00	19.960	761.51	19.960	773.73	19.960	778.07	19.960	779.76
19.940	750.73	19.940	761.25	19.940	773.44	19.940	777.76	19.940	779.51
19.920	750.46	19.920	760.99	19.920	773.21	19.920	777.53	19.920	779.28
19.900	750.17	19.900	760.72	19.900	772.92	19.900	777.28	19.900	779.02
19.880	749.92	19.880	760.52	19.880	772.68	19.880	777.04	19.880	778.81
19.861	749.63	19.861	760.29	19.861	772.42	19.861	776.72	19.861	778.61
19.841	749.33	19.841	760.01	19.841	772.16	19.841	776.48	19.841	778.37
19.821	749.08	19.821	759.72	19.821	771.94	19.821	776.24	19.821	778.12
19.801	748.79	19.801	759.46	19.801	771.71	19.801	775.99	19.801	777.88
19.781	748.52	19.781	759.19	19.781	771.40	19.781	775.75	19.781	777.62
19.761	748.23	19.761	758.90	19.761	771.18	19.761	775.51	19.761	777.44
19.741	747.94	19.741	758.63	19.741	770.88	19.741	775.26	19.741	777.19
19.721	747.66	19.721	758.38	19.721	770.65	19.721	774.93	19.721	776.95
19.701	747.39	19.701	758.13	19.701	770.37	19.701	774.68	19.701	776.70
19.681	747.11	19.681	757.84	19.681	770.09	19.681	774.44	19.681	776.45
19.661	746.82	19.661	757.64	19.661	769.84	19.661	774.18	19.661	776.18
19.641	746.53	19.641	757.34	19.641	769.61	19.641	773.93	19.641	775.96
19.622	746.23	19.622	757.04	19.622	769.30	19.622	773.68	19.622	775.70
19.602	745.93	19.602	756.80	19.602	769.05	19.602	773.42	19.602	775.44
19.582	745.64	19.582	756.52	19.582	768.79	19.582	773.16	19.582	775.26
19.562	745.34	19.562	756.24	19.562	768.49	19.562	772.89	19.562	774.98
19.542	745.08	19.542	755.99	19.542	768.25	19.542	772.62	19.542	774.71
19.522	744.75	19.522	755.68	19.522	767.99	19.522	772.34	19.522	774.49
19.502	744.49	19.502	755.46	19.502	767.74	19.502	772.12	19.502	774.22
19.482	744.19	19.482	755.15	19.482	767.44	19.482	771.84	19.482	773.94
19.462	743.92	19.462	754.89	19.462	767.18	19.462	771.54	19.462	773.68
19.442	743.64	19.442	754.60	19.442	766.88	19.442	771.26	19.442	773.47
19.422	743.34	19.422	754.29	19.422	766.62	19.422	771.01	19.422	773.19
19.402	743.03	19.402	754.01	19.402	766.39	19.402	770.78	19.402	772.95
19.382	742.72	19.382	753.75	19.382	766.11	19.382	770.49	19.382	772.67
19.363	742.43	19.363	753.46	19.363	765.85	19.363	770.21	19.363	772.41
19.343	742.12	19.343	753.23	19.343	765.54	19.343	769.99	19.343	772.18
19.323	741.81	19.323	752.90	19.323	765.28	19.323	769.67	19.323	771.91
19.303	741.55	19.303	752.64	19.303	765.04	19.303	769.40	19.303	771.65

19.283	741.27	19.283	752.34	19.283	764.73	19.283	769.14	19.283	771.37
19.263	740.96	19.263	752.06	19.263	764.50	19.263	768.86	19.263	771.13
19.243	740.64	19.243	751.79	19.243	764.20	19.243	768.58	19.243	770.89
19.223	740.33	19.223	751.50	19.223	763.91	19.223	768.32	19.223	770.61
19.203	740.05	19.203	751.19	19.203	763.66	19.203	768.05	19.203	770.32
19.183	739.73	19.183	750.93	19.183	763.32	19.183	767.75	19.183	770.06
19.163	739.42	19.163	750.64	19.163	763.13	19.163	767.52	19.163	769.76
19.143	739.10	19.143	750.32	19.143	762.79	19.143	767.21	19.143	769.53
19.124	738.85	19.124	750.01	19.124	762.53	19.124	766.96	19.124	769.28
19.104	738.53	19.104	749.74	19.104	762.28	19.104	766.64	19.104	768.99
19.084	738.20	19.084	749.44	19.084	762.01	19.084	766.38	19.084	768.74
19.064	737.92	19.064	749.17	19.064	761.76	19.064	766.15	19.064	768.48
19.044	737.64	19.044	748.87	19.044	761.43	19.044	765.82	19.044	768.19
19.024	737.33	19.024	748.54	19.024	761.15	19.024	765.59	19.024	767.92
19.004	737.01	19.004	748.23	19.004	760.89	19.004	765.22	19.004	767.68
18.984	736.69	18.984	747.97	18.984	760.59	18.984	764.98	18.984	767.37
18.964	736.34	18.964	747.64	18.964	760.33	18.964	764.72	18.964	767.13
18.944	736.08	18.944	747.37	18.944	760.05	18.944	764.41	18.944	766.83
18.924	735.76	18.924	747.03	18.924	759.71	18.924	764.15	18.924	766.54
18.904	735.47	18.904	746.77	18.904	759.47	18.904	763.84	18.904	766.28
18.884	735.19	18.884	746.47	18.884	759.18	18.884	763.58	18.884	766.02
18.865	734.86	18.865	746.15	18.865	758.90	18.865	763.27	18.865	765.72
18.845	734.56	18.845	745.89	18.845	758.61	18.845	763.00	18.845	765.42
18.825	734.19	18.825	745.54	18.825	758.32	18.825	762.74	18.825	765.21
18.805	733.91	18.805	745.26	18.805	758.04	18.805	762.42	18.805	764.87
18.785	733.57	18.785	744.93	18.785	757.74	18.785	762.16	18.785	764.62
18.765	733.28	18.765	744.62	18.765	757.46	18.765	761.84	18.765	764.35
18.745	732.95	18.745	744.34	18.745	757.13	18.745	761.59	18.745	764.05
18.725	732.62	18.725	743.98	18.725	756.86	18.725	761.27	18.725	763.75
18.705	732.34	18.705	743.71	18.705	756.60	18.705	760.95	18.705	763.52
18.685	731.99	18.685	743.35	18.685	756.35	18.685	760.69	18.685	763.30
18.665	731.66	18.665	743.07	18.665	756.04	18.665	760.42	18.665	763.05
18.645	731.32	18.645	742.77	18.645	755.71	18.645	760.09	18.645	762.76
18.626	731.03	18.626	742.45	18.626	755.45	18.626	759.83	18.626	762.47
18.606	730.69	18.606	742.11	18.606	755.17	18.606	759.53	18.606	762.20
18.586	730.35	18.586	741.82	18.586	754.88	18.586	759.24	18.586	761.95
18.566	730.07	18.566	741.51	18.566	754.58	18.566	758.96	18.566	761.65
18.546	729.75	18.546	741.20	18.546	754.25	18.546	758.62	18.546	761.38
18.526	729.41	18.526	740.84	18.526	753.99	18.526	758.36	18.526	761.12
18.506	729.09	18.506	740.54	18.506	753.69	18.506	758.06	18.506	760.85
18.486	728.70	18.486	740.21	18.486	753.43	18.486	757.77	18.486	760.60
18.466	728.38	18.466	739.88	18.466	753.09	18.466	757.42	18.466	760.28
18.446	728.02	18.446	739.57	18.446	752.85	18.446	757.13	18.446	760.01
18.426	727.70	18.426	739.26	18.426	752.52	18.426	756.86	18.426	759.75
18.406	727.41	18.406	738.95	18.406	752.26	18.406	756.58	18.406	759.45

18.386	727.05	18.386	738.66	18.386	751.93	18.386	756.27	18.386	759.13
18.367	726.72	18.367	738.36	18.367	751.61	18.367	755.97	18.367	758.87
18.347	726.41	18.347	738.00	18.347	751.28	18.347	755.64	18.347	758.57
18.327	726.01	18.327	737.64	18.327	750.99	18.327	755.34	18.327	758.30
18.307	725.74	18.307	737.32	18.307	750.69	18.307	755.02	18.307	758.01
18.287	725.45	18.287	736.99	18.287	750.42	18.287	754.73	18.287	757.75
18.267	725.30	18.267	736.72	18.267	750.09	18.267	754.42	18.267	757.39
18.247	725.05	18.247	736.35	18.247	749.75	18.247	754.11	18.247	757.11
18.227	724.71	18.227	736.02	18.227	749.50	18.227	753.81	18.227	756.83
18.207	724.44	18.207	735.71	18.207	749.23	18.207	753.51	18.207	756.54
18.187	724.10	18.187	735.38	18.187	748.90	18.187	753.21	18.187	756.26
18.167	723.79	18.167	735.07	18.167	748.56	18.167	752.91	18.167	755.98
18.147	723.50	18.147	734.75	18.147	748.29	18.147	752.58	18.147	755.69
18.128	723.20	18.128	734.42	18.128	747.97	18.128	752.28	18.128	755.41
18.108	722.90	18.108	734.13	18.108	747.64	18.108	751.99	18.108	755.11
18.088	722.51	18.088	733.71	18.088	747.36	18.088	751.64	18.088	754.74
18.068	722.19	18.068	733.39	18.068	747.04	18.068	751.34	18.068	754.44
18.048	721.86	18.048	733.06	18.048	746.68	18.048	751.02	18.048	754.17
18.028	721.51	18.028	732.70	18.028	746.37	18.028	750.71	18.028	753.89
18.008	721.22	18.008	732.37	18.008	746.08	18.008	750.42	18.008	753.56
17.988	720.92	17.988	732.05	17.988	745.72	17.988	750.06	17.988	753.28
17.968	720.57	17.968	731.70	17.968	745.43	17.968	749.78	17.968	752.96
17.948	720.22	17.948	731.36	17.948	745.16	17.948	749.42	17.948	752.65
17.928	719.88	17.928	731.00	17.928	744.81	17.928	749.17	17.928	752.33
17.908	719.56	17.908	730.66	17.908	744.53	17.908	748.84	17.908	752.02
17.888	719.23	17.888	730.40	17.888	744.26	17.888	748.50	17.888	751.71
17.869	718.89	17.869	730.01	17.869	743.90	17.869	748.18	17.869	751.41
17.849	718.55	17.849	729.65	17.849	743.53	17.849	747.88	17.849	751.10
17.829	718.20	17.829	729.38	17.829	743.22	17.829	747.57	17.829	750.79
17.809	717.86	17.809	729.00	17.809	742.90	17.809	747.23	17.809	750.47
17.789	717.51	17.789	728.67	17.789	742.56	17.789	746.92	17.789	750.15
17.769	717.10	17.769	728.27	17.769	742.27	17.769	746.56	17.769	749.80
17.749	716.83	17.749	727.91	17.749	741.97	17.749	746.26	17.749	749.48
17.729	716.45	17.729	727.57	17.729	741.63	17.729	745.93	17.729	749.22
17.709	716.08	17.709	727.28	17.709	741.33	17.709	745.58	17.709	748.87
17.689	715.69	17.689	726.91	17.689	740.96	17.689	745.28	17.689	748.53
17.669	715.39	17.669	726.56	17.669	740.64	17.669	744.94	17.669	748.18
17.649	715.01	17.649	726.20	17.649	740.28	17.649	744.61	17.649	747.94
17.630	714.69	17.630	725.91	17.630	740.00	17.630	744.30	17.630	747.61
17.610	714.30	17.610	725.56	17.610	739.64	17.610	743.97	17.610	747.28
17.590	713.90	17.590	725.19	17.590	739.35	17.590	743.61	17.590	746.94
17.570	713.56	17.570	724.79	17.570	738.99	17.570	743.28	17.570	746.61
17.550	713.21	17.550	724.45	17.550	738.69	17.550	742.97	17.550	746.29
17.530	712.79	17.530	724.05	17.530	738.33	17.530	742.62	17.530	745.95
17.510	712.43	17.510	723.69	17.510	738.01	17.510	742.32	17.510	745.60

17.490	712.09	17.490	723.36	17.490	737.67	17.490	741.93	17.490	745.26
17.470	711.68	17.470	722.97	17.470	737.35	17.470	741.60	17.470	744.94
17.450	711.33	17.450	722.60	17.450	737.01	17.450	741.31	17.450	744.57
17.430	710.96	17.430	722.31	17.430	736.69	17.430	740.90	17.430	744.29
17.410	710.50	17.410	721.94	17.410	736.32	17.410	740.57	17.410	743.94
17.390	710.13	17.390	721.56	17.390	735.96	17.390	740.26	17.390	743.62
17.371	709.75	17.371	721.16	17.371	735.60	17.371	739.87	17.371	743.30
17.351	709.37	17.351	720.77	17.351	735.25	17.351	739.54	17.351	742.95
17.331	708.99	17.331	720.44	17.331	734.95	17.331	739.19	17.331	742.59
17.311	708.62	17.311	720.06	17.311	734.58	17.311	738.87	17.311	742.24
17.291	708.24	17.291	719.66	17.291	734.24	17.291	738.55	17.291	741.92
17.271	707.81	17.271	719.28	17.271	733.89	17.271	738.19	17.271	741.54
17.251	707.43	17.251	718.95	17.251	733.60	17.251	737.83	17.251	741.23
17.231	707.07	17.231	718.55	17.231	733.20	17.231	737.48	17.231	740.92
17.211	706.70	17.211	718.25	17.211	732.85	17.211	737.17	17.211	740.54
17.191	706.34	17.191	717.84	17.191	732.49	17.191	736.77	17.191	740.15
17.171	705.97	17.171	717.44	17.171	732.13	17.171	736.42	17.171	739.86
17.151	705.48	17.151	717.04	17.151	731.78	17.151	736.09	17.151	739.45
17.132	705.09	17.132	716.70	17.132	731.47	17.132	735.75	17.132	739.12
17.112	704.72	17.112	716.30	17.112	731.06	17.112	735.42	17.112	738.75
17.092	704.32	17.092	715.91	17.092	730.74	17.092	735.03	17.092	738.42
17.072	703.91	17.072	715.53	17.072	730.36	17.072	734.70	17.072	738.07
17.052	703.50	17.052	715.19	17.052	730.04	17.052	734.36	17.052	737.70
17.032	703.08	17.032	714.77	17.032	729.65	17.032	734.02	17.032	737.34
17.012	702.74	17.012	714.39	17.012	729.30	17.012	733.64	17.012	737.01
16.992	702.30	16.992	714.04	16.992	728.91	16.992	733.29	16.992	736.61
16.972	701.92	16.972	713.60	16.972	728.53	16.972	732.93	16.972	736.28
16.952	701.51	16.952	713.17	16.952	728.20	16.952	732.57	16.952	735.88
16.932	701.09	16.932	712.82	16.932	727.82	16.932	732.23	16.932	735.52
16.912	700.69	16.912	712.47	16.912	727.45	16.912	731.83	16.912	735.21
16.892	700.27	16.892	712.05	16.892	727.10	16.892	731.51	16.892	734.81
16.873	699.87	16.873	711.66	16.873	726.70	16.873	731.17	16.873	734.44
16.853	699.49	16.853	711.28	16.853	726.37	16.853	730.83	16.853	734.05
16.833	699.06	16.833	710.89	16.833	725.96	16.833	730.42	16.833	733.75
16.813	698.64	16.813	710.49	16.813	725.63	16.813	730.08	16.813	733.39
16.793	698.21	16.793	710.08	16.793	725.26	16.793	729.71	16.793	732.99
16.773	697.82	16.773	709.64	16.773	724.89	16.773	729.31	16.773	732.63
16.753	697.34	16.753	709.29	16.753	724.53	16.753	728.91	16.753	732.23
16.733	696.97	16.733	708.84	16.733	724.13	16.733	728.58	16.733	731.88
16.713	696.52	16.713	708.45	16.713	723.78	16.713	728.23	16.713	731.52
16.693	696.13	16.693	708.08	16.693	723.45	16.693	727.88	16.693	731.13
16.673	695.69	16.673	707.60	16.673	723.02	16.673	727.52	16.673	730.73
16.653	695.32	16.653	707.18	16.653	722.68	16.653	727.10	16.653	730.41
16.634	694.85	16.634	706.79	16.634	722.31	16.634	726.74	16.634	729.99
16.614	694.44	16.614	706.41	16.614	721.91	16.614	726.39	16.614	729.61

16.594	694.02	16.594	705.97	16.594	721.56	16.594	726.02	16.594	729.24
16.574	693.58	16.574	705.56	16.574	721.14	16.574	725.64	16.574	728.86
16.554	693.14	16.554	705.17	16.554	720.79	16.554	725.28	16.554	728.46
16.534	692.71	16.534	704.76	16.534	720.39	16.534	724.84	16.534	728.07
16.514	692.23	16.514	704.35	16.514	719.98	16.514	724.50	16.514	727.70
16.494	691.83	16.494	703.89	16.494	719.58	16.494	724.13	16.494	727.33
16.474	691.41	16.474	703.48	16.474	719.24	16.474	723.72	16.474	726.90
16.454	690.93	16.454	703.09	16.454	718.82	16.454	723.38	16.454	726.50
16.434	690.53	16.434	702.59	16.434	718.41	16.434	723.00	16.434	726.07
16.414	690.09	16.414	702.19	16.414	718.05	16.414	722.63	16.414	725.72
16.394	689.60	16.394	701.75	16.394	717.69	16.394	722.26	16.394	725.32
16.375	689.19	16.375	701.33	16.375	717.24	16.375	721.86	16.375	724.91
16.355	688.72	16.355	700.89	16.355	716.86	16.355	721.43	16.355	724.48
16.335	688.28	16.335	700.48	16.335	716.49	16.335	721.05	16.335	724.08
16.315	687.83	16.315	700.04	16.315	716.05	16.315	720.65	16.315	723.68
16.295	687.35	16.295	699.59	16.295	715.59	16.295	720.25	16.295	723.29
16.275	686.95	16.275	699.15	16.275	715.21	16.275	719.85	16.275	722.86
16.255	686.49	16.255	698.70	16.255	714.81	16.255	719.47	16.255	722.43
16.235	686.03	16.235	698.27	16.235	714.42	16.235	719.09	16.235	722.02
16.215	685.58	16.215	697.83	16.215	714.02	16.215	718.71	16.215	721.62
16.195	685.22	16.195	697.38	16.195	713.58	16.195	718.26	16.195	721.22
16.175	684.83	16.175	696.94	16.175	713.15	16.175	717.89	16.175	720.74
16.155	684.43	16.155	696.49	16.155	712.77	16.155	717.49	16.155	720.30
16.136	684.03	16.136	696.08	16.136	712.33	16.136	717.09	16.136	719.94
16.116	683.61	16.116	695.61	16.116	711.95	16.116	716.66	16.116	719.48
16.096	683.19	16.096	695.16	16.096	711.53	16.096	716.25	16.096	719.09
16.076	682.81	16.076	694.72	16.076	711.09	16.076	715.82	16.076	718.62
16.056	682.37	16.056	694.24	16.056	710.66	16.056	715.48	16.056	718.25
16.036	681.95	16.036	693.90	16.036	710.21	16.036	715.02	16.036	717.81
16.016	681.54	16.016	693.69	16.016	709.84	16.016	714.65	16.016	717.39
15.996	681.08	15.996	693.27	15.996	709.47	15.996	714.24	15.996	716.96
15.976	680.63	15.976	692.84	15.976	708.98	15.976	713.82	15.976	716.55
15.956	680.14	15.956	692.41	15.956	708.53	15.956	713.40	15.956	716.14
15.936	679.73	15.936	692.09	15.936	708.16	15.936	712.95	15.936	715.70
15.916	679.30	15.916	691.78	15.916	707.68	15.916	712.49	15.916	715.25
15.896	678.80	15.896	691.42	15.896	707.26	15.896	712.09	15.896	714.83
15.877	678.37	15.877	691.07	15.877	706.85	15.877	711.70	15.877	714.45
15.857	677.90	15.857	690.71	15.857	706.43	15.857	711.27	15.857	713.97
15.837	677.45	15.837	690.28	15.837	705.93	15.837	710.84	15.837	713.58
15.817	677.01	15.817	689.84	15.817	705.51	15.817	710.37	15.817	713.14
15.797	676.56	15.797	689.43	15.797	705.09	15.797	710.00	15.797	712.70
15.777	676.08	15.777	689.05	15.777	704.61	15.777	709.53	15.777	712.26
15.757	675.62	15.757	688.62	15.757	704.19	15.757	709.08	15.757	711.86
15.737	675.10	15.737	688.23	15.737	703.75	15.737	708.63	15.737	711.42
15.717	674.65	15.717	687.80	15.717	703.32	15.717	708.25	15.717	710.94

15.697	674.13	15.697	687.35	15.697	702.86	15.697	707.80	15.697	710.48
15.677	673.66	15.677	686.89	15.677	702.43	15.677	707.36	15.677	710.11
15.657	673.14	15.657	686.43	15.657	701.99	15.657	706.91	15.657	709.60
15.638	672.68	15.638	686.01	15.638	701.46	15.638	706.42	15.638	709.17
15.618	672.16	15.618	685.57	15.618	700.99	15.618	705.95	15.618	708.73
15.598	671.67	15.598	685.11	15.598	700.56	15.598	705.52	15.598	708.28
15.578	671.17	15.578	684.69	15.578	700.11	15.578	705.04	15.578	707.90
15.558	670.65	15.558	684.27	15.558	699.61	15.558	704.56	15.558	707.38
15.538	670.14	15.538	683.78	15.538	699.17	15.538	704.11	15.538	706.94
15.518	669.63	15.518	683.34	15.518	698.69	15.518	703.63	15.518	706.48
15.498	669.13	15.498	682.90	15.498	698.00	15.498	703.13	15.498	706.05
15.478	668.63	15.478	682.47	15.478	697.58	15.478	702.70	15.478	705.55
15.458	668.10	15.458	682.01	15.458	697.15	15.458	702.21	15.458	705.14
15.438	667.55	15.438	681.52	15.438	696.59	15.438	701.73	15.438	704.69
15.418	667.00	15.418	681.07	15.418	696.18	15.418	701.23	15.418	704.25
15.398	666.48	15.398	680.62	15.398	695.71	15.398	700.72	15.398	703.79
15.379	665.96	15.379	680.17	15.379	695.21	15.379	700.22	15.379	703.30
15.359	665.41	15.359	679.71	15.359	694.76	15.359	699.73	15.359	702.80
15.339	664.86	15.339	679.17	15.339	694.28	15.339	699.23	15.339	702.38
15.319	664.31	15.319	678.71	15.319	693.85	15.319	698.77	15.319	701.91
15.299	663.77	15.299	678.24	15.299	693.24	15.299	698.35	15.299	701.48
15.279	663.24	15.279	677.77	15.279	692.73	15.279	697.77	15.279	700.98
15.259	662.64	15.259	677.30	15.259	692.21	15.259	697.29	15.259	700.54
15.239	662.09	15.239	676.77	15.239	691.71	15.239	696.83	15.239	700.05
15.219	661.56	15.219	676.26	15.219	691.22	15.219	696.30	15.219	699.57
15.199	660.95	15.199	675.75	15.199	690.78	15.199	695.81	15.199	699.11
15.179	660.38	15.179	675.24	15.179	690.41	15.179	695.32	15.179	698.59
15.159	659.83	15.159	674.75	15.159	690.01	15.159	694.81	15.159	698.11
15.140	659.28	15.140	674.26	15.140	689.53	15.140	694.33	15.140	697.65
15.120	658.69	15.120	673.72	15.120	689.13	15.120	693.80	15.120	697.12
15.100	658.09	15.100	673.19	15.100	688.66	15.100	693.27	15.100	696.67
15.080	657.55	15.080	672.69	15.080	688.22	15.080	692.80	15.080	696.17
15.060	656.97	15.060	672.19	15.060	687.78	15.060	692.24	15.060	695.61
15.040	656.40	15.040	671.69	15.040	687.35	15.040	691.75	15.040	695.16
15.020	655.80	15.020	671.18	15.020	686.90	15.020	691.25	15.020	694.65
15.000	655.21	15.000	670.65	15.000	686.45	15.000	690.70	15.000	694.18
14.980	654.58	14.980	670.11	14.980	685.99	14.980	690.13	14.980	693.65
14.960	653.99	14.960	669.59	14.960	685.53	14.960	689.63	14.960	693.07
14.940	653.36	14.940	669.05	14.940	685.08	14.940	689.10	14.940	692.60
14.920	652.81	14.920	668.51	14.920	684.55	14.920	688.59	14.920	692.07
14.901	652.20	14.901	667.97	14.901	684.11	14.901	688.00	14.901	691.54
14.881	651.56	14.881	667.42	14.881	683.68	14.881	687.50	14.881	691.00
14.861	651.01	14.861	666.87	14.861	683.19	14.861	686.93	14.861	690.49
14.841	650.37	14.841	666.30	14.841	682.71	14.841	686.44	14.841	689.98
14.821	649.71	14.821	665.75	14.821	682.20	14.821	685.92	14.821	689.42

14.801	649.14	14.801	665.16	14.801	681.72	14.801	685.36	14.801	688.89
14.781	648.52	14.781	664.61	14.781	681.24	14.781	684.81	14.781	688.31
14.761	647.87	14.761	664.03	14.761	680.75	14.761	684.25	14.761	687.75
14.741	647.22	14.741	663.46	14.741	680.19	14.741	683.68	14.741	687.20
14.721	646.58	14.721	662.88	14.721	679.69	14.721	683.15	14.721	686.69
14.701	645.97	14.701	662.30	14.701	679.20	14.701	682.58	14.701	686.12
14.681	645.33	14.681	661.72	14.681	678.73	14.681	682.07	14.681	685.56
14.661	644.64	14.661	661.12	14.661	678.19	14.661	681.51	14.661	685.09
14.642	644.03	14.642	660.52	14.642	677.60	14.642	680.93	14.642	684.61
14.622	643.43	14.622	659.92	14.622	677.05	14.622	680.38	14.622	684.17
14.602	642.74	14.602	659.32	14.602	676.56	14.602	679.82	14.602	683.66
14.582	642.12	14.582	658.77	14.582	676.08	14.582	679.32	14.582	683.16
14.562	641.49	14.562	658.16	14.562	675.49	14.562	678.72	14.562	682.66
14.542	640.80	14.542	657.53	14.542	674.98	14.542	678.15	14.542	682.10
14.522	640.09	14.522	656.91	14.522	674.43	14.522	677.62	14.522	681.53
14.502	639.49	14.502	656.35	14.502	673.89	14.502	677.04	14.502	681.06
14.482	638.78	14.482	655.71	14.482	673.38	14.482	676.44	14.482	680.53
14.462	638.15	14.462	655.06	14.462	672.81	14.462	675.87	14.462	680.03
14.442	637.43	14.442	654.44	14.442	672.24	14.442	675.31	14.442	679.50
14.422	636.76	14.422	653.81	14.422	671.70	14.422	674.70	14.422	678.96
14.403	636.11	14.403	653.19	14.403	671.13	14.403	674.14	14.403	678.37
14.383	635.38	14.383	652.58	14.383	670.55	14.383	673.52	14.383	677.85
14.363	634.72	14.363	651.90	14.363	669.94	14.363	672.99	14.363	677.30
14.343	634.03	14.343	651.22	14.343	669.38	14.343	672.34	14.343	676.73
14.323	633.30	14.323	650.58	14.323	668.84	14.323	671.72	14.323	676.16
14.303	632.55	14.303	649.92	14.303	668.25	14.303	671.15	14.303	675.61
14.283	631.84	14.283	649.29	14.283	667.69	14.283	670.58	14.283	675.04
14.263	631.14	14.263	648.59	14.263	667.03	14.263	669.94	14.263	674.44
14.243	630.88	14.243	647.96	14.243	666.43	14.243	669.34	14.243	673.86
14.223	630.53	14.223	647.34	14.223	665.80	14.223	668.77	14.223	673.25
14.203	630.00	14.203	646.60	14.203	665.20	14.203	668.13	14.203	672.70
14.183	629.36	14.183	645.97	14.183	664.61	14.183	667.55	14.183	672.09
14.163	628.74	14.163	645.31	14.163	663.96	14.163	666.88	14.163	671.48
14.144	628.10	14.144	644.62	14.144	663.38	14.144	666.28	14.144	670.94
14.124	627.47	14.124	643.92	14.124	662.80	14.124	665.71	14.124	670.27
14.104	626.88	14.104	643.21	14.104	662.18	14.104	665.06	14.104	669.70
14.084	626.17	14.084	642.50	14.084	661.54	14.084	664.44	14.084	669.37
14.064	625.53	14.064	641.77	14.064	660.92	14.064	663.78	14.064	668.89
14.044	624.88	14.044	641.04	14.044	660.23	14.044	663.11	14.044	668.40
14.024	624.29	14.024	640.31	14.024	659.61	14.024	662.45	14.024	667.80
14.004	623.65	14.004	639.65	14.004	658.99	14.004	661.84	14.004	667.29
13.984	622.97	13.984	638.91	13.984	658.32	13.984	661.15	13.984	666.71
13.964	622.29	13.964	638.20	13.964	657.65	13.964	660.46	13.964	666.10
13.944	621.60	13.944	637.47	13.944	657.02	13.944	659.80	13.944	665.64
13.924	620.93	13.924	636.70	13.924	656.35	13.924	659.15	13.924	665.01

13.905	620.27	13.905	636.02	13.905	655.67	13.905	658.48	13.905	664.48
13.885	619.56	13.885	635.25	13.885	654.96	13.885	657.84	13.885	663.94
13.865	618.90	13.865	634.55	13.865	654.31	13.865	657.15	13.865	663.31
13.845	618.21	13.845	633.76	13.845	653.63	13.845	656.49	13.845	662.73
13.825	617.48	13.825	633.03	13.825	652.89	13.825	655.78	13.825	662.17
13.805	616.74	13.805	632.22	13.805	652.19	13.805	655.12	13.805	661.58
13.785	615.98	13.785	631.44	13.785	651.50	13.785	654.39	13.785	660.95
13.765	615.23	13.765	630.71	13.765	650.80	13.765	653.65	13.765	660.34
13.745	614.48	13.745	629.86	13.745	650.12	13.745	653.03	13.745	659.71
13.725	613.74	13.725	629.11	13.725	649.41	13.725	652.34	13.725	659.08
13.705	613.04	13.705	628.31	13.705	648.71	13.705	651.57	13.705	658.43
13.685	612.25	13.685	627.54	13.685	647.99	13.685	650.81	13.685	657.77
13.665	611.50	13.665	626.73	13.665	647.25	13.665	650.15	13.665	657.15
13.646	610.76	13.646	625.92	13.646	646.53	13.646	649.53	13.646	656.54
13.626	609.98	13.626	625.14	13.626	645.78	13.626	648.85	13.626	655.85
13.606	609.23	13.606	624.35	13.606	645.00	13.606	648.23	13.606	655.23
13.586	608.43	13.586	623.53	13.586	644.24	13.586	647.57	13.586	654.53
13.566	607.62	13.566	622.65	13.566	643.52	13.566	646.90	13.566	653.92
13.546	606.82	13.546	621.87	13.546	642.76	13.546	646.21	13.546	653.16
13.526	606.02	13.526	620.99	13.526	642.02	13.526	645.52	13.526	652.52
13.506	605.23	13.506	620.16	13.506	641.26	13.506	644.78	13.506	651.83
13.486	604.35	13.486	619.33	13.486	640.52	13.486	644.12	13.486	651.11
13.466	603.58	13.466	618.46	13.466	639.77	13.466	643.37	13.466	650.43
13.446	602.73	13.446	617.59	13.446	638.97	13.446	642.63	13.446	649.70
13.426	601.87	13.426	616.79	13.426	638.18	13.426	641.92	13.426	648.98
13.407	601.05	13.407	615.92	13.407	637.37	13.407	641.13	13.407	648.28
13.387	600.16	13.387	615.04	13.387	636.52	13.387	640.29	13.387	647.56
13.367	599.34	13.367	614.16	13.367	635.77	13.367	639.61	13.367	646.78
13.347	598.44	13.347	613.29	13.347	634.93	13.347	638.90	13.347	646.07
13.327	597.55	13.327	612.37	13.327	634.17	13.327	638.08	13.327	645.37
13.307	596.65	13.307	611.48	13.307	633.33	13.307	637.34	13.307	644.58
13.287	595.75	13.287	610.59	13.287	632.42	13.287	636.55	13.287	643.86
13.267	594.86	13.267	609.72	13.267	631.67	13.267	635.77	13.267	643.09
13.247	593.94	13.247	608.80	13.247	630.83	13.247	634.99	13.247	642.31
13.227	593.00	13.227	607.86	13.227	629.98	13.227	634.23	13.227	641.54
13.207	592.12	13.207	606.92	13.207	629.14	13.207	633.45	13.207	640.77
13.187	591.13	13.187	606.01	13.187	628.33	13.187	632.60	13.187	639.98
13.167	590.15	13.167	605.05	13.167	627.45	13.167	631.79	13.167	639.15
13.148	589.27	13.148	604.14	13.148	626.56	13.148	630.97	13.148	638.31
13.128	588.32	13.128	603.17	13.128	625.76	13.128	630.17	13.128	637.54
13.108	587.33	13.108	602.20	13.108	624.88	13.108	629.38	13.108	636.80
13.088	586.32	13.088	601.29	13.088	624.01	13.088	628.57	13.088	635.96
13.068	585.35	13.068	600.26	13.068	623.04	13.068	627.66	13.068	635.17
13.048	584.41	13.048	599.26	13.048	622.16	13.048	626.85	13.048	634.31
13.028	583.40	13.028	598.29	13.028	621.22	13.028	626.05	13.028	630.22

13.008	582.36	13.008	597.33	13.008	620.36	13.008	625.16	13.008	629.61
12.988	581.33	12.988	596.26	12.988	619.45	12.988	624.29	12.988	628.90
12.968	580.30	12.968	595.27	12.968	618.60	12.968	623.44	12.968	628.16
12.948	579.24	12.948	594.30	12.948	617.64	12.948	622.58	12.948	627.40
12.928	578.21	12.928	593.24	12.928	616.78	12.928	621.70	12.928	626.67
12.909	577.18	12.909	592.23	12.909	615.81	12.909	620.80	12.909	625.86
12.889	576.13	12.889	591.18	12.889	614.91	12.889	619.89	12.889	625.03
12.869	575.04	12.869	590.15	12.869	613.88	12.869	618.99	12.869	624.22
12.849	573.94	12.849	589.03	12.849	612.95	12.849	618.07	12.849	623.45
12.829	572.84	12.829	587.98	12.829	611.94	12.829	617.22	12.829	622.64
12.809	571.75	12.809	586.85	12.809	611.01	12.809	616.31	12.809	621.73
12.789	570.65	12.789	585.85	12.789	610.01	12.789	615.39	12.789	620.93
12.769	569.54	12.769	584.72	12.769	609.02	12.769	614.45	12.769	620.03
12.749	568.43	12.749	583.64	12.749	608.01	12.749	613.51	12.749	619.13
12.729	567.32	12.729	582.63	12.729	607.01	12.729	612.53	12.729	618.19
12.709	566.14	12.709	581.50	12.709	606.01	12.709	611.53	12.709	617.29
12.689	564.97	12.689	580.42	12.689	605.01	12.689	610.50	12.689	616.36
12.669	563.80	12.669	579.20	12.669	603.95	12.669	609.55	12.669	615.39
12.650	562.62	12.650	578.04	12.650	602.93	12.650	608.52	12.650	614.46
12.630	561.45	12.630	576.90	12.630	601.85	12.630	607.46	12.630	613.49
12.610	560.24	12.610	575.74	12.610	600.84	12.610	606.39	12.610	612.54
12.590	559.07	12.590	574.61	12.590	599.81	12.590	605.36	12.590	611.48
12.570	557.86	12.570	573.47	12.570	598.76	12.570	604.22	12.570	610.53
12.550	556.62	12.550	572.26	12.550	597.64	12.550	603.14	12.550	609.47
12.530	555.36	12.530	571.08	12.530	596.60	12.530	602.06	12.530	608.44
12.510	554.10	12.510	569.95	12.510	595.50	12.510	601.00	12.510	607.45
12.490	552.83	12.490	568.69	12.490	594.40	12.490	599.79	12.490	606.40
12.470	551.56	12.470	567.50	12.470	593.34	12.470	598.70	12.470	605.35
12.450	550.31	12.450	566.29	12.450	592.17	12.450	597.57	12.450	604.26
12.430	549.06	12.430	565.06	12.430	591.01	12.430	596.42	12.430	603.18
12.411	547.82	12.411	563.79	12.411	589.86	12.411	595.23	12.411	602.03
12.391	546.48	12.391	562.63	12.391	588.76	12.391	594.13	12.391	600.92
12.371	545.15	12.371	561.31	12.371	587.62	12.371	592.99	12.371	599.84
12.351	543.86	12.351	559.96	12.351	586.48	12.351	591.82	12.351	598.74
12.331	542.54	12.331	558.75	12.331	585.29	12.331	590.62	12.331	597.62
12.311	541.22	12.311	557.51	12.311	584.10	12.311	589.45	12.311	596.51
12.291	539.86	12.291	556.25	12.291	582.91	12.291	588.27	12.291	595.34
12.271	538.51	12.271	554.93	12.271	581.67	12.271	587.12	12.271	594.08
12.251	537.10	12.251	553.66	12.251	580.46	12.251	585.87	12.251	592.87
12.231	535.69	12.231	552.26	12.231	579.26	12.231	584.68	12.231	591.69
12.211	534.30	12.211	550.93	12.211	578.09	12.211	583.51	12.211	590.52
12.191	532.91	12.191	549.58	12.191	576.81	12.191	582.19	12.191	589.33
12.171	531.53	12.171	548.19	12.171	575.56	12.171	580.94	12.171	588.10
12.152	530.09	12.152	546.82	12.152	574.17	12.152	579.70	12.152	586.81
12.132	528.64	12.132	545.38	12.132	572.86	12.132	578.40	12.132	585.63

12.112	527.18	12.112	543.97	12.112	571.68	12.112	577.11	12.112	584.36
12.092	525.78	12.092	542.66	12.092	570.37	12.092	575.83	12.092	583.08
12.072	524.33	12.072	541.26	12.072	568.97	12.072	574.56	12.072	581.74
12.052	522.85	12.052	539.79	12.052	567.71	12.052	573.25	12.052	580.52
12.032	521.40	12.032	538.40	12.032	566.30	12.032	571.86	12.032	579.21
12.012	519.92	12.012	537.01	12.012	565.04	12.012	570.67	12.012	577.87
11.992	518.39	11.992	535.52	11.992	563.65	11.992	569.92	11.992	576.48
11.972	516.83	11.972	534.08	11.972	562.27	11.972	568.85	11.972	575.16
11.952	515.35	11.952	532.56	11.952	560.80	11.952	567.78	11.952	573.77
11.932	513.85	11.932	531.08	11.932	559.39	11.932	566.74	11.932	572.53
11.913	512.30	11.913	529.60	11.913	557.96	11.913	565.64	11.913	571.16
11.893	510.75	11.893	528.08	11.893	556.58	11.893	564.51	11.893	569.61
11.873	509.23	11.873	526.54	11.873	555.14	11.873	563.31	11.873	568.31
11.853	507.67	11.853	524.98	11.853	553.70	11.853	562.12	11.853	566.92
11.833	506.08	11.833	523.42	11.833	552.23	11.833	560.86	11.833	565.47
11.813	504.50	11.813	521.84	11.813	550.75	11.813	559.56	11.813	564.04
11.793	502.79	11.793	520.27	11.793	549.30	11.793	558.34	11.793	562.59
11.773	501.20	11.773	518.73	11.773	547.74	11.773	557.01	11.773	561.20
11.753	499.61	11.753	517.15	11.753	546.25	11.753	555.73	11.753	559.71
11.733	497.97	11.733	515.45	11.733	544.72	11.733	554.45	11.733	558.21
11.713	496.35	11.713	513.77	11.713	543.16	11.713	553.08	11.713	556.68
11.693	494.72	11.693	512.15	11.693	541.50	11.693	551.73	11.693	555.10
11.673	493.05	11.673	510.56	11.673	539.99	11.673	550.27	11.673	553.62
11.654	491.44	11.654	508.92	11.654	538.46	11.654	548.81	11.654	552.14
11.634	489.70	11.634	507.27	11.634	536.92	11.634	547.49	11.634	550.51
11.614	488.00	11.614	505.54	11.614	535.14	11.614	546.01	11.614	548.95
11.594	486.36	11.594	503.80	11.594	533.42	11.594	544.54	11.594	547.37
11.574	484.60	11.574	502.10	11.574	531.86	11.574	543.00	11.574	545.82
11.554	482.81	11.554	500.32	11.554	530.24	11.554	541.49	11.554	544.12
11.534	481.18	11.534	498.67	11.534	528.54	11.534	539.95	11.534	542.50
11.514	479.43	11.514	496.80	11.514	526.83	11.514	538.37	11.514	540.84
11.494	477.77	11.494	495.08	11.494	525.10	11.494	536.70	11.494	539.17
11.474	475.92	11.474	493.35	11.474	523.37	11.474	535.12	11.474	537.43
11.454	474.11	11.454	491.48	11.454	521.58	11.454	533.47	11.454	535.75
11.434	472.30	11.434	489.65	11.434	519.90	11.434	531.84	11.434	533.82
11.415	470.60	11.415	487.80	11.415	518.08	11.415	530.19	11.415	532.11
11.395	468.82	11.395	485.94	11.395	516.23	11.395	528.44	11.395	530.35
11.375	466.97	11.375	484.15	11.375	514.32	11.375	526.70	11.375	528.41
11.355	465.16	11.355	482.26	11.355	512.59	11.355	524.96	11.355	527.09
11.335	463.34	11.335	480.42	11.335	510.75	11.335	523.16	11.335	525.62
11.315	461.50	11.315	478.61	11.315	508.97	11.315	521.41	11.315	523.95
11.295	459.57	11.295	476.80	11.295	507.03	11.295	519.56	11.295	522.31
11.275	457.74	11.275	474.91	11.275	505.17	11.275	517.79	11.275	520.63
11.255	455.89	11.255	472.96	11.255	503.17	11.255	515.85	11.255	518.93
11.235	453.97	11.235	471.04	11.235	501.26	11.235	513.99	11.235	517.18

11.215	452.14	11.215	469.13	11.215	499.40	11.215	512.15	11.215	515.36
11.195	450.25	11.195	467.18	11.195	497.45	11.195	510.28	11.195	513.49
11.175	448.41	11.175	465.28	11.175	495.41	11.175	508.40	11.175	511.64
11.156	446.46	11.156	463.43	11.156	493.40	11.156	506.37	11.156	509.82
11.136	444.58	11.136	461.39	11.136	491.45	11.136	504.38	11.136	507.88
11.116	442.64	11.116	459.42	11.116	489.39	11.116	502.46	11.116	506.02
11.096	440.71	11.096	457.48	11.096	487.30	11.096	500.49	11.096	504.03
11.076	438.84	11.076	455.48	11.076	485.21	11.076	498.52	11.076	502.01
11.056	436.96	11.056	453.61	11.056	483.25	11.056	496.51	11.056	499.99
11.036	434.98	11.036	451.60	11.036	481.18	11.036	494.39	11.036	498.06
11.016	433.14	11.016	449.58	11.016	479.03	11.016	492.35	11.016	495.81
10.996	431.23	10.996	447.53	10.996	476.93	10.996	490.31	10.996	493.72
10.976	429.27	10.976	445.58	10.976	474.86	10.976	488.23	10.976	491.61
10.956	427.41	10.956	443.65	10.956	472.64	10.956	486.03	10.956	489.45
10.936	425.53	10.936	441.61	10.936	470.61	10.936	483.97	10.936	487.28
10.917	423.61	10.917	439.61	10.917	468.48	10.917	481.85	10.917	485.10
10.897	421.61	10.897	437.49	10.897	466.30	10.897	479.74	10.897	482.92
10.877	419.75	10.877	435.50	10.877	464.14	10.877	477.53	10.877	480.58
10.857	417.72	10.857	433.50	10.857	461.94	10.857	475.20	10.857	478.39
10.837	415.73	10.837	431.44	10.837	459.74	10.837	472.98	10.837	476.05
10.817	413.83	10.817	429.44	10.817	457.49	10.817	470.65	10.817	473.75
10.797	411.86	10.797	427.33	10.797	455.32	10.797	468.51	10.797	471.48
10.777	409.91	10.777	425.31	10.777	453.03	10.777	466.25	10.777	469.22
10.757	408.01	10.757	423.26	10.757	450.84	10.757	464.01	10.757	466.79
10.737	405.98	10.737	421.16	10.737	448.66	10.737	461.74	10.737	464.49
10.717	404.01	10.717	419.10	10.717	446.20	10.717	459.40	10.717	462.05
10.697	402.09	10.697	417.01	10.697	443.97	10.697	457.08	10.697	459.84
10.677	400.13	10.677	414.91	10.677	441.77	10.677	454.74	10.677	457.52
10.658	398.11	10.658	412.92	10.658	439.41	10.658	452.32	10.658	455.16
10.638	396.20	10.638	410.83	10.638	437.13	10.638	449.97	10.638	452.81
10.618	394.25	10.618	408.72	10.618	434.87	10.618	447.62	10.618	450.47
10.598	392.34	10.598	406.66	10.598	432.59	10.598	445.16	10.598	448.29
10.578	390.30	10.578	404.67	10.578	430.90	10.578	442.70	10.578	445.86
10.558	388.39	10.558	402.62	10.558	428.89	10.558	440.22	10.558	443.59
10.538	386.43	10.538	400.45	10.538	427.03	10.538	437.80	10.538	441.26
10.518	384.54	10.518	398.43	10.518	425.12	10.518	435.50	10.518	439.26
10.498	382.59	10.498	396.49	10.498	423.30	10.498	433.03	10.498	437.04
10.478	380.57	10.478	394.33	10.478	422.50	10.478	430.60	10.478	435.70
10.458	378.67	10.458	392.25	10.458	421.21	10.458	428.21	10.458	434.99
10.438	376.76	10.438	390.22	10.438	419.55	10.438	425.76	10.438	433.40
10.419	374.86	10.419	388.18	10.419	417.77	10.419	423.29	10.419	431.62
10.399	372.97	10.399	386.12	10.399	416.00	10.399	420.81	10.399	429.86
10.379	371.03	10.379	384.14	10.379	414.17	10.379	418.49	10.379	428.06
10.359	369.17	10.359	382.19	10.359	412.39	10.359	416.05	10.359	426.25
10.339	367.29	10.339	380.13	10.339	410.51	10.339	413.53	10.339	424.35

10.319	365.39	10.319	378.13	10.319	408.69	10.319	411.17	10.319	422.47
10.299	363.53	10.299	376.12	10.299	406.84	10.299	408.78	10.299	420.54
10.279	361.71	10.279	374.21	10.279	404.85	10.279	406.40	10.279	418.59
10.259	359.83	10.259	372.17	10.259	403.02	10.259	403.90	10.259	416.64
10.239	358.04	10.239	370.17	10.239	401.12	10.239	401.53	10.239	414.76
10.219	356.19	10.219	368.26	10.219	399.07	10.219	399.10	10.219	412.70
10.199	354.39	10.199	366.22	10.199	396.96	10.199	396.70	10.199	410.69
10.179	352.53	10.179	364.32	10.179	394.96	10.179	394.26	10.179	408.61
10.160	350.74	10.160	362.31	10.160	392.98	10.160	391.90	10.160	406.55
10.140	348.91	10.140	360.38	10.140	390.97	10.140	389.55	10.140	404.47
10.120	347.13	10.120	358.39	10.120	388.94	10.120	387.16	10.120	402.31
10.100	345.38	10.100	356.42	10.100	386.98	10.100	384.81	10.100	400.14
10.080	343.71	10.080	354.47	10.080	384.92	10.080	382.50	10.080	398.03
10.060	341.94	10.060	352.67	10.060	382.92	10.060	380.23	10.060	395.95
10.040	340.08	10.040	350.74	10.040	380.83	10.040	377.80	10.040	393.65
10.020	338.40	10.020	348.83	10.020	378.80	10.020	375.58	10.020	391.34
10.000	336.70	10.000	347.03	10.000	376.64	10.000	373.33	10.000	389.11
9.980	335.02	9.980	345.15	9.980	374.67	9.980	371.17	9.980	386.87
9.960	333.34	9.960	343.32	9.960	372.51	9.960	368.82	9.960	384.69
9.940	331.64	9.940	341.52	9.940	370.42	9.940	366.61	9.940	382.44
9.921	329.98	9.921	339.68	9.921	368.33	9.921	364.46	9.921	380.16
9.901	328.24	9.901	337.94	9.901	366.31	9.901	362.29	9.901	377.97
9.881	327.11	9.881	336.06	9.881	364.26	9.881	360.18	9.881	375.70
9.861	326.02	9.861	334.29	9.861	362.03	9.861	358.08	9.861	373.50
9.841	324.50	9.841	332.49	9.841	359.81	9.841	355.91	9.841	371.30
9.821	323.12	9.821	330.66	9.821	357.70	9.821	353.85	9.821	369.12
9.801	321.63	9.801	328.99	9.801	355.71	9.801	351.63	9.801	366.87
9.781	320.13	9.781	327.26	9.781	353.61	9.781	349.63	9.781	364.58
9.761	318.69	9.761	325.52	9.761	351.55	9.761	347.52	9.761	362.44
9.741	317.13	9.741	323.80	9.741	349.54	9.741	345.37	9.741	360.24
9.721	315.69	9.721	322.06	9.721	347.50	9.721	343.29	9.721	357.98
9.701	314.18	9.701	320.37	9.701	345.47	9.701	341.32	9.701	355.73
9.681	312.67	9.681	318.82	9.681	343.40	9.681	339.28	9.681	353.45
9.662	311.19	9.662	317.12	9.662	341.44	9.662	337.23	9.662	351.20
9.642	309.75	9.642	316.25	9.642	339.45	9.642	335.29	9.642	349.13
9.622	308.19	9.622	315.63	9.622	337.37	9.622	333.28	9.622	346.92
9.602	306.63	9.602	314.67	9.602	335.43	9.602	331.31	9.602	344.81
9.582	305.09	9.582	313.21	9.582	333.41	9.582	329.43	9.582	342.72
9.562	303.67	9.562	311.73	9.562	331.47	9.562	327.48	9.562	340.58
9.542	302.14	9.542	310.26	9.542	329.50	9.542	325.49	9.542	338.48
9.522	300.77	9.522	308.83	9.522	327.55	9.522	323.62	9.522	336.36
9.502	299.34	9.502	307.42	9.502	325.60	9.502	321.75	9.502	334.31
9.482	297.89	9.482	306.02	9.482	323.61	9.482	319.88	9.482	332.27
9.462	296.42	9.462	304.61	9.462	321.58	9.462	317.99	9.462	330.20
9.442	294.97	9.442	303.17	9.442	319.74	9.442	316.26	9.442	328.15

9.423	293.57	9.423	301.71	9.423	317.90	9.423	314.40	9.423	326.24
9.403	292.08	9.403	300.29	9.403	315.97	9.403	312.57	9.403	324.19
9.383	290.60	9.383	298.93	9.383	314.13	9.383	310.74	9.383	322.18
9.363	289.20	9.363	297.46	9.363	312.27	9.363	308.94	9.363	320.22
9.343	287.82	9.343	296.03	9.343	310.45	9.343	307.25	9.343	318.10
9.323	286.39	9.323	294.65	9.323	308.70	9.323	305.53	9.323	316.20
9.303	284.98	9.303	293.24	9.303	306.96	9.303	303.75	9.303	314.27
9.283	283.62	9.283	291.83	9.283	305.15	9.283	302.06	9.283	312.41
9.263	282.21	9.263	290.39	9.263	303.38	9.263	300.34	9.263	310.55
9.243	280.78	9.243	288.97	9.243	301.66	9.243	298.66	9.243	308.72
9.223	279.31	9.223	287.58	9.223	299.92	9.223	296.98	9.223	306.85
9.203	277.92	9.203	286.11	9.203	298.14	9.203	295.35	9.203	305.02
9.183	276.61	9.183	284.67	9.183	296.43	9.183	293.70	9.183	303.23
9.164	275.25	9.164	283.22	9.164	294.73	9.164	292.12	9.164	301.37
9.144	273.89	9.144	281.79	9.144	293.07	9.144	290.51	9.144	299.61
9.124	272.57	9.124	280.39	9.124	291.41	9.124	288.87	9.124	297.89
9.104	271.26	9.104	279.01	9.104	289.69	9.104	287.36	9.104	296.09
9.084	269.89	9.084	277.66	9.084	288.11	9.084	286.48	9.084	294.36
9.064	268.54	9.064	276.31	9.064	286.49	9.064	285.13	9.064	292.65
9.044	267.23	9.044	274.91	9.044	284.87	9.044	283.66	9.044	290.99
9.024	265.94	9.024	273.56	9.024	283.33	9.024	282.23	9.024	289.25
9.004	264.70	9.004	272.18	9.004	281.67	9.004	280.80	9.004	287.50
8.984	263.40	8.984	270.92	8.984	279.99	8.984	279.28	8.984	285.77
8.964	262.10	8.964	269.55	8.964	278.43	8.964	277.88	8.964	284.12
8.944	260.79	8.944	268.19	8.944	276.91	8.944	276.46	8.944	282.50
8.925	259.56	8.925	266.92	8.925	275.40	8.925	275.06	8.925	280.92
8.905	258.28	8.905	265.61	8.905	273.88	8.905	273.71	8.905	279.30
8.885	256.96	8.885	264.29	8.885	272.32	8.885	272.31	8.885	277.73
8.865	255.69	8.865	263.01	8.865	270.91	8.865	270.86	8.865	276.20
8.845	254.47	8.845	261.66	8.845	269.42	8.845	269.51	8.845	274.59
8.825	253.22	8.825	260.39	8.825	267.92	8.825	268.14	8.825	273.04
8.805	251.98	8.805	259.12	8.805	266.49	8.805	266.77	8.805	271.54
8.785	250.76	8.785	257.83	8.785	265.04	8.785	265.34	8.785	270.02
8.765	249.59	8.765	256.58	8.765	263.57	8.765	263.97	8.765	268.52
8.745	248.38	8.745	255.31	8.745	262.17	8.745	262.63	8.745	267.01
8.725	247.18	8.725	254.03	8.725	260.79	8.725	261.26	8.725	265.55
8.705	246.00	8.705	252.77	8.705	259.38	8.705	259.84	8.705	264.15
8.685	244.83	8.685	251.51	8.685	257.99	8.685	258.50	8.685	262.62
8.666	243.67	8.666	250.27	8.666	256.64	8.666	257.12	8.666	261.17
8.646	242.57	8.646	249.09	8.646	255.28	8.646	255.88	8.646	259.71
8.626	241.38	8.626	247.81	8.626	253.94	8.626	254.52	8.626	258.22
8.606	240.20	8.606	246.60	8.606	252.61	8.606	253.24	8.606	256.80
8.586	239.06	8.586	245.39	8.586	251.21	8.586	251.94	8.586	255.39
8.566	237.91	8.566	244.21	8.566	249.93	8.566	250.64	8.566	254.09
8.546	236.80	8.546	242.99	8.546	248.53	8.546	249.37	8.546	252.66

8.526	235.59	8.526	241.73	8.526	247.19	8.526	248.14	8.526	251.34
8.506	234.45	8.506	240.50	8.506	245.95	8.506	246.81	8.506	250.00
8.486	233.36	8.486	239.27	8.486	244.68	8.486	245.55	8.486	248.68
8.466	232.27	8.466	238.07	8.466	243.39	8.466	244.32	8.466	247.36
8.446	231.13	8.446	236.90	8.446	242.14	8.446	243.06	8.446	246.09
8.427	230.08	8.427	235.74	8.427	240.88	8.427	241.81	8.427	244.80
8.407	228.98	8.407	234.59	8.407	239.65	8.407	240.64	8.407	243.54
8.387	227.93	8.387	233.47	8.387	238.42	8.387	239.41	8.387	242.24
8.367	226.87	8.367	232.30	8.367	237.23	8.367	238.09	8.367	240.93
8.347	225.78	8.347	231.23	8.347	235.97	8.347	236.89	8.347	239.68
8.327	224.75	8.327	230.07	8.327	234.79	8.327	235.64	8.327	238.37
8.307	223.68	8.307	228.95	8.307	233.62	8.307	234.48	8.307	237.07
8.287	222.64	8.287	227.86	8.287	232.49	8.287	233.35	8.287	235.87
8.267	221.64	8.267	226.78	8.267	231.21	8.267	232.16	8.267	234.63
8.247	220.60	8.247	225.69	8.247	230.08	8.247	231.01	8.247	233.43
8.227	219.58	8.227	224.60	8.227	228.92	8.227	229.87	8.227	232.18
8.207	218.54	8.207	223.52	8.207	227.78	8.207	228.74	8.207	231.03
8.187	217.54	8.187	222.44	8.187	226.65	8.187	227.62	8.187	229.82
8.168	216.52	8.168	221.35	8.168	225.52	8.168	226.46	8.168	228.69
8.148	215.43	8.148	220.31	8.148	224.35	8.148	225.31	8.148	227.55
8.128	214.39	8.128	219.29	8.128	223.26	8.128	224.17	8.128	226.36
8.108	213.44	8.108	218.21	8.108	222.12	8.108	223.10	8.108	225.19
8.088	212.46	8.088	217.19	8.088	221.03	8.088	221.96	8.088	224.05
8.068	211.46	8.068	216.17	8.068	219.89	8.068	220.79	8.068	222.90
8.048	210.49	8.048	215.11	8.048	218.72	8.048	219.68	8.048	221.76
8.028	209.54	8.028	214.06	8.028	217.60	8.028	218.65	8.028	220.63
8.008	208.53	8.008	213.02	8.008	216.58	8.008	217.54	8.008	219.60
7.988	207.58	7.988	212.01	7.988	215.45	7.988	216.49	7.988	218.45
7.968	206.69	7.968	211.00	7.968	214.42	7.968	215.42	7.968	217.37
7.948	205.73	7.948	210.00	7.948	213.37	7.948	214.39	7.948	216.29
7.929	204.74	7.929	209.07	7.929	212.33	7.929	213.32	7.929	215.15
7.909	203.81	7.909	208.05	7.909	211.30	7.909	212.28	7.909	214.14
7.889	202.88	7.889	206.98	7.889	210.28	7.889	211.25	7.889	213.09
7.869	201.96	7.869	205.92	7.869	209.25	7.869	210.18	7.869	211.98
7.849	201.04	7.849	204.89	7.849	208.21	7.849	209.19	7.849	210.95
7.829	200.08	7.829	203.95	7.829	207.19	7.829	208.22	7.829	209.88
7.809	199.24	7.809	203.03	7.809	206.22	7.809	207.20	7.809	208.84
7.789	198.33	7.789	202.06	7.789	205.24	7.789	206.10	7.789	207.78
7.769	197.39	7.769	201.08	7.769	204.21	7.769	205.06	7.769	206.79
7.749	196.44	7.749	200.14	7.749	203.23	7.749	204.12	7.749	205.77
7.729	195.50	7.729	199.19	7.729	202.21	7.729	203.13	7.729	204.75
7.709	194.63	7.709	198.27	7.709	201.29	7.709	202.18	7.709	203.71
7.689	193.75	7.689	197.34	7.689	200.30	7.689	201.20	7.689	202.65
7.670	192.84	7.670	196.41	7.670	199.28	7.670	200.22	7.670	201.63
7.650	192.02	7.650	195.50	7.650	198.25	7.650	199.26	7.650	200.60

7.630	191.11	7.630	194.61	7.630	197.29	7.630	198.29	7.630	199.62
7.610	190.24	7.610	193.68	7.610	196.36	7.610	197.31	7.610	198.66
7.590	189.40	7.590	192.76	7.590	195.42	7.590	196.35	7.590	197.73
7.570	188.58	7.570	191.88	7.570	194.47	7.570	195.48	7.570	196.77
7.550	187.70	7.550	190.95	7.550	193.53	7.550	194.51	7.550	195.84
7.530	186.79	7.530	190.06	7.530	192.62	7.530	193.59	7.530	194.85
7.510	185.97	7.510	189.19	7.510	191.70	7.510	192.71	7.510	193.94
7.490	185.14	7.490	188.31	7.490	190.84	7.490	191.71	7.490	193.00
7.470	184.33	7.470	187.40	7.470	189.90	7.470	190.75	7.470	192.06
7.450	183.44	7.450	186.55	7.450	189.02	7.450	189.85	7.450	191.10
7.431	182.62	7.431	185.70	7.431	188.13	7.431	188.95	7.431	190.21
7.411	181.82	7.411	184.81	7.411	187.25	7.411	188.06	7.411	189.28
7.391	180.96	7.391	183.88	7.391	186.32	7.391	187.15	7.391	188.38
7.371	180.09	7.371	182.96	7.371	185.44	7.371	186.27	7.371	187.48
7.351	179.27	7.351	182.08	7.351	184.55	7.351	185.37	7.351	186.56
7.331	178.44	7.331	181.27	7.331	183.62	7.331	184.52	7.331	185.65
7.311	177.62	7.311	180.44	7.311	182.76	7.311	183.64	7.311	184.80
7.291	176.87	7.291	179.61	7.291	181.90	7.291	182.75	7.291	183.92
7.271	176.06	7.271	178.81	7.271	181.05	7.271	181.90	7.271	182.96
7.251	175.24	7.251	177.94	7.251	180.20	7.251	181.05	7.251	182.00
7.231	174.48	7.231	177.12	7.231	179.36	7.231	180.18	7.231	181.20
7.211	173.71	7.211	176.32	7.211	178.44	7.211	179.29	7.211	180.27
7.191	172.90	7.191	175.47	7.191	177.66	7.191	178.45	7.191	179.44
7.172	172.09	7.172	174.64	7.172	176.81	7.172	177.55	7.172	178.59
7.152	171.32	7.152	173.85	7.152	175.91	7.152	176.75	7.152	177.72
7.132	170.54	7.132	173.05	7.132	175.03	7.132	175.93	7.132	176.88
7.112	169.75	7.112	172.29	7.112	174.24	7.112	175.11	7.112	176.05
7.092	168.99	7.092	171.47	7.092	173.41	7.092	174.25	7.092	175.17
7.072	168.23	7.072	170.66	7.072	172.56	7.072	173.41	7.072	174.34
7.052	167.50	7.052	169.89	7.052	171.79	7.052	172.59	7.052	173.52
7.032	166.72	7.032	169.13	7.032	170.92	7.032	171.78	7.032	172.70
7.012	165.94	7.012	168.31	7.012	170.10	7.012	171.05	7.012	171.89
6.992	165.21	6.992	167.50	6.992	169.35	6.992	170.19	6.992	171.08
6.972	164.48	6.972	166.74	6.972	168.53	6.972	169.32	6.972	170.27
6.952	163.66	6.952	165.95	6.952	167.75	6.952	168.50	6.952	169.45
6.933	162.92	6.933	165.20	6.933	166.94	6.933	167.76	6.933	168.60
6.913	162.18	6.913	164.47	6.913	166.13	6.913	166.93	6.913	167.82
6.893	161.42	6.893	163.71	6.893	165.38	6.893	166.19	6.893	167.03
6.873	160.68	6.873	162.87	6.873	164.62	6.873	165.36	6.873	166.15
6.853	159.93	6.853	162.02	6.853	163.83	6.853	164.62	6.853	165.31
6.833	159.18	6.833	161.26	6.833	163.01	6.833	163.79	6.833	164.57
6.813	158.44	6.813	160.52	6.813	162.31	6.813	163.05	6.813	163.78
6.793	157.72	6.793	159.77	6.793	161.47	6.793	162.29	6.793	163.03
6.773	157.04	6.773	159.02	6.773	160.77	6.773	161.54	6.773	162.23
6.753	156.32	6.753	158.27	6.753	160.00	6.753	160.74	6.753	161.47

6.733	155.57	6.733	157.54	6.733	159.22	6.733	159.98	6.733	160.69
6.713	154.87	6.713	156.85	6.713	158.43	6.713	159.22	6.713	159.90
6.693	154.18	6.693	156.13	6.693	157.63	6.693	158.45	6.693	159.17
6.674	153.45	6.674	155.38	6.674	156.87	6.674	157.67	6.674	158.44
6.654	152.76	6.654	154.64	6.654	156.16	6.654	156.95	6.654	157.61
6.634	152.09	6.634	153.94	6.634	155.42	6.634	156.17	6.634	156.86
6.614	151.38	6.614	153.19	6.614	154.67	6.614	155.48	6.614	156.13
6.594	150.67	6.594	152.53	6.594	153.92	6.594	154.71	6.594	155.39
6.574	150.00	6.574	151.78	6.574	153.23	6.574	154.01	6.574	154.64
6.554	149.25	6.554	151.06	6.554	152.51	6.554	153.29	6.554	153.93
6.534	148.51	6.534	150.37	6.534	151.78	6.534	152.54	6.534	153.18
6.514	147.84	6.514	149.68	6.514	151.02	6.514	151.82	6.514	152.44
6.494	147.19	6.494	148.98	6.494	150.34	6.494	151.13	6.494	151.70
6.474	146.49	6.474	148.28	6.474	149.64	6.474	150.39	6.474	150.96
6.454	145.81	6.454	147.59	6.454	148.89	6.454	149.64	6.454	150.24
6.435	145.16	6.435	146.90	6.435	148.18	6.435	148.94	6.435	149.57
6.415	144.49	6.415	146.21	6.415	147.48	6.415	148.21	6.415	148.80
6.395	143.76	6.395	145.51	6.395	146.78	6.395	147.47	6.395	148.03
6.375	143.13	6.375	144.82	6.375	146.10	6.375	146.76	6.375	147.32
6.355	142.47	6.355	144.12	6.355	145.38	6.355	146.04	6.355	146.62
6.335	141.83	6.335	143.41	6.335	144.70	6.335	145.42	6.335	145.95
6.315	141.16	6.315	142.70	6.315	144.00	6.315	144.70	6.315	145.21
6.295	140.48	6.295	141.97	6.295	143.29	6.295	144.00	6.295	144.54
6.275	139.84	6.275	141.28	6.275	142.67	6.275	143.28	6.275	143.82
6.255	139.18	6.255	140.65	6.255	141.95	6.255	142.64	6.255	143.16
6.235	138.52	6.235	139.97	6.235	141.20	6.235	141.93	6.235	142.45
6.215	137.91	6.215	139.31	6.215	140.47	6.215	141.21	6.215	141.78
6.195	137.25	6.195	138.67	6.195	139.85	6.195	140.57	6.195	141.09
6.176	136.59	6.176	138.03	6.176	139.16	6.176	139.97	6.176	140.36
6.156	135.92	6.156	137.38	6.156	138.50	6.156	139.23	6.156	139.70
6.136	135.26	6.136	136.74	6.136	137.86	6.136	138.55	6.136	139.05
6.116	134.66	6.116	136.03	6.116	137.16	6.116	137.91	6.116	138.36
6.096	134.05	6.096	135.44	6.096	136.51	6.096	137.21	6.096	137.67
6.076	133.39	6.076	134.72	6.076	135.84	6.076	136.52	6.076	136.99
6.056	132.76	6.056	134.13	6.056	135.16	6.056	135.83	6.056	136.32
6.036	132.11	6.036	133.49	6.036	134.55	6.036	135.18	6.036	135.65
6.016	131.50	6.016	132.83	6.016	133.94	6.016	134.56	6.016	134.98
5.996	130.83	5.996	132.17	5.996	133.27	5.996	133.89	5.996	134.30
5.976	130.25	5.976	131.52	5.976	132.59	5.976	133.21	5.976	133.72
5.956	129.60	5.956	130.90	5.956	131.98	5.956	132.62	5.956	133.04
5.937	129.03	5.937	130.30	5.937	131.53	5.937	131.97	5.937	132.36
5.917	128.36	5.917	129.64	5.917	131.18	5.917	131.50	5.917	131.76
5.897	127.80	5.897	129.03	5.897	130.54	5.897	131.10	5.897	131.08
5.877	127.16	5.877	128.37	5.877	129.73	5.877	130.41	5.877	130.42
5.857	127.06	5.857	127.78	5.857	129.18	5.857	130.14	5.857	129.80

5.837	127.02	5.837	127.11	5.837	128.81	5.837	129.49	5.837	129.18
5.817	126.40	5.817	126.51	5.817	128.20	5.817	128.78	5.817	128.83
5.797	125.71	5.797	125.92	5.797	127.57	5.797	128.11	5.797	128.51
5.777	125.13	5.777	125.31	5.777	126.92	5.777	127.50	5.777	127.72
5.757	124.50	5.757	124.65	5.757	126.27	5.757	126.87	5.757	126.92
5.737	123.93	5.737	124.02	5.737	125.69	5.737	126.24	5.737	126.15
5.717	123.31	5.717	123.41	5.717	125.03	5.717	125.59	5.717	125.54
5.697	122.68	5.697	122.81	5.697	124.39	5.697	124.97	5.697	124.90
5.678	122.25	5.678	122.21	5.678	123.80	5.678	124.36	5.678	124.30
5.658	121.64	5.658	121.65	5.658	123.15	5.658	123.71	5.658	123.74
5.638	121.03	5.638	121.08	5.638	122.56	5.638	123.12	5.638	123.09
5.618	120.43	5.618	120.46	5.618	121.95	5.618	122.54	5.618	122.47
5.598	119.83	5.598	119.85	5.598	121.30	5.598	121.88	5.598	121.83
5.578	119.30	5.578	119.27	5.578	120.70	5.578	121.29	5.578	121.29
5.558	118.69	5.558	118.67	5.558	120.11	5.558	120.70	5.558	120.78
5.538	118.08	5.538	118.04	5.538	119.50	5.538	120.05	5.538	120.28
5.518	117.47	5.518	117.45	5.518	118.87	5.518	119.43	5.518	119.69
5.498	116.89	5.498	116.87	5.498	118.25	5.498	118.84	5.498	119.12
5.478	116.35	5.478	116.28	5.478	117.65	5.478	118.25	5.478	118.52
5.458	115.75	5.458	115.70	5.458	117.05	5.458	117.66	5.458	117.84
5.439	115.21	5.439	115.09	5.439	116.44	5.439	117.07	5.439	117.25
5.419	114.67	5.419	114.48	5.419	115.90	5.419	116.47	5.419	116.63
5.399	114.08	5.399	113.87	5.399	115.29	5.399	115.87	5.399	116.06
5.379	113.51	5.379	113.31	5.379	114.69	5.379	115.26	5.379	115.44
5.359	112.92	5.359	112.75	5.359	114.13	5.359	114.65	5.359	114.84
5.339	112.37	5.339	112.23	5.339	113.55	5.339	114.12	5.339	114.26
5.319	111.83	5.319	111.79	5.319	112.96	5.319	113.52	5.319	113.68
5.299	111.28	5.299	111.27	5.299	112.39	5.299	112.90	5.299	113.10
5.279	110.73	5.279	110.69	5.279	111.85	5.279	112.36	5.279	112.52
5.259	110.18	5.259	110.16	5.259	111.23	5.259	111.75	5.259	111.94
5.239	109.63	5.239	109.63	5.239	110.68	5.239	111.18	5.239	111.35
5.219	109.07	5.219	109.19	5.219	110.09	5.219	110.57	5.219	110.80
5.199	108.49	5.199	108.63	5.199	109.49	5.199	110.03	5.199	110.25
5.180	107.92	5.180	108.07	5.180	108.93	5.180	109.46	5.180	109.65
5.160	107.42	5.160	107.51	5.160	108.37	5.160	108.87	5.160	109.06
5.140	106.87	5.140	106.97	5.140	107.81	5.140	108.32	5.140	108.54
5.120	106.31	5.120	106.41	5.120	107.25	5.120	107.77	5.120	107.93
5.100	105.80	5.100	105.90	5.100	106.69	5.100	107.21	5.100	107.33
5.080	105.26	5.080	105.30	5.080	106.18	5.080	106.65	5.080	106.79
5.060	104.93	5.060	104.76	5.060	105.63	5.060	106.09	5.060	106.23
5.040	104.66	5.040	104.19	5.040	105.05	5.040	105.53	5.040	105.66
5.020	104.13	5.020	103.70	5.020	104.48	5.020	104.96	5.020	105.13
5.000	103.58	5.000	103.13	5.000	103.90	5.000	104.45	5.000	104.52
4.980	103.03	4.980	102.63	4.980	103.33	4.980	103.88	4.980	104.03
4.960	102.47	4.960	102.05	4.960	102.81	4.960	103.29	4.960	103.46

4.941	101.89	4.941	101.56	4.941	102.24	4.941	102.74	4.941	102.90
4.921	101.29	4.921	100.97	4.921	101.73	4.921	102.23	4.921	102.39
4.901	100.70	4.901	100.47	4.901	101.18	4.901	101.66	4.901	101.81
4.881	100.18	4.881	99.97	4.881	100.62	4.881	101.08	4.881	101.30
4.861	99.64	4.861	99.46	4.861	100.10	4.861	100.58	4.861	100.72
4.841	99.07	4.841	98.89	4.841	99.57	4.841	100.00	4.841	100.21
4.821	98.55	4.821	98.33	4.821	99.02	4.821	99.50	4.821	99.70
4.801	97.99	4.801	97.81	4.801	98.51	4.801	98.99	4.801	99.10
4.781	97.43	4.781	97.29	4.781	98.00	4.781	98.45	4.781	98.59
4.761	96.91	4.761	96.78	4.761	97.45	4.761	97.86	4.761	98.05
4.741	96.39	4.741	96.26	4.741	96.90	4.741	97.34	4.741	97.46
4.721	95.86	4.721	95.74	4.721	96.38	4.721	96.83	4.721	96.94
4.702	95.33	4.702	95.22	4.702	95.85	4.702	96.32	4.702	96.42
4.682	94.80	4.682	94.69	4.682	95.33	4.682	95.80	4.682	95.89
4.662	94.32	4.662	94.24	4.662	94.80	4.662	95.27	4.662	95.37
4.642	93.80	4.642	93.70	4.642	94.28	4.642	94.67	4.642	94.84
4.622	93.26	4.622	93.17	4.622	93.74	4.622	94.14	4.622	94.30
4.602	92.71	4.602	92.71	4.602	93.20	4.602	93.69	4.602	93.85
4.582	92.22	4.582	92.17	4.582	92.69	4.582	93.16	4.582	93.30
4.562	91.69	4.562	91.63	4.562	92.20	4.562	92.62	4.562	92.76
4.542	91.16	4.542	91.13	4.542	91.66	4.542	92.08	4.542	92.27
4.522	90.65	4.522	90.59	4.522	91.18	4.522	91.61	4.522	91.75
4.502	90.10	4.502	90.12	4.502	90.70	4.502	91.04	4.502	91.21
4.482	89.59	4.482	89.65	4.482	90.15	4.482	90.56	4.482	90.73
4.462	89.09	4.462	89.10	4.462	89.65	4.462	90.02	4.462	90.16
4.443	88.58	4.443	88.62	4.443	89.12	4.443	89.55	4.443	89.62
4.423	88.08	4.423	88.14	4.423	88.67	4.423	89.00	4.423	89.12
4.403	87.57	4.403	87.66	4.403	88.14	4.403	88.52	4.403	88.64
4.383	87.05	4.383	87.17	4.383	87.64	4.383	88.04	4.383	88.12
4.363	86.54	4.363	86.67	4.363	87.14	4.363	87.47	4.363	87.61
4.343	86.05	4.343	86.18	4.343	86.60	4.343	87.01	4.343	87.11
4.323	85.57	4.323	85.62	4.323	86.13	4.323	86.49	4.323	86.61
4.303	85.05	4.303	85.15	4.303	85.66	4.303	86.00	4.303	86.11
4.283	84.52	4.283	84.69	4.283	85.11	4.283	85.46	4.283	85.61
4.263	84.05	4.263	84.15	4.263	84.63	4.263	84.96	4.263	85.14
4.243	83.58	4.243	83.68	4.243	84.15	4.243	84.49	4.243	84.67
4.223	83.07	4.223	83.21	4.223	83.67	4.223	84.02	4.223	84.16
4.204	82.56	4.204	82.74	4.204	83.18	4.204	83.52	4.204	83.65
4.184	82.09	4.184	82.26	4.184	82.67	4.184	83.00	4.184	83.10
4.164	81.61	4.164	81.78	4.164	82.18	4.164	82.52	4.164	82.64
4.144	81.13	4.144	81.29	4.144	81.68	4.144	82.04	4.144	82.14
4.124	80.61	4.124	80.81	4.124	81.18	4.124	81.55	4.124	81.66
4.104	80.09	4.104	80.33	4.104	80.74	4.104	81.07	4.104	81.17
4.084	79.57	4.084	79.81	4.084	80.25	4.084	80.57	4.084	80.67
4.064	79.05	4.064	79.37	4.064	79.75	4.064	80.05	4.064	80.20

4.044	78.57	4.044	78.88	4.044	79.28	4.044	79.56	4.044	79.74
4.024	78.14	4.024	78.42	4.024	78.80	4.024	79.06	4.024	79.19
4.004	77.65	4.004	77.97	4.004	78.35	4.004	78.65	4.004	78.72
3.984	77.20	3.984	77.48	3.984	77.83	3.984	78.15	3.984	78.25
3.964	76.71	3.964	77.00	3.964	77.39	3.964	77.65	3.964	77.77
3.945	76.25	3.945	76.55	3.945	76.93	3.945	77.22	3.945	77.30
3.925	75.76	3.925	76.12	3.925	76.44	3.925	76.71	3.925	76.85
3.905	75.29	3.905	75.57	3.905	75.96	3.905	76.25	3.905	76.36
3.885	74.81	3.885	75.13	3.885	75.47	3.885	75.72	3.885	75.87
3.865	74.32	3.865	74.69	3.865	75.00	3.865	75.29	3.865	75.38
3.845	73.86	3.845	74.18	3.845	74.54	3.845	74.85	3.845	74.89
3.825	73.41	3.825	73.73	3.825	74.04	3.825	74.32	3.825	74.47
3.805	72.95	3.805	73.29	3.805	73.62	3.805	73.88	3.805	73.97
3.785	72.49	3.785	72.84	3.785	73.12	3.785	73.43	3.785	73.54
3.765	72.02	3.765	72.39	3.765	72.65	3.765	72.98	3.765	73.04
3.745	71.55	3.745	71.93	3.745	72.18	3.745	72.45	3.745	72.60
3.725	71.10	3.725	71.48	3.725	71.75	3.725	72.01	3.725	72.12
3.706	70.68	3.706	71.01	3.706	71.24	3.706	71.56	3.706	71.64
3.686	70.20	3.686	70.58	3.686	70.80	3.686	71.09	3.686	71.16
3.666	69.72	3.666	70.12	3.666	70.35	3.666	70.62	3.666	70.71
3.646	69.24	3.646	69.65	3.646	69.90	3.646	70.14	3.646	70.26
3.626	68.75	3.626	69.18	3.626	69.45	3.626	69.67	3.626	69.81
3.606	68.28	3.606	68.78	3.606	68.99	3.606	69.26	3.606	69.35
3.586	67.87	3.586	68.31	3.586	68.53	3.586	68.78	3.586	68.89
3.566	67.42	3.566	67.85	3.566	68.07	3.566	68.29	3.566	68.44
3.546	66.95	3.546	67.37	3.546	67.61	3.546	67.87	3.546	68.00
3.526	66.53	3.526	66.96	3.526	67.17	3.526	67.41	3.526	67.55
3.506	66.10	3.506	66.54	3.506	66.70	3.506	66.92	3.506	67.10
3.486	65.60	3.486	66.05	3.486	66.24	3.486	66.49	3.486	66.63
3.466	65.16	3.466	65.63	3.466	65.82	3.466	66.06	3.466	66.14
3.447	64.72	3.447	65.21	3.447	65.36	3.447	65.61	3.447	65.73
3.427	64.27	3.427	64.71	3.427	64.92	3.427	65.19	3.427	65.30
3.407	63.83	3.407	64.30	3.407	64.47	3.407	64.75	3.407	64.84
3.387	63.38	3.387	63.86	3.387	64.00	3.387	64.28	3.387	64.39
3.367	62.97	3.367	63.42	3.367	63.57	3.367	63.80	3.367	63.90
3.347	62.55	3.347	62.98	3.347	63.14	3.347	63.35	3.347	63.50
3.327	62.08	3.327	62.53	3.327	62.67	3.327	62.89	3.327	63.02
3.307	61.62	3.307	62.10	3.307	62.23	3.307	62.51	3.307	62.61
3.287	61.23	3.287	61.67	3.287	61.79	3.287	62.04	3.287	62.21
3.267	60.77	3.267	61.24	3.267	61.34	3.267	61.57	3.267	61.72
3.247	60.34	3.247	60.82	3.247	60.88	3.247	61.16	3.247	61.29
3.227	59.94	3.227	60.32	3.227	60.50	3.227	60.69	3.227	60.84
3.208	59.47	3.208	59.93	3.208	60.03	3.208	60.28	3.208	60.42
3.188	59.02	3.188	59.53	3.188	59.63	3.188	59.82	3.188	59.92
3.168	58.55	3.168	59.09	3.168	59.18	3.168	59.38	3.168	59.49

3.148	58.11	3.148	58.64	3.148	58.74	3.148	58.96	3.148	59.06
3.128	57.71	3.128	58.22	3.128	58.33	3.128	58.53	3.128	58.63
3.108	57.27	3.108	57.78	3.108	57.86	3.108	58.09	3.108	58.19
3.088	56.81	3.088	57.33	3.088	57.44	3.088	57.64	3.088	57.82
3.068	56.39	3.068	56.96	3.068	56.97	3.068	57.21	3.068	57.37
3.048	55.98	3.048	56.50	3.048	56.58	3.048	56.77	3.048	56.93
3.028	55.56	3.028	56.10	3.028	56.10	3.028	56.35	3.028	56.50
3.008	55.13	3.008	55.66	3.008	55.70	3.008	55.92	3.008	56.04
2.988	54.69	2.988	55.28	2.988	55.29	2.988	55.49	2.988	55.65
2.968	54.25	2.968	55.00	2.968	54.88	2.968	55.07	2.968	55.19
2.949	53.89	2.949	54.64	2.949	54.46	2.949	54.62	2.949	54.79
2.929	53.44	2.929	54.21	2.929	54.03	2.929	54.22	2.929	54.39
2.909	53.00	2.909	53.77	2.909	53.57	2.909	53.75	2.909	53.91
2.889	52.62	2.889	53.33	2.889	53.14	2.889	53.32	2.889	53.50
2.869	52.16	2.869	52.88	2.869	52.78	2.869	52.96	2.869	53.10
2.849	51.73	2.849	52.43	2.849	52.33	2.849	52.49	2.849	52.70
2.829	51.29	2.829	51.99	2.829	51.90	2.829	52.14	2.829	52.21
2.809	50.89	2.809	51.60	2.809	51.52	2.809	51.65	2.809	51.80
2.789	50.47	2.789	51.18	2.789	51.06	2.789	51.22	2.789	51.41
2.769	50.03	2.769	50.75	2.769	50.69	2.769	50.79	2.769	50.97
2.749	49.66	2.749	50.35	2.749	50.24	2.749	50.43	2.749	50.56
2.729	49.21	2.729	49.89	2.729	49.85	2.729	49.98	2.729	50.14
2.710	48.83	2.710	49.50	2.710	49.42	2.710	49.58	2.710	49.73
2.690	48.37	2.690	49.07	2.690	49.02	2.690	49.18	2.690	49.29
2.670	47.99	2.670	48.65	2.670	48.62	2.670	48.72	2.670	48.94
2.650	47.60	2.650	48.25	2.650	48.21	2.650	48.34	2.650	48.50
2.630	47.20	2.630	47.85	2.630	47.78	2.630	47.95	2.630	48.08
2.610	46.72	2.610	47.45	2.610	47.35	2.610	47.49	2.610	47.64
2.590	46.32	2.590	47.04	2.590	46.97	2.590	47.12	2.590	47.28
2.570	45.97	2.570	46.62	2.570	46.54	2.570	46.70	2.570	46.83
2.550	45.55	2.550	46.21	2.550	46.16	2.550	46.30	2.550	46.43
2.530	45.12	2.530	45.86	2.530	45.72	2.530	45.89	2.530	46.00
2.510	44.69	2.510	45.44	2.510	45.29	2.510	45.47	2.510	45.63
2.490	44.32	2.490	45.00	2.490	44.93	2.490	45.13	2.490	45.24
2.470	43.90	2.470	44.55	2.470	44.50	2.470	44.70	2.470	44.78
2.451	43.50	2.451	44.19	2.451	44.14	2.451	44.28	2.451	44.40
2.431	43.09	2.431	43.75	2.431	43.72	2.431	43.84	2.431	44.00
2.411	42.72	2.411	43.38	2.411	43.32	2.411	43.48	2.411	43.61
2.391	42.33	2.391	42.97	2.391	42.94	2.391	43.03	2.391	43.14
2.371	41.88	2.371	42.55	2.371	42.50	2.371	42.66	2.371	42.80
2.351	41.49	2.351	42.20	2.351	42.19	2.351	42.27	2.351	42.35
2.331	41.15	2.331	41.76	2.331	41.95	2.331	41.86	2.331	41.96
2.311	40.71	2.311	41.41	2.311	41.68	2.311	41.49	2.311	41.57
2.291	40.31	2.291	41.04	2.291	41.37	2.291	41.08	2.291	41.14
2.271	39.94	2.271	40.60	2.271	40.93	2.271	40.68	2.271	40.79

2.251	39.56	2.251	40.23	2.251	40.50	2.251	40.26	2.251	40.40
2.231	39.14	2.231	39.85	2.231	40.12	2.231	39.89	2.231	40.01
2.212	38.79	2.212	39.45	2.212	39.60	2.212	39.49	2.212	39.56
2.192	38.36	2.192	38.98	2.192	38.85	2.192	39.04	2.192	39.19
2.172	37.99	2.172	38.63	2.172	38.55	2.172	38.67	2.172	38.81
2.152	37.62	2.152	38.21	2.152	38.19	2.152	38.28	2.152	38.43
2.132	37.17	2.132	37.87	2.132	37.76	2.132	37.85	2.132	38.03
2.112	36.80	2.112	37.46	2.112	37.41	2.112	37.51	2.112	37.65
2.092	36.42	2.092	37.05	2.092	37.05	2.092	37.10	2.092	37.25
2.072	36.05	2.072	36.71	2.072	36.62	2.072	36.72	2.072	36.85
2.052	35.66	2.052	36.29	2.052	36.25	2.052	36.28	2.052	36.43
2.032	35.26	2.032	35.94	2.032	35.87	2.032	35.92	2.032	36.09
2.012	34.93	2.012	35.56	2.012	35.48	2.012	35.55	2.012	35.65
1.992	34.50	1.992	35.14	1.992	35.09	1.992	35.10	1.992	35.30
1.972	34.12	1.972	34.76	1.972	34.69	1.972	34.71	1.972	34.87
1.953	33.75	1.953	34.42	1.953	34.30	1.953	34.39	1.953	34.58
1.933	33.37	1.933	34.03	1.933	33.96	1.933	33.98	1.933	34.18
1.913	32.99	1.913	33.64	1.913	33.54	1.913	33.61	1.913	33.79
1.893	32.62	1.893	33.26	1.893	33.19	1.893	33.22	1.893	33.50
1.873	32.23	1.873	32.87	1.873	32.83	1.873	32.83	1.873	33.12
1.853	31.87	1.853	32.46	1.853	32.40	1.853	32.46	1.853	32.72
1.833	31.46	1.833	32.13	1.833	32.04	1.833	32.06	1.833	32.36
1.813	31.11	1.813	31.71	1.813	31.65	1.813	31.66	1.813	31.96
1.793	30.71	1.793	31.37	1.793	31.32	1.793	31.31	1.793	31.52
1.773	30.37	1.773	31.03	1.773	30.93	1.773	30.95	1.773	31.13
1.753	30.03	1.753	30.59	1.753	30.55	1.753	30.55	1.753	30.72
1.733	29.64	1.733	30.22	1.733	30.18	1.733	30.19	1.733	30.38
1.714	29.23	1.714	29.82	1.714	29.82	1.714	29.77	1.714	29.97
1.694	28.93	1.694	29.52	1.694	29.45	1.694	29.40	1.694	29.61
1.674	28.49	1.674	29.14	1.674	29.06	1.674	29.06	1.674	29.18
1.654	28.13	1.654	28.76	1.654	28.72	1.654	28.69	1.654	28.85
1.634	27.83	1.634	28.36	1.634	28.32	1.634	28.37	1.634	28.43
1.614	27.45	1.614	28.04	1.614	27.96	1.614	27.96	1.614	28.05
1.594	27.06	1.594	27.63	1.594	27.63	1.594	27.62	1.594	27.74
1.574	26.74	1.574	27.29	1.574	27.32	1.574	27.26	1.574	27.35
1.554	26.37	1.554	26.95	1.554	26.93	1.554	26.87	1.554	26.99
1.534	25.96	1.534	26.54	1.534	26.57	1.534	26.55	1.534	26.62
1.514	25.62	1.514	26.18	1.514	26.20	1.514	26.16	1.514	26.23
1.494	25.28	1.494	25.83	1.494	25.82	1.494	25.77	1.494	25.79
1.474	24.92	1.474	25.44	1.474	25.44	1.474	25.38	1.474	25.49
1.455	24.56	1.455	25.11	1.455	25.04	1.455	24.98	1.455	25.11
1.435	24.19	1.435	24.73	1.435	24.73	1.435	24.61	1.435	24.74
1.415	23.83	1.415	24.37	1.415	24.32	1.415	24.28	1.415	24.40
1.395	23.45	1.395	24.02	1.395	23.98	1.395	23.89	1.395	23.99
1.375	23.11	1.375	23.66	1.375	23.62	1.375	23.55	1.375	23.66

1.355	22.79	1.355	23.30	1.355	23.24	1.355	23.18	1.355	23.24
1.335	22.37	1.335	22.90	1.335	22.86	1.335	22.87	1.335	22.88
1.315	22.01	1.315	22.55	1.315	22.54	1.315	22.47	1.315	22.60
1.295	21.73	1.295	22.21	1.295	22.14	1.295	22.12	1.295	22.23
1.275	21.35	1.275	21.86	1.275	21.78	1.275	21.77	1.275	21.81
1.255	21.03	1.255	21.52	1.255	21.43	1.255	21.38	1.255	21.47
1.235	20.63	1.235	21.14	1.235	21.07	1.235	21.06	1.235	21.11
1.216	20.29	1.216	20.98	1.216	20.71	1.216	20.67	1.216	20.75
1.196	19.92	1.196	20.65	1.196	20.35	1.196	20.29	1.196	20.40
1.176	19.56	1.176	20.26	1.176	19.98	1.176	19.97	1.176	20.03
1.156	19.24	1.156	19.88	1.156	19.60	1.156	19.57	1.156	19.66
1.136	18.90	1.136	19.49	1.136	19.29	1.136	19.26	1.136	19.29
1.116	18.55	1.116	19.09	1.116	18.99	1.116	18.87	1.116	18.92
1.096	18.19	1.096	18.73	1.096	18.64	1.096	18.55	1.096	18.59
1.076	17.85	1.076	18.37	1.076	18.22	1.076	18.16	1.076	18.26
1.056	17.53	1.056	18.05	1.056	17.86	1.056	17.77	1.056	17.91
1.036	17.14	1.036	17.69	1.036	17.51	1.036	17.46	1.036	17.56
1.016	16.83	1.016	17.31	1.016	17.14	1.016	17.06	1.016	17.19
0.996	16.50	0.996	16.96	0.996	16.83	0.996	16.75	0.996	16.84
0.976	16.16	0.976	16.61	0.976	16.45	0.976	16.36	0.976	16.45
0.957	15.83	0.957	16.20	0.957	16.11	0.957	16.05	0.957	16.13
0.937	15.48	0.937	15.86	0.937	15.75	0.937	15.65	0.937	15.80
0.917	15.10	0.917	15.51	0.917	15.40	0.917	15.34	0.917	15.46
0.897	14.73	0.897	15.15	0.897	15.04	0.897	15.03	0.897	15.10
0.877	14.42	0.877	14.85	0.877	14.68	0.877	14.63	0.877	14.74
0.857	14.07	0.857	14.46	0.857	14.35	0.857	14.24	0.857	14.35
0.837	13.72	0.837	14.12	0.837	14.01	0.837	13.93	0.837	14.02
0.817	13.42	0.817	13.76	0.817	13.66	0.817	13.62	0.817	13.69
0.797	13.03	0.797	13.43	0.797	13.29	0.797	13.24	0.797	13.38
0.777	12.68	0.777	13.05	0.777	12.97	0.777	12.91	0.777	13.01
0.757	12.39	0.757	12.72	0.757	12.62	0.757	12.60	0.757	12.67
0.737	12.05	0.737	12.39	0.737	12.29	0.737	12.28	0.737	12.31
0.718	11.71	0.718	12.05	0.718	11.94	0.718	11.89	0.718	11.97
0.698	11.34	0.698	11.69	0.698	11.58	0.698	11.58	0.698	11.60
0.678	11.03	0.678	11.39	0.678	11.27	0.678	11.19	0.678	11.26
0.658	10.72	0.658	10.99	0.658	10.95	0.658	10.87	0.658	10.95
0.638	10.35	0.638	10.65	0.638	10.55	0.638	10.56	0.638	10.61
0.618	10.04	0.618	10.30	0.618	10.22	0.618	10.25	0.618	10.25
0.598	9.70	0.598	9.96	0.598	9.94	0.598	9.93	0.598	9.93
0.578	9.36	0.578	9.60	0.578	9.56	0.578	9.54	0.578	9.54
0.558	9.07	0.558	9.26	0.558	9.24	0.558	9.23	0.558	9.23
0.538	8.74	0.538	8.98	0.538	8.88	0.538	8.91	0.538	8.91
0.518	8.36	0.518	8.61	0.518	8.55	0.518	8.52	0.518	8.60
0.498	8.05	0.498	8.28	0.498	8.21	0.498	8.21	0.498	8.23
0.478	7.74	0.478	7.95	0.478	7.89	0.478	7.97	0.478	7.90

0.459	7.42	0.459	7.66	0.459	7.58	0.459	7.66	0.459	7.61
0.439	7.11	0.439	7.27	0.439	7.19	0.439	7.27	0.439	7.23
0.419	6.89	0.419	6.97	0.419	6.88	0.419	7.02	0.419	6.94
0.399	6.56	0.399	6.64	0.399	6.56	0.399	6.64	0.399	6.55
0.379	6.27	0.379	6.31	0.379	6.19	0.379	6.33	0.379	6.19
0.359	5.87	0.359	5.99	0.359	5.90	0.359	5.96	0.359	5.88
0.339	5.52	0.339	5.66	0.339	5.52	0.339	5.62	0.339	5.55
0.319	5.14	0.319	5.33	0.319	5.18	0.319	5.30	0.319	5.23
0.299	4.80	0.299	4.95	0.299	4.86	0.299	4.98	0.299	4.91
0.279	4.45	0.279	4.67	0.279	4.56	0.279	4.61	0.279	4.53
0.259	4.12	0.259	4.30	0.259	4.21	0.259	4.29	0.259	4.21
0.239	3.78	0.239	3.98	0.239	3.97	0.239	3.98	0.239	3.90
0.220	3.47	0.220	3.74	0.220	3.63	0.220	3.62	0.220	3.53
0.200	3.14	0.200	3.44	0.200	3.25	0.200	3.27	0.200	3.22
0.180	2.80	0.180	3.07	0.180	2.93	0.180	2.96	0.180	2.88
0.160	2.49	0.160	2.69	0.160	2.54	0.160	2.63	0.160	2.54
0.140	2.18	0.140	2.33	0.140	2.24	0.140	2.41	0.140	2.22
0.120	1.86	0.120	2.19	0.120	1.92	0.120	2.20	0.120	1.86
0.100	1.55	0.100	1.71	0.100	1.63	0.100	1.63	0.100	1.00

Table S1 (continued). $P\rho T x_{CO_2}$ experimental data for CO_2+CO mixtures.

T=333.15 K									
x_{CO_2} = 0.9700		x_{CO_2} = 0.9810		x_{CO_2} = 0.9902		x_{CO_2} = 0.9930		x_{CO_2} = 0.9960	
P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})
20.000	688.72	20.000	704.19	20.000	713.78	20.000	717.28	20.000	720.60
19.980	688.46	19.980	703.85	19.980	713.49	19.980	716.94	19.980	720.29
19.960	688.09	19.960	703.59	19.960	713.20	19.960	716.57	19.960	720.01
19.940	687.73	19.940	703.24	19.940	712.85	19.940	716.30	19.940	719.71
19.920	687.36	19.920	702.94	19.920	712.50	19.920	715.95	19.920	719.40
19.900	687.04	19.900	702.62	19.900	712.19	19.900	715.62	19.900	719.11
19.880	686.72	19.880	702.29	19.880	711.84	19.880	715.35	19.880	718.83
19.861	686.35	19.861	701.95	19.861	711.51	19.861	715.01	19.861	718.53
19.841	686.06	19.841	701.63	19.841	711.20	19.841	714.67	19.841	718.16
19.821	685.69	19.821	701.26	19.821	710.88	19.821	714.35	19.821	717.85
19.801	685.32	19.801	700.94	19.801	710.46	19.801	714.04	19.801	717.57
19.781	684.94	19.781	700.56	19.781	710.18	19.781	713.70	19.781	717.30
19.761	684.62	19.761	700.29	19.761	709.84	19.761	713.36	19.761	716.93
19.741	684.28	19.741	700.00	19.741	709.50	19.741	713.01	19.741	716.60
19.721	683.90	19.721	699.63	19.721	709.17	19.721	712.67	19.721	716.31
19.701	683.52	19.701	699.29	19.701	708.87	19.701	712.41	19.701	715.99
19.681	683.12	19.681	698.94	19.681	708.48	19.681	712.08	19.681	715.64
19.661	682.82	19.661	698.61	19.661	708.15	19.661	711.71	19.661	715.35
19.641	682.46	19.641	698.26	19.641	707.82	19.641	711.37	19.641	714.94
19.622	682.08	19.622	697.93	19.622	707.48	19.622	711.02	19.622	714.65
19.602	681.68	19.602	697.57	19.602	707.06	19.602	710.65	19.602	714.29
19.582	681.34	19.582	697.22	19.582	706.77	19.582	710.29	19.582	713.98
19.562	680.98	19.562	696.88	19.562	706.43	19.562	709.99	19.562	713.63
19.542	680.61	19.542	696.55	19.542	706.06	19.542	709.61	19.542	713.33
19.522	680.20	19.522	696.22	19.522	705.74	19.522	709.32	19.522	713.00
19.502	679.83	19.502	695.88	19.502	705.36	19.502	708.96	19.502	712.69
19.482	679.48	19.482	695.47	19.482	705.03	19.482	708.58	19.482	712.33
19.462	679.06	19.462	695.12	19.462	704.67	19.462	708.30	19.462	711.99
19.442	678.66	19.442	694.78	19.442	704.30	19.442	707.89	19.442	711.63
19.422	678.34	19.422	694.44	19.422	703.93	19.422	707.54	19.422	711.32
19.402	677.96	19.402	694.05	19.402	703.65	19.402	707.24	19.402	710.99
19.382	677.56	19.382	693.71	19.382	703.21	19.382	706.86	19.382	710.64
19.363	677.19	19.363	693.33	19.363	702.91	19.363	706.54	19.363	710.23
19.343	676.77	19.343	693.02	19.343	702.55	19.343	706.16	19.343	709.90
19.323	676.40	19.323	692.62	19.323	702.21	19.323	705.82	19.323	709.54
19.303	676.00	19.303	692.21	19.303	701.82	19.303	705.42	19.303	709.20

19.283	675.59	19.283	691.84	19.283	701.43	19.283	705.09	19.283	708.83
19.263	675.23	19.263	691.45	19.263	701.05	19.263	704.72	19.263	708.44
19.243	674.83	19.243	691.09	19.243	700.71	19.243	704.39	19.243	708.11
19.223	674.41	19.223	690.68	19.223	700.29	19.223	704.03	19.223	707.79
19.203	674.03	19.203	690.31	19.203	699.95	19.203	703.68	19.203	707.46
19.183	673.66	19.183	689.95	19.183	699.61	19.183	703.35	19.183	707.07
19.163	673.22	19.163	689.61	19.163	699.23	19.163	702.96	19.163	706.67
19.143	672.87	19.143	689.24	19.143	698.84	19.143	702.59	19.143	706.37
19.124	672.48	19.124	688.83	19.124	698.51	19.124	702.21	19.124	705.99
19.104	672.06	19.104	688.40	19.104	698.13	19.104	701.86	19.104	705.65
19.084	671.71	19.084	688.03	19.084	697.75	19.084	701.49	19.084	705.25
19.064	671.29	19.064	687.58	19.064	697.36	19.064	701.14	19.064	704.90
19.044	670.83	19.044	687.21	19.044	697.04	19.044	700.81	19.044	704.55
19.024	670.47	19.024	686.89	19.024	696.62	19.024	700.41	19.024	704.14
19.004	670.04	19.004	686.49	19.004	696.27	19.004	700.06	19.004	703.81
18.984	669.67	18.984	686.04	18.984	695.85	18.984	699.62	18.984	703.42
18.964	669.25	18.964	685.65	18.964	695.47	18.964	699.32	18.964	703.06
18.944	668.84	18.944	685.27	18.944	695.10	18.944	698.91	18.944	702.73
18.924	668.43	18.924	684.91	18.924	694.76	18.924	698.57	18.924	702.34
18.904	668.02	18.904	684.43	18.904	694.32	18.904	698.16	18.904	701.95
18.884	667.61	18.884	684.06	18.884	693.96	18.884	697.82	18.884	701.60
18.865	667.20	18.865	683.63	18.865	693.53	18.865	697.45	18.865	701.26
18.845	666.80	18.845	683.28	18.845	693.18	18.845	697.06	18.845	700.82
18.825	666.35	18.825	682.87	18.825	692.79	18.825	696.65	18.825	700.50
18.805	665.94	18.805	682.48	18.805	692.36	18.805	696.30	18.805	700.09
18.785	665.53	18.785	682.09	18.785	692.01	18.785	695.91	18.785	699.73
18.765	665.10	18.765	681.69	18.765	691.58	18.765	695.52	18.765	699.33
18.745	664.71	18.745	681.27	18.745	691.23	18.745	695.17	18.745	698.95
18.725	664.22	18.725	680.81	18.725	690.83	18.725	694.80	18.725	698.55
18.705	663.82	18.705	680.39	18.705	690.42	18.705	694.36	18.705	698.20
18.685	663.42	18.685	679.98	18.685	690.01	18.685	693.99	18.685	697.82
18.665	663.00	18.665	679.58	18.665	689.67	18.665	693.64	18.665	697.43
18.645	662.54	18.645	679.17	18.645	689.23	18.645	693.22	18.645	697.01
18.626	662.14	18.626	678.78	18.626	688.86	18.626	692.86	18.626	696.62
18.606	661.73	18.606	678.34	18.606	688.44	18.606	692.43	18.606	696.26
18.586	661.25	18.586	677.97	18.586	688.09	18.586	692.05	18.586	695.85
18.566	660.83	18.566	677.48	18.566	687.63	18.566	691.64	18.566	695.44
18.546	660.38	18.546	677.12	18.546	687.24	18.546	691.22	18.546	695.08
18.526	659.95	18.526	676.71	18.526	686.80	18.526	690.82	18.526	694.71
18.506	659.54	18.506	676.28	18.506	686.38	18.506	690.43	18.506	694.43
18.486	659.02	18.486	675.85	18.486	685.98	18.486	690.08	18.486	694.17
18.466	658.66	18.466	675.42	18.466	685.53	18.466	689.68	18.466	693.81
18.446	658.20	18.446	675.02	18.446	685.13	18.446	689.26	18.446	693.46
18.426	657.77	18.426	674.56	18.426	684.75	18.426	688.85	18.426	693.12
18.406	657.33	18.406	674.18	18.406	684.36	18.406	688.44	18.406	692.72

18.386	656.87	18.386	673.78	18.386	683.98	18.386	688.10	18.386	692.37
18.367	656.40	18.367	673.35	18.367	683.51	18.367	687.69	18.367	692.01
18.347	655.96	18.347	672.88	18.347	683.14	18.347	687.25	18.347	691.60
18.327	655.49	18.327	672.47	18.327	682.72	18.327	686.82	18.327	691.27
18.307	655.05	18.307	672.09	18.307	682.26	18.307	686.44	18.307	690.85
18.287	654.60	18.287	671.66	18.287	681.83	18.287	685.96	18.287	690.49
18.267	654.14	18.267	671.26	18.267	681.42	18.267	685.57	18.267	690.13
18.247	653.67	18.247	670.75	18.247	681.01	18.247	685.14	18.247	689.68
18.227	653.28	18.227	670.35	18.227	680.58	18.227	684.79	18.227	689.32
18.207	652.82	18.207	669.97	18.207	680.14	18.207	684.34	18.207	688.95
18.187	652.35	18.187	669.55	18.187	679.74	18.187	683.96	18.187	688.56
18.167	651.89	18.167	669.08	18.167	679.28	18.167	683.53	18.167	688.17
18.147	651.42	18.147	668.67	18.147	678.86	18.147	683.09	18.147	687.77
18.128	650.96	18.128	668.20	18.128	678.45	18.128	682.66	18.128	687.36
18.108	650.47	18.108	667.79	18.108	678.07	18.108	682.26	18.108	686.93
18.088	649.96	18.088	667.35	18.088	677.56	18.088	681.83	18.088	686.54
18.068	649.57	18.068	666.95	18.068	677.15	18.068	681.39	18.068	686.16
18.048	649.10	18.048	666.48	18.048	676.73	18.048	680.98	18.048	685.77
18.028	648.59	18.028	666.06	18.028	676.29	18.028	680.55	18.028	685.38
18.008	648.12	18.008	665.58	18.008	675.81	18.008	680.10	18.008	684.99
17.988	647.69	17.988	665.18	17.988	675.35	17.988	679.64	17.988	684.57
17.968	647.22	17.968	664.68	17.968	674.96	17.968	679.24	17.968	684.12
17.948	646.76	17.948	664.32	17.948	674.50	17.948	678.81	17.948	683.72
17.928	646.26	17.928	663.83	17.928	674.05	17.928	678.37	17.928	683.32
17.908	645.76	17.908	663.38	17.908	673.61	17.908	677.93	17.908	682.93
17.888	645.31	17.888	662.89	17.888	673.16	17.888	677.48	17.888	682.45
17.869	644.79	17.869	662.48	17.869	672.71	17.869	677.06	17.869	682.05
17.849	644.32	17.849	662.01	17.849	672.25	17.849	676.62	17.849	681.64
17.829	643.82	17.829	661.57	17.829	671.80	17.829	676.17	17.829	681.20
17.809	643.35	17.809	661.09	17.809	671.34	17.809	675.77	17.809	680.80
17.789	642.82	17.789	660.64	17.789	670.94	17.789	675.30	17.789	680.38
17.769	642.37	17.769	660.18	17.769	670.47	17.769	674.86	17.769	679.95
17.749	641.84	17.749	659.68	17.749	669.99	17.749	674.41	17.749	679.49
17.729	641.40	17.729	659.21	17.729	669.54	17.729	673.99	17.729	679.02
17.709	640.88	17.709	658.74	17.709	669.08	17.709	673.52	17.709	678.56
17.689	640.40	17.689	658.30	17.689	668.60	17.689	673.01	17.689	678.13
17.669	639.93	17.669	657.83	17.669	668.20	17.669	672.58	17.669	677.71
17.649	639.40	17.649	657.35	17.649	667.74	17.649	672.17	17.649	677.28
17.630	638.92	17.630	656.84	17.630	667.27	17.630	671.67	17.630	676.86
17.610	638.45	17.610	656.37	17.610	666.81	17.610	671.24	17.610	676.43
17.590	637.96	17.590	655.95	17.590	666.33	17.590	670.76	17.590	675.99
17.570	637.46	17.570	655.47	17.570	665.89	17.570	670.32	17.570	675.55
17.550	636.95	17.550	654.96	17.550	665.36	17.550	669.85	17.550	675.11
17.530	636.49	17.530	654.46	17.530	664.93	17.530	669.43	17.530	674.66
17.510	635.98	17.510	653.95	17.510	664.41	17.510	668.96	17.510	674.18

17.490	635.47	17.490	653.50	17.490	663.97	17.490	668.50	17.490	673.72
17.470	635.00	17.470	653.05	17.470	663.51	17.470	668.02	17.470	673.27
17.450	634.54	17.450	652.55	17.450	663.06	17.450	667.53	17.450	672.81
17.430	633.99	17.430	652.08	17.430	662.54	17.430	667.08	17.430	672.34
17.410	633.47	17.410	651.55	17.410	662.12	17.410	666.63	17.410	671.89
17.390	632.96	17.390	651.10	17.390	661.62	17.390	666.13	17.390	671.43
17.371	632.45	17.371	650.54	17.371	661.13	17.371	665.66	17.371	670.94
17.351	631.93	17.351	650.07	17.351	660.69	17.351	665.16	17.351	670.46
17.331	631.37	17.331	649.57	17.331	660.15	17.331	664.67	17.331	669.97
17.311	630.90	17.311	649.04	17.311	659.64	17.311	664.21	17.311	669.50
17.291	630.38	17.291	648.53	17.291	659.13	17.291	663.74	17.291	669.01
17.271	629.84	17.271	648.06	17.271	658.65	17.271	663.31	17.271	668.61
17.251	629.31	17.251	647.57	17.251	658.17	17.251	662.78	17.251	668.15
17.231	628.83	17.231	647.09	17.231	657.69	17.231	662.31	17.231	667.69
17.211	628.31	17.211	646.56	17.211	657.21	17.211	661.78	17.211	667.16
17.191	627.82	17.191	646.02	17.191	656.64	17.191	661.32	17.191	666.68
17.171	627.27	17.171	645.51	17.171	656.14	17.171	660.81	17.171	666.21
17.151	626.73	17.151	644.99	17.151	655.62	17.151	660.30	17.151	665.72
17.132	626.24	17.132	644.51	17.132	655.16	17.132	659.86	17.132	665.22
17.112	625.67	17.112	643.94	17.112	654.63	17.112	659.35	17.112	664.78
17.092	625.13	17.092	643.46	17.092	654.12	17.092	658.83	17.092	664.25
17.072	624.57	17.072	642.95	17.072	653.60	17.072	658.35	17.072	663.75
17.052	624.05	17.052	642.43	17.052	653.08	17.052	657.87	17.052	663.26
17.032	623.50	17.032	641.86	17.032	652.61	17.032	657.34	17.032	662.73
17.012	622.95	17.012	641.34	17.012	652.12	17.012	656.82	17.012	662.26
16.992	622.34	16.992	640.86	16.992	651.55	16.992	656.32	16.992	661.81
16.972	621.80	16.972	640.34	16.972	651.02	16.972	655.82	16.972	661.31
16.952	621.21	16.952	639.72	16.952	650.51	16.952	655.30	16.952	660.79
16.932	620.69	16.932	639.16	16.932	649.94	16.932	654.76	16.932	660.28
16.912	620.10	16.912	638.65	16.912	649.40	16.912	654.22	16.912	659.77
16.892	619.57	16.892	638.09	16.892	648.86	16.892	653.76	16.892	659.30
16.873	619.01	16.873	637.57	16.873	648.40	16.873	653.18	16.873	658.80
16.853	618.42	16.853	637.01	16.853	647.80	16.853	652.71	16.853	658.26
16.833	617.86	16.833	636.46	16.833	647.30	16.833	652.14	16.833	657.79
16.813	617.25	16.813	635.91	16.813	646.76	16.813	651.66	16.813	657.24
16.793	616.68	16.793	635.35	16.793	646.21	16.793	651.13	16.793	656.68
16.773	616.10	16.773	634.80	16.773	645.74	16.773	650.57	16.773	656.20
16.753	615.55	16.753	634.24	16.753	645.21	16.753	650.02	16.753	655.67
16.733	614.94	16.733	633.74	16.733	644.63	16.733	649.52	16.733	655.15
16.713	614.34	16.713	633.13	16.713	644.08	16.713	648.91	16.713	654.63
16.693	613.75	16.693	632.58	16.693	643.54	16.693	648.45	16.693	654.07
16.673	613.13	16.673	632.00	16.673	643.03	16.673	647.89	16.673	653.57
16.653	612.49	16.653	631.42	16.653	642.46	16.653	647.34	16.653	653.07
16.634	611.91	16.634	630.87	16.634	641.96	16.634	646.79	16.634	652.53
16.614	611.32	16.614	630.28	16.614	641.39	16.614	646.26	16.614	651.98

16.594	610.71	16.594	629.71	16.594	640.84	16.594	645.72	16.594	651.43
16.574	610.12	16.574	629.12	16.574	640.29	16.574	645.13	16.574	650.89
16.554	609.52	16.554	628.50	16.554	639.71	16.554	644.60	16.554	650.35
16.534	608.91	16.534	627.94	16.534	639.15	16.534	644.04	16.534	649.84
16.514	608.29	16.514	627.37	16.514	638.63	16.514	643.54	16.514	649.24
16.494	607.66	16.494	626.74	16.494	638.01	16.494	642.93	16.494	648.72
16.474	607.04	16.474	626.17	16.474	637.47	16.474	642.36	16.474	648.15
16.454	606.42	16.454	625.54	16.454	636.94	16.454	641.81	16.454	647.60
16.434	605.75	16.434	624.94	16.434	636.39	16.434	641.23	16.434	647.07
16.414	605.14	16.414	624.31	16.414	635.81	16.414	640.68	16.414	646.51
16.394	604.50	16.394	623.72	16.394	635.24	16.394	640.05	16.394	645.97
16.375	603.85	16.375	623.16	16.375	634.67	16.375	639.51	16.375	645.39
16.355	603.22	16.355	622.50	16.355	634.08	16.355	638.94	16.355	644.85
16.335	602.59	16.335	621.87	16.335	633.52	16.335	638.40	16.335	644.30
16.315	601.97	16.315	621.28	16.315	632.95	16.315	637.84	16.315	643.73
16.295	601.29	16.295	620.67	16.295	632.37	16.295	637.24	16.295	643.13
16.275	600.69	16.275	620.07	16.275	631.75	16.275	636.65	16.275	642.52
16.255	599.95	16.255	619.47	16.255	631.19	16.255	636.01	16.255	641.88
16.235	599.34	16.235	618.76	16.235	630.61	16.235	635.43	16.235	641.34
16.215	598.71	16.215	618.16	16.215	629.98	16.215	634.80	16.215	640.79
16.195	598.06	16.195	617.54	16.195	629.40	16.195	634.24	16.195	640.18
16.175	597.41	16.175	616.92	16.175	628.80	16.175	633.66	16.175	639.64
16.155	596.73	16.155	616.34	16.155	628.27	16.155	633.13	16.155	639.05
16.136	596.13	16.136	615.69	16.136	627.66	16.136	632.50	16.136	638.45
16.116	595.38	16.116	615.02	16.116	627.01	16.116	631.84	16.116	637.86
16.096	594.73	16.096	614.43	16.096	626.42	16.096	631.24	16.096	637.25
16.076	594.14	16.076	613.82	16.076	625.81	16.076	630.61	16.076	636.63
16.056	593.43	16.056	613.17	16.056	625.18	16.056	630.00	16.056	636.08
16.036	592.73	16.036	612.52	16.036	624.57	16.036	629.44	16.036	635.41
16.016	592.09	16.016	611.90	16.016	623.93	16.016	628.81	16.016	634.82
15.996	591.43	15.996	611.27	15.996	623.33	15.996	628.23	15.996	634.19
15.976	590.74	15.976	610.54	15.976	622.73	15.976	627.61	15.976	633.61
15.956	590.07	15.956	609.94	15.956	622.08	15.956	626.99	15.956	632.99
15.936	589.35	15.936	609.29	15.936	621.44	15.936	626.38	15.936	632.36
15.916	588.70	15.916	608.63	15.916	620.83	15.916	625.71	15.916	631.72
15.896	588.00	15.896	607.93	15.896	620.18	15.896	625.05	15.896	631.13
15.877	587.35	15.877	607.30	15.877	619.50	15.877	624.42	15.877	630.47
15.857	586.65	15.857	606.64	15.857	618.96	15.857	623.77	15.857	629.90
15.837	585.92	15.837	605.92	15.837	618.29	15.837	623.11	15.837	629.24
15.817	585.25	15.817	605.26	15.817	617.60	15.817	622.46	15.817	628.61
15.797	584.53	15.797	604.59	15.797	617.00	15.797	621.85	15.797	628.01
15.777	584.26	15.777	603.95	15.777	616.32	15.777	621.24	15.777	627.36
15.757	583.96	15.757	603.25	15.757	615.69	15.757	620.53	15.757	626.72
15.737	583.49	15.737	602.59	15.737	615.05	15.737	619.86	15.737	626.06
15.717	582.89	15.717	601.88	15.717	614.37	15.717	619.21	15.717	625.39

15.697	582.29	15.697	601.20	15.697	613.70	15.697	618.52	15.697	624.81
15.677	581.73	15.677	600.52	15.677	613.03	15.677	617.94	15.677	624.14
15.657	581.11	15.657	599.80	15.657	612.38	15.657	617.26	15.657	623.43
15.638	580.46	15.638	599.11	15.638	611.75	15.638	616.67	15.638	622.79
15.618	579.83	15.618	598.46	15.618	611.10	15.618	615.94	15.618	622.08
15.598	579.23	15.598	597.69	15.598	610.42	15.598	615.26	15.598	621.45
15.578	578.56	15.578	596.99	15.578	609.70	15.578	614.57	15.578	620.77
15.558	577.94	15.558	596.43	15.558	609.01	15.558	613.90	15.558	620.15
15.538	577.33	15.538	595.89	15.538	608.32	15.538	613.26	15.538	619.46
15.518	576.68	15.518	595.26	15.518	607.61	15.518	613.10	15.518	618.85
15.498	576.01	15.498	594.62	15.498	606.88	15.498	612.91	15.498	618.09
15.478	575.39	15.478	593.96	15.478	606.27	15.478	612.38	15.478	617.44
15.458	574.72	15.458	593.35	15.458	605.52	15.458	611.78	15.458	616.70
15.438	574.05	15.438	592.66	15.438	604.84	15.438	611.19	15.438	616.03
15.418	573.41	15.418	591.97	15.418	604.12	15.418	610.59	15.418	615.29
15.398	572.73	15.398	591.29	15.398	603.39	15.398	609.93	15.398	614.65
15.379	572.03	15.379	590.58	15.379	602.72	15.379	609.30	15.379	613.95
15.359	571.37	15.359	589.94	15.359	601.97	15.359	608.70	15.359	613.27
15.339	570.68	15.339	589.23	15.339	601.28	15.339	608.09	15.339	612.58
15.319	569.94	15.319	588.48	15.319	600.53	15.319	607.47	15.319	611.88
15.299	569.21	15.299	587.77	15.299	599.79	15.299	606.81	15.299	611.11
15.279	568.55	15.279	587.07	15.279	599.05	15.279	606.15	15.279	610.40
15.259	567.86	15.259	586.30	15.259	598.33	15.259	605.55	15.259	609.70
15.239	567.17	15.239	585.56	15.239	597.59	15.239	604.88	15.239	608.96
15.219	566.46	15.219	584.80	15.219	596.84	15.219	604.25	15.219	608.17
15.199	565.70	15.199	583.98	15.199	596.09	15.199	603.58	15.199	607.48
15.179	564.98	15.179	583.19	15.179	595.38	15.179	602.86	15.179	606.74
15.159	564.27	15.159	582.49	15.159	594.60	15.159	602.19	15.159	606.04
15.140	563.55	15.140	581.72	15.140	593.83	15.140	601.57	15.140	605.28
15.120	562.84	15.120	580.99	15.120	593.13	15.120	600.82	15.120	604.56
15.100	562.11	15.100	580.23	15.100	592.33	15.100	600.13	15.100	603.81
15.080	561.33	15.080	579.49	15.080	591.64	15.080	599.48	15.080	603.12
15.060	560.57	15.060	578.67	15.060	590.82	15.060	598.77	15.060	602.32
15.040	559.82	15.040	577.80	15.040	590.08	15.040	598.04	15.040	601.52
15.020	559.06	15.020	577.01	15.020	589.26	15.020	597.33	15.020	600.76
15.000	558.28	15.000	576.26	15.000	588.49	15.000	596.60	15.000	600.04
14.980	557.48	14.980	575.46	14.980	587.74	14.980	595.86	14.980	599.21
14.960	556.67	14.960	574.63	14.960	586.94	14.960	595.14	14.960	598.41
14.940	555.86	14.940	573.83	14.940	586.11	14.940	594.40	14.940	597.66
14.920	555.07	14.920	573.02	14.920	585.36	14.920	593.58	14.920	596.89
14.901	554.30	14.901	572.24	14.901	584.51	14.901	592.84	14.901	596.11
14.881	553.50	14.881	571.34	14.881	583.64	14.881	592.10	14.881	595.36
14.861	552.70	14.861	570.53	14.861	582.86	14.861	591.28	14.861	594.52
14.841	551.88	14.841	569.72	14.841	582.02	14.841	590.55	14.841	593.72
14.821	551.07	14.821	568.89	14.821	581.25	14.821	589.80	14.821	592.92

14.801	550.27	14.801	568.00	14.801	580.41	14.801	588.98	14.801	592.13
14.781	549.44	14.781	567.15	14.781	579.58	14.781	588.26	14.781	591.35
14.761	548.61	14.761	566.28	14.761	578.73	14.761	587.46	14.761	590.51
14.741	547.79	14.741	565.44	14.741	577.94	14.741	586.62	14.741	589.65
14.721	546.94	14.721	564.55	14.721	577.10	14.721	585.86	14.721	588.82
14.701	546.09	14.701	563.71	14.701	576.24	14.701	585.04	14.701	587.98
14.681	545.20	14.681	562.89	14.681	575.35	14.681	584.27	14.681	587.19
14.661	544.29	14.661	562.00	14.661	574.47	14.661	583.47	14.661	586.32
14.642	543.44	14.642	561.10	14.642	573.66	14.642	582.64	14.642	585.54
14.622	542.57	14.622	560.18	14.622	572.79	14.622	581.83	14.622	584.71
14.602	541.68	14.602	559.25	14.602	571.90	14.602	580.99	14.602	583.83
14.582	540.81	14.582	558.54	14.582	571.07	14.582	580.11	14.582	582.96
14.562	539.93	14.562	558.15	14.562	570.24	14.562	579.29	14.562	582.08
14.542	539.04	14.542	557.76	14.542	569.32	14.542	578.45	14.542	581.25
14.522	538.14	14.522	557.37	14.522	568.40	14.522	577.52	14.522	580.40
14.502	537.28	14.502	556.77	14.502	567.49	14.502	576.65	14.502	579.56
14.482	536.35	14.482	555.98	14.482	566.67	14.482	575.79	14.482	578.68
14.462	535.41	14.462	555.18	14.462	565.80	14.462	574.92	14.462	577.76
14.442	534.56	14.442	554.40	14.442	564.84	14.442	574.04	14.442	576.91
14.422	533.58	14.422	553.63	14.422	564.02	14.422	573.19	14.422	576.00
14.403	532.68	14.403	552.80	14.403	563.06	14.403	572.33	14.403	575.15
14.383	531.74	14.383	552.02	14.383	562.19	14.383	571.44	14.383	574.23
14.363	530.77	14.363	551.24	14.363	561.29	14.363	570.52	14.363	573.37
14.343	529.83	14.343	550.45	14.343	560.38	14.343	569.69	14.343	572.52
14.323	528.87	14.323	549.63	14.323	559.47	14.323	568.76	14.323	571.53
14.303	527.89	14.303	548.84	14.303	558.46	14.303	567.85	14.303	570.58
14.283	526.94	14.283	548.03	14.283	557.57	14.283	566.91	14.283	569.63
14.263	525.94	14.263	547.20	14.263	556.64	14.263	566.06	14.263	568.82
14.243	524.99	14.243	546.38	14.243	555.74	14.243	565.13	14.243	567.93
14.223	524.01	14.223	545.52	14.223	554.73	14.223	564.19	14.223	566.93
14.203	522.99	14.203	544.68	14.203	553.80	14.203	563.29	14.203	566.03
14.183	522.05	14.183	543.85	14.183	552.79	14.183	562.33	14.183	565.08
14.163	521.06	14.163	542.98	14.163	551.88	14.163	561.37	14.163	564.08
14.144	520.03	14.144	542.07	14.144	550.79	14.144	560.40	14.144	563.18
14.124	519.05	14.124	541.26	14.124	549.86	14.124	559.46	14.124	562.18
14.104	518.11	14.104	540.33	14.104	548.84	14.104	558.50	14.104	561.28
14.084	517.07	14.084	539.51	14.084	547.90	14.084	557.51	14.084	560.26
14.064	516.03	14.064	538.61	14.064	546.84	14.064	556.55	14.064	559.33
14.044	514.99	14.044	537.73	14.044	545.82	14.044	555.60	14.044	558.68
14.024	513.92	14.024	536.82	14.024	544.82	14.024	554.56	14.024	557.78
14.004	512.93	14.004	535.94	14.004	543.83	14.004	553.52	14.004	557.00
13.984	511.88	13.984	535.00	13.984	542.79	13.984	552.57	13.984	556.07
13.964	510.79	13.964	534.04	13.964	541.76	13.964	551.53	13.964	555.27
13.944	509.71	13.944	533.16	13.944	540.86	13.944	550.55	13.944	554.37
13.924	508.66	13.924	532.17	13.924	539.81	13.924	549.54	13.924	553.43

13.905	507.62	13.905	531.24	13.905	538.84	13.905	548.59	13.905	552.53
13.885	506.55	13.885	530.26	13.885	537.78	13.885	547.52	13.885	551.58
13.865	505.44	13.865	529.34	13.865	536.66	13.865	546.52	13.865	550.67
13.845	504.40	13.845	528.31	13.845	535.63	13.845	545.50	13.845	549.69
13.825	503.33	13.825	527.37	13.825	534.53	13.825	544.50	13.825	548.77
13.805	502.25	13.805	526.34	13.805	533.50	13.805	543.42	13.805	547.83
13.785	501.18	13.785	525.30	13.785	532.50	13.785	542.33	13.785	546.80
13.765	500.12	13.765	524.34	13.765	531.44	13.765	541.30	13.765	545.82
13.745	499.03	13.745	523.33	13.745	530.37	13.745	540.22	13.745	544.85
13.725	497.91	13.725	522.32	13.725	529.36	13.725	539.14	13.725	543.85
13.705	496.82	13.705	521.24	13.705	528.29	13.705	538.07	13.705	542.78
13.685	495.72	13.685	520.24	13.685	527.12	13.685	536.98	13.685	541.78
13.665	494.63	13.665	519.22	13.665	526.08	13.665	535.89	13.665	540.74
13.646	493.51	13.646	518.15	13.646	525.05	13.646	534.79	13.646	539.67
13.626	492.38	13.626	517.10	13.626	523.91	13.626	533.76	13.626	538.66
13.606	491.30	13.606	516.05	13.606	522.75	13.606	532.61	13.606	537.61
13.586	490.12	13.586	514.93	13.586	521.71	13.586	531.53	13.586	536.49
13.566	489.01	13.566	513.90	13.566	520.53	13.566	530.42	13.566	535.44
13.546	487.81	13.546	512.80	13.546	519.46	13.546	529.24	13.546	534.36
13.526	486.71	13.526	511.72	13.526	518.24	13.526	528.13	13.526	533.19
13.506	485.56	13.506	510.66	13.506	517.17	13.506	527.01	13.506	532.12
13.486	484.42	13.486	509.55	13.486	516.01	13.486	525.84	13.486	530.97
13.466	483.29	13.466	508.41	13.466	514.91	13.466	524.72	13.466	529.88
13.446	482.14	13.446	507.29	13.446	513.72	13.446	523.56	13.446	528.77
13.426	480.95	13.426	506.20	13.426	512.57	13.426	522.45	13.426	527.62
13.407	479.77	13.407	505.05	13.407	511.36	13.407	521.24	13.407	526.49
13.387	478.61	13.387	503.92	13.387	510.21	13.387	520.10	13.387	525.33
13.367	477.46	13.367	502.81	13.367	509.02	13.367	518.93	13.367	524.15
13.347	476.25	13.347	501.59	13.347	507.83	13.347	517.78	13.347	522.99
13.327	475.08	13.327	500.45	13.327	506.65	13.327	516.55	13.327	521.84
13.307	473.86	13.307	499.30	13.307	505.49	13.307	515.32	13.307	520.68
13.287	472.74	13.287	498.09	13.287	504.27	13.287	514.12	13.287	519.43
13.267	471.51	13.267	496.90	13.267	503.10	13.267	512.93	13.267	518.20
13.247	470.32	13.247	495.65	13.247	501.94	13.247	511.72	13.247	517.05
13.227	469.17	13.227	494.48	13.227	500.69	13.227	510.50	13.227	515.82
13.207	467.96	13.207	493.26	13.207	499.50	13.207	509.26	13.207	514.61
13.187	466.74	13.187	492.09	13.187	498.20	13.187	508.04	13.187	513.35
13.167	465.55	13.167	490.83	13.167	497.00	13.167	506.79	13.167	512.08
13.148	464.33	13.148	489.62	13.148	495.77	13.148	505.56	13.148	510.91
13.128	463.10	13.128	488.37	13.128	494.43	13.128	504.34	13.128	509.67
13.108	461.87	13.108	487.11	13.108	493.26	13.108	503.10	13.108	508.43
13.088	460.66	13.088	485.89	13.088	492.01	13.088	501.76	13.088	507.14
13.068	459.40	13.068	484.62	13.068	490.86	13.068	500.45	13.068	505.89
13.048	458.21	13.048	483.40	13.048	489.64	13.048	499.26	13.048	504.63
13.028	456.99	13.028	482.12	13.028	488.34	13.028	498.04	13.028	503.35

13.008	455.70	13.008	480.88	13.008	487.05	13.008	496.75	13.008	502.07
12.988	454.47	12.988	479.60	12.988	485.71	12.988	495.44	12.988	500.74
12.968	453.20	12.968	478.29	12.968	484.51	12.968	494.15	12.968	499.50
12.948	451.96	12.948	476.96	12.948	483.16	12.948	492.90	12.948	498.15
12.928	450.78	12.928	475.72	12.928	481.83	12.928	491.59	12.928	496.86
12.909	449.48	12.909	474.35	12.909	480.62	12.909	490.31	12.909	495.57
12.889	448.26	12.889	473.12	12.889	479.27	12.889	488.95	12.889	494.26
12.869	446.96	12.869	471.82	12.869	478.07	12.869	487.57	12.869	492.92
12.849	445.78	12.849	470.50	12.849	476.72	12.849	486.26	12.849	491.58
12.829	444.47	12.829	469.20	12.829	475.37	12.829	484.88	12.829	490.27
12.809	443.23	12.809	467.81	12.809	474.08	12.809	483.61	12.809	488.94
12.789	441.94	12.789	466.49	12.789	472.73	12.789	482.29	12.789	487.58
12.769	440.63	12.769	465.11	12.769	471.40	12.769	480.99	12.769	486.23
12.749	439.40	12.749	463.77	12.749	470.02	12.749	479.63	12.749	484.82
12.729	438.16	12.729	462.47	12.729	468.71	12.729	478.26	12.729	483.52
12.709	436.86	12.709	461.10	12.709	467.35	12.709	476.82	12.709	482.03
12.689	435.56	12.689	459.73	12.689	465.95	12.689	475.43	12.689	480.80
12.669	434.30	12.669	458.40	12.669	464.66	12.669	474.06	12.669	479.35
12.650	433.04	12.650	457.01	12.650	463.23	12.650	472.60	12.650	477.92
12.630	431.68	12.630	455.67	12.630	461.94	12.630	471.24	12.630	476.48
12.610	430.42	12.610	454.32	12.610	460.54	12.610	469.84	12.610	475.10
12.590	429.18	12.590	452.97	12.590	459.21	12.590	468.42	12.590	473.70
12.570	427.86	12.570	451.55	12.570	457.85	12.570	467.05	12.570	472.26
12.550	426.58	12.550	450.14	12.550	456.46	12.550	465.63	12.550	470.86
12.530	425.25	12.530	448.71	12.530	455.04	12.530	464.15	12.530	469.33
12.510	424.00	12.510	447.33	12.510	453.87	12.510	462.70	12.510	467.94
12.490	422.67	12.490	445.94	12.490	452.61	12.490	461.33	12.490	466.50
12.470	421.42	12.470	444.47	12.470	451.27	12.470	459.78	12.470	465.14
12.450	420.14	12.450	443.09	12.450	449.96	12.450	458.29	12.450	463.58
12.430	418.83	12.430	441.68	12.430	448.61	12.430	456.93	12.430	462.06
12.411	417.52	12.411	440.33	12.411	447.27	12.411	455.44	12.411	460.70
12.391	416.17	12.391	438.88	12.391	445.79	12.391	453.98	12.391	459.20
12.371	414.86	12.371	437.43	12.371	444.50	12.371	452.53	12.371	457.80
12.351	413.53	12.351	435.97	12.351	443.05	12.351	451.08	12.351	456.32
12.331	412.21	12.331	434.66	12.331	441.64	12.331	449.54	12.331	454.86
12.311	410.90	12.311	433.19	12.311	440.19	12.311	448.04	12.311	453.38
12.291	409.55	12.291	431.74	12.291	438.82	12.291	446.54	12.291	451.82
12.271	408.27	12.271	430.33	12.271	437.41	12.271	445.09	12.271	450.38
12.251	407.01	12.251	428.80	12.251	435.91	12.251	443.60	12.251	448.86
12.231	405.67	12.231	427.40	12.231	434.42	12.231	442.11	12.231	447.41
12.211	404.35	12.211	425.99	12.211	433.09	12.211	440.59	12.211	445.86
12.191	402.96	12.191	424.56	12.191	431.68	12.191	439.15	12.191	444.40
12.171	401.71	12.171	423.08	12.171	430.27	12.171	437.59	12.171	442.78
12.152	400.40	12.152	421.68	12.152	428.76	12.152	436.10	12.152	441.31
12.132	399.07	12.132	420.24	12.132	427.25	12.132	434.57	12.132	439.79

12.112	397.77	12.112	418.82	12.112	425.79	12.112	433.20	12.112	438.28
12.092	396.51	12.092	417.38	12.092	424.33	12.092	431.65	12.092	436.77
12.072	395.16	12.072	415.95	12.072	422.96	12.072	430.18	12.072	435.31
12.052	393.80	12.052	414.47	12.052	421.49	12.052	428.65	12.052	433.76
12.032	392.48	12.032	413.04	12.032	420.00	12.032	427.15	12.032	432.21
12.012	391.12	12.012	411.58	12.012	418.55	12.012	425.62	12.012	430.70
11.992	389.84	11.992	410.07	11.992	417.09	11.992	423.77	11.992	429.25
11.972	388.51	11.972	408.58	11.972	415.65	11.972	422.38	11.972	427.70
11.952	387.19	11.952	407.13	11.952	414.25	11.952	420.91	11.952	426.07
11.932	385.93	11.932	405.70	11.932	412.84	11.932	419.44	11.932	424.49
11.913	384.66	11.913	404.23	11.913	412.32	11.913	417.92	11.913	423.01
11.893	383.25	11.893	402.86	11.893	411.11	11.893	416.56	11.893	421.51
11.873	381.94	11.873	401.38	11.873	409.87	11.873	415.05	11.873	419.99
11.853	380.69	11.853	399.92	11.853	408.61	11.853	413.56	11.853	418.48
11.833	379.39	11.833	398.49	11.833	407.34	11.833	412.12	11.833	416.91
11.813	378.09	11.813	397.01	11.813	406.06	11.813	410.59	11.813	415.44
11.793	376.77	11.793	395.52	11.793	404.73	11.793	409.18	11.793	413.87
11.773	375.50	11.773	394.14	11.773	403.44	11.773	407.62	11.773	412.23
11.753	374.15	11.753	392.67	11.753	402.18	11.753	406.15	11.753	410.70
11.733	372.81	11.733	391.20	11.733	400.81	11.733	404.91	11.733	409.20
11.713	371.54	11.713	389.78	11.713	399.46	11.713	404.02	11.713	407.63
11.693	370.25	11.693	388.41	11.693	398.13	11.693	402.66	11.693	406.13
11.673	368.98	11.673	386.92	11.673	396.79	11.673	401.32	11.673	404.57
11.654	367.69	11.654	385.50	11.654	395.39	11.654	400.00	11.654	403.07
11.634	366.38	11.634	384.03	11.634	394.00	11.634	398.65	11.634	401.49
11.614	365.15	11.614	382.56	11.614	392.67	11.614	397.31	11.614	400.03
11.594	363.83	11.594	381.12	11.594	391.30	11.594	395.95	11.594	398.45
11.574	362.55	11.574	379.70	11.574	389.90	11.574	394.61	11.574	396.95
11.554	361.23	11.554	378.34	11.554	388.49	11.554	393.22	11.554	395.45
11.534	360.01	11.534	376.88	11.534	387.12	11.534	391.82	11.534	393.89
11.514	358.74	11.514	375.43	11.514	385.71	11.514	390.46	11.514	392.43
11.494	357.41	11.494	374.04	11.494	384.27	11.494	389.04	11.494	390.79
11.474	356.12	11.474	372.52	11.474	382.82	11.474	387.68	11.474	389.27
11.454	354.80	11.454	371.14	11.454	381.44	11.454	386.16	11.454	387.82
11.434	353.55	11.434	369.75	11.434	379.98	11.434	384.77	11.434	386.31
11.415	352.29	11.415	368.35	11.415	378.58	11.415	383.38	11.415	384.67
11.395	351.07	11.395	366.91	11.395	377.15	11.395	381.95	11.395	383.18
11.375	349.75	11.375	365.55	11.375	375.71	11.375	380.55	11.375	381.69
11.355	348.46	11.355	364.11	11.355	374.26	11.355	379.12	11.355	380.16
11.335	347.22	11.335	362.67	11.335	372.87	11.335	377.71	11.335	378.65
11.315	345.96	11.315	361.26	11.315	371.48	11.315	376.24	11.315	377.12
11.295	344.72	11.295	359.80	11.295	369.97	11.295	374.81	11.295	375.65
11.275	343.47	11.275	358.44	11.275	368.53	11.275	373.37	11.275	374.13
11.255	342.19	11.255	357.10	11.255	367.13	11.255	371.88	11.255	372.65
11.235	340.98	11.235	355.69	11.235	365.65	11.235	370.42	11.235	371.14

11.215	339.70	11.215	354.28	11.215	364.30	11.215	368.99	11.215	369.67
11.195	338.50	11.195	352.94	11.195	362.77	11.195	367.53	11.195	368.17
11.175	337.19	11.175	351.56	11.175	361.40	11.175	366.16	11.175	366.62
11.156	335.98	11.156	350.17	11.156	359.95	11.156	364.60	11.156	365.18
11.136	334.69	11.136	348.77	11.136	358.57	11.136	363.16	11.136	363.68
11.116	333.51	11.116	347.42	11.116	357.10	11.116	361.78	11.116	362.22
11.096	332.26	11.096	346.08	11.096	355.65	11.096	360.31	11.096	360.73
11.076	331.02	11.076	344.70	11.076	354.22	11.076	358.80	11.076	359.26
11.056	329.78	11.056	343.39	11.056	352.83	11.056	357.38	11.056	357.81
11.036	328.56	11.036	342.03	11.036	351.40	11.036	355.94	11.036	356.33
11.016	327.35	11.016	340.68	11.016	349.97	11.016	354.50	11.016	354.82
10.996	326.12	10.996	339.37	10.996	348.62	10.996	353.03	10.996	353.36
10.976	324.87	10.976	338.00	10.976	347.19	10.976	351.62	10.976	351.93
10.956	323.68	10.956	336.67	10.956	345.80	10.956	350.14	10.956	350.53
10.936	322.46	10.936	335.30	10.936	344.40	10.936	348.69	10.936	349.05
10.917	321.27	10.917	333.97	10.917	342.92	10.917	347.27	10.917	347.63
10.897	320.04	10.897	332.62	10.897	341.53	10.897	345.91	10.897	346.22
10.877	318.82	10.877	331.35	10.877	340.15	10.877	344.46	10.877	344.76
10.857	317.65	10.857	329.97	10.857	338.82	10.857	343.02	10.857	343.37
10.837	316.44	10.837	328.70	10.837	337.46	10.837	341.63	10.837	341.95
10.817	315.30	10.817	327.37	10.817	336.03	10.817	340.25	10.817	340.47
10.797	314.08	10.797	326.09	10.797	334.62	10.797	338.76	10.797	339.08
10.777	312.96	10.777	324.83	10.777	333.34	10.777	337.32	10.777	337.65
10.757	311.66	10.757	323.50	10.757	331.94	10.757	335.97	10.757	336.23
10.737	310.53	10.737	322.19	10.737	330.56	10.737	334.56	10.737	334.89
10.717	309.36	10.717	320.95	10.717	329.12	10.717	333.15	10.717	333.50
10.697	308.17	10.697	319.63	10.697	327.83	10.697	331.81	10.697	332.10
10.677	307.04	10.677	318.39	10.677	326.44	10.677	330.37	10.677	330.74
10.658	305.88	10.658	317.09	10.658	325.18	10.658	329.03	10.658	329.30
10.638	304.73	10.638	315.85	10.638	323.80	10.638	327.69	10.638	327.96
10.618	303.60	10.618	314.61	10.618	322.48	10.618	326.32	10.618	326.61
10.598	302.44	10.598	313.36	10.598	321.19	10.598	324.96	10.598	325.24
10.578	301.33	10.578	312.12	10.578	319.88	10.578	323.59	10.578	323.85
10.558	300.11	10.558	310.86	10.558	318.50	10.558	322.24	10.558	322.48
10.538	299.07	10.538	309.59	10.538	317.19	10.538	320.85	10.538	321.23
10.518	297.85	10.518	308.38	10.518	315.83	10.518	319.56	10.518	319.89
10.498	296.71	10.498	307.08	10.498	314.54	10.498	318.21	10.498	318.51
10.478	295.61	10.478	305.86	10.478	313.28	10.478	316.88	10.478	317.23
10.458	294.52	10.458	304.72	10.458	311.99	10.458	315.56	10.458	315.85
10.438	293.42	10.438	303.48	10.438	310.72	10.438	314.20	10.438	314.58
10.419	292.27	10.419	302.23	10.419	309.45	10.419	312.95	10.419	313.33
10.399	291.13	10.399	301.07	10.399	308.13	10.399	311.65	10.399	311.94
10.379	290.05	10.379	299.83	10.379	306.85	10.379	310.38	10.379	310.70
10.359	288.92	10.359	298.63	10.359	305.64	10.359	309.01	10.359	309.42
10.339	287.86	10.339	297.40	10.339	304.35	10.339	307.72	10.339	308.08

10.319	286.77	10.319	296.26	10.319	303.14	10.319	306.42	10.319	306.84
10.299	285.61	10.299	295.09	10.299	301.92	10.299	305.20	10.299	305.56
10.279	284.52	10.279	293.88	10.279	300.65	10.279	303.88	10.279	304.32
10.259	283.46	10.259	292.73	10.259	299.43	10.259	302.61	10.259	303.03
10.239	282.44	10.239	291.59	10.239	298.18	10.239	301.38	10.239	301.73
10.219	281.31	10.219	290.42	10.219	296.97	10.219	300.12	10.219	300.54
10.199	280.25	10.199	289.16	10.199	295.66	10.199	298.85	10.199	299.31
10.179	279.16	10.179	288.11	10.179	294.44	10.179	297.51	10.179	298.07
10.160	278.10	10.160	286.93	10.160	293.23	10.160	296.35	10.160	296.85
10.140	277.07	10.140	285.79	10.140	292.04	10.140	295.10	10.140	295.60
10.120	275.99	10.120	284.66	10.120	290.82	10.120	293.86	10.120	294.38
10.100	275.00	10.100	283.50	10.100	289.61	10.100	292.63	10.100	293.25
10.080	273.91	10.080	282.33	10.080	288.45	10.080	291.35	10.080	292.14
10.060	272.82	10.060	281.28	10.060	287.29	10.060	290.18	10.060	290.94
10.040	271.86	10.040	280.16	10.040	286.10	10.040	288.95	10.040	289.82
10.020	270.78	10.020	279.00	10.020	284.89	10.020	287.79	10.020	288.66
10.000	269.73	10.000	277.86	10.000	283.68	10.000	286.59	10.000	287.49
9.980	268.72	9.980	276.80	9.980	282.57	9.980	285.36	9.980	286.34
9.960	267.65	9.960	275.70	9.960	281.37	9.960	284.23	9.960	285.19
9.940	266.70	9.940	274.52	9.940	280.23	9.940	282.97	9.940	284.01
9.921	265.69	9.921	273.44	9.921	279.09	9.921	281.84	9.921	282.79
9.901	264.69	9.901	272.39	9.901	277.91	9.901	280.64	9.901	281.64
9.881	263.64	9.881	271.30	9.881	276.75	9.881	279.47	9.881	280.43
9.861	262.60	9.861	270.24	9.861	275.61	9.861	278.34	9.861	279.37
9.841	261.62	9.841	269.10	9.841	274.49	9.841	277.22	9.841	278.18
9.821	260.63	9.821	268.06	9.821	273.38	9.821	276.04	9.821	277.02
9.801	259.66	9.801	266.99	9.801	272.26	9.801	274.90	9.801	275.86
9.781	258.66	9.781	265.93	9.781	271.16	9.781	273.73	9.781	274.79
9.761	257.70	9.761	264.82	9.761	270.07	9.761	272.61	9.761	273.60
9.741	256.69	9.741	263.81	9.741	268.91	9.741	271.50	9.741	272.46
9.721	255.71	9.721	262.74	9.721	267.80	9.721	270.33	9.721	271.38
9.701	254.73	9.701	261.69	9.701	266.75	9.701	269.19	9.701	270.24
9.681	253.76	9.681	260.67	9.681	265.65	9.681	268.11	9.681	269.12
9.662	252.82	9.662	259.68	9.662	264.54	9.662	266.99	9.662	267.99
9.642	251.87	9.642	258.60	9.642	263.45	9.642	265.90	9.642	266.85
9.622	250.90	9.622	257.61	9.622	262.42	9.622	264.78	9.622	265.76
9.602	249.94	9.602	256.57	9.602	261.31	9.602	263.63	9.602	264.61
9.582	248.92	9.582	255.48	9.582	260.23	9.582	262.63	9.582	263.55
9.562	248.03	9.562	254.50	9.562	259.20	9.562	261.53	9.562	262.47
9.542	247.09	9.542	253.49	9.542	258.11	9.542	260.41	9.542	261.41
9.522	246.16	9.522	252.50	9.522	257.10	9.522	259.39	9.522	260.34
9.502	245.84	9.502	251.50	9.502	256.05	9.502	258.29	9.502	259.22
9.482	244.95	9.482	250.50	9.482	255.01	9.482	257.24	9.482	258.15
9.462	244.02	9.462	249.53	9.462	253.95	9.462	256.23	9.462	257.01
9.442	243.05	9.442	248.52	9.442	252.95	9.442	255.12	9.442	256.01

9.423	242.11	9.423	247.53	9.423	251.85	9.423	254.05	9.423	254.96
9.403	241.21	9.403	246.55	9.403	250.85	9.403	253.02	9.403	253.88
9.383	240.32	9.383	245.57	9.383	249.82	9.383	251.98	9.383	252.81
9.363	239.41	9.363	244.56	9.363	248.87	9.363	250.94	9.363	251.81
9.343	238.47	9.343	243.63	9.343	247.84	9.343	249.93	9.343	250.77
9.323	237.62	9.323	242.67	9.323	246.80	9.323	248.89	9.323	249.66
9.303	236.70	9.303	241.70	9.303	245.86	9.303	247.84	9.303	248.68
9.283	235.82	9.283	240.74	9.283	244.85	9.283	246.82	9.283	247.64
9.263	234.94	9.263	239.79	9.263	243.83	9.263	245.83	9.263	246.67
9.243	234.03	9.243	238.84	9.243	242.84	9.243	244.87	9.243	245.61
9.223	233.17	9.223	237.93	9.223	241.85	9.223	243.85	9.223	244.61
9.203	232.30	9.203	236.95	9.203	240.84	9.203	242.82	9.203	243.57
9.183	231.38	9.183	235.97	9.183	239.91	9.183	241.79	9.183	242.61
9.164	230.54	9.164	235.05	9.164	238.89	9.164	240.84	9.164	241.57
9.144	229.69	9.144	234.09	9.144	238.02	9.144	239.86	9.144	240.58
9.124	228.81	9.124	233.24	9.124	236.95	9.124	238.83	9.124	239.64
9.104	227.89	9.104	232.28	9.104	236.01	9.104	237.90	9.104	238.62
9.084	227.02	9.084	231.40	9.084	235.08	9.084	236.90	9.084	237.67
9.064	226.20	9.064	230.45	9.064	234.08	9.064	235.97	9.064	236.65
9.044	225.34	9.044	229.53	9.044	233.17	9.044	234.99	9.044	235.72
9.024	224.46	9.024	228.68	9.024	232.24	9.024	233.97	9.024	234.73
9.004	223.57	9.004	227.70	9.004	231.33	9.004	233.04	9.004	233.75
8.984	222.68	8.984	226.82	8.984	230.39	8.984	232.11	8.984	232.81
8.964	221.85	8.964	225.95	8.964	229.42	8.964	231.16	8.964	231.85
8.944	221.00	8.944	225.06	8.944	228.48	8.944	230.24	8.944	230.92
8.925	220.23	8.925	224.09	8.925	227.57	8.925	229.24	8.925	229.98
8.905	219.37	8.905	223.22	8.905	226.65	8.905	228.33	8.905	228.98
8.885	218.52	8.885	222.37	8.885	225.74	8.885	227.41	8.885	228.31
8.865	217.67	8.865	221.46	8.865	224.83	8.865	226.45	8.865	227.62
8.845	216.85	8.845	220.58	8.845	223.94	8.845	225.54	8.845	226.69
8.825	216.02	8.825	219.73	8.825	223.02	8.825	224.63	8.825	225.73
8.805	215.17	8.805	218.87	8.805	222.13	8.805	223.73	8.805	224.80
8.785	214.35	8.785	217.98	8.785	221.20	8.785	222.81	8.785	223.92
8.765	213.55	8.765	217.10	8.765	220.33	8.765	221.91	8.765	223.04
8.745	212.74	8.745	216.30	8.745	219.42	8.745	221.00	8.745	222.10
8.725	211.89	8.725	215.39	8.725	218.57	8.725	220.08	8.725	221.23
8.705	211.05	8.705	214.54	8.705	217.65	8.705	219.20	8.705	220.33
8.685	210.30	8.685	213.70	8.685	216.82	8.685	218.27	8.685	219.37
8.666	209.44	8.666	212.87	8.666	215.92	8.666	217.42	8.666	218.55
8.646	208.62	8.646	212.04	8.646	215.03	8.646	216.49	8.646	217.64
8.626	207.81	8.626	211.18	8.626	214.19	8.626	215.65	8.626	216.79
8.606	207.01	8.606	210.34	8.606	213.29	8.606	214.79	8.606	215.89
8.586	206.22	8.586	209.51	8.586	212.44	8.586	213.88	8.586	214.99
8.566	205.38	8.566	208.70	8.566	211.59	8.566	213.06	8.566	214.16
8.546	204.61	8.546	207.87	8.546	210.76	8.546	212.22	8.546	213.25

8.526	203.85	8.526	207.06	8.526	209.93	8.526	211.30	8.526	212.41
8.506	203.07	8.506	206.22	8.506	209.06	8.506	210.47	8.506	211.57
8.486	202.28	8.486	205.39	8.486	208.24	8.486	209.63	8.486	210.66
8.466	201.43	8.466	204.56	8.466	207.34	8.466	208.72	8.466	209.80
8.446	200.71	8.446	203.78	8.446	206.53	8.446	207.90	8.446	208.97
8.427	199.95	8.427	202.95	8.427	205.69	8.427	207.07	8.427	208.13
8.407	199.14	8.407	202.15	8.407	204.86	8.407	206.26	8.407	207.28
8.387	198.33	8.387	201.33	8.387	204.05	8.387	205.43	8.387	206.43
8.367	197.53	8.367	200.56	8.367	203.23	8.367	204.58	8.367	205.61
8.347	196.76	8.347	199.76	8.347	202.40	8.347	203.71	8.347	204.75
8.327	196.05	8.327	198.95	8.327	201.57	8.327	202.85	8.327	203.94
8.307	195.26	8.307	198.18	8.307	200.77	8.307	202.10	8.307	203.11
8.287	194.48	8.287	197.40	8.287	199.98	8.287	201.27	8.287	202.29
8.267	193.74	8.267	196.62	8.267	199.16	8.267	200.43	8.267	201.42
8.247	193.02	8.247	195.84	8.247	198.36	8.247	199.60	8.247	200.57
8.227	192.23	8.227	195.03	8.227	197.55	8.227	198.83	8.227	199.80
8.207	191.45	8.207	194.21	8.207	196.71	8.207	198.01	8.207	198.95
8.187	190.74	8.187	193.52	8.187	195.98	8.187	197.21	8.187	198.15
8.168	190.02	8.168	192.74	8.168	195.13	8.168	196.39	8.168	197.34
8.148	189.27	8.148	191.97	8.148	194.40	8.148	195.54	8.148	196.57
8.128	188.56	8.128	191.17	8.128	193.55	8.128	194.76	8.128	195.72
8.108	187.78	8.108	190.43	8.108	192.75	8.108	193.95	8.108	194.91
8.088	187.02	8.088	189.71	8.088	192.01	8.088	193.21	8.088	194.17
8.068	186.28	8.068	188.92	8.068	191.27	8.068	192.43	8.068	193.37
8.048	185.55	8.048	188.18	8.048	190.43	8.048	191.61	8.048	192.55
8.028	184.77	8.028	187.42	8.028	189.69	8.028	190.86	8.028	191.73
8.008	184.08	8.008	186.65	8.008	188.94	8.008	190.02	8.008	190.97
7.988	183.39	7.988	185.93	7.988	188.17	7.988	189.28	7.988	190.19
7.968	182.63	7.968	185.15	7.968	187.42	7.968	188.54	7.968	189.38
7.948	181.93	7.948	184.44	7.948	186.64	7.948	187.73	7.948	188.65
7.929	181.24	7.929	183.72	7.929	185.91	7.929	186.96	7.929	187.85
7.909	180.48	7.909	182.99	7.909	185.15	7.909	186.22	7.909	187.09
7.889	179.83	7.889	182.20	7.889	184.38	7.889	185.45	7.889	186.32
7.869	179.08	7.869	181.47	7.869	183.61	7.869	184.69	7.869	185.54
7.849	178.36	7.849	180.76	7.849	182.89	7.849	183.92	7.849	184.79
7.829	177.65	7.829	180.04	7.829	182.11	7.829	183.13	7.829	183.98
7.809	176.94	7.809	179.33	7.809	181.41	7.809	182.46	7.809	183.25
7.789	176.22	7.789	178.61	7.789	180.69	7.789	181.72	7.789	182.48
7.769	175.52	7.769	177.87	7.769	179.92	7.769	180.94	7.769	181.71
7.749	174.82	7.749	177.13	7.749	179.21	7.749	180.22	7.749	180.97
7.729	174.18	7.729	176.49	7.729	178.46	7.729	179.44	7.729	180.23
7.709	173.47	7.709	175.74	7.709	177.71	7.709	178.71	7.709	179.48
7.689	172.77	7.689	175.02	7.689	177.05	7.689	177.95	7.689	178.74
7.670	172.11	7.670	174.30	7.670	176.28	7.670	177.28	7.670	178.01
7.650	171.41	7.650	173.66	7.650	175.57	7.650	176.53	7.650	177.32

7.630	170.74	7.630	172.89	7.630	174.81	7.630	175.77	7.630	176.59
7.610	170.07	7.610	172.22	7.610	174.13	7.610	175.12	7.610	175.84
7.590	169.37	7.590	171.50	7.590	173.44	7.590	174.37	7.590	175.08
7.570	168.73	7.570	170.85	7.570	172.68	7.570	173.68	7.570	174.35
7.550	168.03	7.550	170.12	7.550	172.00	7.550	172.94	7.550	173.61
7.530	167.35	7.530	169.46	7.530	171.27	7.530	172.20	7.530	172.89
7.510	166.62	7.510	168.74	7.510	170.55	7.510	171.54	7.510	172.21
7.490	166.01	7.490	168.03	7.490	169.88	7.490	170.78	7.490	171.47
7.470	165.29	7.470	167.38	7.470	169.19	7.470	170.09	7.470	170.79
7.450	164.69	7.450	166.70	7.450	168.51	7.450	169.40	7.450	170.06
7.431	163.96	7.431	166.02	7.431	167.82	7.431	168.73	7.431	169.29
7.411	163.34	7.411	165.32	7.411	167.10	7.411	168.03	7.411	168.64
7.391	162.67	7.391	164.66	7.391	166.40	7.391	167.26	7.391	167.96
7.371	162.04	7.371	163.99	7.371	165.70	7.371	166.57	7.371	167.26
7.351	161.41	7.351	163.32	7.351	165.05	7.351	165.90	7.351	166.55
7.331	160.73	7.331	162.67	7.331	164.35	7.331	165.23	7.331	165.84
7.311	160.11	7.311	161.99	7.311	163.66	7.311	164.54	7.311	165.14
7.291	159.45	7.291	161.32	7.291	163.04	7.291	163.88	7.291	164.47
7.271	158.75	7.271	160.70	7.271	162.34	7.271	163.18	7.271	163.78
7.251	158.09	7.251	160.03	7.251	161.67	7.251	162.49	7.251	163.12
7.231	157.49	7.231	159.34	7.231	160.99	7.231	161.81	7.231	162.39
7.211	156.83	7.211	158.71	7.211	160.28	7.211	161.19	7.211	161.76
7.191	156.21	7.191	157.99	7.191	159.66	7.191	160.49	7.191	161.04
7.172	155.56	7.172	157.38	7.172	159.02	7.172	159.84	7.172	160.35
7.152	154.93	7.152	156.73	7.152	158.34	7.152	159.18	7.152	159.70
7.132	154.29	7.132	156.13	7.132	157.68	7.132	158.55	7.132	159.05
7.112	153.74	7.112	155.43	7.112	157.03	7.112	157.84	7.112	158.33
7.092	153.09	7.092	154.81	7.092	156.37	7.092	157.18	7.092	157.67
7.072	152.41	7.072	154.18	7.072	155.69	7.072	156.52	7.072	157.04
7.052	151.75	7.052	153.54	7.052	155.01	7.052	155.86	7.052	156.39
7.032	151.19	7.032	152.94	7.032	154.40	7.032	155.21	7.032	155.66
7.012	150.55	7.012	152.24	7.012	153.71	7.012	154.53	7.012	155.05
6.992	149.88	6.992	151.62	6.992	153.10	6.992	153.92	6.992	154.39
6.972	149.32	6.972	151.03	6.972	152.42	6.972	153.31	6.972	153.72
6.952	148.66	6.952	150.40	6.952	151.80	6.952	152.60	6.952	153.15
6.933	148.10	6.933	149.74	6.933	151.20	6.933	152.00	6.933	152.46
6.913	147.45	6.913	149.09	6.913	150.53	6.913	151.37	6.913	151.78
6.893	146.87	6.893	148.52	6.893	149.90	6.893	150.67	6.893	151.12
6.873	146.23	6.873	147.88	6.873	149.28	6.873	150.03	6.873	150.45
6.853	145.61	6.853	147.26	6.853	148.68	6.853	149.41	6.853	149.87
6.833	145.03	6.833	146.63	6.833	147.97	6.833	148.75	6.833	149.21
6.813	144.40	6.813	146.02	6.813	147.35	6.813	148.16	6.813	148.56
6.793	143.79	6.793	145.42	6.793	146.73	6.793	147.53	6.793	147.96
6.773	143.23	6.773	144.78	6.773	146.10	6.773	146.90	6.773	147.29
6.753	142.60	6.753	144.15	6.753	145.52	6.753	146.25	6.753	146.71

6.733	142.02	6.733	143.57	6.733	144.85	6.733	145.62	6.733	146.05
6.713	141.43	6.713	142.95	6.713	144.21	6.713	145.00	6.713	145.40
6.693	140.82	6.693	142.38	6.693	143.67	6.693	144.42	6.693	144.81
6.674	140.27	6.674	141.72	6.674	143.05	6.674	143.79	6.674	144.13
6.654	139.63	6.654	141.14	6.654	142.42	6.654	143.19	6.654	143.56
6.634	139.02	6.634	140.56	6.634	141.79	6.634	142.51	6.634	142.98
6.614	138.43	6.614	139.98	6.614	141.25	6.614	141.90	6.614	142.34
6.594	137.86	6.594	139.37	6.594	140.61	6.594	141.30	6.594	141.68
6.574	137.29	6.574	138.76	6.574	139.99	6.574	140.68	6.574	141.09
6.554	136.72	6.554	138.20	6.554	139.40	6.554	140.13	6.554	140.46
6.534	136.15	6.534	137.62	6.534	138.76	6.534	139.52	6.534	139.85
6.514	135.57	6.514	137.03	6.514	138.20	6.514	138.88	6.514	139.27
6.494	134.98	6.494	136.46	6.494	137.55	6.494	138.25	6.494	138.59
6.474	134.41	6.474	135.81	6.474	137.00	6.474	137.70	6.474	138.04
6.454	133.84	6.454	135.22	6.454	136.43	6.454	137.09	6.454	137.41
6.435	133.25	6.435	134.67	6.435	135.79	6.435	136.52	6.435	136.84
6.415	132.67	6.415	134.11	6.415	135.21	6.415	135.89	6.415	136.21
6.395	132.09	6.395	133.46	6.395	134.65	6.395	135.26	6.395	135.67
6.375	131.52	6.375	132.89	6.375	134.05	6.375	134.70	6.375	135.03
6.355	130.95	6.355	132.32	6.355	133.44	6.355	134.07	6.355	134.47
6.335	130.41	6.335	131.74	6.335	132.85	6.335	133.52	6.335	133.82
6.315	129.82	6.315	131.22	6.315	132.34	6.315	132.95	6.315	133.26
6.295	129.23	6.295	130.65	6.295	131.75	6.295	132.33	6.295	132.62
6.275	128.72	6.275	130.05	6.275	131.14	6.275	131.76	6.275	132.06
6.255	128.18	6.255	129.53	6.255	130.59	6.255	131.20	6.255	131.49
6.235	127.60	6.235	128.89	6.235	130.00	6.235	130.63	6.235	130.92
6.215	127.06	6.215	128.38	6.215	129.41	6.215	130.05	6.215	130.35
6.195	126.46	6.195	127.79	6.195	128.85	6.195	129.49	6.195	129.78
6.176	125.93	6.176	127.24	6.176	128.25	6.176	128.93	6.176	129.20
6.156	125.35	6.156	126.70	6.156	127.76	6.156	128.30	6.156	128.64
6.136	124.82	6.136	126.10	6.136	127.14	6.136	127.78	6.136	128.05
6.116	124.24	6.116	125.58	6.116	126.57	6.116	127.22	6.116	127.48
6.096	123.69	6.096	124.99	6.096	126.05	6.096	126.61	6.096	126.90
6.076	123.18	6.076	124.43	6.076	125.47	6.076	126.08	6.076	126.32
6.056	122.61	6.056	123.90	6.056	124.86	6.056	125.51	6.056	125.74
6.036	122.10	6.036	123.48	6.036	124.33	6.036	124.92	6.036	125.15
6.016	121.53	6.016	123.48	6.016	123.76	6.016	124.37	6.016	124.56
5.996	121.29	5.996	122.95	5.996	123.20	5.996	123.74	5.996	124.05
5.976	120.89	5.976	122.30	5.976	122.68	5.976	123.25	5.976	123.47
5.956	120.33	5.956	121.69	5.956	122.14	5.956	122.66	5.956	122.89
5.937	119.71	5.937	121.12	5.937	121.54	5.937	122.14	5.937	122.34
5.917	119.25	5.917	120.59	5.917	121.01	5.917	121.55	5.917	121.81
5.897	118.83	5.897	120.07	5.897	120.55	5.897	120.96	5.897	121.24
5.877	118.65	5.877	119.53	5.877	120.50	5.877	120.45	5.877	120.70
5.857	118.31	5.857	118.99	5.857	120.09	5.857	119.94	5.857	120.10

5.837	117.74	5.837	118.44	5.837	119.78	5.837	119.35	5.837	119.59
5.817	117.21	5.817	117.90	5.817	119.48	5.817	118.80	5.817	119.07
5.797	116.70	5.797	117.35	5.797	119.01	5.797	118.24	5.797	118.51
5.777	116.16	5.777	116.86	5.777	118.38	5.777	117.70	5.777	117.92
5.757	115.62	5.757	116.30	5.757	117.81	5.757	117.17	5.757	117.40
5.737	115.05	5.737	115.75	5.737	117.24	5.737	116.67	5.737	116.85
5.717	114.50	5.717	115.20	5.717	116.63	5.717	116.09	5.717	116.31
5.697	113.95	5.697	114.70	5.697	116.07	5.697	115.53	5.697	115.76
5.678	113.41	5.678	114.13	5.678	115.51	5.678	115.05	5.678	115.22
5.658	112.87	5.658	113.63	5.658	114.94	5.658	114.48	5.658	114.72
5.638	112.33	5.638	113.07	5.638	114.39	5.638	113.92	5.638	114.15
5.618	111.82	5.618	112.54	5.618	113.88	5.618	113.42	5.618	113.60
5.598	111.33	5.598	112.04	5.598	113.30	5.598	112.93	5.598	113.05
5.578	110.79	5.578	111.53	5.578	112.73	5.578	112.23	5.578	112.55
5.558	110.26	5.558	111.02	5.558	112.16	5.558	111.80	5.558	112.13
5.538	109.76	5.538	110.47	5.538	111.59	5.538	111.38	5.538	111.91
5.518	109.22	5.518	109.98	5.518	111.07	5.518	110.85	5.518	111.38
5.498	108.55	5.498	109.45	5.498	110.49	5.498	110.24	5.498	110.88
5.478	107.80	5.478	108.94	5.478	109.95	5.478	109.66	5.478	110.33
5.458	107.58	5.458	108.42	5.458	109.43	5.458	109.42	5.458	109.83
5.439	107.24	5.439	107.93	5.439	108.90	5.439	108.89	5.439	109.32
5.419	106.76	5.419	107.40	5.419	108.37	5.419	108.39	5.419	108.81
5.399	106.25	5.399	106.92	5.399	107.84	5.399	107.82	5.399	108.25
5.379	105.70	5.379	106.37	5.379	107.30	5.379	107.32	5.379	107.76
5.359	105.19	5.359	105.92	5.359	106.76	5.359	106.76	5.359	107.21
5.339	104.68	5.339	105.44	5.339	106.26	5.339	106.27	5.339	106.71
5.319	104.17	5.319	104.88	5.319	105.76	5.319	105.73	5.319	106.22
5.299	103.66	5.299	104.40	5.299	105.22	5.299	105.19	5.299	105.71
5.279	102.88	5.279	103.88	5.279	104.67	5.279	104.69	5.279	105.19
5.259	102.33	5.259	103.39	5.259	104.12	5.259	104.17	5.259	104.65
5.239	102.05	5.239	102.90	5.239	103.64	5.239	103.66	5.239	104.15
5.219	101.78	5.219	102.42	5.219	103.10	5.219	103.14	5.219	103.65
5.199	100.78	5.199	101.87	5.199	102.58	5.199	102.61	5.199	103.12
5.180	100.36	5.180	101.39	5.180	102.09	5.180	102.11	5.180	102.66
5.160	99.94	5.160	100.89	5.160	101.60	5.160	101.62	5.160	102.13
5.140	99.46	5.140	100.42	5.140	101.08	5.140	101.12	5.140	101.66
5.120	98.96	5.120	99.90	5.120	100.53	5.120	100.60	5.120	101.16
5.100	98.43	5.100	99.40	5.100	100.03	5.100	100.07	5.100	100.61
5.080	97.98	5.080	99.09	5.080	99.52	5.080	99.57	5.080	100.13
5.060	97.49	5.060	98.49	5.060	99.02	5.060	99.09	5.060	99.63
5.040	97.01	5.040	97.97	5.040	98.51	5.040	98.65	5.040	99.13
5.020	96.56	5.020	97.45	5.020	98.00	5.020	98.14	5.020	98.62
5.000	96.06	5.000	97.00	5.000	97.49	5.000	97.64	5.000	98.10
4.980	95.59	4.980	96.50	4.980	97.03	4.980	97.13	4.980	97.66
4.960	95.09	4.960	96.06	4.960	96.54	4.960	96.62	4.960	97.15

4.941	94.65	4.941	95.53	4.941	96.02	4.941	96.10	4.941	96.63
4.921	94.22	4.921	95.06	4.921	95.54	4.921	95.65	4.921	96.15
4.901	93.72	4.901	94.58	4.901	95.06	4.901	95.15	4.901	95.65
4.881	93.24	4.881	94.11	4.881	94.53	4.881	94.63	4.881	95.19
4.861	92.79	4.861	93.63	4.861	94.02	4.861	94.12	4.861	94.68
4.841	92.29	4.841	93.16	4.841	93.57	4.841	93.67	4.841	94.15
4.821	91.85	4.821	92.69	4.821	93.09	4.821	93.21	4.821	93.76
4.801	91.40	4.801	92.22	4.801	92.57	4.801	92.69	4.801	93.27
4.781	90.96	4.781	91.75	4.781	92.09	4.781	92.20	4.781	92.78
4.761	90.46	4.761	91.24	4.761	91.61	4.761	91.71	4.761	92.24
4.741	90.02	4.741	90.76	4.741	91.07	4.741	91.25	4.741	91.78
4.721	89.57	4.721	90.33	4.721	90.60	4.721	90.75	4.721	91.31
4.702	89.11	4.702	89.84	4.702	90.13	4.702	90.28	4.702	90.89
4.682	88.66	4.682	89.39	4.682	89.65	4.682	89.79	4.682	90.37
4.662	88.14	4.662	88.92	4.662	89.18	4.662	89.27	4.662	89.88
4.642	87.69	4.642	88.44	4.642	88.69	4.642	88.82	4.642	89.39
4.622	87.23	4.622	87.95	4.622	88.21	4.622	88.37	4.622	88.90
4.602	86.85	4.602	87.53	4.602	87.73	4.602	87.88	4.602	88.45
4.582	86.35	4.582	87.04	4.582	87.24	4.582	87.42	4.582	87.98
4.562	85.88	4.562	86.58	4.562	86.83	4.562	86.90	4.562	87.48
4.542	85.47	4.542	86.16	4.542	86.34	4.542	86.45	4.542	87.06
4.522	85.02	4.522	85.66	4.522	85.85	4.522	85.99	4.522	86.52
4.502	84.57	4.502	85.24	4.502	85.42	4.502	85.54	4.502	86.09
4.482	84.13	4.482	84.75	4.482	84.94	4.482	85.08	4.482	85.62
4.462	83.67	4.462	84.33	4.462	84.50	4.462	84.63	4.462	85.15
4.443	83.21	4.443	83.83	4.443	84.02	4.443	84.16	4.443	84.66
4.423	82.74	4.423	83.40	4.423	83.55	4.423	83.70	4.423	84.23
4.403	82.28	4.403	82.91	4.403	83.08	4.403	83.23	4.403	83.74
4.383	81.91	4.383	82.48	4.383	82.65	4.383	82.75	4.383	83.32
4.363	81.44	4.363	82.05	4.363	82.16	4.363	82.28	4.363	82.81
4.343	80.96	4.343	81.57	4.343	81.71	4.343	81.80	4.343	82.39
4.323	80.49	4.323	81.10	4.323	81.27	4.323	81.33	4.323	81.88
4.303	80.10	4.303	80.68	4.303	80.82	4.303	80.84	4.303	81.46
4.283	79.64	4.283	80.23	4.283	80.31	4.283	80.44	4.283	81.00
4.263	79.16	4.263	79.79	4.263	79.89	4.263	79.96	4.263	80.53
4.243	78.71	4.243	79.34	4.243	79.45	4.243	79.55	4.243	80.06
4.223	78.29	4.223	78.89	4.223	79.01	4.223	79.06	4.223	79.66
4.204	77.87	4.204	78.40	4.204	78.56	4.204	78.65	4.204	79.18
4.184	77.38	4.184	77.94	4.184	78.07	4.184	78.16	4.184	78.72
4.164	76.99	4.164	77.56	4.164	77.61	4.164	77.73	4.164	78.24
4.144	76.49	4.144	77.10	4.144	77.16	4.144	77.23	4.144	77.78
4.124	76.07	4.124	76.64	4.124	76.77	4.124	76.81	4.124	77.35
4.104	75.65	4.104	76.19	4.104	76.30	4.104	76.38	4.104	76.93
4.084	75.21	4.084	75.73	4.084	75.83	4.084	75.93	4.084	76.50
4.064	74.71	4.064	75.34	4.064	75.42	4.064	75.47	4.064	76.05

4.044	74.33	4.044	74.88	4.044	74.95	4.044	75.00	4.044	75.60
4.024	73.83	4.024	74.41	4.024	74.55	4.024	74.61	4.024	75.17
4.004	73.45	4.004	73.95	4.004	74.10	4.004	74.14	4.004	74.73
3.984	72.99	3.984	73.55	3.984	73.65	3.984	73.69	3.984	74.27
3.964	72.54	3.964	73.08	3.964	73.24	3.964	73.25	3.964	73.85
3.945	72.10	3.945	72.68	3.945	72.76	3.945	72.82	3.945	73.37
3.925	71.67	3.925	72.28	3.925	72.37	3.925	72.36	3.925	72.97
3.905	71.26	3.905	71.79	3.905	71.90	3.905	71.92	3.905	72.52
3.885	70.80	3.885	71.38	3.885	71.48	3.885	71.48	3.885	72.13
3.865	70.35	3.865	70.96	3.865	71.04	3.865	71.08	3.865	71.68
3.845	69.95	3.845	70.49	3.845	70.58	3.845	70.59	3.845	71.21
3.825	69.55	3.825	70.06	3.825	70.16	3.825	70.17	3.825	70.81
3.805	69.08	3.805	69.64	3.805	69.74	3.805	69.75	3.805	70.34
3.785	68.68	3.785	69.21	3.785	69.25	3.785	69.33	3.785	69.90
3.765	68.22	3.765	68.78	3.765	68.89	3.765	68.91	3.765	69.47
3.745	67.82	3.745	68.36	3.745	68.48	3.745	68.48	3.745	69.06
3.725	67.36	3.725	67.93	3.725	68.05	3.725	68.04	3.725	68.64
3.706	66.64	3.706	67.50	3.706	67.62	3.706	67.60	3.706	68.23
3.686	66.38	3.686	67.06	3.686	67.18	3.686	67.16	3.686	67.76
3.666	65.73	3.666	66.63	3.666	66.74	3.666	66.73	3.666	67.34
3.646	65.54	3.646	66.25	3.646	66.30	3.646	66.30	3.646	66.92
3.626	65.18	3.626	65.81	3.626	65.93	3.626	65.85	3.626	66.48
3.606	64.79	3.606	65.37	3.606	65.48	3.606	65.49	3.606	66.09
3.586	64.40	3.586	64.97	3.586	65.04	3.586	65.04	3.586	65.64
3.566	63.99	3.566	64.52	3.566	64.63	3.566	64.57	3.566	65.23
3.546	63.61	3.546	64.13	3.546	64.19	3.546	64.16	3.546	64.79
3.526	63.25	3.526	63.74	3.526	63.80	3.526	63.73	3.526	64.38
3.506	62.82	3.506	63.29	3.506	63.33	3.506	63.33	3.506	63.94
3.486	62.41	3.486	62.88	3.486	62.98	3.486	62.96	3.486	63.49
3.466	61.98	3.466	62.48	3.466	62.54	3.466	62.48	3.466	63.12
3.447	61.57	3.447	62.01	3.447	62.14	3.447	62.08	3.447	62.69
3.427	61.19	3.427	61.60	3.427	61.73	3.427	61.69	3.427	62.24
3.407	60.82	3.407	61.18	3.407	61.29	3.407	61.20	3.407	61.86
3.387	60.39	3.387	60.78	3.387	60.90	3.387	60.80	3.387	61.40
3.367	59.97	3.367	60.35	3.367	60.47	3.367	60.40	3.367	61.02
3.347	59.59	3.347	59.95	3.347	60.08	3.347	60.02	3.347	60.57
3.327	59.20	3.327	59.58	3.327	59.63	3.327	59.63	3.327	60.19
3.307	58.79	3.307	59.14	3.307	59.23	3.307	59.19	3.307	59.72
3.287	58.35	3.287	58.70	3.287	58.84	3.287	58.76	3.287	59.32
3.267	57.93	3.267	58.35	3.267	58.45	3.267	58.33	3.267	58.93
3.247	57.52	3.247	57.90	3.247	58.06	3.247	57.95	3.247	58.53
3.227	57.11	3.227	57.52	3.227	57.58	3.227	57.52	3.227	58.06
3.208	56.71	3.208	57.05	3.208	57.18	3.208	57.09	3.208	57.62
3.188	56.31	3.188	56.69	3.188	56.77	3.188	56.70	3.188	57.22
3.168	55.89	3.168	56.30	3.168	56.38	3.168	56.27	3.168	56.80

3.148	55.52	3.148	55.86	3.148	56.03	3.148	55.92	3.148	56.37
3.128	55.13	3.128	55.47	3.128	55.59	3.128	55.48	3.128	56.05
3.108	54.73	3.108	55.08	3.108	55.17	3.108	55.04	3.108	55.67
3.088	54.34	3.088	54.63	3.088	54.82	3.088	54.68	3.088	55.30
3.068	53.92	3.068	54.29	3.068	54.39	3.068	54.21	3.068	54.86
3.048	53.55	3.048	53.89	3.048	54.02	3.048	53.84	3.048	54.45
3.028	53.16	3.028	53.46	3.028	53.59	3.028	53.47	3.028	54.07
3.008	52.71	3.008	53.04	3.008	53.19	3.008	53.07	3.008	53.65
2.988	52.33	2.988	52.68	2.988	52.78	2.988	52.66	2.988	53.21
2.968	51.94	2.968	52.28	2.968	52.40	2.968	52.26	2.968	52.85
2.949	51.56	2.949	51.86	2.949	52.03	2.949	51.87	2.949	52.40
2.929	51.16	2.929	51.48	2.929	51.59	2.929	51.47	2.929	52.03
2.909	50.75	2.909	51.10	2.909	51.23	2.909	50.99	2.909	51.58
2.889	50.36	2.889	50.68	2.889	50.83	2.889	50.65	2.889	51.20
2.869	50.02	2.869	50.29	2.869	50.43	2.869	50.26	2.869	50.81
2.849	49.60	2.849	49.89	2.849	50.02	2.849	49.85	2.849	50.39
2.829	49.22	2.829	49.50	2.829	49.63	2.829	49.45	2.829	49.94
2.809	48.84	2.809	49.10	2.809	49.22	2.809	49.06	2.809	49.54
2.789	48.46	2.789	48.72	2.789	48.85	2.789	48.63	2.789	49.15
2.769	48.05	2.769	48.32	2.769	48.47	2.769	48.27	2.769	48.81
2.749	47.65	2.749	47.93	2.749	48.07	2.749	47.84	2.749	48.40
2.729	47.25	2.729	47.54	2.729	47.70	2.729	47.48	2.729	47.98
2.710	46.89	2.710	47.15	2.710	47.33	2.710	47.11	2.710	47.58
2.690	46.45	2.690	46.75	2.690	46.88	2.690	46.68	2.690	47.21
2.670	46.08	2.670	46.40	2.670	46.52	2.670	46.31	2.670	46.78
2.650	45.71	2.650	45.97	2.650	46.16	2.650	45.91	2.650	46.41
2.630	45.33	2.630	45.61	2.630	45.71	2.630	45.52	2.630	45.99
2.610	44.95	2.610	45.23	2.610	45.34	2.610	45.13	2.610	45.58
2.590	44.56	2.590	44.87	2.590	44.96	2.590	44.77	2.590	45.21
2.570	44.18	2.570	44.45	2.570	44.58	2.570	44.38	2.570	44.83
2.550	43.82	2.550	44.08	2.550	44.19	2.550	44.00	2.550	44.44
2.530	43.46	2.530	43.71	2.530	43.84	2.530	43.59	2.530	44.05
2.510	43.06	2.510	43.31	2.510	43.44	2.510	43.17	2.510	43.66
2.490	42.67	2.490	42.93	2.490	43.05	2.490	42.82	2.490	43.26
2.470	42.32	2.470	42.54	2.470	42.71	2.470	42.40	2.470	42.85
2.451	41.95	2.451	42.20	2.451	42.30	2.451	42.07	2.451	42.48
2.431	41.54	2.431	41.81	2.431	41.96	2.431	41.66	2.431	42.12
2.411	41.17	2.411	41.43	2.411	41.54	2.411	41.31	2.411	41.73
2.391	40.81	2.391	41.05	2.391	41.16	2.391	40.90	2.391	41.30
2.371	40.39	2.371	40.68	2.371	40.79	2.371	40.55	2.371	40.95
2.351	40.06	2.351	40.32	2.351	40.42	2.351	40.16	2.351	40.60
2.331	39.63	2.331	39.92	2.331	40.05	2.331	39.76	2.331	40.16
2.311	39.29	2.311	39.54	2.311	39.67	2.311	39.40	2.311	39.76
2.291	38.93	2.291	39.19	2.291	39.29	2.291	39.03	2.291	39.38
2.271	38.57	2.271	38.82	2.271	38.92	2.271	38.61	2.271	39.03

2.251	38.20	2.251	38.44	2.251	38.54	2.251	38.23	2.251	38.63
2.231	37.81	2.231	38.12	2.231	38.17	2.231	37.89	2.231	38.30
2.212	37.43	2.212	37.73	2.212	37.80	2.212	37.52	2.212	37.91
2.192	37.05	2.192	37.33	2.192	37.42	2.192	37.10	2.192	37.51
2.172	36.67	2.172	37.01	2.172	37.04	2.172	36.76	2.172	37.18
2.152	36.29	2.152	36.59	2.152	36.71	2.152	36.39	2.152	36.79
2.132	35.95	2.132	36.24	2.132	36.34	2.132	35.98	2.132	36.38
2.112	35.59	2.112	35.91	2.112	35.94	2.112	35.68	2.112	36.03
2.092	35.20	2.092	35.53	2.092	35.58	2.092	35.25	2.092	35.64
2.072	34.80	2.072	35.14	2.072	35.22	2.072	34.87	2.072	35.26
2.052	34.44	2.052	34.78	2.052	34.82	2.052	34.50	2.052	34.88
2.032	34.09	2.032	34.41	2.032	34.46	2.032	34.16	2.032	34.49
2.012	33.73	2.012	34.05	2.012	34.09	2.012	33.80	2.012	34.13
1.992	33.35	1.992	33.72	1.992	33.72	1.992	33.46	1.992	33.81
1.972	32.97	1.972	33.33	1.972	33.36	1.972	33.09	1.972	33.41
1.953	32.66	1.953	33.02	1.953	32.98	1.953	32.72	1.953	33.01
1.933	32.26	1.933	32.63	1.933	32.63	1.933	32.35	1.933	32.68
1.913	31.94	1.913	32.31	1.913	32.27	1.913	31.98	1.913	32.31
1.893	31.52	1.893	31.92	1.893	31.94	1.893	31.66	1.893	31.91
1.873	31.16	1.873	31.61	1.873	31.56	1.873	31.27	1.873	31.54
1.853	30.82	1.853	31.21	1.853	31.23	1.853	30.96	1.853	31.19
1.833	30.47	1.833	30.82	1.833	30.81	1.833	30.58	1.833	30.83
1.813	30.12	1.813	30.51	1.813	30.48	1.813	30.27	1.813	30.47
1.793	29.76	1.793	30.12	1.793	30.12	1.793	29.87	1.793	30.11
1.773	29.36	1.773	29.80	1.773	29.76	1.773	29.51	1.773	29.76
1.753	29.05	1.753	29.41	1.753	29.40	1.753	29.17	1.753	29.39
1.733	28.68	1.733	29.02	1.733	29.04	1.733	28.86	1.733	29.01
1.714	28.35	1.714	28.70	1.714	28.69	1.714	28.47	1.714	28.71
1.694	27.97	1.694	28.31	1.694	28.35	1.694	28.15	1.694	28.29
1.674	27.64	1.674	27.97	1.674	27.95	1.674	27.76	1.674	27.94
1.654	27.27	1.654	27.61	1.654	27.64	1.654	27.42	1.654	27.61
1.634	26.96	1.634	27.26	1.634	27.29	1.634	27.07	1.634	27.26
1.614	26.55	1.614	26.90	1.614	26.95	1.614	26.71	1.614	26.87
1.594	26.20	1.594	26.57	1.594	26.60	1.594	26.36	1.594	26.53
1.574	25.87	1.574	26.19	1.574	26.25	1.574	25.99	1.574	26.17
1.554	25.52	1.554	25.86	1.554	25.87	1.554	25.66	1.554	25.81
1.534	25.17	1.534	25.49	1.534	25.49	1.534	25.27	1.534	25.45
1.514	24.85	1.514	25.17	1.514	25.18	1.514	24.94	1.514	25.10
1.494	24.46	1.494	24.80	1.494	24.85	1.494	24.64	1.494	24.75
1.474	24.12	1.474	24.47	1.474	24.45	1.474	24.28	1.474	24.39
1.455	23.79	1.455	24.08	1.455	24.09	1.455	23.92	1.455	24.04
1.435	23.45	1.435	23.76	1.435	23.73	1.435	23.53	1.435	23.69
1.415	23.10	1.415	23.45	1.415	23.37	1.415	23.21	1.415	23.34
1.395	22.73	1.395	23.06	1.395	23.06	1.395	22.90	1.395	22.99
1.375	22.41	1.375	22.74	1.375	22.71	1.375	22.55	1.375	22.61

1.355	22.09	1.355	22.43	1.355	22.36	1.355	22.19	1.355	22.30
1.335	21.70	1.335	22.04	1.335	22.04	1.335	21.85	1.335	21.92
1.315	21.38	1.315	21.72	1.315	21.70	1.315	21.50	1.315	21.58
1.295	21.07	1.295	21.33	1.295	21.36	1.295	21.18	1.295	21.24
1.275	20.66	1.275	21.02	1.275	20.97	1.275	20.83	1.275	20.88
1.255	20.34	1.255	20.63	1.255	20.63	1.255	20.47	1.255	20.55
1.235	19.99	1.235	20.31	1.235	20.31	1.235	20.10	1.235	20.19
1.216	19.70	1.216	19.92	1.216	19.92	1.216	19.76	1.216	19.85
1.196	19.32	1.196	19.61	1.196	19.61	1.196	19.41	1.196	19.49
1.176	18.96	1.176	19.29	1.176	19.29	1.176	19.06	1.176	19.14
1.156	18.63	1.156	18.90	1.156	18.90	1.156	18.73	1.156	18.82
1.136	18.30	1.136	18.51	1.136	18.59	1.136	18.40	1.136	18.49
1.116	17.96	1.116	18.20	1.116	18.20	1.116	18.04	1.116	18.13
1.096	17.62	1.096	17.88	1.096	17.88	1.096	17.73	1.096	17.79
1.076	17.31	1.076	17.57	1.076	17.57	1.076	17.41	1.076	17.46
1.056	16.96	1.056	17.18	1.056	17.20	1.056	17.06	1.056	17.12
1.036	16.61	1.036	16.86	1.036	16.86	1.036	16.71	1.036	16.71
1.016	16.29	1.016	16.55	1.016	16.55	1.016	16.32	1.016	16.40
0.996	15.97	0.996	16.24	0.996	16.20	0.996	16.00	0.996	16.08
0.976	15.66	0.976	15.85	0.976	15.85	0.976	15.67	0.976	15.69
0.957	15.28	0.957	15.53	0.957	15.53	0.957	15.31	0.957	15.38
0.937	15.01	0.937	15.14	0.937	15.23	0.937	14.98	0.937	15.06
0.917	14.64	0.917	14.83	0.917	14.88	0.917	14.72	0.917	14.87
0.897	14.31	0.897	14.44	0.897	14.54	0.897	14.36	0.897	14.53
0.877	13.99	0.877	14.12	0.877	14.21	0.877	14.04	0.877	14.18
0.857	13.63	0.857	13.81	0.857	13.88	0.857	13.65	0.857	13.84
0.837	13.34	0.837	13.50	0.837	13.51	0.837	13.34	0.837	13.49
0.817	12.96	0.817	13.18	0.817	13.21	0.817	13.02	0.817	13.09
0.797	12.65	0.797	12.83	0.797	12.84	0.797	12.70	0.797	12.78
0.777	12.32	0.777	12.54	0.777	12.48	0.777	12.34	0.777	12.44
0.757	11.97	0.757	12.22	0.757	12.21	0.757	12.04	0.757	12.10
0.737	11.67	0.737	11.86	0.737	11.86	0.737	11.69	0.737	11.73
0.718	11.36	0.718	11.51	0.718	11.52	0.718	11.38	0.718	11.38
0.698	10.97	0.698	11.18	0.698	11.19	0.698	11.05	0.698	11.07
0.678	10.69	0.678	10.87	0.678	10.86	0.678	10.67	0.678	10.71
0.658	10.34	0.658	10.49	0.658	10.51	0.658	10.36	0.658	10.40
0.638	10.00	0.638	10.16	0.638	10.22	0.638	10.05	0.638	10.02
0.618	9.69	0.618	9.84	0.618	9.85	0.618	9.73	0.618	9.74
0.598	9.35	0.598	9.47	0.598	9.51	0.598	9.41	0.598	9.38
0.578	9.01	0.578	9.17	0.578	9.21	0.578	9.05	0.578	9.05
0.558	8.71	0.558	8.84	0.558	8.89	0.558	8.85	0.558	8.72
0.538	8.39	0.538	8.55	0.538	8.56	0.538	8.59	0.538	8.38
0.518	8.06	0.518	8.17	0.518	8.23	0.518	8.20	0.518	8.06
0.498	7.71	0.498	7.85	0.498	7.93	0.498	7.85	0.498	7.74
0.478	7.42	0.478	7.54	0.478	7.62	0.478	7.52	0.478	7.37

0.459	7.06	0.459	7.17	0.459	7.24	0.459	7.19	0.459	7.06
0.439	6.75	0.439	6.88	0.439	6.92	0.439	6.83	0.439	6.72
0.419	6.43	0.419	6.56	0.419	6.60	0.419	6.49	0.419	6.43
0.399	6.12	0.399	6.21	0.399	6.29	0.399	6.13	0.399	6.05
0.379	5.81	0.379	5.90	0.379	6.10	0.379	5.79	0.379	5.74
0.359	5.49	0.359	5.58	0.359	6.04	0.359	5.49	0.359	5.43
0.339	5.16	0.339	5.30	0.339	5.97	0.339	5.13	0.339	5.15
0.319	4.81	0.319	4.94	0.319	5.62	0.319	4.82	0.319	4.82
0.299	4.48	0.299	4.62	0.299	5.27	0.299	4.53	0.299	4.49
0.279	4.17	0.279	4.32	0.279	4.92	0.279	4.17	0.279	4.17
0.259	3.85	0.259	3.96	0.259	4.47	0.259	3.86	0.259	3.84
0.239	3.54	0.239	3.62	0.239	4.03	0.239	3.55	0.239	3.48
0.220	3.23	0.220	3.31	0.220	3.61	0.220	3.23	0.220	3.15
0.200	2.91	0.200	3.00	0.200	3.20	0.200	2.92	0.200	2.84
0.180	2.60	0.180	2.69	0.180	2.79	0.180	2.69	0.180	2.53
0.160	2.38	0.160	2.37	0.160	2.43	0.160	2.49	0.160	2.21
0.140	1.99	0.140	2.06	0.140	2.08	0.140	2.38	0.140	1.92
0.120	1.61	0.120	1.75	0.120	1.73	0.120	1.59	0.120	1.64
0.100	1.35	0.100	1.43	0.100	1.43	0.100	1.59	0.100	1.94

Table S1 (continued). $P\rho T x_{CO_2}$ experimental data for CO_2+CO mixtures.

T=343.15 K									
x_{CO_2} = 0.9700		x_{CO_2} = 0.9810		x_{CO_2} = 0.9902		x_{CO_2} = 0.9930		x_{CO_2} = 0.9960	
P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})	P (MPa)	ρ (kg.m^{-3})
20.000	622.56	20.000	634.82	20.000	647.32	20.000	650.99	20.000	653.94
19.980	622.14	19.980	634.40	19.980	646.97	19.980	650.61	19.980	653.59
19.960	621.72	19.960	633.98	19.960	646.54	19.960	650.20	19.960	653.25
19.940	621.28	19.940	633.59	19.940	646.10	19.940	649.80	19.940	652.85
19.920	620.80	19.920	633.22	19.920	645.67	19.920	649.37	19.920	652.46
19.900	620.39	19.900	632.78	19.900	645.25	19.900	648.94	19.900	652.08
19.880	619.94	19.880	632.36	19.880	644.89	19.880	648.57	19.880	651.71
19.861	619.50	19.861	631.96	19.861	644.45	19.861	648.14	19.861	651.34
19.841	619.06	19.841	631.52	19.841	644.01	19.841	647.72	19.841	650.94
19.821	618.60	19.821	631.12	19.821	643.61	19.821	647.29	19.821	650.58
19.801	618.15	19.801	630.73	19.801	643.20	19.801	646.86	19.801	650.18
19.781	617.72	19.781	630.30	19.781	642.74	19.781	646.41	19.781	649.78
19.761	617.25	19.761	629.89	19.761	642.31	19.761	646.04	19.761	649.40
19.741	616.85	19.741	629.46	19.741	641.91	19.741	645.61	19.741	648.99
19.721	616.37	19.721	629.07	19.721	641.47	19.721	645.19	19.721	648.59
19.701	615.86	19.701	628.60	19.701	641.08	19.701	644.76	19.701	648.15
19.681	615.46	19.681	628.21	19.681	640.62	19.681	644.37	19.681	647.76
19.661	615.00	19.661	627.81	19.661	640.25	19.661	643.94	19.661	647.37
19.641	614.57	19.641	627.36	19.641	639.78	19.641	643.44	19.641	646.95
19.622	614.09	19.622	626.89	19.622	639.40	19.622	643.06	19.622	646.52
19.602	613.68	19.602	626.44	19.602	638.94	19.602	642.64	19.602	646.15
19.582	613.21	19.582	626.03	19.582	638.48	19.582	642.17	19.582	645.70
19.562	612.71	19.562	625.62	19.562	638.06	19.562	641.73	19.562	645.30
19.542	612.26	19.542	625.21	19.542	637.62	19.542	641.27	19.542	644.86
19.522	611.76	19.522	624.71	19.522	637.18	19.522	640.78	19.522	644.42
19.502	611.33	19.502	624.27	19.502	636.73	19.502	640.33	19.502	643.98
19.482	610.83	19.482	623.86	19.482	636.27	19.482	639.94	19.482	643.58
19.462	610.39	19.462	623.43	19.462	635.83	19.462	639.46	19.462	643.16
19.442	609.93	19.442	622.96	19.442	635.38	19.442	639.08	19.442	642.72
19.422	609.43	19.422	622.46	19.422	634.96	19.422	638.61	19.422	642.27
19.402	608.96	19.402	622.03	19.402	634.50	19.402	638.14	19.402	641.85
19.382	608.47	19.382	621.58	19.382	634.06	19.382	637.67	19.382	641.41
19.363	608.03	19.363	621.12	19.363	633.64	19.363	637.25	19.363	640.98
19.343	607.52	19.343	620.67	19.343	633.14	19.343	636.86	19.343	640.55
19.323	607.04	19.323	620.20	19.323	632.70	19.323	636.36	19.323	640.13
19.303	606.60	19.303	619.74	19.303	632.22	19.303	635.88	19.303	639.68

19.283	606.06	19.283	619.28	19.283	631.78	19.283	635.46	19.283	639.24
19.263	605.61	19.263	618.82	19.263	631.30	19.263	634.99	19.263	638.78
19.243	605.12	19.243	618.35	19.243	630.86	19.243	634.52	19.243	638.35
19.223	604.63	19.223	617.85	19.223	630.44	19.223	634.09	19.223	637.92
19.203	604.13	19.203	617.43	19.203	629.93	19.203	633.62	19.203	637.44
19.183	603.63	19.183	616.92	19.183	629.50	19.183	633.16	19.183	637.01
19.163	603.17	19.163	616.48	19.163	629.00	19.163	632.72	19.163	636.53
19.143	602.67	19.143	615.99	19.143	628.57	19.143	632.22	19.143	636.05
19.124	602.20	19.124	615.47	19.124	628.08	19.124	631.80	19.124	635.56
19.104	601.68	19.104	615.01	19.104	627.63	19.104	631.27	19.104	635.13
19.084	601.20	19.084	614.55	19.084	627.13	19.084	630.83	19.084	634.68
19.064	600.66	19.064	614.06	19.064	626.66	19.064	630.37	19.064	634.18
19.044	600.17	19.044	613.53	19.044	626.18	19.044	629.84	19.044	633.75
19.024	599.69	19.024	613.05	19.024	625.72	19.024	629.35	19.024	633.22
19.004	599.14	19.004	612.59	19.004	625.26	19.004	628.89	19.004	632.78
18.984	598.65	18.984	612.10	18.984	624.76	18.984	628.41	18.984	632.34
18.964	598.18	18.964	611.62	18.964	624.27	18.964	627.94	18.964	631.85
18.944	597.69	18.944	611.20	18.944	623.78	18.944	627.46	18.944	631.36
18.924	597.12	18.924	610.68	18.924	623.30	18.924	626.96	18.924	630.83
18.904	596.61	18.904	610.18	18.904	622.84	18.904	626.49	18.904	630.37
18.884	596.11	18.884	609.65	18.884	622.34	18.884	625.95	18.884	629.93
18.865	595.58	18.865	609.14	18.865	621.86	18.865	625.49	18.865	629.45
18.845	595.08	18.845	608.65	18.845	621.34	18.845	625.03	18.845	628.91
18.825	594.55	18.825	608.14	18.825	620.88	18.825	624.56	18.825	628.41
18.805	594.06	18.805	607.69	18.805	620.41	18.805	624.07	18.805	627.95
18.785	593.53	18.785	607.17	18.785	619.90	18.785	623.54	18.785	627.50
18.765	593.03	18.765	606.64	18.765	619.39	18.765	623.05	18.765	627.00
18.745	592.54	18.745	606.12	18.745	618.87	18.745	622.54	18.745	626.52
18.725	591.99	18.725	605.59	18.725	618.41	18.725	622.06	18.725	626.01
18.705	591.47	18.705	605.09	18.705	617.88	18.705	621.55	18.705	625.50
18.685	590.99	18.685	604.59	18.685	617.39	18.685	621.11	18.685	625.01
18.665	590.48	18.665	604.06	18.665	616.84	18.665	620.56	18.665	624.47
18.645	589.90	18.645	603.55	18.645	616.37	18.645	620.09	18.645	623.98
18.626	589.38	18.626	602.99	18.626	615.87	18.626	619.55	18.626	623.43
18.606	588.88	18.606	602.50	18.606	615.39	18.606	619.03	18.606	622.96
18.586	588.32	18.586	602.02	18.586	614.86	18.586	618.58	18.586	622.43
18.566	587.77	18.566	601.47	18.566	614.39	18.566	618.05	18.566	621.90
18.546	587.21	18.546	600.96	18.546	613.88	18.546	617.54	18.546	621.39
18.526	586.67	18.526	600.40	18.526	613.37	18.526	617.01	18.526	620.90
18.506	586.15	18.506	599.91	18.506	612.85	18.506	616.53	18.506	620.41
18.486	585.61	18.486	599.33	18.486	612.29	18.486	615.97	18.486	619.86
18.466	585.08	18.466	598.81	18.466	611.79	18.466	615.45	18.466	619.31
18.446	584.54	18.446	598.33	18.446	611.26	18.446	614.91	18.446	618.83
18.426	583.99	18.426	597.78	18.426	610.77	18.426	614.43	18.426	618.29
18.406	583.43	18.406	597.22	18.406	610.22	18.406	614.19	18.406	617.76

18.386	582.88	18.386	596.69	18.386	609.73	18.386	613.83	18.386	617.19
18.367	582.40	18.367	596.16	18.367	609.17	18.367	613.36	18.367	616.68
18.347	581.82	18.347	595.59	18.347	608.65	18.347	612.87	18.347	616.13
18.327	581.26	18.327	595.08	18.327	608.17	18.327	612.42	18.327	615.64
18.307	580.70	18.307	594.49	18.307	607.63	18.307	611.91	18.307	615.08
18.287	580.15	18.287	593.95	18.287	607.13	18.287	611.44	18.287	614.58
18.267	579.59	18.267	593.44	18.267	606.54	18.267	610.99	18.267	614.06
18.247	579.06	18.247	592.90	18.247	605.98	18.247	610.56	18.247	613.53
18.227	578.54	18.227	592.33	18.227	605.52	18.227	610.02	18.227	612.98
18.207	577.96	18.207	591.79	18.207	604.96	18.207	609.55	18.207	612.47
18.187	577.39	18.187	591.21	18.187	604.40	18.187	609.06	18.187	611.90
18.167	576.81	18.167	590.67	18.167	603.87	18.167	608.57	18.167	611.41
18.147	576.30	18.147	590.14	18.147	603.34	18.147	608.08	18.147	611.00
18.128	575.70	18.128	589.61	18.128	602.74	18.128	607.54	18.128	610.52
18.108	575.11	18.108	588.96	18.108	602.22	18.108	607.05	18.108	609.99
18.088	574.60	18.088	588.44	18.088	601.62	18.088	606.60	18.088	609.58
18.068	573.99	18.068	587.87	18.068	601.10	18.068	606.03	18.068	609.07
18.048	573.43	18.048	587.30	18.048	600.53	18.048	605.53	18.048	608.62
18.028	572.84	18.028	586.70	18.028	600.01	18.028	605.00	18.028	608.14
18.008	572.30	18.008	586.16	18.008	599.50	18.008	604.47	18.008	607.66
17.988	571.87	17.988	585.59	17.988	598.90	17.988	604.00	17.988	607.10
17.968	571.29	17.968	585.07	17.968	598.31	17.968	603.42	17.968	606.63
17.948	570.76	17.948	584.43	17.948	597.81	17.948	602.93	17.948	606.11
17.928	570.21	17.928	583.85	17.928	597.22	17.928	602.42	17.928	605.59
17.908	569.63	17.908	583.31	17.908	596.61	17.908	601.87	17.908	605.07
17.888	569.09	17.888	582.72	17.888	596.10	17.888	601.35	17.888	604.52
17.869	568.55	17.869	582.13	17.869	595.50	17.869	600.84	17.869	604.00
17.849	568.02	17.849	581.59	17.849	594.96	17.849	600.26	17.849	603.51
17.829	567.39	17.829	580.95	17.829	594.36	17.829	599.73	17.829	602.93
17.809	566.82	17.809	580.38	17.809	593.77	17.809	599.21	17.809	602.43
17.789	566.26	17.789	579.83	17.789	593.24	17.789	598.70	17.789	601.87
17.769	565.69	17.769	579.18	17.769	592.59	17.769	598.10	17.769	601.32
17.749	565.09	17.749	578.66	17.749	592.01	17.749	597.54	17.749	600.82
17.729	564.50	17.729	578.11	17.729	591.43	17.729	596.96	17.729	600.22
17.709	563.90	17.709	577.46	17.709	590.83	17.709	596.40	17.709	599.67
17.689	563.31	17.689	576.82	17.689	590.25	17.689	595.85	17.689	599.15
17.669	562.72	17.669	576.21	17.669	589.67	17.669	595.31	17.669	598.58
17.649	562.11	17.649	575.67	17.649	589.11	17.649	594.77	17.649	597.98
17.630	561.52	17.630	575.02	17.630	588.51	17.630	594.13	17.630	597.45
17.610	560.94	17.610	574.47	17.610	587.86	17.610	593.57	17.610	596.88
17.590	560.33	17.590	573.83	17.590	587.30	17.590	593.01	17.590	596.30
17.570	559.75	17.570	573.20	17.570	586.65	17.570	592.45	17.570	595.74
17.550	559.15	17.550	572.61	17.550	586.11	17.550	591.90	17.550	595.14
17.530	558.56	17.530	571.97	17.530	585.46	17.530	591.25	17.530	594.53
17.510	557.97	17.510	571.37	17.510	584.89	17.510	590.70	17.510	593.95

17.490	557.30	17.490	570.76	17.490	584.25	17.490	590.17	17.490	593.31
17.470	556.71	17.470	570.15	17.470	583.69	17.470	589.53	17.470	592.75
17.450	556.10	17.450	569.52	17.450	583.10	17.450	588.96	17.450	592.17
17.430	555.48	17.430	568.98	17.430	582.41	17.430	588.37	17.430	591.53
17.410	554.83	17.410	568.33	17.410	581.84	17.410	587.81	17.410	590.95
17.390	554.22	17.390	567.69	17.390	581.21	17.390	587.21	17.390	590.37
17.371	553.62	17.371	567.03	17.371	580.58	17.371	586.56	17.371	589.74
17.351	552.93	17.351	566.38	17.351	579.96	17.351	585.97	17.351	589.13
17.331	552.34	17.331	565.78	17.331	579.34	17.331	585.38	17.331	588.56
17.311	551.65	17.311	565.12	17.311	578.70	17.311	584.72	17.311	587.93
17.291	551.05	17.291	564.52	17.291	578.06	17.291	584.14	17.291	587.35
17.271	550.40	17.271	563.85	17.271	577.46	17.271	583.51	17.271	586.73
17.251	549.73	17.251	563.18	17.251	576.81	17.251	582.88	17.251	586.09
17.231	549.16	17.231	562.57	17.231	576.23	17.231	582.25	17.231	585.47
17.211	548.50	17.211	561.90	17.211	575.52	17.211	581.61	17.211	584.84
17.191	547.83	17.191	561.24	17.191	574.91	17.191	581.05	17.191	584.19
17.171	547.26	17.171	560.63	17.171	574.28	17.171	580.40	17.171	583.55
17.151	546.55	17.151	559.99	17.151	573.64	17.151	579.74	17.151	582.95
17.132	545.93	17.132	559.33	17.132	572.95	17.132	579.12	17.132	582.35
17.112	545.26	17.112	558.68	17.112	572.35	17.112	578.48	17.112	581.68
17.092	544.59	17.092	558.01	17.092	571.65	17.092	577.91	17.092	581.06
17.072	543.91	17.072	557.41	17.072	570.96	17.072	577.20	17.072	580.44
17.052	543.28	17.052	556.68	17.052	570.39	17.052	576.59	17.052	579.76
17.032	542.59	17.032	556.07	17.032	569.74	17.032	575.95	17.032	579.13
17.012	541.87	17.012	555.35	17.012	569.04	17.012	575.30	17.012	578.47
16.992	541.20	16.992	554.70	16.992	568.38	16.992	574.67	16.992	577.78
16.972	540.57	16.972	554.10	16.972	567.70	16.972	574.05	16.972	577.18
16.952	539.87	16.952	553.41	16.952	567.04	16.952	573.43	16.952	576.47
16.932	539.18	16.932	552.70	16.932	566.37	16.932	572.74	16.932	575.82
16.912	538.53	16.912	552.07	16.912	565.71	16.912	572.08	16.912	575.15
16.892	537.80	16.892	551.36	16.892	565.01	16.892	571.44	16.892	574.53
16.873	537.14	16.873	550.60	16.873	564.36	16.873	570.76	16.873	573.85
16.853	536.46	16.853	549.96	16.853	563.65	16.853	570.10	16.853	573.15
16.833	535.78	16.833	549.26	16.833	562.94	16.833	569.42	16.833	572.51
16.813	535.08	16.813	548.60	16.813	562.31	16.813	568.77	16.813	571.86
16.793	534.38	16.793	547.95	16.793	561.61	16.793	568.09	16.793	571.11
16.773	533.70	16.773	547.22	16.773	560.98	16.773	567.35	16.773	570.40
16.753	532.97	16.753	546.57	16.753	560.33	16.753	566.70	16.753	569.74
16.733	532.24	16.733	545.79	16.733	559.76	16.733	566.06	16.733	569.09
16.713	531.59	16.713	545.10	16.713	559.13	16.713	565.32	16.713	568.44
16.693	530.85	16.693	544.42	16.693	558.50	16.693	564.67	16.693	567.68
16.673	530.16	16.673	543.73	16.673	557.87	16.673	563.98	16.673	566.99
16.653	529.48	16.653	543.00	16.653	557.19	16.653	563.26	16.653	566.30
16.634	528.77	16.634	542.32	16.634	556.56	16.634	562.54	16.634	565.61
16.614	528.03	16.614	541.67	16.614	555.89	16.614	561.88	16.614	565.00

16.594	527.34	16.594	540.92	16.594	555.22	16.594	561.19	16.594	564.37
16.574	526.60	16.574	540.27	16.574	554.54	16.574	560.46	16.574	563.74
16.554	525.88	16.554	539.52	16.554	553.87	16.554	559.77	16.554	563.02
16.534	525.18	16.534	538.81	16.534	553.23	16.534	559.10	16.534	562.34
16.514	524.45	16.514	538.08	16.514	552.53	16.514	558.39	16.514	561.66
16.494	523.78	16.494	537.37	16.494	551.83	16.494	557.63	16.494	560.95
16.474	523.03	16.474	536.56	16.474	551.13	16.474	556.95	16.474	560.28
16.454	522.31	16.454	535.85	16.454	550.45	16.454	556.25	16.454	559.55
16.434	521.56	16.434	535.12	16.434	549.75	16.434	555.52	16.434	558.97
16.414	520.82	16.414	534.40	16.414	549.06	16.414	554.79	16.414	558.62
16.394	520.13	16.394	533.71	16.394	548.35	16.394	554.09	16.394	558.13
16.375	519.37	16.375	532.97	16.375	547.69	16.375	553.39	16.375	557.48
16.355	518.58	16.355	532.22	16.355	546.99	16.355	552.61	16.355	556.81
16.335	517.86	16.335	531.50	16.335	546.26	16.335	551.90	16.335	556.15
16.315	517.13	16.315	530.80	16.315	545.47	16.315	551.18	16.315	555.51
16.295	516.38	16.295	530.01	16.295	544.75	16.295	550.46	16.295	554.85
16.275	515.69	16.275	529.26	16.275	544.07	16.275	549.72	16.275	554.19
16.255	514.91	16.255	528.54	16.255	543.30	16.255	548.96	16.255	553.52
16.235	514.14	16.235	527.81	16.235	542.57	16.235	548.24	16.235	552.84
16.215	513.38	16.215	527.03	16.215	541.87	16.215	547.40	16.215	552.17
16.195	512.64	16.195	526.26	16.195	541.10	16.195	546.72	16.195	551.49
16.175	511.84	16.175	525.50	16.175	540.41	16.175	545.94	16.175	550.81
16.155	511.12	16.155	524.74	16.155	539.66	16.155	545.22	16.155	550.12
16.136	510.31	16.136	524.02	16.136	538.94	16.136	544.45	16.136	549.43
16.116	509.57	16.116	523.20	16.116	538.17	16.116	543.68	16.116	548.72
16.096	508.83	16.096	522.48	16.096	537.40	16.096	542.93	16.096	548.10
16.076	508.05	16.076	521.65	16.076	536.65	16.076	542.10	16.076	547.38
16.056	507.31	16.056	520.90	16.056	535.90	16.056	541.42	16.056	546.70
16.036	506.50	16.036	520.16	16.036	535.16	16.036	540.61	16.036	545.97
16.016	505.73	16.016	519.37	16.016	534.36	16.016	539.86	16.016	545.24
15.996	504.97	15.996	518.60	15.996	533.62	15.996	539.06	15.996	544.51
15.976	504.20	15.976	517.79	15.976	532.82	15.976	538.24	15.976	543.77
15.956	503.42	15.956	517.00	15.956	532.12	15.956	537.48	15.956	543.04
15.936	502.67	15.936	516.24	15.936	531.30	15.936	536.74	15.936	542.33
15.916	501.80	15.916	515.46	15.916	530.54	15.916	535.91	15.916	541.59
15.896	501.01	15.896	514.66	15.896	529.75	15.896	535.14	15.896	540.88
15.877	500.20	15.877	513.88	15.877	528.99	15.877	534.29	15.877	540.13
15.857	499.38	15.857	513.08	15.857	528.17	15.857	533.51	15.857	539.38
15.837	498.57	15.837	512.27	15.837	527.39	15.837	532.75	15.837	538.64
15.817	497.79	15.817	511.48	15.817	526.54	15.817	531.94	15.817	537.88
15.797	497.00	15.797	510.67	15.797	525.78	15.797	531.13	15.797	537.10
15.777	496.23	15.777	509.91	15.777	524.98	15.777	530.38	15.777	536.31
15.757	495.44	15.757	509.05	15.757	524.20	15.757	529.57	15.757	535.55
15.737	494.65	15.737	508.25	15.737	523.41	15.737	528.76	15.737	534.80
15.717	493.86	15.717	507.45	15.717	522.55	15.717	527.93	15.717	533.98

15.697	493.00	15.697	506.60	15.697	521.75	15.697	527.11	15.697	533.19
15.677	492.19	15.677	505.82	15.677	520.96	15.677	526.25	15.677	532.41
15.657	491.39	15.657	505.01	15.657	520.15	15.657	525.46	15.657	531.64
15.638	490.55	15.638	504.15	15.638	519.32	15.638	524.61	15.638	530.83
15.618	489.76	15.618	503.33	15.618	518.46	15.618	523.76	15.618	529.98
15.598	488.94	15.598	502.50	15.598	517.66	15.598	522.91	15.598	529.15
15.578	488.11	15.578	501.66	15.578	516.78	15.578	522.08	15.578	528.36
15.558	487.32	15.558	500.82	15.558	515.96	15.558	521.29	15.558	527.54
15.538	486.51	15.538	500.00	15.538	515.12	15.538	520.50	15.538	526.74
15.518	485.68	15.518	499.17	15.518	514.33	15.518	519.61	15.518	525.90
15.498	484.83	15.498	498.29	15.498	513.48	15.498	518.74	15.498	525.10
15.478	484.01	15.478	497.49	15.478	512.62	15.478	517.97	15.478	524.28
15.458	483.19	15.458	496.66	15.458	511.80	15.458	517.05	15.458	523.45
15.438	482.32	15.438	495.81	15.438	510.98	15.438	516.19	15.438	522.61
15.418	481.50	15.418	494.94	15.418	510.14	15.418	515.33	15.418	521.79
15.398	480.69	15.398	494.11	15.398	509.25	15.398	514.52	15.398	520.91
15.379	479.82	15.379	493.26	15.379	508.39	15.379	513.60	15.379	520.00
15.359	479.03	15.359	492.39	15.359	507.55	15.359	512.78	15.359	519.13
15.339	478.19	15.339	491.56	15.339	506.70	15.339	511.90	15.339	518.29
15.319	477.26	15.319	490.70	15.319	505.81	15.319	511.02	15.319	517.46
15.299	476.36	15.299	489.83	15.299	504.94	15.299	510.13	15.299	516.59
15.279	475.57	15.279	489.00	15.279	504.09	15.279	509.28	15.279	515.73
15.259	474.69	15.259	488.10	15.259	503.17	15.259	508.39	15.259	514.86
15.239	473.85	15.239	487.24	15.239	502.30	15.239	507.46	15.239	513.97
15.219	472.99	15.219	486.36	15.219	501.42	15.219	506.57	15.219	513.09
15.199	472.15	15.199	485.43	15.199	500.57	15.199	505.74	15.199	512.20
15.179	471.29	15.179	484.58	15.179	499.66	15.179	504.85	15.179	511.32
15.159	470.41	15.159	483.70	15.159	498.81	15.159	503.93	15.159	510.42
15.140	469.49	15.140	482.85	15.140	497.87	15.140	503.05	15.140	509.51
15.120	468.69	15.120	482.00	15.120	497.00	15.120	502.12	15.120	508.58
15.100	467.77	15.100	481.03	15.100	496.07	15.100	501.28	15.100	507.64
15.080	466.91	15.080	480.18	15.080	495.20	15.080	500.38	15.080	506.82
15.060	466.05	15.060	479.29	15.060	494.29	15.060	499.44	15.060	505.87
15.040	465.17	15.040	478.37	15.040	493.38	15.040	498.51	15.040	504.96
15.020	464.31	15.020	477.49	15.020	492.51	15.020	497.60	15.020	504.11
15.000	463.41	15.000	476.64	15.000	491.59	15.000	496.66	15.000	503.16
14.980	462.53	14.980	475.69	14.980	490.70	14.980	495.77	14.980	502.21
14.960	461.68	14.960	474.80	14.960	489.83	14.960	494.84	14.960	501.31
14.940	460.76	14.940	473.88	14.940	488.89	14.940	493.90	14.940	500.37
14.920	459.87	14.920	473.04	14.920	487.90	14.920	493.00	14.920	499.43
14.901	458.97	14.901	472.08	14.901	486.96	14.901	492.11	14.901	498.49
14.881	458.06	14.881	471.14	14.881	486.09	14.881	491.13	14.881	497.55
14.861	457.22	14.861	470.29	14.861	485.11	14.861	490.21	14.861	496.60
14.841	456.25	14.841	469.35	14.841	484.23	14.841	489.31	14.841	495.69
14.821	455.39	14.821	468.39	14.821	483.31	14.821	488.34	14.821	494.72

14.801	454.50	14.801	467.53	14.801	482.34	14.801	487.38	14.801	493.74
14.781	453.55	14.781	466.52	14.781	481.36	14.781	486.44	14.781	492.71
14.761	452.70	14.761	465.65	14.761	480.50	14.761	485.50	14.761	491.80
14.741	451.72	14.741	464.66	14.741	479.51	14.741	484.49	14.741	490.78
14.721	450.86	14.721	463.79	14.721	478.59	14.721	483.56	14.721	489.83
14.701	449.98	14.701	462.85	14.701	477.65	14.701	482.57	14.701	488.83
14.681	449.05	14.681	461.86	14.681	476.70	14.681	481.69	14.681	487.92
14.661	448.15	14.661	460.95	14.661	475.73	14.661	480.69	14.661	486.93
14.642	447.21	14.642	460.03	14.642	474.82	14.642	479.72	14.642	485.98
14.622	446.30	14.622	459.07	14.622	473.86	14.622	478.77	14.622	484.96
14.602	445.43	14.602	458.16	14.602	472.87	14.602	477.80	14.602	483.97
14.582	444.47	14.582	457.21	14.582	471.90	14.582	476.85	14.582	483.03
14.562	443.58	14.562	456.26	14.562	470.94	14.562	475.94	14.562	482.03
14.542	442.65	14.542	455.36	14.542	469.94	14.542	474.89	14.542	481.09
14.522	441.73	14.522	454.33	14.522	469.00	14.522	473.95	14.522	480.07
14.502	440.82	14.502	453.43	14.502	467.99	14.502	472.93	14.502	479.04
14.482	439.89	14.482	452.43	14.482	467.04	14.482	471.90	14.482	478.00
14.462	438.88	14.462	451.47	14.462	466.03	14.462	470.91	14.462	477.03
14.442	437.97	14.442	450.45	14.442	465.08	14.442	469.92	14.442	475.98
14.422	437.06	14.422	449.56	14.422	464.09	14.422	468.97	14.422	474.97
14.403	436.13	14.403	448.62	14.403	463.10	14.403	467.98	14.403	473.96
14.383	435.16	14.383	447.67	14.383	462.13	14.383	466.96	14.383	472.95
14.363	434.20	14.363	446.66	14.363	461.17	14.363	465.96	14.363	471.93
14.343	433.27	14.343	445.73	14.343	460.17	14.343	464.98	14.343	470.98
14.323	432.31	14.323	444.75	14.323	459.17	14.323	463.97	14.323	469.86
14.303	431.37	14.303	443.74	14.303	458.16	14.303	462.89	14.303	468.84
14.283	430.42	14.283	442.79	14.283	457.19	14.283	461.86	14.283	467.82
14.263	429.50	14.263	441.82	14.263	456.16	14.263	460.90	14.263	466.82
14.243	428.57	14.243	440.80	14.243	455.13	14.243	459.87	14.243	465.78
14.223	427.62	14.223	439.85	14.223	454.20	14.223	458.85	14.223	464.73
14.203	426.68	14.203	438.83	14.203	453.19	14.203	457.88	14.203	463.73
14.183	425.68	14.183	437.95	14.183	452.15	14.183	456.84	14.183	462.68
14.163	424.80	14.163	436.95	14.163	451.16	14.163	455.81	14.163	461.59
14.144	423.83	14.144	436.03	14.144	450.10	14.144	454.78	14.144	460.58
14.124	422.89	14.124	435.00	14.124	449.10	14.124	453.77	14.124	459.54
14.104	421.63	14.104	433.99	14.104	448.11	14.104	452.77	14.104	458.45
14.084	420.91	14.084	432.99	14.084	447.04	14.084	451.71	14.084	457.41
14.064	420.53	14.064	432.04	14.064	446.04	14.064	450.62	14.064	456.34
14.044	419.77	14.044	431.03	14.044	445.05	14.044	449.63	14.044	455.27
14.024	418.86	14.024	429.98	14.024	443.93	14.024	448.58	14.024	454.17
14.004	417.99	14.004	429.03	14.004	442.93	14.004	447.56	14.004	453.11
13.984	417.06	13.984	428.04	13.984	441.88	13.984	446.46	13.984	452.11
13.964	416.15	13.964	427.08	13.964	440.89	13.964	445.50	13.964	451.04
13.944	415.22	13.944	426.09	13.944	439.83	13.944	444.45	13.944	449.92
13.924	414.36	13.924	425.12	13.924	438.81	13.924	443.42	13.924	448.79

13.905	413.37	13.905	424.13	13.905	437.71	13.905	442.36	13.905	447.76
13.885	412.43	13.885	423.16	13.885	436.62	13.885	441.31	13.885	446.68
13.865	411.53	13.865	422.11	13.865	435.59	13.865	440.25	13.865	445.59
13.845	410.77	13.845	421.16	13.845	434.53	13.845	439.21	13.845	444.55
13.825	410.01	13.825	420.20	13.825	433.49	13.825	438.15	13.825	443.54
13.805	409.35	13.805	419.19	13.805	432.43	13.805	437.05	13.805	442.46
13.785	408.70	13.785	418.18	13.785	431.41	13.785	436.04	13.785	441.33
13.765	407.89	13.765	417.20	13.765	430.33	13.765	434.93	13.765	440.26
13.745	407.03	13.745	416.23	13.745	429.27	13.745	433.94	13.745	439.20
13.725	406.16	13.725	415.25	13.725	428.14	13.725	432.87	13.725	438.11
13.705	405.29	13.705	414.25	13.705	427.10	13.705	431.79	13.705	436.95
13.685	404.41	13.685	413.33	13.685	426.05	13.685	430.71	13.685	435.90
13.665	403.52	13.665	412.22	13.665	424.99	13.665	429.68	13.665	434.81
13.646	402.65	13.646	411.21	13.646	423.89	13.646	428.67	13.646	433.73
13.626	401.74	13.626	410.27	13.626	422.84	13.626	427.58	13.626	432.61
13.606	400.84	13.606	409.26	13.606	421.77	13.606	426.51	13.606	431.47
13.586	399.92	13.586	408.24	13.586	420.68	13.586	425.43	13.586	430.43
13.566	398.99	13.566	407.26	13.566	419.63	13.566	424.29	13.566	429.32
13.546	398.05	13.546	406.24	13.546	418.53	13.546	423.24	13.546	428.21
13.526	397.09	13.526	405.22	13.526	417.46	13.526	422.18	13.526	427.09
13.506	396.15	13.506	404.13	13.506	416.44	13.506	421.08	13.506	425.98
13.486	395.33	13.486	403.16	13.486	415.29	13.486	419.98	13.486	424.90
13.466	394.38	13.466	402.22	13.466	414.28	13.466	418.96	13.466	423.80
13.446	393.43	13.446	401.18	13.446	413.19	13.446	417.81	13.446	422.69
13.426	392.48	13.426	400.18	13.426	412.07	13.426	416.75	13.426	421.54
13.407	391.54	13.407	399.14	13.407	411.03	13.407	415.68	13.407	420.46
13.387	390.60	13.387	398.16	13.387	409.95	13.387	414.57	13.387	419.33
13.367	389.63	13.367	397.12	13.367	408.91	13.367	413.53	13.367	418.20
13.347	388.70	13.347	396.09	13.347	407.85	13.347	412.45	13.347	417.15
13.327	387.74	13.327	395.12	13.327	406.77	13.327	411.40	13.327	415.96
13.307	386.70	13.307	394.09	13.307	405.69	13.307	410.25	13.307	414.88
13.287	385.77	13.287	393.07	13.287	404.55	13.287	409.15	13.287	413.82
13.267	384.82	13.267	392.02	13.267	403.46	13.267	408.03	13.267	412.68
13.247	383.81	13.247	390.93	13.247	402.34	13.247	406.99	13.247	411.57
13.227	382.82	13.227	389.96	13.227	401.30	13.227	405.85	13.227	410.41
13.207	381.88	13.207	388.93	13.207	400.24	13.207	404.76	13.207	409.33
13.187	380.89	13.187	387.84	13.187	399.20	13.187	403.67	13.187	408.24
13.167	379.88	13.167	386.80	13.167	398.09	13.167	402.61	13.167	407.11
13.148	378.91	13.148	385.78	13.148	397.09	13.148	401.53	13.148	405.93
13.128	377.88	13.128	384.73	13.128	395.94	13.128	400.42	13.128	404.85
13.108	376.92	13.108	383.67	13.108	394.80	13.108	399.30	13.108	403.74
13.088	375.95	13.088	382.62	13.088	393.69	13.088	398.19	13.088	402.67
13.068	374.94	13.068	381.55	13.068	392.67	13.068	397.12	13.068	401.47
13.048	373.94	13.048	380.53	13.048	391.56	13.048	396.20	13.048	400.33
13.028	372.94	13.028	379.45	13.028	390.50	13.028	395.20	13.028	399.25

13.008	371.92	13.008	378.45	13.008	389.44	13.008	394.08	13.008	398.11
12.988	370.95	12.988	377.35	12.988	388.36	12.988	393.04	12.988	397.00
12.968	369.92	12.968	376.35	12.968	387.32	12.968	391.93	12.968	395.92
12.948	368.92	12.948	375.32	12.948	386.24	12.948	390.90	12.948	394.79
12.928	367.89	12.928	374.23	12.928	385.16	12.928	389.86	12.928	393.67
12.909	366.85	12.909	373.20	12.909	384.10	12.909	388.80	12.909	392.53
12.889	365.88	12.889	372.17	12.889	383.01	12.889	387.76	12.889	391.40
12.869	364.85	12.869	371.17	12.869	381.95	12.869	386.68	12.869	390.28
12.849	363.86	12.849	370.08	12.849	380.85	12.849	385.54	12.849	389.18
12.829	362.83	12.829	369.05	12.829	379.80	12.829	384.47	12.829	388.01
12.809	361.85	12.809	368.03	12.809	378.74	12.809	383.39	12.809	386.90
12.789	360.84	12.789	367.02	12.789	377.66	12.789	382.26	12.789	385.80
12.769	359.85	12.769	365.95	12.769	376.67	12.769	381.21	12.769	384.72
12.749	358.85	12.749	364.97	12.749	375.52	12.749	380.12	12.749	383.55
12.729	357.78	12.729	363.87	12.729	374.49	12.729	379.07	12.729	382.43
12.709	356.77	12.709	362.86	12.709	373.36	12.709	377.97	12.709	381.30
12.689	355.79	12.689	361.85	12.689	372.34	12.689	376.88	12.689	380.22
12.669	354.75	12.669	360.80	12.669	371.24	12.669	375.82	12.669	379.03
12.650	353.77	12.650	359.80	12.650	370.19	12.650	374.71	12.650	377.97
12.630	352.79	12.630	358.77	12.630	369.15	12.630	373.61	12.630	376.87
12.610	351.77	12.610	357.75	12.610	368.08	12.610	372.56	12.610	375.73
12.590	350.72	12.590	356.72	12.590	367.00	12.590	371.46	12.590	374.63
12.570	349.72	12.570	355.69	12.570	366.00	12.570	370.37	12.570	373.53
12.550	348.69	12.550	354.72	12.550	364.92	12.550	369.23	12.550	372.34
12.530	347.76	12.530	353.70	12.530	363.80	12.530	368.21	12.530	371.24
12.510	346.71	12.510	352.67	12.510	362.73	12.510	367.12	12.510	370.15
12.490	345.72	12.490	351.65	12.490	361.68	12.490	366.04	12.490	369.00
12.470	344.72	12.470	350.65	12.470	360.66	12.470	364.95	12.470	367.93
12.450	343.71	12.450	349.59	12.450	359.61	12.450	363.83	12.450	366.82
12.430	342.67	12.430	348.62	12.430	358.51	12.430	362.74	12.430	365.73
12.411	341.66	12.411	347.57	12.411	357.44	12.411	361.64	12.411	364.64
12.391	340.72	12.391	346.61	12.391	356.36	12.391	360.57	12.391	363.48
12.371	339.73	12.371	345.62	12.371	355.32	12.371	359.50	12.371	362.36
12.351	338.73	12.351	344.59	12.351	354.31	12.351	358.43	12.351	361.23
12.331	337.74	12.331	343.57	12.331	353.22	12.331	357.30	12.331	360.16
12.311	336.75	12.311	342.57	12.311	352.21	12.311	356.18	12.311	359.01
12.291	335.76	12.291	341.60	12.291	351.11	12.291	355.16	12.291	357.94
12.271	334.76	12.271	340.72	12.271	350.06	12.271	354.09	12.271	356.83
12.251	333.79	12.251	339.80	12.251	349.00	12.251	352.98	12.251	355.73
12.231	332.79	12.231	339.08	12.231	347.94	12.231	351.86	12.231	354.63
12.211	331.84	12.211	338.11	12.211	346.93	12.211	350.79	12.211	353.58
12.191	330.85	12.191	337.19	12.191	345.87	12.191	349.71	12.191	352.43
12.171	329.89	12.171	336.26	12.171	344.83	12.171	348.69	12.171	351.36
12.152	328.87	12.152	335.33	12.152	343.74	12.152	347.60	12.152	350.28
12.132	327.90	12.132	334.37	12.132	342.69	12.132	346.58	12.132	349.19

12.112	326.89	12.112	333.34	12.112	341.62	12.112	345.53	12.112	348.06
12.092	325.92	12.092	332.43	12.092	340.60	12.092	344.38	12.092	346.97
12.072	324.98	12.072	331.48	12.072	339.56	12.072	343.32	12.072	345.97
12.052	324.02	12.052	330.49	12.052	338.55	12.052	342.26	12.052	344.86
12.032	323.06	12.032	329.59	12.032	337.50	12.032	341.19	12.032	343.79
12.012	322.10	12.012	328.59	12.012	336.44	12.012	340.11	12.012	342.75
11.992	321.15	11.992	327.58	11.992	335.45	11.992	339.08	11.992	341.66
11.972	320.19	11.972	326.62	11.972	334.33	11.972	338.04	11.972	340.54
11.952	319.22	11.952	325.66	11.952	333.32	11.952	336.92	11.952	339.48
11.932	318.25	11.932	324.68	11.932	332.31	11.932	335.89	11.932	338.38
11.913	317.27	11.913	323.75	11.913	331.26	11.913	334.82	11.913	337.29
11.893	316.30	11.893	322.79	11.893	330.27	11.893	333.79	11.893	336.22
11.873	315.40	11.873	321.78	11.873	329.23	11.873	332.74	11.873	335.15
11.853	314.42	11.853	320.83	11.853	328.70	11.853	331.70	11.853	334.08
11.833	313.43	11.833	319.84	11.833	328.14	11.833	330.66	11.833	333.00
11.813	312.53	11.813	318.90	11.813	327.29	11.813	329.58	11.813	331.95
11.793	311.56	11.793	317.87	11.793	326.32	11.793	328.60	11.793	330.93
11.773	310.65	11.773	316.95	11.773	325.34	11.773	327.53	11.773	329.90
11.753	309.68	11.753	315.97	11.753	324.35	11.753	326.50	11.753	328.81
11.733	308.76	11.733	315.02	11.733	323.42	11.733	325.44	11.733	327.76
11.713	307.83	11.713	314.06	11.713	322.43	11.713	324.40	11.713	326.74
11.693	306.87	11.693	313.07	11.693	321.45	11.693	323.39	11.693	325.63
11.673	306.02	11.673	312.11	11.673	320.50	11.673	322.35	11.673	324.53
11.654	305.08	11.654	311.16	11.654	319.58	11.654	321.35	11.654	323.55
11.634	304.10	11.634	310.24	11.634	318.58	11.634	320.28	11.634	322.49
11.614	303.18	11.614	309.24	11.614	317.58	11.614	319.33	11.614	321.44
11.594	302.22	11.594	308.26	11.594	316.59	11.594	318.29	11.594	320.42
11.574	301.32	11.574	307.34	11.574	315.65	11.574	317.29	11.574	319.41
11.554	300.42	11.554	306.41	11.554	314.69	11.554	316.24	11.554	318.40
11.534	299.47	11.534	305.44	11.534	313.68	11.534	315.22	11.534	317.33
11.514	298.58	11.514	304.46	11.514	312.80	11.514	314.20	11.514	316.31
11.494	297.67	11.494	303.51	11.494	311.80	11.494	313.19	11.494	315.29
11.474	296.72	11.474	302.58	11.474	310.88	11.474	312.19	11.474	314.26
11.454	295.86	11.454	301.66	11.454	309.91	11.454	311.17	11.454	313.21
11.434	294.96	11.434	300.70	11.434	308.95	11.434	310.20	11.434	312.22
11.415	294.05	11.415	299.79	11.415	307.92	11.415	309.21	11.415	311.14
11.395	293.14	11.395	298.84	11.395	306.97	11.395	308.19	11.395	310.20
11.375	292.23	11.375	297.87	11.375	306.06	11.375	307.17	11.375	309.12
11.355	291.34	11.355	296.95	11.355	305.08	11.355	306.15	11.355	308.16
11.335	290.39	11.335	296.06	11.335	304.13	11.335	305.15	11.335	307.13
11.315	289.48	11.315	295.06	11.315	303.15	11.315	304.20	11.315	306.11
11.295	288.64	11.295	294.16	11.295	302.18	11.295	303.19	11.295	305.15
11.275	287.74	11.275	293.25	11.275	301.19	11.275	302.22	11.275	304.08
11.255	286.86	11.255	292.33	11.255	300.24	11.255	301.26	11.255	303.11
11.235	285.93	11.235	291.41	11.235	299.31	11.235	300.25	11.235	302.17

11.215	285.11	11.215	290.49	11.215	298.31	11.215	299.29	11.215	301.09
11.195	284.21	11.195	289.55	11.195	297.39	11.195	298.31	11.195	300.11
11.175	283.35	11.175	288.60	11.175	296.47	11.175	297.31	11.175	299.13
11.156	282.45	11.156	287.70	11.156	295.49	11.156	296.36	11.156	298.19
11.136	281.54	11.136	286.83	11.136	294.52	11.136	295.34	11.136	297.15
11.116	280.69	11.116	285.91	11.116	293.59	11.116	294.40	11.116	296.16
11.096	279.85	11.096	284.97	11.096	292.65	11.096	293.43	11.096	295.19
11.076	278.96	11.076	284.10	11.076	291.72	11.076	292.48	11.076	294.25
11.056	278.10	11.056	283.15	11.056	290.78	11.056	291.50	11.056	293.25
11.036	277.25	11.036	282.25	11.036	289.83	11.036	290.58	11.036	292.24
11.016	276.39	11.016	281.37	11.016	288.86	11.016	289.62	11.016	291.30
10.996	275.52	10.996	280.44	10.996	287.90	10.996	288.60	10.996	290.35
10.976	274.64	10.976	279.58	10.976	286.97	10.976	287.70	10.976	289.34
10.956	273.78	10.956	278.65	10.956	286.02	10.956	286.79	10.956	288.43
10.936	272.93	10.936	277.77	10.936	285.07	10.936	285.85	10.936	287.46
10.917	272.09	10.917	276.90	10.917	284.12	10.917	284.88	10.917	286.51
10.897	271.27	10.897	276.01	10.897	283.21	10.897	283.97	10.897	285.54
10.877	270.42	10.877	275.14	10.877	282.26	10.877	283.02	10.877	284.61
10.857	269.57	10.857	274.25	10.857	281.29	10.857	282.06	10.857	283.64
10.837	268.70	10.837	273.34	10.837	280.47	10.837	281.15	10.837	282.68
10.817	267.88	10.817	272.45	10.817	279.52	10.817	280.20	10.817	281.77
10.797	266.99	10.797	271.53	10.797	278.57	10.797	279.27	10.797	280.76
10.777	266.17	10.777	270.67	10.777	277.61	10.777	278.30	10.777	279.84
10.757	265.34	10.757	269.81	10.757	276.76	10.757	277.41	10.757	278.91
10.737	264.45	10.737	268.99	10.737	275.81	10.737	276.49	10.737	277.98
10.717	263.61	10.717	268.11	10.717	274.94	10.717	275.54	10.717	277.04
10.697	262.79	10.697	267.24	10.697	274.01	10.697	274.65	10.697	276.08
10.677	261.99	10.677	266.34	10.677	273.12	10.677	273.74	10.677	275.17
10.658	261.17	10.658	265.49	10.658	272.18	10.658	272.83	10.658	274.25
10.638	260.34	10.638	264.60	10.638	271.31	10.638	271.93	10.638	273.36
10.618	259.50	10.618	263.77	10.618	270.38	10.618	271.01	10.618	272.47
10.598	258.69	10.598	262.97	10.598	269.45	10.598	270.09	10.598	271.52
10.578	257.86	10.578	262.08	10.578	268.52	10.578	269.18	10.578	270.58
10.558	257.06	10.558	261.18	10.558	267.68	10.558	268.29	10.558	269.70
10.538	256.24	10.538	260.36	10.538	266.76	10.538	267.39	10.538	268.75
10.518	255.50	10.518	259.48	10.518	265.89	10.518	266.55	10.518	267.91
10.498	254.65	10.498	258.66	10.498	265.01	10.498	265.64	10.498	266.95
10.478	253.83	10.478	257.84	10.478	264.10	10.478	264.71	10.478	266.04
10.458	253.01	10.458	257.04	10.458	263.21	10.458	263.80	10.458	265.19
10.438	252.26	10.438	256.15	10.438	262.35	10.438	262.94	10.438	264.30
10.419	251.42	10.419	255.34	10.419	261.49	10.419	262.10	10.419	263.32
10.399	250.62	10.399	254.49	10.399	260.62	10.399	261.20	10.399	262.50
10.379	249.83	10.379	253.68	10.379	259.72	10.379	260.32	10.379	261.58
10.359	249.04	10.359	252.83	10.359	258.84	10.359	259.47	10.359	260.66
10.339	248.23	10.339	251.99	10.339	257.95	10.339	258.55	10.339	259.83

10.319	247.42	10.319	251.17	10.319	257.05	10.319	257.68	10.319	258.96
10.299	246.69	10.299	250.38	10.299	256.16	10.299	256.85	10.299	258.06
10.279	245.88	10.279	249.58	10.279	255.31	10.279	255.95	10.279	257.20
10.259	245.11	10.259	248.75	10.259	254.46	10.259	255.08	10.259	256.33
10.239	244.33	10.239	247.87	10.239	253.57	10.239	254.21	10.239	255.46
10.219	243.55	10.219	247.07	10.219	252.78	10.219	253.41	10.219	254.58
10.199	242.77	10.199	246.27	10.199	251.91	10.199	252.54	10.199	253.71
10.179	241.97	10.179	245.51	10.179	251.06	10.179	251.67	10.179	252.89
10.160	241.16	10.160	244.68	10.160	250.18	10.160	250.79	10.160	252.01
10.140	240.43	10.140	243.90	10.140	249.35	10.140	249.98	10.140	251.15
10.120	239.67	10.120	243.05	10.120	248.48	10.120	249.14	10.120	250.29
10.100	238.89	10.100	242.28	10.100	247.65	10.100	248.30	10.100	249.42
10.080	238.12	10.080	241.46	10.080	246.80	10.080	247.41	10.080	248.62
10.060	237.37	10.060	240.68	10.060	245.99	10.060	246.57	10.060	247.73
10.040	236.60	10.040	239.86	10.040	245.12	10.040	245.74	10.040	246.89
10.020	235.83	10.020	239.09	10.020	244.28	10.020	244.96	10.020	246.07
10.000	235.04	10.000	238.29	10.000	243.48	10.000	244.09	10.000	245.21
9.980	234.29	9.980	237.49	9.980	242.62	9.980	243.28	9.980	244.36
9.960	233.54	9.960	236.74	9.960	241.74	9.960	242.44	9.960	243.57
9.940	232.79	9.940	235.97	9.940	240.97	9.940	241.62	9.940	242.72
9.921	231.99	9.921	235.12	9.921	240.11	9.921	240.80	9.921	241.87
9.901	231.25	9.901	234.37	9.901	239.35	9.901	239.96	9.901	241.04
9.881	230.53	9.881	233.63	9.881	238.51	9.881	239.18	9.881	240.22
9.861	229.74	9.861	232.86	9.861	237.70	9.861	238.35	9.861	239.39
9.841	229.03	9.841	232.09	9.841	236.83	9.841	237.53	9.841	238.58
9.821	228.29	9.821	231.30	9.821	236.06	9.821	236.74	9.821	237.78
9.801	227.57	9.801	230.52	9.801	235.30	9.801	235.94	9.801	236.93
9.781	226.76	9.781	229.78	9.781	234.54	9.781	235.08	9.781	236.11
9.761	226.03	9.761	229.03	9.761	233.65	9.761	234.28	9.761	235.30
9.741	225.30	9.741	228.23	9.741	232.87	9.741	233.50	9.741	234.52
9.721	224.52	9.721	227.46	9.721	232.10	9.721	232.69	9.721	233.67
9.701	223.80	9.701	226.75	9.701	231.31	9.701	231.97	9.701	232.87
9.681	223.10	9.681	225.99	9.681	230.52	9.681	231.14	9.681	232.07
9.662	222.37	9.662	225.21	9.662	229.73	9.662	230.31	9.662	231.29
9.642	221.62	9.642	224.45	9.642	228.95	9.642	229.55	9.642	230.51
9.622	220.91	9.622	223.71	9.622	228.17	9.622	228.77	9.622	229.72
9.602	220.20	9.602	222.94	9.602	227.35	9.602	227.96	9.602	228.96
9.582	219.52	9.582	222.19	9.582	226.52	9.582	227.18	9.582	228.14
9.562	218.79	9.562	221.42	9.562	225.75	9.562	226.41	9.562	227.32
9.542	218.10	9.542	220.74	9.542	224.95	9.542	225.88	9.542	226.50
9.522	217.34	9.522	219.95	9.522	224.20	9.522	225.39	9.522	225.73
9.502	216.58	9.502	219.23	9.502	223.45	9.502	224.63	9.502	224.97
9.482	215.94	9.482	218.48	9.482	222.67	9.482	223.85	9.482	224.17
9.462	215.21	9.462	217.76	9.462	221.93	9.462	223.04	9.462	223.35
9.442	214.48	9.442	217.02	9.442	221.18	9.442	222.24	9.442	222.57

9.423	213.82	9.423	216.26	9.423	220.38	9.423	221.47	9.423	221.85
9.403	213.09	9.403	215.56	9.403	219.59	9.403	220.76	9.403	221.06
9.383	212.35	9.383	214.82	9.383	218.82	9.383	219.99	9.383	220.35
9.363	211.68	9.363	214.12	9.363	218.10	9.363	219.23	9.363	219.57
9.343	210.98	9.343	213.43	9.343	217.31	9.343	218.47	9.343	218.78
9.323	210.24	9.323	212.65	9.323	216.59	9.323	217.71	9.323	218.06
9.303	209.55	9.303	211.95	9.303	215.82	9.303	216.99	9.303	217.24
9.283	208.88	9.283	211.24	9.283	215.09	9.283	216.25	9.283	216.53
9.263	208.22	9.263	210.52	9.263	214.36	9.263	215.49	9.263	215.75
9.243	207.45	9.243	209.83	9.243	213.60	9.243	214.78	9.243	215.02
9.223	206.80	9.223	209.14	9.223	212.87	9.223	214.03	9.223	214.30
9.203	206.10	9.203	208.36	9.203	212.11	9.203	213.28	9.203	213.55
9.183	205.40	9.183	207.70	9.183	211.41	9.183	212.53	9.183	212.77
9.164	204.74	9.164	206.93	9.164	210.63	9.164	211.80	9.164	211.99
9.144	204.05	9.144	206.24	9.144	209.92	9.144	210.98	9.144	211.27
9.124	203.34	9.124	205.55	9.124	209.18	9.124	210.30	9.124	210.53
9.104	202.74	9.104	204.83	9.104	208.41	9.104	209.56	9.104	209.80
9.084	202.01	9.084	204.14	9.084	207.68	9.084	208.83	9.084	209.10
9.064	201.31	9.064	203.44	9.064	206.99	9.064	208.12	9.064	208.33
9.044	200.62	9.044	202.73	9.044	206.27	9.044	207.41	9.044	207.61
9.024	199.93	9.024	202.05	9.024	205.50	9.024	206.65	9.024	206.84
9.004	199.27	9.004	201.38	9.004	204.81	9.004	205.94	9.004	206.14
8.984	198.61	8.984	200.72	8.984	204.11	8.984	205.24	8.984	205.40
8.964	197.91	8.964	200.04	8.964	203.39	8.964	204.53	8.964	204.71
8.944	197.22	8.944	199.33	8.944	202.64	8.944	203.78	8.944	204.00
8.925	196.62	8.925	198.64	8.925	201.94	8.925	203.07	8.925	203.29
8.905	195.94	8.905	197.96	8.905	201.30	8.905	202.36	8.905	202.58
8.885	195.29	8.885	197.27	8.885	200.51	8.885	201.65	8.885	201.88
8.865	194.64	8.865	196.60	8.865	199.86	8.865	200.93	8.865	201.11
8.845	193.96	8.845	195.90	8.845	199.16	8.845	200.25	8.845	200.37
8.825	193.28	8.825	195.23	8.825	198.46	8.825	199.53	8.825	199.71
8.805	192.62	8.805	194.56	8.805	197.74	8.805	198.82	8.805	199.00
8.785	191.95	8.785	193.81	8.785	197.01	8.785	198.11	8.785	198.28
8.765	191.33	8.765	193.18	8.765	196.31	8.765	197.37	8.765	197.60
8.745	190.63	8.745	192.53	8.745	195.60	8.745	196.67	8.745	196.85
8.725	190.01	8.725	191.86	8.725	194.93	8.725	196.03	8.725	196.21
8.705	189.39	8.705	191.18	8.705	194.26	8.705	195.32	8.705	195.50
8.685	188.68	8.685	190.52	8.685	193.58	8.685	194.62	8.685	194.79
8.666	188.05	8.666	189.85	8.666	192.88	8.666	193.91	8.666	194.08
8.646	187.45	8.646	189.18	8.646	192.20	8.646	193.21	8.646	193.43
8.626	186.76	8.626	188.49	8.626	191.51	8.626	192.51	8.626	192.72
8.606	186.11	8.606	187.88	8.606	190.80	8.606	191.79	8.606	192.02
8.586	185.47	8.586	187.23	8.586	190.15	8.586	191.15	8.586	191.34
8.566	184.84	8.566	186.50	8.566	189.51	8.566	190.49	8.566	190.67
8.546	184.23	8.546	185.89	8.546	188.82	8.546	189.80	8.546	189.93

8.526	183.60	8.526	185.22	8.526	188.12	8.526	189.13	8.526	189.28
8.506	182.99	8.506	184.59	8.506	187.47	8.506	188.42	8.506	188.63
8.486	182.29	8.486	183.95	8.486	186.79	8.486	187.76	8.486	187.97
8.466	181.65	8.466	183.28	8.466	186.06	8.466	187.11	8.466	187.30
8.446	181.03	8.446	182.64	8.446	185.44	8.446	186.41	8.446	186.62
8.427	180.40	8.427	182.02	8.427	184.75	8.427	185.72	8.427	185.96
8.407	179.74	8.407	181.33	8.407	184.06	8.407	185.08	8.407	185.29
8.387	179.19	8.387	180.75	8.387	183.44	8.387	184.41	8.387	184.64
8.367	178.56	8.367	180.06	8.367	182.78	8.367	183.75	8.367	183.96
8.347	177.94	8.347	179.44	8.347	182.12	8.347	183.09	8.347	183.27
8.327	177.30	8.327	178.80	8.327	181.48	8.327	182.39	8.327	182.57
8.307	176.73	8.307	178.15	8.307	180.80	8.307	181.72	8.307	181.99
8.287	176.08	8.287	177.52	8.287	180.17	8.287	181.08	8.287	181.31
8.267	175.43	8.267	176.95	8.267	179.55	8.267	180.46	8.267	180.64
8.247	174.81	8.247	176.24	8.247	178.89	8.247	179.76	8.247	180.01
8.227	174.24	8.227	175.59	8.227	178.22	8.227	179.11	8.227	179.33
8.207	173.58	8.207	175.05	8.207	177.59	8.207	178.49	8.207	178.67
8.187	173.00	8.187	174.39	8.187	176.96	8.187	177.84	8.187	178.03
8.168	172.35	8.168	173.79	8.168	176.34	8.168	177.20	8.168	177.38
8.148	171.78	8.148	173.15	8.148	175.65	8.148	176.55	8.148	176.75
8.128	171.14	8.128	172.56	8.128	174.97	8.128	175.91	8.128	176.11
8.108	170.56	8.108	171.90	8.108	174.36	8.108	175.28	8.108	175.47
8.088	169.96	8.088	171.27	8.088	173.69	8.088	174.62	8.088	174.79
8.068	169.40	8.068	170.66	8.068	173.13	8.068	173.97	8.068	174.19
8.048	168.74	8.048	170.07	8.048	172.45	8.048	173.30	8.048	173.55
8.028	168.14	8.028	169.47	8.028	171.86	8.028	172.65	8.028	172.90
8.008	167.56	8.008	168.84	8.008	171.24	8.008	172.00	8.008	172.25
7.988	166.97	7.988	168.17	7.988	170.60	7.988	171.44	7.988	171.63
7.968	166.38	7.968	167.61	7.968	169.97	7.968	170.79	7.968	171.03
7.948	165.73	7.948	166.98	7.948	169.32	7.948	170.14	7.948	170.38
7.929	165.13	7.929	166.45	7.929	168.68	7.929	169.51	7.929	169.78
7.909	164.55	7.909	165.81	7.909	168.13	7.909	168.92	7.909	169.17
7.889	163.96	7.889	165.17	7.889	167.50	7.889	168.26	7.889	168.49
7.869	163.37	7.869	164.63	7.869	166.86	7.869	167.64	7.869	167.89
7.849	162.79	7.849	163.96	7.849	166.21	7.849	167.03	7.849	167.26
7.829	162.18	7.829	163.38	7.829	165.64	7.829	166.37	7.829	166.64
7.809	161.61	7.809	162.84	7.809	165.01	7.809	165.77	7.809	166.01
7.789	161.03	7.789	162.21	7.789	164.39	7.789	165.18	7.789	165.40
7.769	160.48	7.769	161.64	7.769	163.75	7.769	164.57	7.769	164.79
7.749	159.88	7.749	161.00	7.749	163.16	7.749	163.96	7.749	164.17
7.729	159.35	7.729	160.46	7.729	162.58	7.729	163.36	7.729	163.58
7.709	158.76	7.709	159.85	7.709	161.96	7.709	162.70	7.709	162.96
7.689	158.17	7.689	159.21	7.689	161.35	7.689	162.12	7.689	162.33
7.670	157.57	7.670	158.63	7.670	160.79	7.670	161.52	7.670	161.74
7.650	157.05	7.650	158.06	7.650	160.18	7.650	160.92	7.650	161.13

7.630	156.46	7.630	157.48	7.630	159.57	7.630	160.33	7.630	160.58
7.610	155.86	7.610	156.93	7.610	158.97	7.610	159.68	7.610	159.94
7.590	155.28	7.590	156.29	7.590	158.39	7.590	159.10	7.590	159.33
7.570	154.72	7.570	155.74	7.570	157.77	7.570	158.47	7.570	158.75
7.550	154.12	7.550	155.16	7.550	157.20	7.550	157.90	7.550	158.12
7.530	153.61	7.530	154.58	7.530	156.60	7.530	157.25	7.530	157.55
7.510	152.98	7.510	153.99	7.510	156.03	7.510	156.69	7.510	156.98
7.490	152.47	7.490	153.41	7.490	155.45	7.490	156.12	7.490	156.39
7.470	151.86	7.470	152.84	7.470	154.85	7.470	155.49	7.470	155.79
7.450	151.33	7.450	152.29	7.450	154.29	7.450	154.91	7.450	155.19
7.431	150.80	7.431	151.91	7.431	153.68	7.431	154.34	7.431	154.61
7.411	150.18	7.411	151.33	7.411	153.04	7.411	153.77	7.411	154.04
7.391	149.66	7.391	150.76	7.391	152.49	7.391	153.12	7.391	153.45
7.371	149.10	7.371	150.19	7.371	151.92	7.371	152.54	7.371	152.86
7.351	148.51	7.351	149.64	7.351	151.35	7.351	151.95	7.351	152.29
7.331	147.95	7.331	149.04	7.331	150.79	7.331	151.36	7.331	151.68
7.311	147.42	7.311	148.51	7.311	150.23	7.311	150.81	7.311	151.11
7.291	146.89	7.291	147.94	7.291	149.63	7.291	150.23	7.291	150.52
7.271	146.35	7.271	147.38	7.271	149.10	7.271	149.64	7.271	149.98
7.251	145.79	7.251	146.81	7.251	148.51	7.251	149.05	7.251	149.37
7.231	145.26	7.231	146.29	7.231	147.94	7.231	148.48	7.231	148.79
7.211	144.68	7.211	145.68	7.211	147.38	7.211	147.91	7.211	148.24
7.191	144.16	7.191	145.15	7.191	146.79	7.191	147.32	7.191	147.63
7.172	143.56	7.172	144.56	7.172	146.22	7.172	146.75	7.172	147.06
7.152	143.02	7.152	144.02	7.152	145.63	7.152	146.23	7.152	146.49
7.132	142.54	7.132	143.48	7.132	145.07	7.132	145.63	7.132	145.94
7.112	141.98	7.112	142.87	7.112	144.50	7.112	145.11	7.112	145.33
7.092	141.44	7.092	142.34	7.092	143.94	7.092	144.53	7.092	144.96
7.072	140.87	7.072	141.81	7.072	143.44	7.072	143.94	7.072	144.49
7.052	140.32	7.052	141.28	7.052	142.86	7.052	143.42	7.052	143.89
7.032	139.84	7.032	140.75	7.032	142.30	7.032	142.82	7.032	143.31
7.012	139.27	7.012	140.21	7.012	141.78	7.012	142.31	7.012	142.73
6.992	138.69	6.992	139.64	6.992	141.17	6.992	141.72	6.992	142.16
6.972	138.21	6.972	139.05	6.972	140.59	6.972	141.18	6.972	141.65
6.952	137.65	6.952	138.51	6.952	140.07	6.952	140.66	6.952	141.05
6.933	137.15	6.933	137.97	6.933	139.54	6.933	140.07	6.933	140.51
6.913	136.60	6.913	137.50	6.913	138.99	6.913	139.48	6.913	139.96
6.893	136.09	6.893	136.95	6.893	138.46	6.893	138.95	6.893	139.41
6.873	135.54	6.873	136.40	6.873	137.88	6.873	138.41	6.873	138.84
6.853	135.00	6.853	135.85	6.853	137.32	6.853	137.84	6.853	138.23
6.833	134.51	6.833	135.30	6.833	136.80	6.833	137.28	6.833	137.72
6.813	133.95	6.813	134.76	6.813	136.23	6.813	136.79	6.813	137.16
6.793	133.46	6.793	134.26	6.793	135.71	6.793	136.23	6.793	136.60
6.773	132.94	6.773	133.72	6.773	135.16	6.773	135.68	6.773	136.05
6.753	132.41	6.753	133.17	6.753	134.65	6.753	135.14	6.753	135.52

6.733	131.87	6.733	132.68	6.733	134.11	6.733	134.57	6.733	134.98
6.713	131.36	6.713	132.09	6.713	133.55	6.713	134.08	6.713	134.41
6.693	130.85	6.693	131.63	6.693	133.06	6.693	133.51	6.693	133.91
6.674	130.31	6.674	131.07	6.674	132.49	6.674	133.00	6.674	133.34
6.654	129.79	6.654	130.59	6.654	131.99	6.654	132.42	6.654	132.85
6.634	129.32	6.634	130.01	6.634	131.39	6.634	131.89	6.634	132.26
6.614	128.79	6.614	129.51	6.614	130.85	6.614	131.34	6.614	131.72
6.594	128.27	6.594	129.00	6.594	130.36	6.594	130.83	6.594	131.17
6.574	127.73	6.574	128.48	6.574	129.86	6.574	130.34	6.574	130.67
6.554	127.21	6.554	127.99	6.554	129.28	6.554	129.76	6.554	130.09
6.534	126.74	6.534	127.46	6.534	128.78	6.534	129.24	6.534	129.58
6.514	126.25	6.514	126.93	6.514	128.28	6.514	128.72	6.514	129.08
6.494	125.73	6.494	126.41	6.494	127.75	6.494	128.22	6.494	128.57
6.474	125.22	6.474	125.90	6.474	127.20	6.474	127.69	6.474	127.95
6.454	124.74	6.454	125.38	6.454	126.70	6.454	127.18	6.454	127.44
6.435	124.23	6.435	124.87	6.435	126.18	6.435	126.65	6.435	126.92
6.415	123.71	6.415	124.35	6.415	125.68	6.415	126.09	6.415	126.41
6.395	123.15	6.395	123.82	6.395	125.17	6.395	125.64	6.395	125.88
6.375	122.66	6.375	123.37	6.375	124.67	6.375	125.04	6.375	125.36
6.355	122.19	6.355	122.85	6.355	124.15	6.355	124.57	6.355	124.84
6.335	121.69	6.335	122.32	6.335	123.58	6.335	124.02	6.335	124.30
6.315	121.20	6.315	121.82	6.315	123.11	6.315	123.52	6.315	123.78
6.295	120.70	6.295	121.34	6.295	122.60	6.295	122.99	6.295	123.25
6.275	120.21	6.275	120.80	6.275	122.08	6.275	122.46	6.275	122.72
6.255	119.68	6.255	120.35	6.255	121.56	6.255	121.96	6.255	122.28
6.235	119.24	6.235	119.81	6.235	121.02	6.235	121.47	6.235	121.74
6.215	118.73	6.215	119.28	6.215	120.50	6.215	120.94	6.215	121.20
6.195	118.23	6.195	118.81	6.195	120.03	6.195	120.40	6.195	120.74
6.176	117.72	6.176	118.27	6.176	119.52	6.176	119.94	6.176	120.19
6.156	117.22	6.156	117.81	6.156	118.98	6.156	119.41	6.156	119.65
6.136	116.79	6.136	117.36	6.136	118.51	6.136	118.94	6.136	119.18
6.116	116.23	6.116	116.81	6.116	117.99	6.116	118.39	6.116	118.65
6.096	115.79	6.096	116.34	6.096	117.53	6.096	117.93	6.096	118.15
6.076	115.29	6.076	115.86	6.076	116.98	6.076	117.38	6.076	117.65
6.056	114.85	6.056	115.31	6.056	116.52	6.056	116.90	6.056	117.15
6.036	114.32	6.036	114.84	6.036	116.01	6.036	116.42	6.036	116.64
6.016	114.22	6.016	114.36	6.016	115.53	6.016	115.94	6.016	116.14
5.996	114.09	5.996	113.88	5.996	114.98	5.996	115.38	5.996	115.65
5.976	113.64	5.976	113.41	5.976	114.51	5.976	114.91	5.976	115.16
5.956	113.05	5.956	112.65	5.956	113.98	5.956	114.73	5.956	114.65
5.937	112.44	5.937	112.43	5.937	113.50	5.937	114.45	5.937	114.12
5.917	111.87	5.917	111.93	5.917	113.04	5.917	113.88	5.917	113.62
5.897	111.51	5.897	111.46	5.897	112.86	5.897	113.46	5.897	113.14
5.877	111.16	5.877	110.96	5.877	112.59	5.877	112.94	5.877	112.65
5.857	110.73	5.857	110.48	5.857	112.09	5.857	112.45	5.857	112.18

5.837	110.23	5.837	110.04	5.837	111.63	5.837	111.91	5.837	111.66
5.817	109.72	5.817	109.57	5.817	111.14	5.817	111.46	5.817	111.15
5.797	109.27	5.797	109.06	5.797	110.64	5.797	110.92	5.797	110.71
5.777	108.77	5.777	108.58	5.777	110.13	5.777	110.45	5.777	110.19
5.757	108.25	5.757	108.15	5.757	109.71	5.757	109.99	5.757	109.74
5.737	107.81	5.737	107.65	5.737	109.19	5.737	109.44	5.737	109.21
5.717	107.37	5.717	107.14	5.717	108.65	5.717	108.96	5.717	108.76
5.697	106.87	5.697	106.83	5.697	108.22	5.697	108.49	5.697	108.26
5.678	106.39	5.678	106.86	5.678	107.71	5.678	108.02	5.678	107.77
5.658	105.90	5.658	106.42	5.658	107.27	5.658	107.51	5.658	107.32
5.638	105.46	5.638	105.98	5.638	106.76	5.638	107.03	5.638	106.79
5.618	104.95	5.618	105.50	5.618	106.32	5.618	106.55	5.618	106.34
5.598	104.49	5.598	105.01	5.598	105.81	5.598	106.07	5.598	105.88
5.578	104.03	5.578	104.55	5.578	105.32	5.578	105.61	5.578	105.36
5.558	103.58	5.558	104.06	5.558	104.88	5.558	105.15	5.558	104.87
5.538	103.13	5.538	103.61	5.538	104.43	5.538	104.68	5.538	104.41
5.518	102.63	5.518	103.15	5.518	103.90	5.518	104.19	5.518	103.92
5.498	102.19	5.498	102.69	5.498	103.45	5.498	103.73	5.498	103.45
5.478	101.69	5.478	102.23	5.478	103.00	5.478	103.27	5.478	102.99
5.458	101.22	5.458	101.79	5.458	102.54	5.458	102.80	5.458	102.52
5.439	100.76	5.439	101.35	5.439	102.00	5.439	102.33	5.439	102.04
5.419	100.32	5.419	100.88	5.419	101.59	5.419	101.86	5.419	101.63
5.399	99.90	5.399	100.41	5.399	101.12	5.399	101.39	5.399	101.15
5.379	99.43	5.379	99.94	5.379	100.66	5.379	100.94	5.379	100.66
5.359	98.96	5.359	99.55	5.359	100.20	5.359	100.51	5.359	100.17
5.339	98.49	5.339	99.05	5.339	99.73	5.339	100.01	5.339	99.70
5.319	98.03	5.319	98.55	5.319	99.25	5.319	99.53	5.319	99.28
5.299	97.55	5.299	98.15	5.299	98.78	5.299	99.13	5.299	98.78
5.279	97.12	5.279	97.67	5.279	98.30	5.279	98.64	5.279	98.28
5.259	96.67	5.259	97.26	5.259	97.90	5.259	98.16	5.259	97.86
5.239	96.19	5.239	96.81	5.239	97.42	5.239	97.71	5.239	97.37
5.219	95.77	5.219	96.33	5.219	96.98	5.219	97.26	5.219	96.95
5.199	95.33	5.199	95.90	5.199	96.50	5.199	96.81	5.199	96.49
5.180	94.87	5.180	95.48	5.180	96.09	5.180	96.38	5.180	95.99
5.160	94.44	5.160	95.03	5.160	95.60	5.160	95.90	5.160	95.57
5.140	93.98	5.140	94.56	5.140	95.11	5.140	95.48	5.140	95.08
5.120	93.58	5.120	94.17	5.120	94.70	5.120	94.97	5.120	94.65
5.100	93.10	5.100	93.85	5.100	94.25	5.100	94.55	5.100	94.17
5.080	92.67	5.080	93.36	5.080	93.80	5.080	94.13	5.080	93.73
5.060	92.20	5.060	92.88	5.060	93.33	5.060	93.62	5.060	93.29
5.040	91.79	5.040	92.44	5.040	92.90	5.040	93.19	5.040	92.90
5.020	91.33	5.020	91.98	5.020	92.48	5.020	92.72	5.020	92.70
5.000	90.88	5.000	91.53	5.000	91.96	5.000	92.28	5.000	92.40
4.980	90.42	4.980	91.07	4.980	91.52	4.980	91.84	4.980	91.93
4.960	89.97	4.960	90.61	4.960	91.09	4.960	91.40	4.960	91.46

4.941	89.55	4.941	90.23	4.941	90.67	4.941	90.96	4.941	90.99
4.921	89.13	4.921	89.76	4.921	90.20	4.921	90.52	4.921	90.59
4.901	88.71	4.901	89.29	4.901	89.78	4.901	90.07	4.901	90.11
4.881	88.28	4.881	88.90	4.881	89.35	4.881	89.70	4.881	89.66
4.861	87.85	4.861	88.43	4.861	88.90	4.861	89.23	4.861	89.27
4.841	87.42	4.841	88.02	4.841	88.45	4.841	88.76	4.841	88.78
4.821	86.99	4.821	87.54	4.821	87.99	4.821	88.30	4.821	88.37
4.801	86.55	4.801	87.12	4.801	87.59	4.801	87.84	4.801	87.95
4.781	86.11	4.781	86.68	4.781	87.11	4.781	87.46	4.781	87.49
4.761	85.67	4.761	86.24	4.761	86.67	4.761	87.00	4.761	87.01
4.741	85.23	4.741	85.82	4.741	86.26	4.741	86.61	4.741	86.58
4.721	84.79	4.721	85.34	4.721	85.81	4.721	86.16	4.721	86.16
4.702	84.34	4.702	84.96	4.702	85.39	4.702	85.71	4.702	85.73
4.682	83.90	4.682	84.51	4.682	84.96	4.682	85.23	4.682	85.26
4.662	83.52	4.662	84.06	4.662	84.48	4.662	84.83	4.662	84.84
4.642	83.05	4.642	83.63	4.642	84.07	4.642	84.43	4.642	84.40
4.622	82.67	4.622	83.21	4.622	83.65	4.622	83.95	4.622	83.95
4.602	82.21	4.602	82.76	4.602	83.21	4.602	83.51	4.602	83.52
4.582	81.83	4.582	82.36	4.582	82.77	4.582	83.09	4.582	83.08
4.562	81.36	4.562	81.92	4.562	82.33	4.562	82.68	4.562	82.65
4.542	80.98	4.542	81.48	4.542	81.95	4.542	82.23	4.542	82.20
4.522	80.56	4.522	81.08	4.522	81.50	4.522	81.83	4.522	81.82
4.502	80.11	4.502	80.62	4.502	81.08	4.502	81.42	4.502	81.36
4.482	79.69	4.482	80.22	4.482	80.63	4.482	80.93	4.482	80.92
4.462	79.30	4.462	79.82	4.462	80.23	4.462	80.52	4.462	80.50
4.443	78.87	4.443	79.41	4.443	79.80	4.443	80.09	4.443	80.07
4.423	78.43	4.423	78.95	4.423	79.35	4.423	79.66	4.423	79.67
4.403	77.99	4.403	78.52	4.403	78.95	4.403	79.22	4.403	79.20
4.383	77.61	4.383	78.10	4.383	78.52	4.383	78.81	4.383	78.79
4.363	77.16	4.363	77.67	4.363	78.12	4.363	78.42	4.363	78.38
4.343	76.79	4.343	77.25	4.343	77.67	4.343	77.99	4.343	77.96
4.323	76.38	4.323	76.83	4.323	77.28	4.323	77.54	4.323	77.54
4.303	75.94	4.303	76.41	4.303	76.88	4.303	77.14	4.303	77.09
4.283	75.54	4.283	76.06	4.283	76.44	4.283	76.70	4.283	76.72
4.263	75.08	4.263	75.64	4.263	75.97	4.263	76.28	4.263	76.32
4.243	74.69	4.243	75.20	4.243	75.57	4.243	75.85	4.243	75.87
4.223	74.30	4.223	74.77	4.223	75.16	4.223	75.45	4.223	75.50
4.204	73.91	4.204	74.41	4.204	74.71	4.204	75.06	4.204	75.04
4.184	73.44	4.184	73.97	4.184	74.31	4.184	74.62	4.184	74.58
4.164	73.04	4.164	73.53	4.164	73.90	4.164	74.21	4.164	74.21
4.144	72.64	4.144	73.15	4.144	73.49	4.144	73.77	4.144	73.76
4.124	72.24	4.124	72.76	4.124	73.08	4.124	73.33	4.124	73.33
4.104	71.83	4.104	72.32	4.104	72.67	4.104	72.97	4.104	72.93
4.084	71.40	4.084	71.90	4.084	72.27	4.084	72.54	4.084	72.55
4.064	71.07	4.064	71.48	4.064	71.86	4.064	72.17	4.064	72.08

4.044	70.65	4.044	71.09	4.044	71.44	4.044	71.72	4.044	71.70
4.024	70.23	4.024	70.71	4.024	71.02	4.024	71.30	4.024	71.30
4.004	69.81	4.004	70.32	4.004	70.67	4.004	70.89	4.004	70.83
3.984	69.39	3.984	69.87	3.984	70.21	3.984	70.50	3.984	70.44
3.964	69.01	3.964	69.46	3.964	69.83	3.964	70.06	3.964	70.04
3.945	68.61	3.945	69.04	3.945	69.40	3.945	69.67	3.945	69.64
3.925	68.25	3.925	68.64	3.925	69.04	3.925	69.26	3.925	69.22
3.905	67.81	3.905	68.29	3.905	68.62	3.905	68.87	3.905	68.79
3.885	67.45	3.885	67.87	3.885	68.18	3.885	68.45	3.885	68.38
3.865	67.01	3.865	67.46	3.865	67.82	3.865	68.06	3.865	67.97
3.845	66.61	3.845	67.09	3.845	67.39	3.845	67.66	3.845	67.62
3.825	66.21	3.825	66.67	3.825	67.00	3.825	67.30	3.825	67.21
3.805	65.80	3.805	66.26	3.805	66.59	3.805	66.88	3.805	66.78
3.785	65.42	3.785	65.83	3.785	66.19	3.785	66.48	3.785	66.37
3.765	65.03	3.765	65.47	3.765	65.81	3.765	66.13	3.765	65.96
3.745	64.65	3.745	65.03	3.745	65.43	3.745	65.76	3.745	65.55
3.725	64.25	3.725	64.68	3.725	64.98	3.725	65.33	3.725	65.16
3.706	63.86	3.706	64.25	3.706	64.59	3.706	64.95	3.706	64.79
3.686	63.47	3.686	63.90	3.686	64.20	3.686	64.52	3.686	64.37
3.666	63.06	3.666	63.46	3.666	63.80	3.666	64.11	3.666	63.94
3.646	62.67	3.646	63.10	3.646	63.42	3.646	63.73	3.646	63.57
3.626	62.25	3.626	62.74	3.626	63.02	3.626	63.32	3.626	63.19
3.606	61.89	3.606	62.29	3.606	62.62	3.606	62.89	3.606	62.75
3.586	61.51	3.586	61.92	3.586	62.26	3.586	62.46	3.586	62.36
3.566	61.10	3.566	61.52	3.566	61.87	3.566	62.10	3.566	61.96
3.546	60.70	3.546	61.14	3.546	61.47	3.546	61.72	3.546	61.57
3.526	60.35	3.526	60.76	3.526	61.05	3.526	61.29	3.526	61.17
3.506	59.97	3.506	60.38	3.506	60.71	3.506	60.92	3.506	60.78
3.486	59.54	3.486	59.99	3.486	60.28	3.486	60.51	3.486	60.38
3.466	59.19	3.466	59.59	3.466	59.94	3.466	60.13	3.466	59.99
3.447	58.76	3.447	59.20	3.447	59.51	3.447	59.75	3.447	59.59
3.427	58.41	3.427	58.80	3.427	59.14	3.427	59.32	3.427	59.20
3.407	58.04	3.407	58.45	3.407	58.74	3.407	58.93	3.407	58.77
3.387	57.61	3.387	58.03	3.387	58.35	3.387	58.53	3.387	58.38
3.367	57.25	3.367	57.63	3.367	57.98	3.367	58.20	3.367	58.02
3.347	56.87	3.347	57.30	3.347	57.62	3.347	57.80	3.347	57.66
3.327	56.50	3.327	56.88	3.327	57.24	3.327	57.41	3.327	57.29
3.307	56.13	3.307	56.54	3.307	56.85	3.307	57.00	3.307	56.86
3.287	55.74	3.287	56.11	3.287	56.45	3.287	56.64	3.287	56.46
3.267	55.32	3.267	55.76	3.267	56.06	3.267	56.23	3.267	56.09
3.247	54.94	3.247	55.38	3.247	55.67	3.247	55.85	3.247	55.68
3.227	54.58	3.227	54.97	3.227	55.29	3.227	55.47	3.227	55.32
3.208	54.24	3.208	54.63	3.208	54.93	3.208	55.05	3.208	54.92
3.188	53.84	3.188	54.20	3.188	54.51	3.188	54.70	3.188	54.53
3.168	53.44	3.168	53.83	3.168	54.17	3.168	54.34	3.168	54.16

3.148	53.11	3.148	53.46	3.148	53.80	3.148	53.91	3.148	53.80
3.128	52.67	3.128	53.07	3.128	53.40	3.128	53.55	3.128	53.41
3.108	52.32	3.108	52.73	3.108	53.04	3.108	53.19	3.108	52.98
3.088	51.98	3.088	52.34	3.088	52.68	3.088	52.82	3.088	52.63
3.068	51.56	3.068	51.93	3.068	52.30	3.068	52.45	3.068	52.24
3.048	51.22	3.048	51.57	3.048	51.92	3.048	52.00	3.048	51.86
3.028	50.86	3.028	51.21	3.028	51.53	3.028	51.62	3.028	51.47
3.008	50.45	3.008	50.85	3.008	51.14	3.008	51.24	3.008	51.09
2.988	50.07	2.988	50.46	2.988	50.79	2.988	50.93	2.988	50.69
2.968	49.77	2.968	50.12	2.968	50.41	2.968	50.54	2.968	50.30
2.949	49.39	2.949	49.82	2.949	50.00	2.949	50.13	2.949	49.94
2.929	48.97	2.929	49.51	2.929	49.67	2.929	49.79	2.929	49.60
2.909	48.61	2.909	49.08	2.909	49.26	2.909	49.38	2.909	49.19
2.889	48.21	2.889	48.69	2.889	48.92	2.889	48.99	2.889	48.81
2.869	47.86	2.869	48.34	2.869	48.56	2.869	48.64	2.869	48.44
2.849	47.50	2.849	47.97	2.849	48.17	2.849	48.26	2.849	48.08
2.829	47.14	2.829	47.60	2.829	47.78	2.829	47.88	2.829	47.68
2.809	46.77	2.809	47.17	2.809	47.40	2.809	47.49	2.809	47.34
2.789	46.38	2.789	46.85	2.789	47.02	2.789	47.14	2.789	46.92
2.769	46.03	2.769	46.47	2.769	46.65	2.769	46.78	2.769	46.57
2.749	45.70	2.749	46.08	2.749	46.29	2.749	46.41	2.749	46.21
2.729	45.29	2.729	45.69	2.729	45.94	2.729	46.04	2.729	45.84
2.710	44.95	2.710	45.33	2.710	45.53	2.710	45.66	2.710	45.49
2.690	44.61	2.690	44.97	2.690	45.19	2.690	45.25	2.690	45.12
2.670	44.23	2.670	44.57	2.670	44.81	2.670	44.90	2.670	44.74
2.650	43.86	2.650	44.23	2.650	44.49	2.650	44.55	2.650	44.35
2.630	43.51	2.630	43.87	2.630	44.10	2.630	44.15	2.630	43.98
2.610	43.16	2.610	43.47	2.610	43.71	2.610	43.79	2.610	43.64
2.590	42.80	2.590	43.12	2.590	43.38	2.590	43.41	2.590	43.30
2.570	42.45	2.570	42.71	2.570	43.01	2.570	43.07	2.570	42.93
2.550	42.08	2.550	42.32	2.550	42.62	2.550	42.66	2.550	42.56
2.530	41.70	2.530	41.99	2.530	42.25	2.530	42.33	2.530	42.19
2.510	41.36	2.510	41.65	2.510	41.91	2.510	41.97	2.510	41.81
2.490	40.98	2.490	41.29	2.490	41.52	2.490	41.59	2.490	41.43
2.470	40.60	2.470	40.89	2.470	41.13	2.470	41.25	2.470	41.11
2.451	40.23	2.451	40.53	2.451	40.82	2.451	40.90	2.451	40.70
2.431	39.91	2.431	40.18	2.431	40.43	2.431	40.54	2.431	40.36
2.411	39.53	2.411	39.82	2.411	40.06	2.411	40.14	2.411	39.99
2.391	39.19	2.391	39.45	2.391	39.72	2.391	39.80	2.391	39.64
2.371	38.81	2.371	39.11	2.371	39.33	2.371	39.42	2.371	39.30
2.351	38.49	2.351	38.76	2.351	38.96	2.351	39.05	2.351	38.89
2.331	38.16	2.331	38.38	2.331	38.61	2.331	38.71	2.331	38.54
2.311	37.82	2.311	37.99	2.311	38.24	2.311	38.33	2.311	38.17
2.291	37.41	2.291	37.68	2.291	37.92	2.291	37.99	2.291	37.80
2.271	37.07	2.271	37.31	2.271	37.53	2.271	37.64	2.271	37.44

2.251	36.71	2.251	36.95	2.251	37.22	2.251	37.25	2.251	37.08
2.231	36.36	2.231	36.61	2.231	36.83	2.231	36.90	2.231	36.71
2.212	36.01	2.212	36.21	2.212	36.46	2.212	36.55	2.212	36.33
2.192	35.67	2.192	35.85	2.192	36.13	2.192	36.23	2.192	36.03
2.172	35.34	2.172	35.55	2.172	35.78	2.172	35.82	2.172	35.62
2.152	34.96	2.152	35.19	2.152	35.42	2.152	35.48	2.152	35.29
2.132	34.60	2.132	34.81	2.132	35.03	2.132	35.15	2.132	34.89
2.112	34.28	2.112	34.44	2.112	34.71	2.112	34.81	2.112	34.57
2.092	33.95	2.092	34.12	2.092	34.33	2.092	34.45	2.092	34.23
2.072	33.62	2.072	33.75	2.072	33.99	2.072	34.09	2.072	33.85
2.052	33.29	2.052	33.41	2.052	33.62	2.052	33.73	2.052	33.48
2.032	32.88	2.032	33.09	2.032	33.23	2.032	33.35	2.032	33.15
2.012	32.57	2.012	32.68	2.012	32.92	2.012	33.06	2.012	32.78
1.992	32.26	1.992	32.38	1.992	32.61	1.992	32.68	1.992	32.45
1.972	31.90	1.972	32.04	1.972	32.22	1.972	32.35	1.972	32.11
1.953	31.53	1.953	31.62	1.953	31.83	1.953	31.97	1.953	31.76
1.933	31.23	1.933	31.34	1.933	31.51	1.933	31.64	1.933	31.40
1.913	30.86	1.913	30.97	1.913	31.12	1.913	31.24	1.913	31.04
1.893	30.54	1.893	30.62	1.893	30.81	1.893	30.90	1.893	30.66
1.873	30.20	1.873	30.25	1.873	30.42	1.873	30.57	1.873	30.33
1.853	29.83	1.853	29.90	1.853	30.11	1.853	30.21	1.853	30.00
1.833	29.52	1.833	29.59	1.833	29.72	1.833	29.89	1.833	29.66
1.813	29.17	1.813	29.19	1.813	29.40	1.813	29.54	1.813	29.27
1.793	28.81	1.793	28.86	1.793	29.03	1.793	29.17	1.793	28.92
1.773	28.43	1.773	28.53	1.773	28.70	1.773	28.85	1.773	28.55
1.753	28.12	1.753	28.19	1.753	28.39	1.753	28.52	1.753	28.27
1.733	27.80	1.733	27.85	1.733	28.01	1.733	28.13	1.733	27.91
1.714	27.48	1.714	27.49	1.714	27.70	1.714	27.78	1.714	27.58
1.694	27.10	1.694	27.15	1.694	27.37	1.694	27.50	1.694	27.19
1.674	26.79	1.674	26.78	1.674	27.01	1.674	27.11	1.674	26.89
1.654	26.43	1.654	26.47	1.654	26.67	1.654	26.77	1.654	26.55
1.634	26.13	1.634	26.14	1.634	26.36	1.634	26.47	1.634	26.18
1.614	25.81	1.614	25.82	1.614	26.01	1.614	26.10	1.614	25.88
1.594	25.52	1.594	25.49	1.594	25.65	1.594	25.79	1.594	25.55
1.574	25.23	1.574	25.14	1.574	25.32	1.574	25.47	1.574	25.21
1.554	24.86	1.554	24.76	1.554	24.95	1.554	25.12	1.554	24.86
1.534	24.49	1.534	24.42	1.534	24.64	1.534	24.77	1.534	24.51
1.514	24.16	1.514	24.07	1.514	24.33	1.514	24.44	1.514	24.14
1.494	23.83	1.494	23.73	1.494	23.93	1.494	24.10	1.494	23.79
1.474	23.52	1.474	23.44	1.474	23.62	1.474	23.76	1.474	23.49
1.455	23.16	1.455	23.08	1.455	23.23	1.455	23.41	1.455	23.23
1.435	22.86	1.435	22.78	1.435	22.92	1.435	23.10	1.435	22.86
1.415	22.49	1.415	22.47	1.415	22.61	1.415	22.74	1.415	22.54
1.395	22.11	1.395	22.08	1.395	22.29	1.395	22.43	1.395	22.15
1.375	21.80	1.375	21.77	1.375	21.93	1.375	22.09	1.375	21.85

1.355	21.44	1.355	21.44	1.355	21.59	1.355	21.72	1.355	21.53
1.335	21.11	1.335	21.09	1.335	21.28	1.335	21.41	1.335	21.12
1.315	20.77	1.315	20.74	1.315	20.93	1.315	21.10	1.315	20.87
1.295	20.44	1.295	20.41	1.295	20.58	1.295	20.77	1.295	20.52
1.275	20.15	1.275	20.10	1.275	20.26	1.275	20.40	1.275	20.17
1.255	19.78	1.255	19.79	1.255	19.93	1.255	20.08	1.255	19.81
1.235	19.48	1.235	19.40	1.235	19.56	1.235	19.69	1.235	19.49
1.216	19.11	1.216	19.09	1.216	19.25	1.216	19.38	1.216	19.16
1.196	18.81	1.196	18.78	1.196	18.94	1.196	19.07	1.196	18.84
1.176	18.46	1.176	18.46	1.176	18.54	1.176	18.76	1.176	18.51
1.156	18.13	1.156	18.11	1.156	18.23	1.156	18.40	1.156	18.22
1.136	17.78	1.136	17.84	1.136	17.92	1.136	18.05	1.136	17.88
1.116	17.47	1.116	17.50	1.116	17.61	1.116	17.85	1.116	17.54
1.096	17.17	1.096	17.13	1.096	17.30	1.096	17.44	1.096	17.24
1.076	16.85	1.076	16.85	1.076	16.98	1.076	17.13	1.076	16.91
1.056	16.47	1.056	16.52	1.056	16.67	1.056	16.82	1.056	16.60
1.036	16.13	1.036	16.17	1.036	16.36	1.036	16.42	1.036	16.26
1.016	15.87	1.016	15.81	1.016	16.05	1.016	16.09	1.016	15.97
0.996	15.51	0.996	15.49	0.996	15.66	0.996	15.79	0.996	15.65
0.976	15.16	0.976	15.16	0.976	15.40	0.976	15.47	0.976	15.28
0.957	14.87	0.957	14.82	0.957	15.03	0.957	15.13	0.957	14.99
0.937	14.55	0.937	14.47	0.937	14.72	0.937	14.76	0.937	14.67
0.917	14.23	0.917	14.16	0.917	14.41	0.917	14.45	0.917	14.35
0.897	13.90	0.897	13.83	0.897	14.09	0.897	14.13	0.897	14.03
0.877	13.56	0.877	13.51	0.877	13.78	0.877	13.80	0.877	13.74
0.857	13.20	0.857	13.19	0.857	13.39	0.857	13.47	0.857	13.38
0.837	12.89	0.837	12.84	0.837	13.08	0.837	13.18	0.837	13.07
0.817	12.57	0.817	12.55	0.817	12.77	0.817	12.88	0.817	12.74
0.797	12.26	0.797	12.17	0.797	12.45	0.797	12.51	0.797	12.42
0.777	11.97	0.777	11.87	0.777	12.14	0.777	12.20	0.777	12.12
0.757	11.66	0.757	11.54	0.757	11.83	0.757	11.87	0.757	11.81
0.737	11.35	0.737	11.19	0.737	11.52	0.737	11.57	0.737	11.48
0.718	11.01	0.718	10.89	0.718	11.21	0.718	11.25	0.718	11.24
0.698	10.69	0.698	10.58	0.698	10.88	0.698	10.95	0.698	10.89
0.678	10.37	0.678	10.27	0.678	10.55	0.678	10.61	0.678	10.57
0.658	10.07	0.658	9.91	0.658	10.19	0.658	10.32	0.658	10.25
0.638	9.76	0.638	9.68	0.638	9.87	0.638	9.95	0.638	9.96
0.618	9.45	0.618	9.46	0.618	9.57	0.618	9.62	0.618	9.61
0.598	9.23	0.598	9.13	0.598	9.23	0.598	9.31	0.598	9.29
0.578	8.89	0.578	8.79	0.578	8.94	0.578	9.03	0.578	8.97
0.558	8.54	0.558	8.41	0.558	8.63	0.558	8.68	0.558	8.71
0.538	8.23	0.538	8.09	0.538	8.30	0.538	8.37	0.538	8.36
0.518	7.88	0.518	7.76	0.518	8.01	0.518	8.06	0.518	8.02
0.498	7.59	0.498	7.45	0.498	7.69	0.498	7.75	0.498	7.73
0.478	7.22	0.478	7.08	0.478	7.38	0.478	7.40	0.478	7.41

0.459	6.95	0.459	6.78	0.459	7.02	0.459	7.12	0.459	7.11
0.439	6.56	0.439	6.41	0.439	6.75	0.439	6.81	0.439	6.80
0.419	6.25	0.419	6.12	0.419	6.44	0.419	6.50	0.419	6.48
0.399	6.00	0.399	5.79	0.399	6.16	0.399	6.19	0.399	6.17
0.379	5.62	0.379	5.46	0.379	5.94	0.379	5.88	0.379	5.86
0.359	5.31	0.359	5.16	0.359	5.71	0.359	5.56	0.359	5.55
0.339	5.00	0.339	4.85	0.339	5.35	0.339	5.19	0.339	5.24
0.319	4.69	0.319	4.50	0.319	5.01	0.319	4.86	0.319	4.92
0.299	4.38	0.299	4.20	0.299	4.63	0.299	4.63	0.299	4.62
0.279	4.06	0.279	3.92	0.279	4.30	0.279	4.28	0.279	4.38
0.259	3.75	0.259	3.61	0.259	3.95	0.259	3.99	0.259	4.08
0.239	3.44	0.239	3.30	0.239	3.64	0.239	3.64	0.239	3.76
0.220	3.13	0.220	2.97	0.220	3.33	0.220	3.31	0.220	3.43
0.200	2.82	0.200	2.68	0.200	2.92	0.200	3.01	0.200	3.07
0.180	2.51	0.180	2.38	0.180	2.66	0.180	2.75	0.180	2.75
0.160	2.19	0.160	2.23	0.160	2.33	0.160	2.44	0.160	2.43
0.140	1.96	0.140	1.86	0.140	2.00	0.140	2.08	0.140	2.11
0.120	1.64	0.120	1.41	0.120	1.68	0.120	1.78	0.120	1.82
0.100	1.37	0.100	1.14	0.100	1.69	0.100	1.47	0.100	1.57

Table S2. Experimental dew and bubble pressures, P_{dew} and P_{bubble}, and densities of the liquid, ρ_{L}, and vapor, ρ_{V}, phases in the VLE for CO_2+CO mixtures. Saturation pressures, P_{sat}, and densities, ρ_{L} and ρ_{V}, for pure CO_2.[48]

T (K)	P_{dew} (MPa)	P_{bubble} (MPa)	ρ_{L} (kg.m^{-3})	ρ_{V} (kg.m^{-3})	P_{dew} (MPa)	P_{bubble} (MPa)	ρ_{L} (kg.m^{-3})	ρ_{V} (kg.m^{-3})
	x_{CO_2} = 0.9700				**x_{CO_2} = 0.9810**			
253.15	2.070	5.208	1014.58	53.25	2.038	4.033	1021.71	53.66
263.15	2.770	5.400	966.00	74.40	2.741	4.477	970.42	73.19
273.15	3.680	5.991	909.35	102.10	3.577	5.087	916.50	101.98
283.15	4.720	6.574	840.50	141.71	4.695	5.905	850.08	137.92
293.15	6.080	7.465	752.12	207.60	5.912	6.871	758.54	202.01
	x_{CO_2} = 0.9902				**x_{CO_2} = 0.9930**			
253.15	1.989	2.979	1026.86	52.45	1.988	2.978	1026.89	52.54
263.15	2.681	3.578	975.73	71.36	2.67	3.293	978.09	70.56
273.15	3.527	4.277	921.85	97.61	3.520	4.060	924.11	99.04
283.15	4.579	5.216	852.66	136.39	4.556	4.999	859.42	135.89
293.15	5.847	6.345	766.26	189.91	5.762	6.162	777.60	187.60
	x_{CO_2} = 0.9960				**x_{CO_2}= 1 (pure CO_2)**			
253.15	1.977	2.327	1031.12	52.46	1.9696*		1031.7	51.700
263.15	2.657	3.054	979.86	70.72	2.6487*		982.93	71.185
273.15	3.527	3.804	924.55	98.24	3.4851*		927.43	97.647
283.15	4.530	4.811	857.70	135.26	4.5022*		861.12	135.16
293.15	5.778	5.962	764.73	193.76	5.7291*		773.39	194.20

(*) P_{sat} values

Table S3. Parameters used for modeling the CO_2+CO system with PR and PC-SAFT EoS.

	Compounds	
	CO_2	**CO**
T_c (K)	304.21[17]	132.86[72]
P_c (MPa)	7.383[17]	3.494[72]
ω	0.224[72]	0.066[72]
m	2.0730[37]	1.3097[37]
σ (Å)	2.7852[37]	3.2507[37]
ε (K)	169.21[37]	92.15[37]
Δv_c (PR EoS) $(10^{-3}\mathrm{m^3kg^{-1}})$	0	0
Δv_c (PC-SAFT EoS) $(10^{-3}\mathrm{m^3kg^{-1}})$	0.02[20]	-0.10[20]
k_{ij}(PR EoS) CO_2+CO = 0.205[30]		
k_{ij}(PC-SAFT EoS) CO_2+CO = 0.12[20]		

Table S4. Comparison between the experimental $P\rho T x_{CO_2}$ data presented in this work for the CO_2+CO system and those calculated using PR, PC-SAFT and GERG EoS.

Composition		$\boldsymbol{MRD_\rho(\%)}$							
	***T*(K)**	**253.15**	**263.15**	**273.15**	**283.15**	**293.15**	**323.15**	**333.15**	**343.15**
$\boldsymbol{x_{CO_2} = 0.9700}$	PR	3.04	1.83	1.41	1.50	2.59	4.81	4.11	3.26
	PC-SAFT	0.67	0.67	0.91	0.98	0.92	1.91	2.04	1.92
	GERG	0.76	0.67	0.82	0.86	0.71	2.15	1.55	0.99
$\boldsymbol{x_{CO_2} = 0.9810}$	PR	3.56	2.07	1.56	1.74	2.34	4.03	4.19	3.38
	PC-SAFT	1.37	0.23	0.75	0.59	0.46	1.56	1.93	2.51
	GERG	1.38	0.23	0.83	0.69	0.52	1.18	1.51	0.77
$\boldsymbol{x_{CO_2} = 0.9902}$	PR	3.52	2.27	1.60	1.63	2.45	4.34	3.86	3.15
	PC-SAFT	1.01	0.39	0.62	0.34	0.59	1.53	2.07	2.25
	GERG	1.03	0.36	0.6	0.35	0.29	1.05	0.76	0.46
$\boldsymbol{x_{CO_2} = 0.9930}$	PR	3.76	2.35	1.63	1.77	2.16	4.19	4.13	3.13
	PC-SAFT	1.11	0.35	0.68	0.44	0.23	1.65	2.18	2.19
	GERG	0.83	0.28	0.58	0.43	0.24	0.84	0.99	0.36
$\boldsymbol{x_{CO_2} = 0.9960}$	PR	3.46	2.51	1.68	1.61	2.26	4.19	3.98	3.34
	PC-SAFT	0.94	0.51	0.54	0.93	1.56	1.6	2.26	2.38
	GERG	0.96	0.32	0.4	0.18	0.17	0.79	0.76	0.49

$$MRD_\rho(\%) = \frac{100}{N}\sum\left|\frac{\rho_{\text{exp}} - \rho_{\text{EoS}}}{\rho_{\text{exp}}}\right|$$

Table S5. Comparison between the experimental VLE data presented in this work for the CO_2+CO system and those calculated using PR, PC-SAFT and GERG EoS.

Composition	EoS	$MRD_{P_{\text{bubble}}}(\%)$	$MRD_{\rho_{\text{L}}}(\%)$	$MRD_{P_{\text{dew}}}(\%)$	$MRD_{\rho_{\text{V}}}(\%)$
$x_{CO_2} = 0.9700$	PR	3.33	3.99	0.56	1.05
	PC-SAFT	1.18	0.62	1.42	5.31
	GERG	0.71	0.82	0.31	1.99
$x_{CO_2} = 0.9810$	PR	1.30	3.90	0.52	1.89
	PC-SAFT	0.83	0.33	1.28	5.38
	GERG	1.16	0.55	0.36	1.69
$x_{CO_2} = 0.9902$	PR	0.67	3.68	0.48	2.14
	PC-SAFT	1.01	0.31	1.58	3.28
	GERG	0.58	0.21	0.44	1.07
$x_{CO_2} = 0.9930$	PR	3.39	3.98	0.44	2.35
	PC-SAFT	3.39	0.08	1.36	3.41
	GERG	3.28	0.48	0.45	1.53
$x_{CO_2} = 0.9960$	PR	0.78	3.41	0.33	1.42
	PC-SAFT	1.49	0.61	1.60	4.09
	GERG	0.79	0.17	0.33	0.65

$$MRD_X(\%) = \frac{100}{N} \sum \left| \frac{X_{\text{exp}} - X_{\text{EoS}}}{X_{\text{exp}}} \right|$$

Table S6. Equation overview for the calculation of transport parameters in pipeline design and operation.[25,32]

	Equations	Symbols
Mass flow	$m = \rho \times v \times A$	m = mass flow (kg/s); ρ = fluid density (kg/m^3); v = fluid velocity (m/s); A = pipeline inner section (m^2).
Pipeline inner diameter	$D = \left(\frac{4 \times m}{v \times \pi \times \rho}\right)^{1/2} = \left[\frac{8 \times f \times m^2}{\rho \times \pi^2 \times \frac{\Delta P}{L}}\right]^{1/5}$	D = inner diameter (m); m = mass flow (kg/s); v = fluid velocity (m/s); ρ = fluid density (kg/m^3); f = Darcy-Weisbach friction factor; $(\Delta P/L)$ = pressure drop per metre (Pa/m).
Reynolds number	$Re = \frac{\rho \times v \times D}{\eta} = \frac{4 \times m}{\pi \times \eta \times D}$	Re = Reynolds number; ρ = fluid density (kg/m^3); v = fluid velocity (m/s); D = inner diameter (m); η = fluid viscosity (Pa.s); m = mass flow (kg/s).
Darcy-Weisbach friction factor	$f = \frac{1.325}{\left[ln\left[\frac{e}{3.7 \times D} + \frac{5.74}{Re^{0.9}}\right]\right]^2}$	f = Darcy-Weisbach friction factor; e = roughness height (m); D = inner diameter (m); Re = Reynolds number.
Pressure drop per meter	$\frac{\Delta P}{L} = \frac{8 \times f \times m^2}{\rho \times \pi^2 \times D^5}$	$(\Delta P/L)$ = pressure drop per metre (Pa/m); m = mass flow (kg/s); ρ = fluid density (kg/m^3); f = Darcy-Weisbach friction factor; D = inner diameter (m).
Booster station power	$W = \frac{m}{\rho} \times \frac{(P_{out} - P_{in})}{y_{booster}}$	W = power of the booster station (MW); m = mass flow (kg/s); ρ = fluid density, (kg/m^3); P_{out} = booster outlet pressure (MPa); P_{in} = booster inlet pressure (MPa); $y_{booster}$ = booster efficiency.

Table S7. Value of the minimum pressure required to obtain a density of 800 kg/m^3, P_{min}^{800}, for several transport temperatures, T_{tr}, when pure CO_2 or CO_2+CO mixtures are transported.

T_{tr} (K)	P_{min}^{800} (MPa)		
	Pure CO_2[48]	x_{CO_2}= 0.9902	x_{CO_2}= 0.9700
253.15	1.970	2.979	5.208
263.15	2.649	3.578	5.400
273.15	3.485	4.277	5.991
283.15	4.502	5.216	6.574
293.15	6.626	7.601	9.448
304.21	11.987	12.851[20]	15.060[20]
308.15	13.904	14.804[20]	16.851[20]
323.15	21.371	>20 MPa	>20 MPa
333.15	26.398	>20 MPa	>20 MPa
343.15	31.445	>20 MPa	>20 MPa

Table S8. Isothermal Compressibility, κ_T, Isobaric Thermal Expansivity, α_P, and Solubility Parameter, δ, for CO_2+CO mixtures at several temperatures and pressures.

	x_{CO_2} = 0.9700								
P (MPa)	***T*=253.15 K**			***T*=263.15 K**			***T*=273.15 K**		
	κ_T (MPa^{-1})	α_P (K^{-1})	δ (MPa$^{1/2}$)	κ_T (MPa^{-1})	α_P (K^{-1})	δ (MPa$^{1/2}$)	κ_T (MPa^{-1})	α_P (K^{-1})	δ (MPa$^{1/2}$)
9	3.88E-03	4.3E-03	16.4	5.59E-03	4.8E-03	14.7	7.48E-03	6.0E-03	14.5
10	3.75E-03	3.8E-03	15.7	5.17E-03	4.7E-03	15.1	7.02E-03	5.5E-03	14.3
11	3.64E-03	3.7E-03	15.7	4.87E-03	4.8E-03	15.8	6.62E-03	5.1E-03	14.2
12	3.53E-03	3.7E-03	16.0	4.62E-03	4.4E-03	15.5	6.27E-03	5.2E-03	14.7
13	3.42E-03	3.9E-03	16.6	4.43E-03	4.3E-03	15.5	5.94E-03	5.0E-03	14.7
14	3.32E-03	3.7E-03	16.3	4.26E-03	4.2E-03	15.6	5.63E-03	4.8E-03	14.9
15	3.20E-03	3.1E-03	15.2	4.09E-03	4.2E-03	15.9	5.33E-03	4.8E-03	15.2
16	3.08E-03	3.5E-03	16.5	3.93E-03	3.9E-03	15.7	5.04E-03	4.5E-03	15.2
17	2.98E-03	3.5E-03	16.7	3.75E-03	3.9E-03	15.9	4.77E-03	4.4E-03	15.3
18	2.89E-03	3.4E-03	16.7	3.56E-03	3.8E-03	16.2	4.52E-03	4.3E-03	15.6
19	2.83E-03	3.2E-03	16.3	3.35E-03	3.7E-03	16.6	4.30E-03	4.2E-03	15.8
20	2.83E-03	3.4E-03	16.8	3.13E-03	3.7E-03	17.0	4.15E-03	4.1E-03	15.7
P (MPa)	***T*=283.15 K**			***T*=293.15 K**			***T*=304.21 K***		
	κ_T (MPa^{-1})	α_P (K^{-1})	δ (MPa$^{1/2}$)	κ_T (MPa^{-1})	α_P (K^{-1})	δ (MPa$^{1/2}$)	κ_T (MPa^{-1})	α_P (K^{-1})	δ (MPa$^{1/2}$)
9	1.27E-02	8.1E-03	13.1	2.57E-02	1.1E-02	11.0	1.47E-01	4.0E-02	8.6
10	1.12E-02	7.6E-03	13.5	2.04E-02	1.1E-02	12.2	5.86E-02	2.2E-02	10.3
11	1.01E-02	6.4E-03	13.0	1.68E-02	9.7E-03	12.6	4.44E-02	1.6E-02	10.0
12	9.20E-03	6.4E-03	13.6	1.44E-02	8.3E-03	12.6	3.00E-02	1.2E-02	10.5
13	8.48E-03	6.1E-03	13.8	1.27E-02	7.7E-03	12.8	2.36E-02	1.1E-02	11.3
14	7.86E-03	5.8E-03	14.0	1.15E-02	7.1E-03	13.0	1.95E-02	9.2E-03	11.4
15	7.30E-03	5.5E-03	14.0	1.05E-02	6.5E-03	12.9	1.69E-02	8.4E-03	11.6
16	6.79E-03	5.3E-03	14.4	9.61E-03	6.3E-03	13.2	1.50E-02	7.5E-03	11.7
17	6.32E-03	5.1E-03	14.5	8.79E-03	5.9E-03	13.4	1.33E-02	7.1E-03	12.1
18	5.94E-03	4.9E-03	14.7	8.04E-03	5.6E-03	13.7	1.18E-02	6.5E-03	12.3
19	5.66E-03	4.7E-03	14.7	7.40E-03	5.3E-03	13.9	1.07E-02	6.2E-03	12.6
20	5.57E-03	4.5E-03	14.5	7.04E-03	5.1E-03	13.9	1.01E-02	5.9E-03	12.6
P (MPa)	***T*=308.15 K***			***T*=323.15 K**			***T*=333.15 K**		
	κ_T (MPa^{-1})	α_P (K^{-1})	δ (MPa$^{1/2}$)	κ_T (MPa^{-1})	α_P (K^{-1})	δ (MPa$^{1/2}$)	κ_T (MPa^{-1})	α_P (K^{-1})	δ (MPa$^{1/2}$)
9	4.07E-01	7.3E-02	6.8	2.41E-01	1.9E-02	4.0	1.98E-01	1.5E-02	4.0
10	1.09E-01	2.8E-02	8.2	2.44E-01	2.6E-02	5.0	1.92E-01	1.5E-02	3.9
11	5.73E-02	1.9E-02	9.6	2.23E-01	3.1E-02	5.7	1.87E-01	2.4E-02	5.7
12	4.01E-02	1.4E-02	9.8	1.46E-01	3.1E-02	7.5	1.68E-01	2.5E-02	6.2

13	2.99E-02	1.3E-02	11.1	8.80E-02	2.0E-02	7.7	1.38E-01	2.3E-02	6.6
14	2.41E-02	1.0E-02	10.7	5.96E-02	1.9E-02	9.4	1.01E-01	2.0E-02	7.2
15	2.05E-02	9.2E-03	11.1	4.54E-02	1.4E-02	9.1	6.97E-02	1.7E-02	8.2
16	1.77E-02	8.0E-03	11.1	3.40E-02	1.2E-02	9.9	5.73E-02	1.5E-02	8.4
17	1.53E-02	7.7E-03	11.7	2.87E-02	1.0E-02	9.9	4.64E-02	1.3E-02	8.7
18	1.32E-02	6.9E-03	12.0	2.36E-02	9.9E-03	10.9	3.66E-02	1.1E-02	9.3
19	1.19E-02	6.6E-03	12.3	2.09E-02	8.5E-03	10.6	3.04E-02	1.0E-02	9.6
20	1.26E-02	6.3E-03	11.5	1.80E-02	7.8E-03	11.0	2.45E-02	9.2E-03	10.3
	x_{CO_2}= 0.9902								
P (MPa)	***T*=253.15 K**			***T*=263.15 K**			***T*=273.15 K**		
	κ_T (MPa^{-1})	**α_P (K^{-1})**	**δ (MPa$^{1/2}$)**	**κ_T (MPa^{-1})**	**α_P (K^{-1})**	**δ (MPa$^{1/2}$)**	**κ_T (MPa^{-1})**	**α_P (K^{-1})**	**δ (MPa$^{1/2}$)**
9	3.54E-03	4.7E-03	18.1	4.88E-03	4.5E-03	15.3	6.53E-03	5.3E-03	14.6
10	3.43E-03	4.1E-03	17.0	4.52E-03	4.4E-03	15.7	6.25E-03	5.1E-03	14.6
11	3.33E-03	4.0E-03	17.1	4.37E-03	4.4E-03	15.9	5.89E-03	5.0E-03	14.9
12	3.23E-03	3.9E-03	17.2	4.17E-03	4.3E-03	16.0	5.57E-03	4.5E-03	14.5
13	3.11E-03	3.8E-03	17.1	4.04E-03	4.1E-03	16.0	5.22E-03	4.7E-03	15.3
14	3.04E-03	3.7E-03	17.1	3.86E-03	4.0E-03	16.2	5.05E-03	4.6E-03	15.3
15	2.94E-03	3.1E-03	16.0	3.75E-03	4.1E-03	16.5	4.75E-03	4.6E-03	15.7
16	2.87E-03	3.5E-03	17.2	3.60E-03	3.9E-03	16.3	4.62E-03	4.3E-03	15.5
17	2.80E-03	3.5E-03	17.3	3.47E-03	3.8E-03	16.4	4.43E-03	4.2E-03	15.5
18	2.73E-03	3.4E-03	17.3	3.37E-03	3.7E-03	16.5	4.26E-03	4.1E-03	15.7
19	2.60E-03	3.4E-03	17.6	3.19E-03	3.6E-03	16.8	3.95E-03	4.0E-03	16.0
20	2.43E-03	3.3E-03	18.1	3.07E-03	3.6E-03	16.9	3.49E-03	3.9E-03	16.9
P **(MPa)**	***T*=283.15 K**			***T*=293.15 K**			***T*=304.21 K***		
	κ_T (MPa^{-1})	**α_P (K^{-1})**	**δ (MPa$^{1/2}$)**	**κ_T (MPa^{-1})**	**α_P (K^{-1})**	**δ (MPa$^{1/2}$)**	**κ_T (MPa^{-1})**	**α_P (K^{-1})**	**δ (MPa$^{1/2}$)**
9	1.05E-02	7.2E-03	13.6	1.95E-02	1.1E-02	12.3	6.62E-02	2.5E-02	10.4
10	9.31E-03	6.6E-03	13.9	1.58E-02	9.1E-03	12.6	3.92E-02	1.7E-02	11.1
11	8.63E-03	6.3E-03	14.0	1.36E-02	8.2E-03	12.9	2.80E-02	1.3E-02	11.6
12	7.87E-03	5.6E-03	13.7	1.21E-02	7.6E-03	13.1	2.02E-02	1.1E-02	12.6
13	7.23E-03	5.6E-03	14.4	1.08E-02	6.9E-03	13.2	1.82E-02	9.0E-03	11.7
14	6.89E-03	5.4E-03	14.4	9.93E-03	6.5E-03	13.3	1.60E-02	8.2E-03	11.9
15	6.36E-03	5.0E-03	14.5	9.07E-03	6.0E-03	13.3	1.44E-02	7.7E-03	12.2
16	6.11E-03	5.0E-03	14.6	8.41E-03	5.8E-03	13.6	1.29E-02	7.0E-03	12.2
17	5.81E-03	4.7E-03	14.6	7.80E-03	5.5E-03	13.8	1.13E-02	6.7E-03	12.8
18	5.50E-03	4.6E-03	14.8	7.32E-03	5.3E-03	13.9	1.00E-02	6.3E-03	13.1
19	5.10E-03	4.5E-03	15.1	6.89E-03	5.1E-03	14.0	9.19E-03	5.9E-03	13.3
20	4.47E-03	4.3E-03	16.0	6.92E-03	4.9E-03	13.7	9.74E-03	5.6E-03	12.5
P **(MPa)**	***T*=308.15 K***			***T*=323.15 K**			***T*=333.15 K**		
	κ_T	**α_P**	**δ**	**κ_T**	**α_P**	**δ**	**κ_T**	**α_P**	**δ**

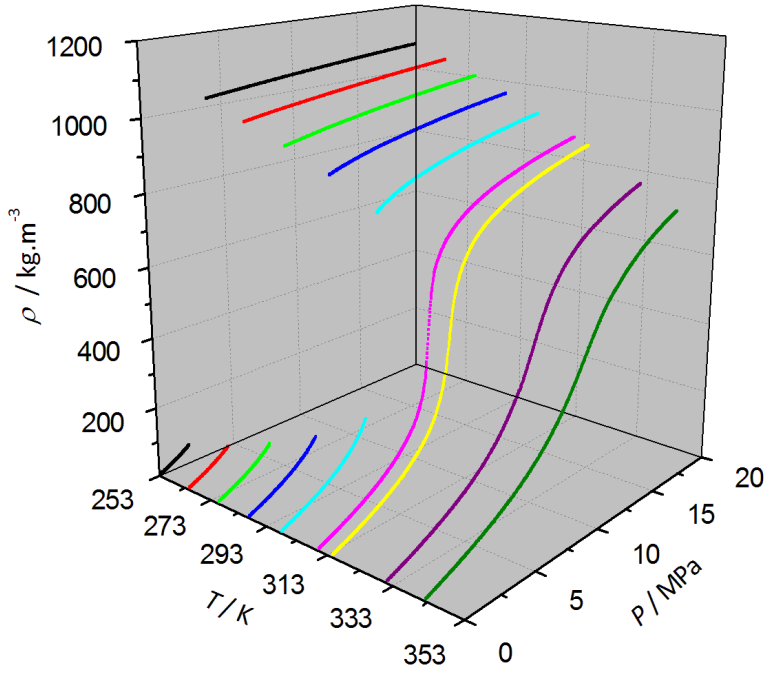
	(MPa^{-1})	(K^{-1})	($MPa^{1/2}$)	(MPa^{-1})	(K^{-1})	($MPa^{1/2}$)	(MPa^{-1})	(K^{-1})	($MPa^{1/2}$)
9	1.85E-01	4.2E-02	7.9	2.98E-01	2.2E-02	3.9	2.04E-01	1.7E-02	4.2
10	7.11E-02	2.2E-02	9.3	2.75E-01	3.7E-02	5.7	2.07E-01	1.7E-02	4.1
11	4.67E-02	1.7E-02	10.2	2.19E-01	3.4E-02	6.2	2.00E-01	2.7E-02	5.8
12	3.05E-02	1.3E-02	11.0	1.23E-01	3.2E-02	8.4	1.62E-01	2.7E-02	6.6
13	2.39E-02	1.0E-02	11.0	7.44E-02	2.1E-02	8.8	1.31E-01	2.5E-02	7.1
14	1.98E-02	9.0E-03	11.2	4.96E-02	1.6E-02	9.5	9.31E-02	2.0E-02	7.6
15	1.70E-02	8.6E-03	11.8	3.32E-02	1.3E-02	10.5	6.47E-02	1.7E-02	8.4
16	1.49E-02	7.5E-03	11.8	3.04E-02	1.2E-02	10.3	5.01E-02	1.4E-02	8.9
17	1.29E-02	7.2E-03	12.4	2.49E-02	9.8E-03	10.5	4.00E-02	1.2E-02	9.3
18	1.14E-02	6.7E-03	12.8	2.11E-02	9.0E-03	11.0	3.27E-02	1.1E-02	9.6
19	1.06E-02	6.3E-03	12.8	1.84E-02	8.1E-03	11.1	2.75E-02	9.7E-03	9.9
20	1.15E-02	5.9E-03	11.8	1.62E-02	7.5E-03	11.4	2.28E-02	8.8E-03	10.5
	x_{CO_2}= 0.9930								
P (MPa)	T=253.15 K			T=263.15 K			T=273.15 K		
	κ_T (MPa^{-1})	α_P (K^{-1})	δ ($MPa^{1/2}$)	κ_T (MPa^{-1})	α_P (K^{-1})	δ ($MPa^{1/2}$)	κ_T (MPa^{-1})	α_P (K^{-1})	δ ($MPa^{1/2}$)
9	3.53E-03	5.0E-03	18.8	4.81E-03	4.3E-03	15.1	6.36E-03	4.9E-03	14.2
10	3.43E-03	4.1E-03	17.1	4.54E-03	4.3E-03	15.4	6.02E-03	5.1E-03	14.8
11	3.32E-03	3.7E-03	16.4	4.32E-03	4.2E-03	15.7	5.70E-03	5.0E-03	15.1
12	3.21E-03	4.3E-03	18.2	4.13E-03	4.1E-03	15.8	5.41E-03	4.5E-03	14.7
13	3.11E-03	3.5E-03	16.6	3.97E-03	4.0E-03	15.8	5.16E-03	4.6E-03	15.3
14	3.03E-03	3.6E-03	17.0	3.82E-03	3.9E-03	15.9	4.92E-03	4.4E-03	15.2
15	2.95E-03	3.4E-03	16.7	3.68E-03	3.8E-03	16.0	4.71E-03	4.3E-03	15.3
16	2.88E-03	3.4E-03	16.9	3.54E-03	3.7E-03	16.2	4.51E-03	4.2E-03	15.4
17	2.80E-03	3.3E-03	16.8	3.41E-03	3.6E-03	16.2	4.32E-03	4.1E-03	15.6
18	2.72E-03	3.3E-03	17.1	3.28E-03	3.6E-03	16.4	4.13E-03	4.0E-03	15.7
19	2.60E-03	3.3E-03	17.3	3.15E-03	3.5E-03	16.6	3.94E-03	3.9E-03	15.9
20	2.44E-03	3.2E-03	17.7	3.02E-03	3.5E-03	16.9	3.74E-03	3.8E-03	16.1
P (MPa)	T=283.15 K			T=293.15 K			T=304.21 K*		
	κ_T (MPa^{-1})	α_P (K^{-1})	δ ($MPa^{1/2}$)	κ_T (MPa^{-1})	α_P (K^{-1})	δ ($MPa^{1/2}$)	κ_T (MPa^{-1})	α_P (K^{-1})	δ ($MPa^{1/2}$)
9	1.01E-02	7.0E-03	13.7	1.86E-02	1.1E-02	12.8	6.12E-02	1.9E-02	9.3
10	9.08E-03	6.6E-03	14.0	1.54E-02	9.2E-03	12.8	3.74E-02	1.4E-02	10.1
11	8.30E-03	6.2E-03	14.1	1.33E-02	8.0E-03	12.9	2.76E-02	1.4E-02	11.9
12	7.69E-03	5.6E-03	14.0	1.18E-02	7.6E-03	13.3	2.26E-02	1.1E-02	11.8
13	7.18E-03	5.6E-03	14.4	1.07E-02	6.9E-03	13.2	1.82E-02	8.9E-03	11.6
14	6.75E-03	5.3E-03	14.4	9.83E-03	6.5E-03	13.5	1.53E-02	8.5E-03	12.5
15	6.37E-03	5.1E-03	14.5	9.07E-03	6.1E-03	13.5	1.38E-02	7.7E-03	12.5
16	6.01E-03	4.9E-03	14.6	8.35E-03	5.8E-03	13.7	1.24E-02	7.3E-03	12.8
17	5.67E-03	4.7E-03	14.8	7.64E-03	5.5E-03	13.9	1.12E-02	6.6E-03	12.8

18	5.34E-03	4.5E-03	14.9	6.99E-03	5.3E-03	14.4	1.02E-02	6.5E-03	13.3
19	5.03E-03	4.4E-03	15.1	6.49E-03	5.0E-03	14.4	9.12E-03	5.9E-03	13.3
20	4.75E-03	4.3E-03	15.3	6.24E-03	4.8E-03	14.4	7.81E-03	5.6E-03	14.1
P (MPa)	**T=308.15 K***			**T=323.15 K**			**T=333.15 K**		
	κ_T (MPa^{-1})	**α_P (K^{-1})**	**δ (MPa$^{1/2}$)**	**κ_T (MPa^{-1})**	**α_P (K^{-1})**	**δ (MPa$^{1/2}$)**	**κ_T (MPa^{-1})**	**α_P (K^{-1})**	**δ (MPa$^{1/2}$)**
9	1.25E-01	3.0E-02	8.1	2.67E-01	2.1E-02	4.0	2.06E-01	1.6E-02	4.1
10	6.07E-02	2.3E-02	10.4	3.02E-01	3.6E-02	5.4	2.10E-01	2.0E-02	4.7
11	3.84E-02	1.6E-02	10.9	2.14E-01	3.4E-02	6.3	2.03E-01	2.9E-02	6.1
12	2.71E-02	1.3E-02	11.7	1.07E-01	3.1E-02	9.1	1.73E-01	2.7E-02	6.4
13	2.15E-02	1.0E-02	11.7	7.06E-02	2.0E-02	9.0	1.30E-01	2.5E-02	7.1
14	1.86E-02	9.5E-03	12.0	4.92E-02	1.6E-02	9.4	9.01E-02	2.0E-02	7.7
15	1.67E-02	8.4E-03	11.9	3.80E-02	1.3E-02	9.7	6.07E-02	1.6E-02	8.7
16	1.50E-02	8.0E-03	12.1	2.95E-02	1.1E-02	10.4	4.96E-02	1.4E-02	8.9
17	1.31E-02	7.1E-03	12.2	2.43E-02	9.6E-03	10.5	3.90E-02	1.2E-02	9.3
18	1.13E-02	7.1E-03	13.2	2.11E-02	8.8E-03	10.8	3.18E-02	1.1E-02	9.8
19	1.02E-02	6.2E-03	13.0	1.84E-02	8.0E-03	11.0	2.65E-02	9.7E-03	10.1
20	1.11E-02	5.9E-03	12.0	1.62E-02	7.4E-03	11.4	2.21E-02	8.8E-03	10.6

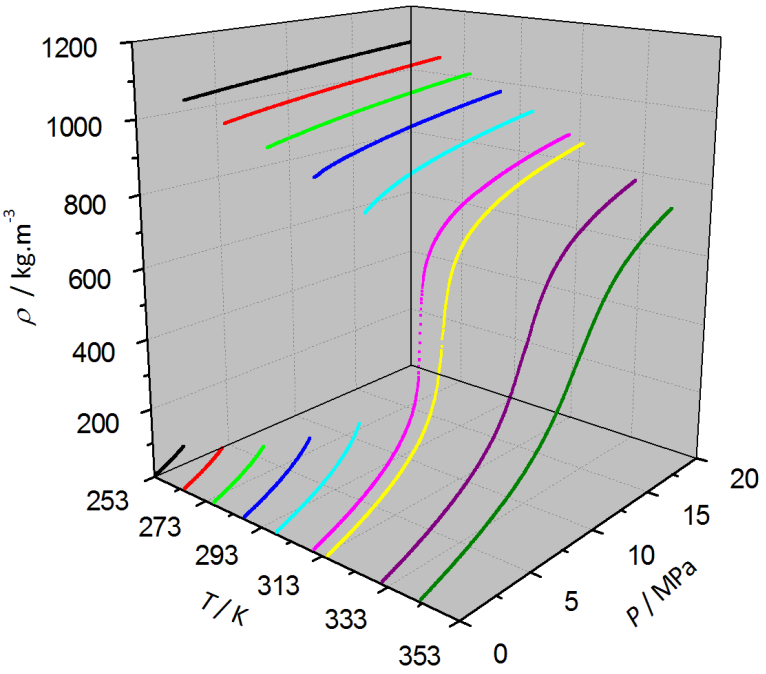
(*) Calculated from experimental $P\rho T x_{CO_2}$ taken from Ref. 20.

Figure S1. Experimental densities, ρ, for CO_2+CO mixtures with (a) x_{CO_2}= 0.9810, (b) x_{CO_2}= 0.9902, (c) x_{CO_2}= 0.9930, and (d) x_{CO_2}= 0.9960 at several temperatures and pressures.

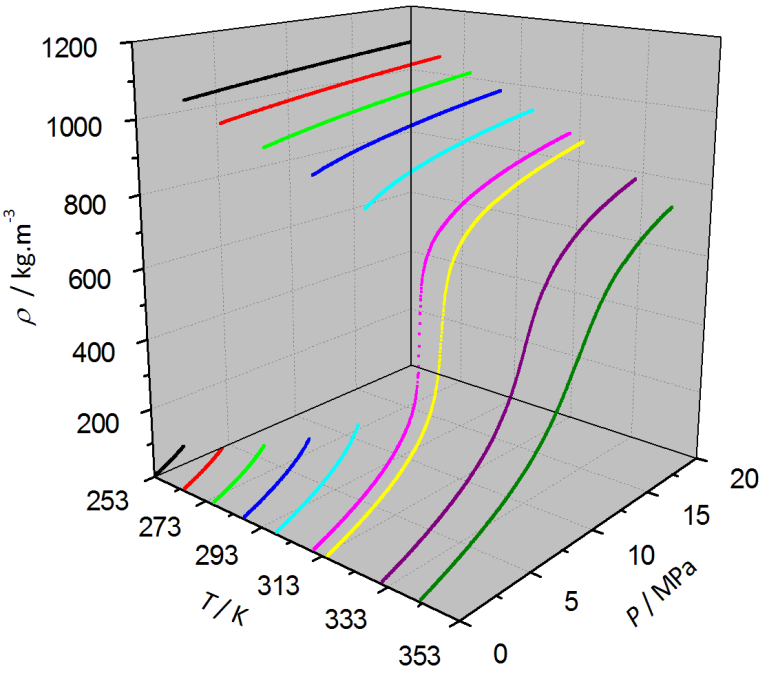
(S1a)



(S1b)


1200
1000
800
600
400
200
ρ / kg.m-3
253
273
293
313
333
353
T / K
0
5
10
15
20
P / MPa

(S1c)


1200
1000
800
600
400
200
ρ / kg.m-3
253
273
293
313
333
353
T / K
0
5
10
15
20
P / MPa

(S1d)

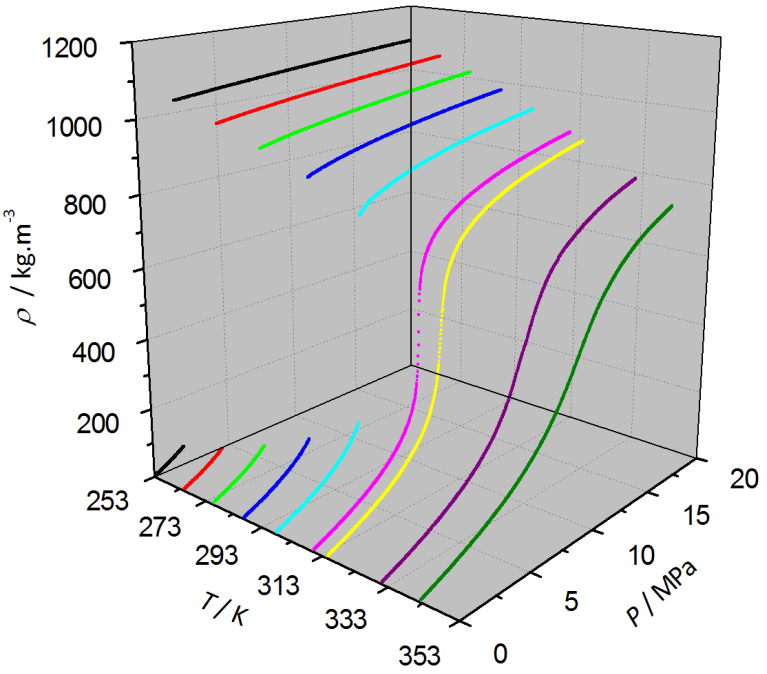

1200
1000
800
600
400
200
ρ / kg.m-3
253
273
293
313
333
353
T / K
0
5
10
15
20
P / MPa

Figure S2. Experimental VLE for CO_2+CO mixtures with x_{CO_2}= 0.9700 (black), x_{CO_2}= 0.9810 (red), x_{CO_2}= 0.9902 (blue), x_{CO_2}= 0.9930 (pink), and x_{CO_2}= 0.9960 (green). $P_{\text{bubble}}-\rho_{\text{L}}-x_{CO_2}$ (solid symbols) and $P_{\text{dew}}-\rho_{\text{V}}-x_{CO_2}$ (blank symbols).

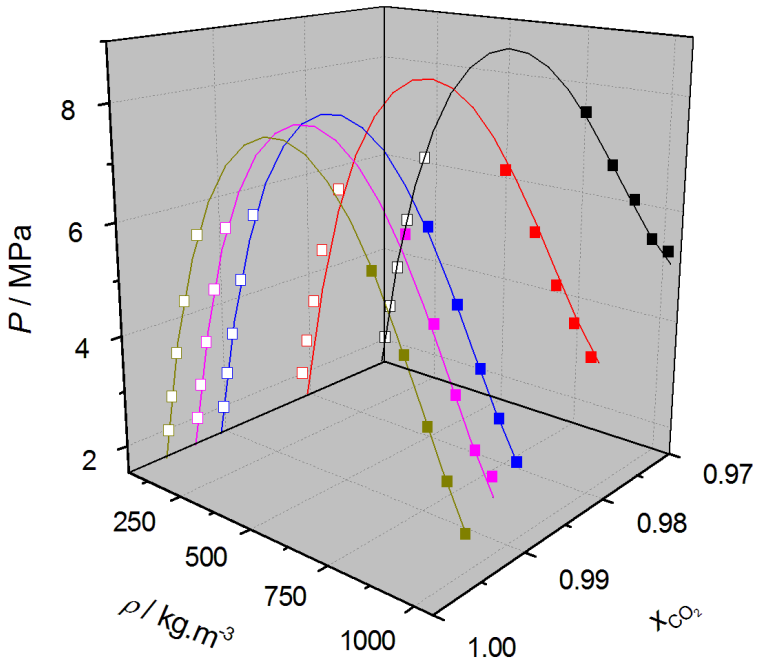


Figure S3. Relative deviation between the experimentally determined densities and the values calculated using different EoS for CO_2+CO mixtures with (a) x_{CO_2}= 0.9810 and (b) x_{CO_2}= 0.9930 at 253.15 K and 343.15 K.

(S3a) (S3b)

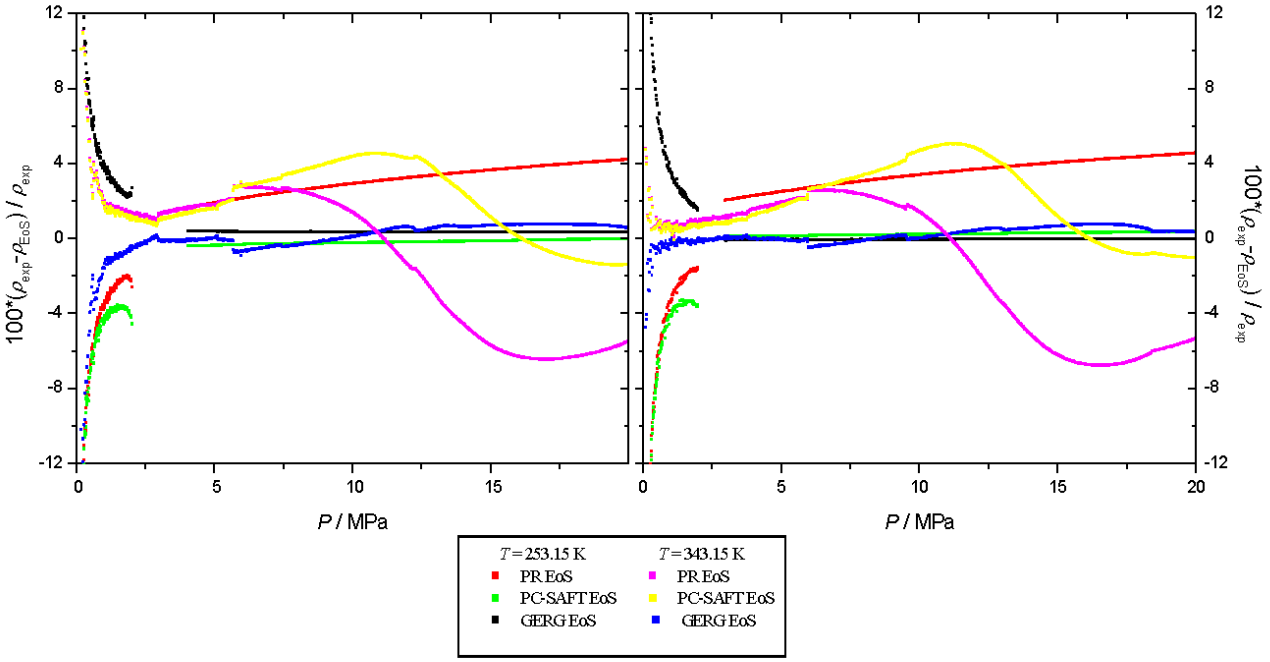
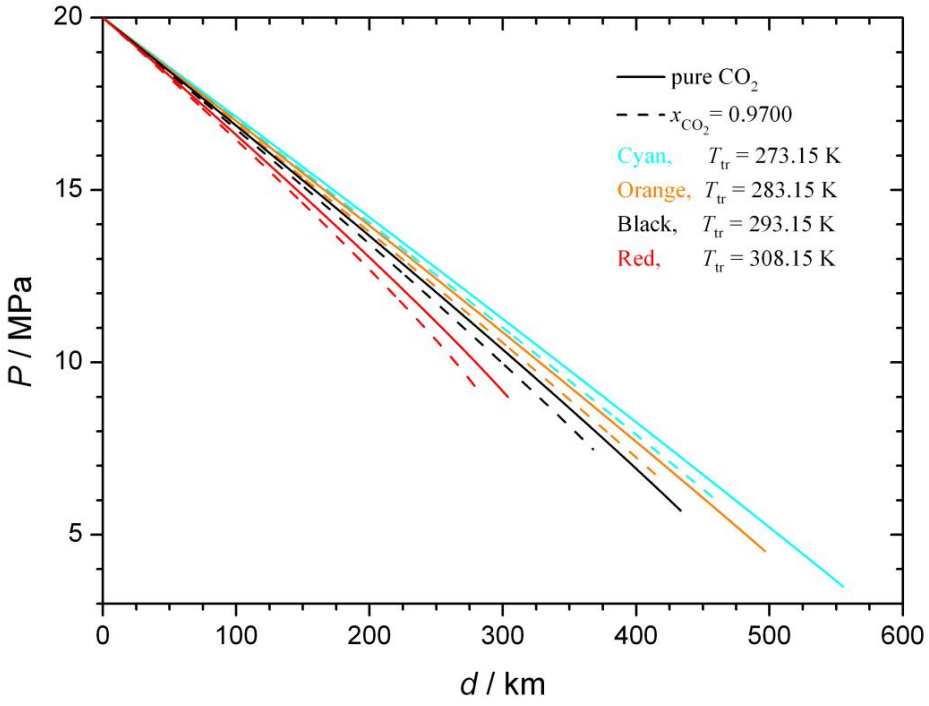


Figure S4. Comparison of pressure profiles along the pipeline for pure CO_2 (solid lines) and (a) CO_2+CO and (b) CO_2+CH_4 (dashed lines) mixtures at various transport temperatures, T_{tr}. Mass flow m = 317 kg/s, inner diameter of the pipeline D = 0.508 m, and roughness height $e = 4.6\times10^{-5}$ m were used along with a pipeline inlet pressure of 20.0 MPa.

(S4a)



(S4b)

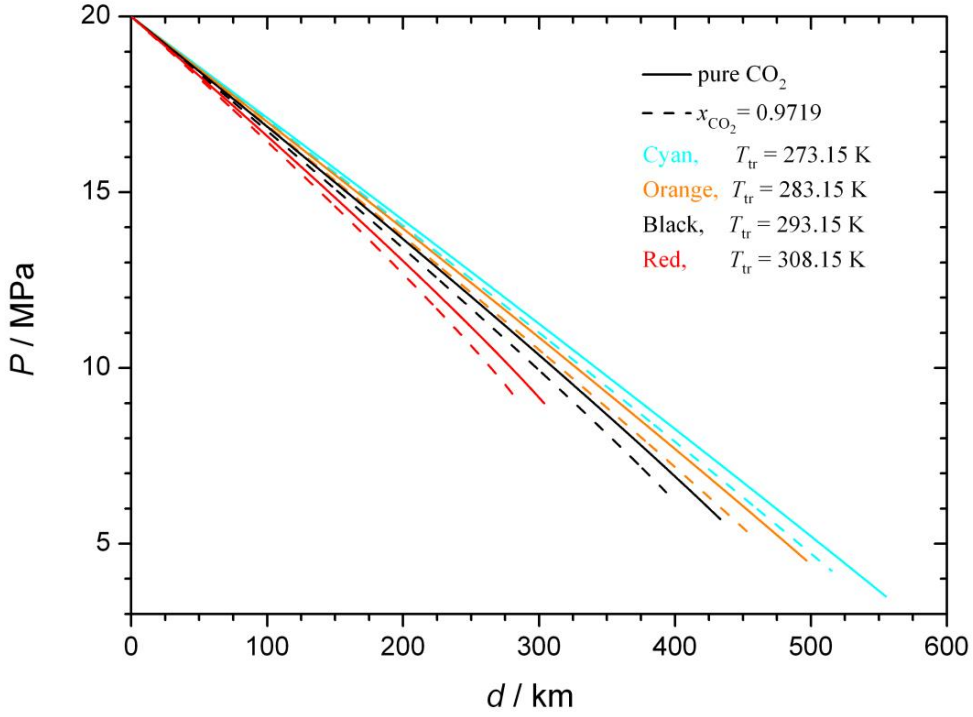

pure CO_2
x_{CO_2} = 0.9719
Cyan, T_{tr} = 273.15 K
Orange, T_{tr} = 283.15 K
Black, T_{tr} = 293.15 K
Red, T_{tr} = 308.15 K
P / MPa
d / km
20
15
10
5
0
100
200
300
400
500
600

Figure S5. Booster station power, $W_{20,}$ required to repressurize the fluid up to an outlet pressure and temperature of 20.0 MPa and 311 K versus the transport (= inlet) temperature, T_{tr}, for pure CO_2, CO_2+CO and CO_2+CH_4 mixtures. Set A: W_{20} necessary to repressurize from the pressure corresponding to a density of the fluid of 800 kg/m^3 at T_{tr}. Set B: W_{20} necessary to repressurize from 9.0 MPa. Mass flow was taken to be m = 317 kg/s, inner diameter of the pipeline D = 0.508 m, roughness height e = 4.6×10^{-5} m, and booster efficiency $y_{booster}$= 0.75.[25]

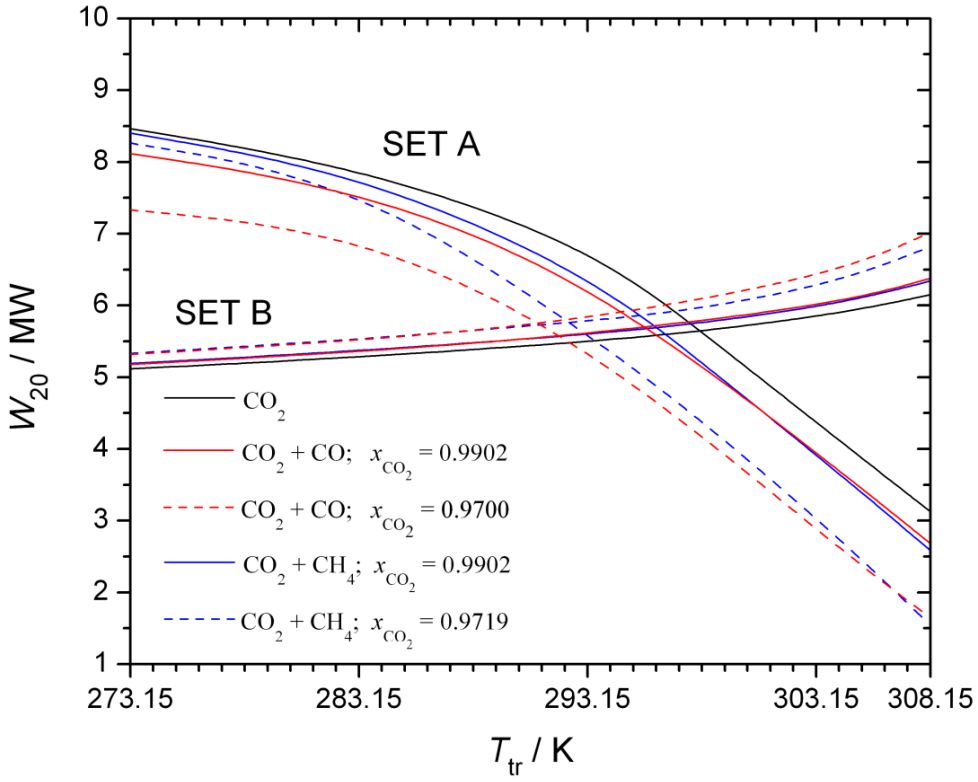


Figure S6. Maximum repressurization (pumping) distances, L, for pure CO_2, CO_2+CO and CO_2+CH_4 mixtures at T_{tr} = 283.15 K. Yellow: L to maintain the density of the fluid above 800 kg/m^3. Blue: L to maintain the pressure above 9.0 MPa. Mass flow was taken to be m = 317 kg/s, inner diameter of the pipeline D = 0.508 m, and roughness height e = 4.6×10^{-5} m. The pipeline inlet pressure was set at 20.0 MPa.

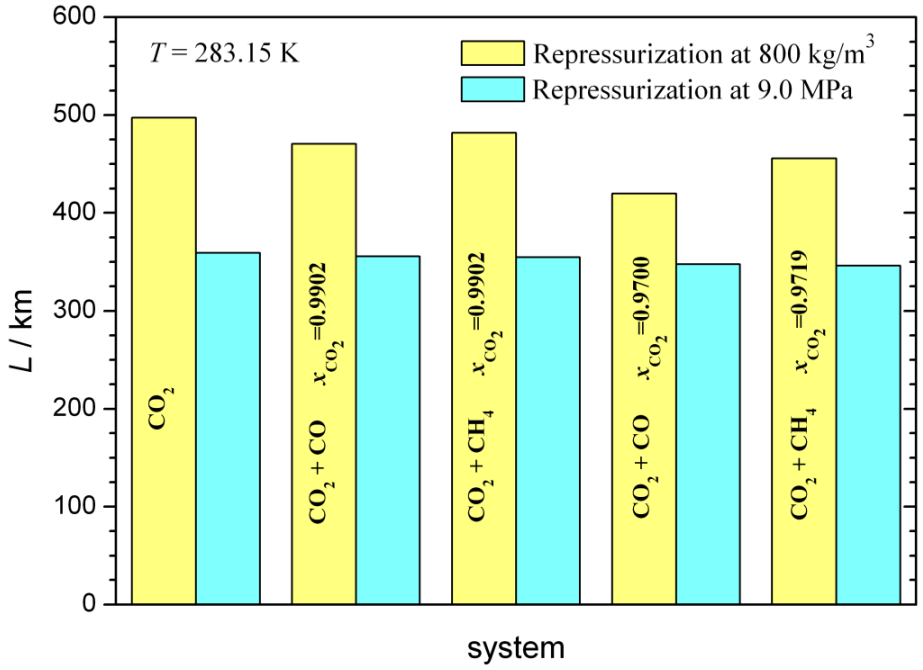


Figure S7. Booster station power, $W_{20,}$ required to repressurize the fluid up to an outlet pressure and temperature of 20.0 MPa and 311 K at T_{tr}= 283.15 K for pure CO_2, CO_2+CO and CO_2+CH_4 mixtures. Yellow: W_{20} required to repressurize from the pressure corresponding to a density of the fluid of 800 kg/m^3. Blue: W_{20} required to repressurize from 9.0 MPa. Mass flow was taken to be m = 317 kg/s, inner diameter of the pipeline D = 0.508 m, roughness height e = 4.6×10^{-5} m, and booster efficiency $y_{booster}$= 0.75.[25]

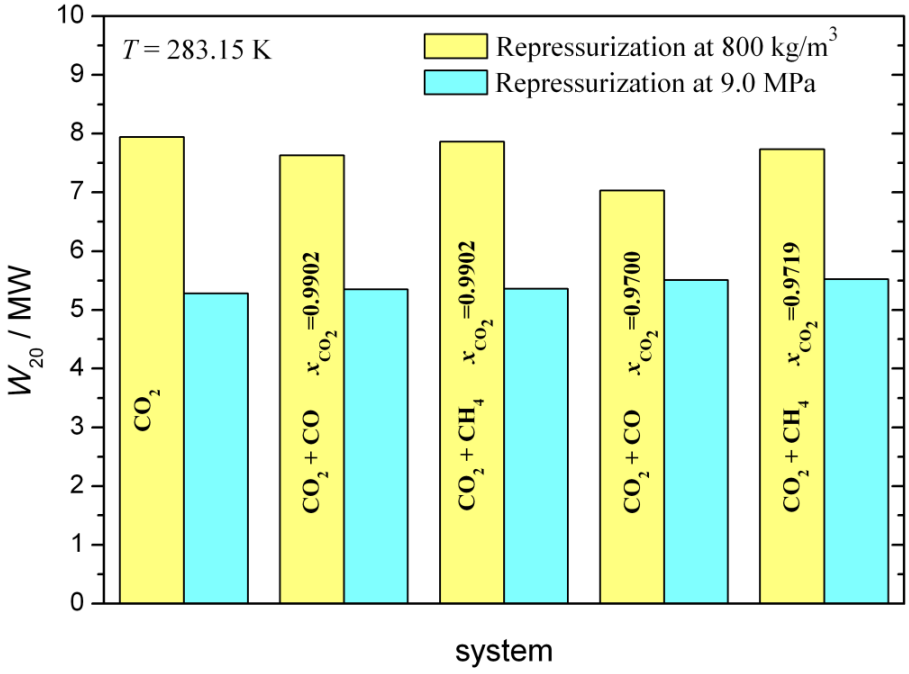
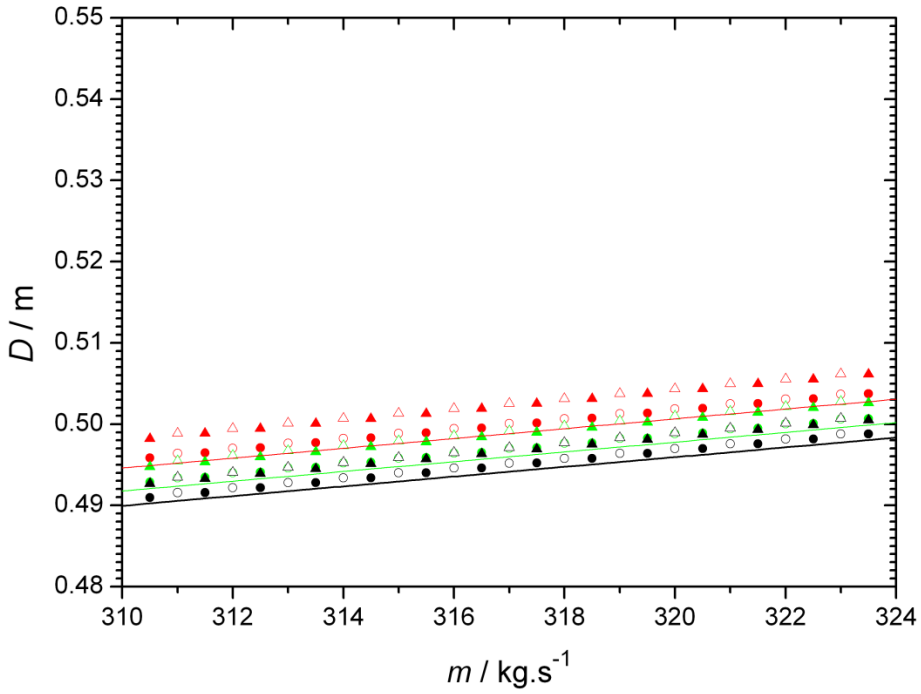


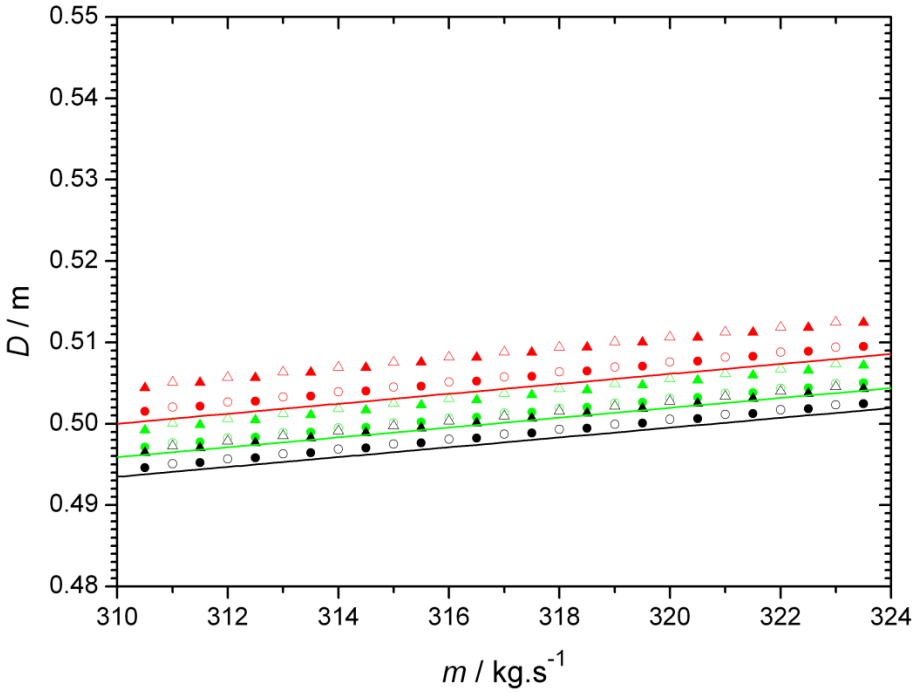
Figure S8. Pipeline inner diameter, D, versus mass flow (capacity), m, for pure CO_2, CO_2+CO and CO_2+CH_4 mixtures at (a) 273.15 K, (b) 283.15 K, (c) 293.15 K, (d) 304.21 K and (e) 308.15 K and at various pressures, P. Roughness height was set at $e = 4.6\times10^{-5}$ m and an average value for pressure drop per meter of 33 Pa.m^{-1} was used.

(S8a)



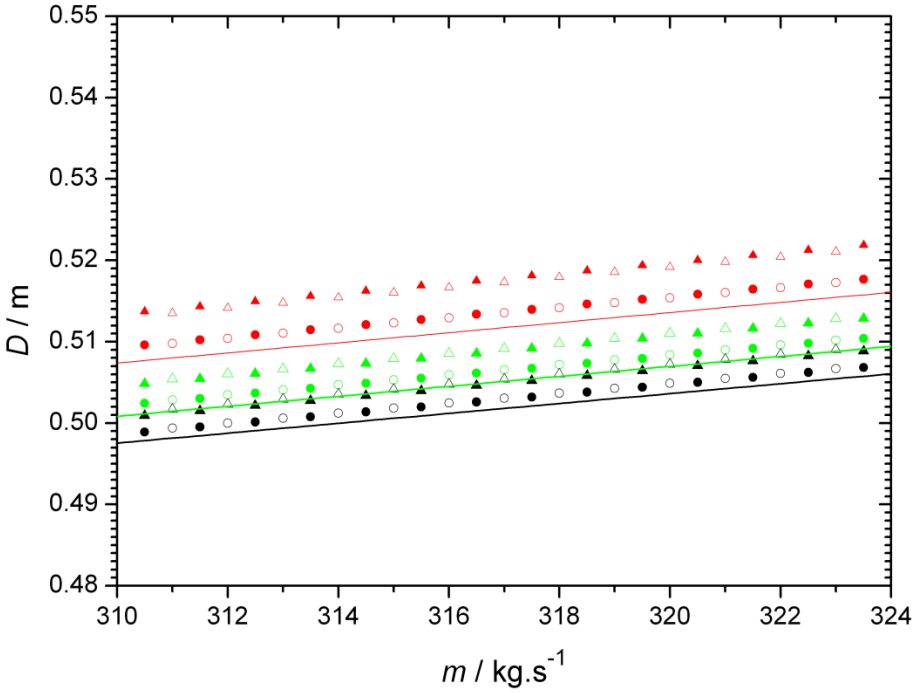
T = 273.15 K			
Red, P = 9.0 MPa	Solid lines, CO_2	Circles, $x_{CO_2} \cong 0.99$	
Green, P = 15.0 MPa	Solid symbols, CO_2+CO	Triangles, $x_{CO_2} \cong 0.97$	
Black, P = 20.0 MPa	Blank symbols, CO_2+CH_4		

(S8b)



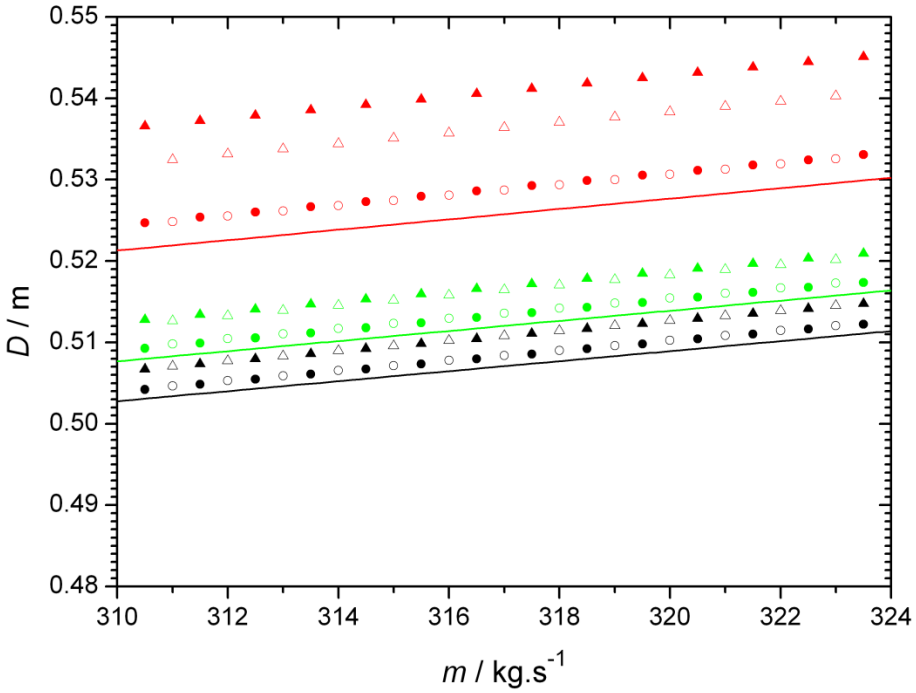
T = 283.15 K
Red, P = 9.0 MPa
Green, P = 15.0 MPa
Black, P = 20.0 MPa
Solid lines, CO_2
Solid symbols, CO_2+CO
Blank symbols, CO_2+CH_4
Circles, $x_{CO_2} \cong 0.99$
Triangles, $x_{CO_2} \cong 0.97$

(S8c)



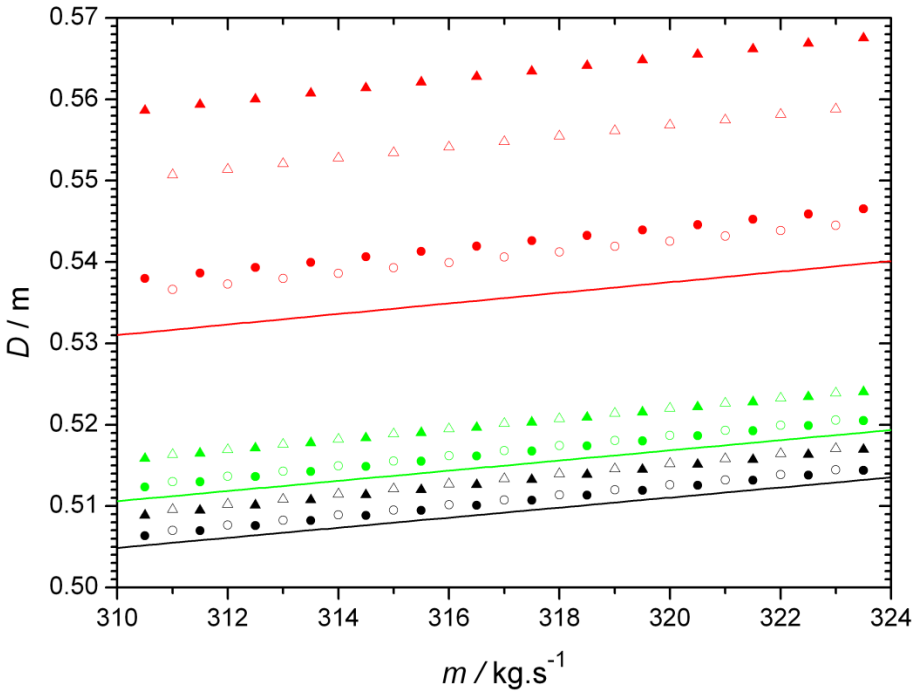
T = 293.15 K
Red, P = 9.0 MPa
Green, P = 15.0 MPa
Black, P = 20.0 MPa
Solid lines, CO_2
Solid symbols, CO_2+CO
Blank symbols, CO_2+CH_4
Circles, $x_{CO_2} \cong 0.99$
Triangles, $x_{CO_2} \cong 0.97$

(S8d)



T = 304.21 K
Red, P = 9.0 MPa
Green, P = 15.0 MPa
Black, P = 20.0 MPa
Solid lines, CO_2
Solid symbols, CO_2+CO
Blank symbols, CO_2+CH_4
Circles, $x_{CO_2} \cong 0.99$
Triangles, $x_{CO_2} \cong 0.97$

(S8e)



T = 308.15 K
Red, P = 9.0 MPa
Green, P = 15.0 MPa
Black, P = 20.0 MPa
Solid lines, CO_2
Solid symbols, CO_2+CO
Blank symbols, CO_2+CH_4
Circles, $x_{CO_2} \cong 0.99$
Triangles, $x_{CO_2} \cong 0.97$

Figure S9. Solubility parameters, δ, versus pressure for pure CO_2 and CO_2+CO mixtures at several temperatures. Solid lines, pure CO_2; dashed lines, x_{CO_2}= 0.9902; dotted lines, x_{CO_2}= 0.9700.

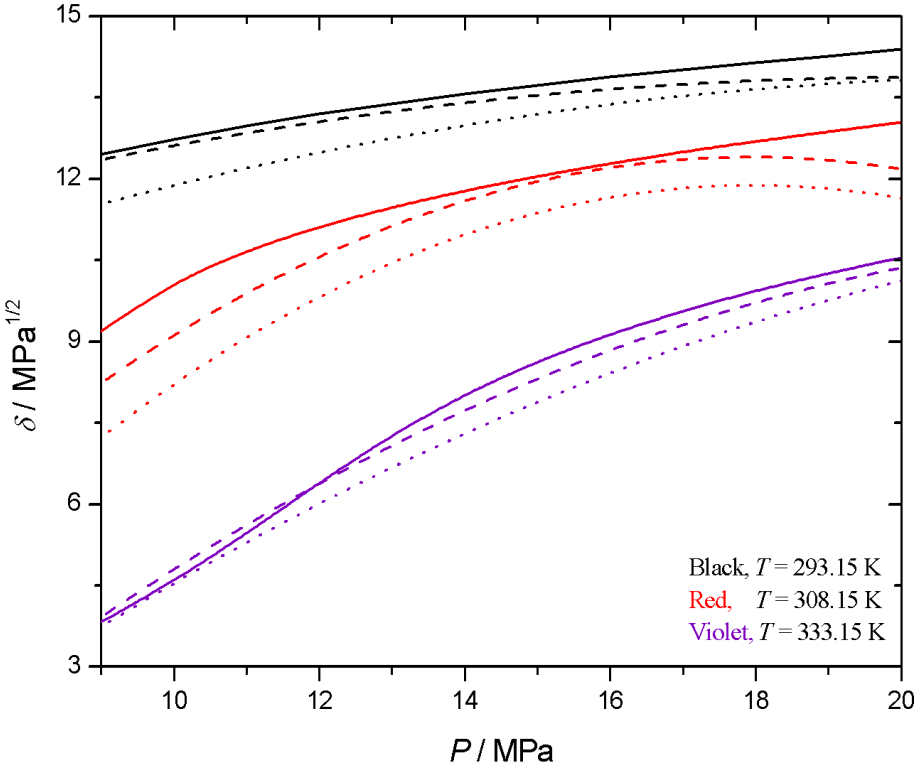


Figure S10. Normalized rising velocity, v/v_0, versus pressure at several temperatures for mixtures (a) CO_2+CO (x_{CO_2}= 0.9700) and (b) CO_2+CH_4 (x_{CO_2}= 0.9719). ρ_{br}= 1025 kg/m^3.

(S10a) (S10b)

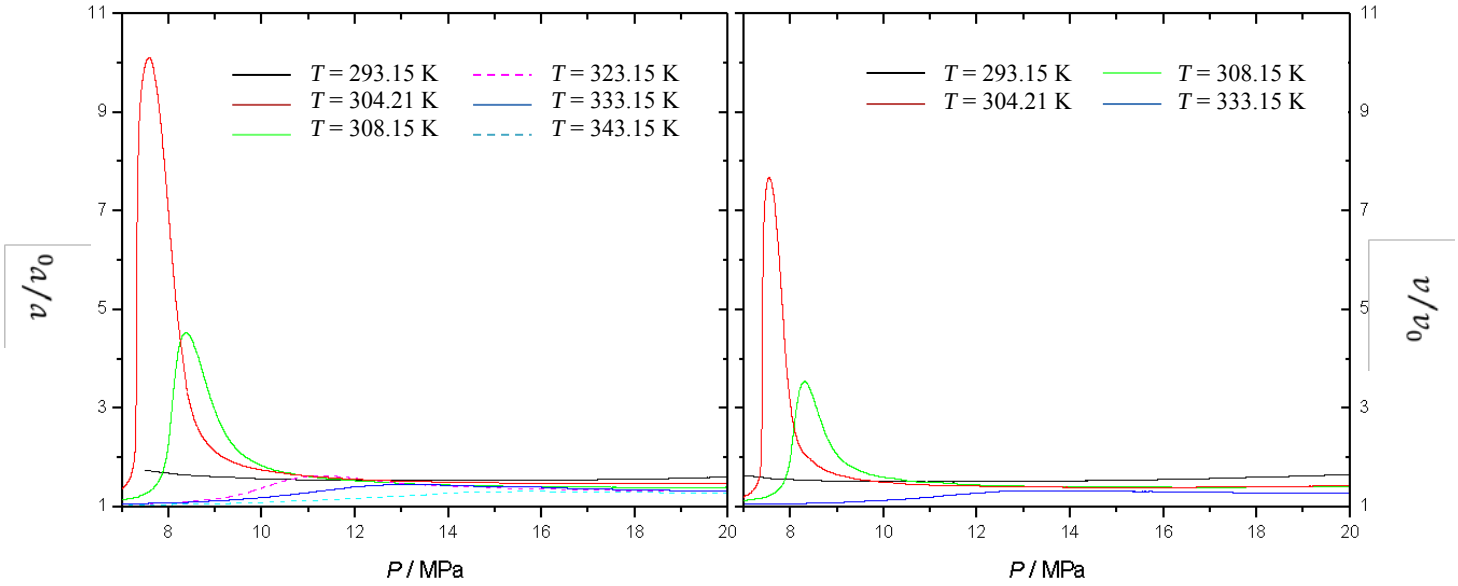


Figure S11. Normalized rising velocity, v/v_0, versus pressure at several temperatures for mixtures (a) CO_2+CO (x_{CO_2}= 0.9700) and (b) CO_2+CH_4 (x_{CO_2}= 0.9719). ρ_{br}= 1250 kg/m^3.

(S11a) (S11b)

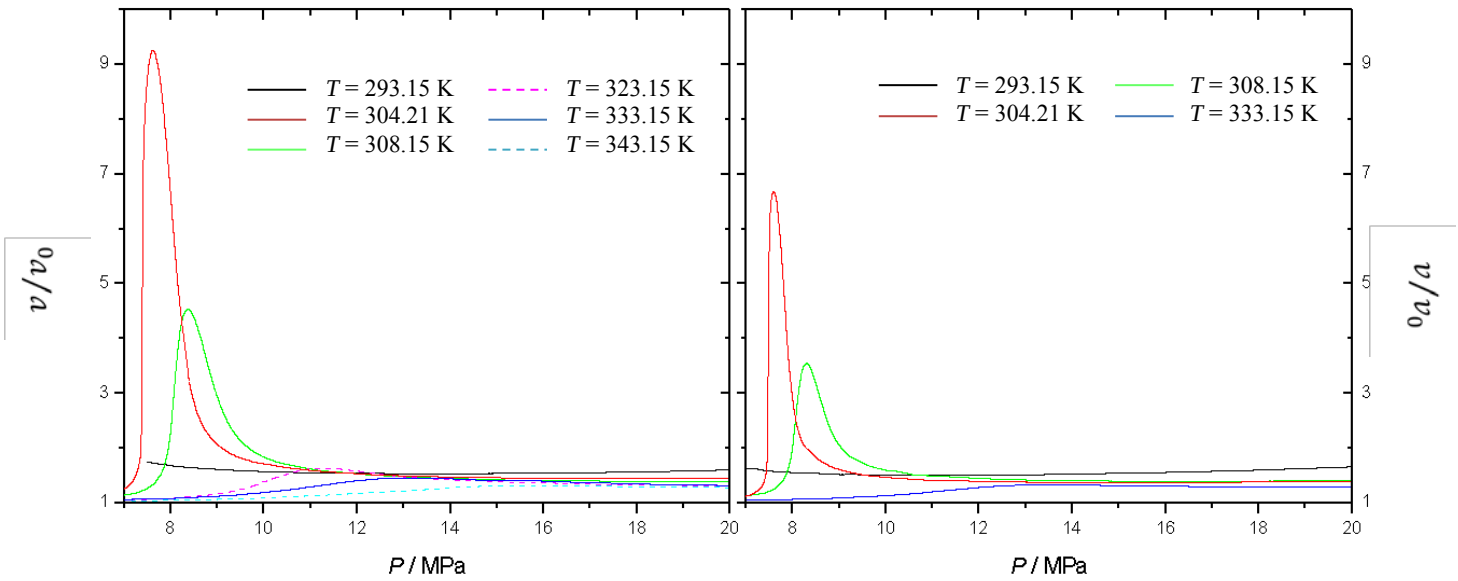


Figure S12. Normalized permeation flux, $\dot{M}/\dot{M}_0$, versus pressure at several temperatures for mixtures (a) CO_2+CO (x_{CO_2}= 0.9700) and (b) CO_2+CH_4 (x_{CO_2}= 0.9719).

(S12a) (S12b)